



PUBLIC

SAP Data Services

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Release Notes

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1 About SAP Data Services 2025

SAP 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.

Please refer to [Data Services 2025 Release Notes](#) , to get latest information on certifications, known issues and product updates.

It provides a development user interface (Designer), 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 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 and additional information

To obtain the latest version of the documentation (including the most up-to-date version of these Release Notes) and find links to additional information, visit the SAP Help Portal at https://help.sap.com/viewer/p/SAP_DATA_SERVICES.

You can access the latest information, including additional installation and configuration troubleshooting, pertaining to this Data Services release by reading KBA [1530081](#) .

For information about the compatibility between Data Services and BI or IPS, read KBA [3623529](#) .

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.

For a new or update installation, follow the instructions in your *Installation Guide for Windows* or *Installation Guide for UNIX*.

2 Compatibility update

Prerequisite software requirements for SAP Data Services 2025.

In the typical SAP Data Services landscape, you must first install one of the following products. These products provide platform services such as security, scalability, and high availability for Data Services and Information Steward.

Make sure you are using a compatible version of BI or IPS. For the latest information regarding Data Services and BI platform/IPS compatibility, see KBA [3623529](#) and the [Product Availability Matrix](#) (PAM).

⚠ Restriction

Data Services 2025 *does not* support the 4.3 service packs or patches for SAP BusinessObjects Business Intelligence platform (BI platform) or SAP BusinessObjects Information Platform Services (IPS). You must use the highest supported 2025 version of SAP BusinessObjects Business Intelligence platform (BI platform) or SAP BusinessObjects Information Platform Services (IPS) with Data Services 2025.

- SAP BusinessObjects Information platform services (IPS) if you only want to use features of Data Services or Information Steward.

ℹ Note

Use the latest IPS installation package that has been certified per KBA [3623529](#). For information about obtaining a license key for running a full or fresh installation of Information platform services (IPS), see KBA [3662610](#).

- SAP BusinessObjects Business Intelligence platform (BI platform) if you also want to use Business Intelligence clients such as Web Intelligence documents or Crystal Reports.

→ Tip

If you are currently using SAP BusinessObjects Business Intelligence platform (BI platform), we also recommended that you install SAP Business Intelligence Information platform services (IPS) with Data Services on a separate environment to provide flexibility to upgrade Data Services and Information Steward independently from BI platform.

For information about BI Platform user licenses, see KBA [2176896](#).

For information about SAP Data Services compatibility with SAP HANA, see KBA [3623310](#).

For the latest updates in other product compatibility, see the *Product Availability Matrix* (PAM) located at <https://userapps.support.sap.com/sap/support/pam>.

3 Restrictions update

Restrictions for SAP Data Services 2025.

Installation restrictions

- The SAP Data Services installer is available in English only.
- The installation path of Data Services cannot contain multi-byte characters.

Other restrictions

- To minimize any security vulnerabilities, you should not use external DTDs in XML documents that you send to the SDK.
Here is an example of an XML document using an external DTD. In this case, `note.dtd` is defined in a file in the system (external to this XML document).

```
<?xml version="1.0" encoding="UTF-8" standalone="no" ?>
<!DOCTYPE note SYSTEM "note.dtd">
<note>
  <to>Mr.X</to>
  <from>Mr.Y</from>
  <message>Stack Overflow is awesome</message>
</note>
```

- Google BigQuery application datastore configuration cannot be updated using the Management Console in Data Services 4.2.4 and later. When you export a job that has a Google BigQuery datastore, the export does not include the Google private key for security reasons. When you deploy the job in a production environment, you must update the private key and make other necessary changes in the BigQuery datastore options to enable the job to access your Google BigQuery project. Instead of using Management Console to update the Google BigQuery datastore configuration, you must update the private key and other necessary options in Designer using the Datastore Editor.
- Although Data Services currently supports both Oracle Change Data Capture (CDC) in synchronous mode (trigger-based) and asynchronous Hotlog mode, Oracle Streams (in Data Services terms, known as asynchronous CDC mode) was deprecated.
- 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 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.
- 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 meta-data	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
Flat File	Yes	Yes	Yes	Yes
SAP HANA	Yes	Yes	Yes	Yes
HP NeoView	Yes	Yes	Yes	Yes
Informix	Yes	Yes	Yes	Yes
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

Source/Target	Multi-byte meta-data	Data Profiler	Lookup_ext	View Data
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
OpenHub	No	No	No	No
Table	No	Yes	No	Yes
SAP BW Target	No	No	No	No
SAP Sybase SQL Any-where	Yes	Yes	Yes	Yes
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.
- 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 Guide*.
- The SLT feature requires that you use a compatible version of SLT. For the availability of the necessary SLT version, see the *Product Availability Matrix* (PAM) available at: <https://userapps.support.sap.com/sap/support/pam>.

4 Product dependencies

SAP Data Services 2025 depends on other products to provide platform services such as security, scalability, and high availability.

- For information about configuring a datastore and an RFC server using SNC with SAP COMMONCRYPTOLIB 8, see SAP Note [2275543](#).
- 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 Data Services 4.2 and above. 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 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 prerequisite, the following SAP Notes must be implemented before using this feature:
 - SAP Note [1294774](#) and SAP Note [1270828](#): Resolve table import issues.
 - SAP Note [1330568](#) version 3: Resolves table reading issues.For the latest information about Open Hub, refer to KBA [1343606](#) in the SAP Support Portal.
- For the latest information about Data Services SAP extractor support, see SAP Note [1558737](#).
- Data Services 4.0 and later versions supports 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 must be applied to your NetWeaver environment to release the extractors and make them visible for Data Services. These dependencies are documented in KBA [1522554](#).

5 Installation and upgrade considerations

Installation scenarios and considerations for SAP Data Services 2025.

The latest version of Data Services 2025 can be installed in either of the following ways:

- As a new, full installation or by uninstalling any previous Data Services versions.
- As an upgrade on top of an existing Data Services 4.2 and 4.3 version (without uninstalling the previous version).

📘 Note

You must obtain a new 2025 product key the first time you install, upgrade, or update Data Services 2025. The 2025 product keys are not backwards compatible and do not work with older versions of Data Services. You will not be asked to enter the new product key for future 2025 upgrades or updates.

Full installation

The Data Services 2025 installer automatically detects whether a version of Data Services is already installed and then follows the appropriate work flow. If Data Services is not already installed on the system, the installer performs the full installation.

For more information about installing and configuring Data Services, see the following resources:

- For deployment and architecture information, see the *Data Services and Information Steward Master Guide*.
- For full installation instructions, see the *SAP Data Services Installation Guide*.

Supported installation scenarios

The following list illustrates common supported installation sequences for upgrading Business Intelligence platform (BI) SPx Patch y (where x and y can be a valid BI or Data Services-supported support pack and patch version) and Data Services to version 2025. Information platform services (IPS) can be used in place of BI in any of these sequences:

📘 Note

For the latest information regarding Data Services and BI platform/IPS compatibility, see KBA [3623529](#) and the [Product Availability Matrix \(PAM\)](#).

- **Scenario 1:** New installation
Note^[2] + BI/IPS 4.3 SP2 Patch y^[3] + Data Services 4.3 SPxx
- **Scenario 2:** Upgrade from existing Data Services 4.0 SPx installation
BI 4.0 SPx Patch y + Data Services 4.0 SPx Patch y + Note^[2] + BI/IPS 4.3 SP2 Patch y + Data Services 4.3 SPxx^[1]

- [Scenario 3](#): Upgrade from existing Data Services 4.1 SPx installation
BI 4.1 SPx Patch y + Data Services 4.1 SPx Patch y + BI/IPS 4.3 SP2 Patch y + Data Services 4.3 SPxx^[1]
- [Scenario 4](#): Upgrade from existing Data Services 4.2 SPx installation
BI 4.2 SPx Patch y + Data Services 4.2 SPxx Patch y + BI/IPS 4.3 SP2 Patch y + Data Services 4.3 SPxx^[1]

📘 Note

[1]: A Data Services repository upgrade is mandatory. For more information, see the *SAP Data Services Upgrade Guide*.

[2]: If your Data Services environment is on the early version of Windows prior to Windows 10 or Windows Server 2016, i.e. Windows 2008, Windows 2008 R2, Windows 2012, or Windows 2012 R2, before upgrading, you must apply a Windows Package update. Refer to SAP Note [2451830](#) 📄 for more information.

Use the latest IPS installation package that has been certified per KBA [3623529](#) 📄. For information about obtaining a license key for running a full or fresh installation of Information platform services (IPS), see KBA [3662610](#) 📄.

Upgrading to Data Services 2025.00

Before you upgrade, review the *Data Services Upgrade Guide* for upgrade scenarios and paths.

Also, refer to the “Restrictions update” section of these *Release Notes* for important installation information about upgrading from previous versions.

Installation sequence

Before starting the update procedure, make a backup of your Data Services configuration files (for example, `DSConfig.txt`). During the installation of Data Services 4.3 SPxx, you can choose to reuse an existing configuration and repository from a previous Data Services installation.

1. If you have an existing installation of Business Intelligence platform or Information platform services (IPS), you must upgrade to the latest supported release of Business Intelligence platform (BI platform) or Information platform services (IPS).
For the latest information regarding Data Services and BI platform/IPS compatibility, see KBA [3623529](#) 📄 and the [Product Availability Matrix \(PAM\)](#) 📄.
2. Install Data Services 2025 over Data Services versions of 4.0, 4.1, 4.2 or 4.3

Refer to the backup and restore topic in the [SAP BusinessObjects Business Intelligence platform Administrator Guide](#) before uninstalling it.

Upgrade Guide

See the *Upgrade Guide*, which is available on the [Help Portal](#).

The *Upgrade Guide* includes important sections:

- “Upgrading from Data Services 4.x”: Helps you upgrade from previous versions (Data Services 4.2, and 4.3) to SAP Data Services 2025.
- “Data Services Behavior Changes”: Describes behavior changes associated with all versions of Data Services 2025.

6 Fixed and known issues

Issues fixed in previous support packs and patches.

The following table lists the respective release's SAP Note.

SAP Data Services release version	SAP Note Release Note
4.3 SP03	SAP Note 3429849 
4.3 SP2	SAP Note 3283463 
4.3 SP2 Patches	SAP Note 3315423 
4.3 SP1	SAP Note 3257156 
4.3 SP00	SAP Note 3136005 
4.3 SP00 Patches	SAP Note 3203555 
4.2 SP14	SAP Note 2931701 
4.2 SP14 Patches	SAP Note 2942023 

6.1 SAP Data Services 4.3 SP03

6.1.1 Known issues in SAP Data Services 4.3 SP03

Known issues that exist in the Data Services 4.3 SP03 release 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. Reference the issue ID when you search 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.

Issue ID	Description
SAP Note 3444857 	When running MDS test connection to GBQ ODBC, an error results.
	Workaround
	Remove the 2 double quotes in DSConfig.txt in section [Repository], like: [Repository] AdditionalConnInfo =

Issue ID	Description
SAP Note 3445412 	Failure of data insertion to the DB2 target table through the Gen ODBC with the DataDirect driver.
SAP Note 3444120 	There is no support for Key Pair Authentication for Snowflake Database in Data Services Metadata Browsing Service used by Information Steward. Workaround Use connection of ODBC Database Type for Snowflake. Setup the Key Pair Authentication in ODBC configuration. Leave the password as blank in Data Insight Connection.
SAP Note 3441505 	Error "Please provide a value for the field <Interval between retries(sec)>" while saving existing datastores with multiple configurations in the datastore editor in designer after upgrading Data Services to 4.3 Workaround 1. In the datastore editor, click the right bottom button "Configurations: 1 Edit". 2. Open the configurations editor. 3. Click OK to close it 4. The datastore can be saved without error.
SAP Note 3437988 	When trying to import the entity with navigation property/property which locates in the referred odata endpoint/metadata, error occurs: "Cannot find type with name xxxx". Workaround Change the referred definitions into one metadata. As it is an advanced usage, if required, please contact dataservices@sap.com or the product owner for the official channel of requirement/enhancement.
SAP Note 3382538 	Configure auto start for Data Service job service in SUSE 15 SP4. After system reboot, job service does not automatically start. Workaround Use the <code>svr cfg -TSTART</code> command to manually start up job service.
SAP Note 3293582 	SAP Data Services Management Console object promotion management not able to see some datastore objects present in the central repository. Workaround 1. Edit the datastore in the Data Services Designer. Save your changes. 2. Check out the object and then check the object back into the central repository. 3. Go to the Data Services Management Console and the datastore object is present.

Issue ID	Description
SAP Note 3298009 	When logging into Data Services Management Console you get the error, "Access is denied to Data Services Application" <i>Workaround</i> - Follow the steps in KBA 2145849  using the dfo file for the SAP Data Services Application to do dfo cleanup and redeploy the affected application dfo file. - You can find the dfo file for Data Services Application under <code><Install Dir>\SAP BusinessObjects Enterprise XI 4.0\dfolder\BusinessObjects_DS_DataServices_dfo.xml</code>. You can also refer to KBA 2186668 , which describes a similar issue. In the past, performing a repair on the BOE/IPS install on the main node in cluster environment has also resolved this issue. Go to KBA 2468513  for more information.
SAP Note 3281580 	Fields of a large numeric type like (69,0) became (28,0) after dataflow is replicated or imported. <i>Workaround</i> Change the type manually after replication/import.
SAP Note 3264834 	A 400 Bad request error occurs when running an OData job that uses the datetime filter and the Data Services OData adapter. <i>Workaround</i> - Navigate to <code>%ds_common_dir%/conf/DSConfig.txt</code>. - Increase AdapterStartTimeout and AdapterDataExchangeTime. <code>AdapterStartTimeout = 90000000</code> <code>AdapterDataExchangeTimeout = 30800000</code> - Remove the WHERE clause from the job or use a column which is filterable according to entity metadata for the OData endpoint. Save your job. - Restart the OData adapter instance in Data Services Management Console. - Test your job.

Issue ID	Description
SAP Note 3236418 	Error: does not close tag - SAP Data Services. <i>Workaround</i> Connect to a DB2 10.x server, launch the DB2 command, and run the following command: <pre>db2set DB2_COMPATIBILITY_VECTOR=MYS</pre> <pre>db2stop</pre> <pre>db2start</pre> This configuration makes sure that DB2 supports the MySQL-style syntax, which enables the DB2 server to support "LIMIT n OFFSET m" in SQL statements.
SAP Note 3197542 	Having the DOP set to > 1 in the Global Address Cleanse (GAC) transform causes an unknown transform error to occur while processing a job - Linux only. <i>Workaround</i> Process Data Services Global Address Cleanse jobs with a setting of DOP = 1.
SAP Note 3194591 	Oracle repository in Data Services could not be registered successfully due to java.security.InvalidAlgorithmParameterException when using the PKCS12 type. <i>Workaround</i> Convert PKCS12(ewallet.p12) to the JKS type and use the JKS type as a truststore or keystore.
SAP Note 3170843 	Data Services Job Launcher hangs when executing some jobs. This may occur if the following is true: • The Job Launcher is on Windows Server 2012. • The Data Services Job Server and BOE installs are on Linux. • Your repository is Oracle 12.x. <i>Workaround</i> Use the Job Launcher on a Windows system other than Windows server 2012.
SAP Note 3171073 	Informix bulk loader limitation with field delimiter. <i>Workaround</i> There are two options: • Use another field delimiter that does not exist in the source data columns. • Use an Escape field delimiter character in the source data columns.

Issue ID	Description
SAP Note 3153897 	Promotion Management: Data Services (DS) repository exported from source system is Inactive in the target system. <i>Workaround</i> Please manually set the "Allow user to retrieve password" right to Administrator and then promote it. The Password Property is promoted to the target. 1. Go to BOE ► <i>CMC</i> ► <i>Data Services</i> ►, right click the repository that you want to promote, and click <i>User Security</i>. 2. Choose <i>Administrator</i> and then click <i>Assign Security</i> on the top right. 3. Click the <i>Advanced</i> tab, then click the <i>Add/Remove Rights</i> link. 4. Expand <i>Application</i> on the left pane and select the Data Services repository. 5. Check the green option for <i>Allow user to retrieve repository password</i> and <i>Allow user to retrieve repository password that user owns</i> rights, and then click <i>Apply</i>. 6. Click <i>OK</i>. The window closes and the two user rights that you selected will be listed. 7. Promote the Data Services repository.
SAP Note 3134382 	Cannot read from an <code>.xlsb</code> file when job server is on UNIX - Data Services. <i>Workaround</i> There are two workarounds/solutions for this issue: Option 1: Change the file format from <code>.xlsb</code> to <code>.xlsx</code> through Microsoft Excel and then specify the new <code>.xlsx</code> file as the file location of the Excel adapter. Option 2: Change the file format from <code>.xlsb</code> to <code>.csv</code> and then create a File Format in the Designer.
SAP Note 3123445 	Data Services job fails with the error, "<ORA-12899: value too large for column 'AL_STAGING_INFO'. 'NAME'>". <i>Workaround</i> Try to re-register the repository with a shorter hostname or try to change the pCache directory to a shorter path.
SAP Note 3120005 	Loading into SAP BW system fails. There is no workaround to this issue.

Issue ID	Description
SAP Note 3036039 	SAP Data Service Management Console cannot launch if the version of the Apache Tomcat Introscope Wily server is earlier than 10.7. <i>Workaround</i> Upgrade the Apache Tomcat Introscope Wily server to version 10.7 and restart the Tomcat. Follow the instructions for upgrading in SAP Note 1438005 . See Also: SAP Note 3079887  - How to check if SAP Data Services/Information Steward is using Wily?
SAP Note 3038105 	Setting up secLDAP SSO with a trusted authentication when the CMS is on UNIX or Linux in Data Services. <i>Workaround</i> To fix the issue, do the following: 1. Stop Tomcat. 2. Go to <INSTALL_DIR>/sap_bobj/tomcat/bin/setenv.sh and append the following to the JAVA_OPTS: -Dbobj.trustedauth.home=<folder that contains TrustedPrincipal.conf> 3. Start Tomcat. 4. Go to the Data Services Management Console for SSO and launch it.
SAP Note 3017962 	Hive job fails with Hive temporary table with Avro formatted as the target table. <i>Workaround</i> Use a template table with another format (for example, text, Parquet, or ORC) instead of Avro as the target table.

Issue ID	Description
SAP Note 3006506 	"RFC Server is not available" error occurs when there are multiple CMS servers. The workaround is to ensure that the correct order is followed when stopping and starting the CMS and EIMAPS servers. <i>Workaround</i> Stop Sequence: 1. Stop the SIA Nodes on the two systems without EIMAPS and SAP Data Services service. 2. Stop the Main SIA Node with EIMAPS and SAP Data Services service on the main node. Start Sequence: 1. Start the Main SIA Node with EIMAPS and SAP Data Services service on the main node. 2. Make sure that the SIA Node with all components is in green health status and is running. 3. Make sure you can log in to the CMC and Data Services Management Console. 4. After the sanity check is done on the Main SIA Node system with EIMAPS, perform a start on the other two CMS systems. 5. Start the SIA Nodes on the two systems without EIMAPS and SAP Data Services service. 6. Make sure that the health status is green and it's running respectively for all systems. 7. You should see the RFC server running after following these steps.

Issue ID	Description
SAP Note 3005853 	After upgrading to SAP Data Services 4.2 SP14 Patch 5, the Data Services Management Console dashboard does not display correctly when you deploy to a separated Tomcat. <i>Workaround</i> If in bundled Tomcat, which is provided by BOE (IPS), there is another option called -Dfile.encoding=UTF-8. It is added automatically after installing Data Services. In a none BOE bundled Tomcat, please follow the steps below for a solution: 1. Stop Tomcat on which the Management Console is deployed. 2. If the 'Tomcat Configuration' tool is installed, add -Dfile.encoding=UTF-8 in the Java Options of the JVM tab. 3. If it's not installed, edit the <Tomcat>/bin/env.bat (Windows) by adding the following lines: set JAVA_OPTS=%JAVA_OPTS% -Dfile.encoding=UTF-8 4. Additionally, you can also add the following to <Tomcat>/bin/env.sh (Linux): JAVA_OPTS="\$JAVA_OPTS -Dfile.encoding=UTF-8" export JAVA_OPTS 5. Save the file. 6. Start Tomcat: Windows (startup.bat) or Linux (./startup.sh).
SAP Note 2998907 	Parsing error in Data Services while processing columns with multibyte descriptions using ASE repository. <i>Workaround</i> Do one of the following: • Remove column descriptions (and other descriptions) that cause the issue. • Switch the datastore to English, so that all descriptions are in English.
SAP Note 2991693 	ERROR: ORA-12899: value too large for column - Data Services <i>Workaround</i> Use varchar for ASCII characters and nvarchar for Unicode characters.
SAP Note 2973824 	Schedule a job in the SAP Data Services Management Console and you get the error "while trying to invoke the method java.lang.String.getBytes(java.lang.String) of a null object loaded from local variable 's'". <i>Workaround</i> The workaround is to source al_env.sh from the below location: 1. Stop EIMAPS. 2. Source \$LINK_DIR/bin/al_env.sh. 3. Start EIMAPS and everything should work correctly.

Issue ID	Description
SAP Note 2976928 	The file tf_cgc.exe fails to create a rule file for the Text Analysis transform. <i>Workaround</i> For Data Services version 4.2 SP12 and higher, do the following: 1. Create a folder. Make sure that there is no spaces in the folder name. For example, E:\Textanalysis. 2. Copy the files listed below that are in %LINK_DIR%\bin and copy them to the new folder (E:\Textanalysis). For Data Services version 4.2 SP12 and higher: • bosap_icudt53.dll • bosap_icuin53.dll • bosap_icuio53.dll • bosap_icule53.dll • bosap_iculx53.dll • bosap_icutu53.dll • bosap_icuuc53.dll • bosap_xerces-c_3_2.dll • cgc1.exe • ISYS11dfdll • ISYSpdf6dll • ISYSreaders.dll • ISYSreadershd.dll • tf_cgc.exe 3. Copy the Language folder from %LINK_DIR%\TextAnalysis to the new folder (E:\Textanalysis). 4. Create your custom rule file (test.rul). From the command line, run the following command to generate the respective .fsm file: E:\TextAnalysis>%CD%\tf_cgc.exe -i test.rul -o test.fsm
SAP Note 2936267 	Teradata 16.20 bulk loader crashes on Solaris. <i>Workaround</i> Disable the Teradata bulk load option.
SAP Note 2910274 	ACCESS_VIOLATION error occurs when Data Services reads an Excel File. <i>Workaround</i> Uninstall Microsoft Access Database Engine 2016 and use Microsoft Access Database Engine 2010. You can also refer to KBA 2713828.

Issue ID	Description
SAP Note 2902733 	Subject is garbled for some Japanese characters for the smtp_to function. <i>Workaround</i> Use English characters for the email subject in the smtp_to function.
SAP Note 2892344 	Data Services background job in SAP keeps running after the registered server program disconnects from the SAP gateway. <i>Workaround</i> The only known workaround at the moment is to modify the ABAP code prior to invoking CALL 'RFCControl' with the understanding that the modifications will not be officially supported by SAP. Long-term solution will be updating the ABAP code to make changes to the options used in CALL 'RFCControl'.
SAP Note 2872845 	Named pipe error occurs: <The pipe has been ended.>. <i>Workaround</i> In the Data Services Dataflow Properties, change the Cache type option from Pageable to In-Memory.
SAP Note 2856541 	Error displays when reading persistent cache with lob - SAP Data Services. <i>Workaround</i> Edit the datastore, enable Force UTF-16 Codepage, and run the job. The job finishes successfully.
SAP Note 2838796 	Data Services now uses ECDSA hostkeys by default instead of RSA hostkeys. <i>Workaround</i> The workaround is to generate and use a ECDSA hostkey. To obtain an ECDSA hostkey fingerprint: 1. Logon to the file location object's host system that installs the Linux OS. 2. Execute <sudo ssh-keygen -lf /etc/ssh/ssh_host_ecdsa_key.pub>.
SAP Note 2800416 	Incorrect job fail reported when using Contained Database User method.
SAP Note 2795508 	Reading data from more than one Excel file causes an error to occur when running with Windows 2016 job server.

Issue ID	Description
SAP Note 2789806 	Reading a large flat file may cause an access violation error or unusual results. <i>Workaround</i> Use a single thread to read the file. The instruction to change the single thread are as follows: 1. Logon to the Designer. 2. Go to Tools > Options > Job Server > General. 3. Set the following attribute values: • <i>Section</i>: al_engine • <i>Key</i>: FILE_NTHREAD • <i>Values</i>: 0 If this fixes the issue, do the following: 1. Right-click on the data flow and click <i>Properties</i>. 2. Change the value of <i>Degree of parallelism</i> to 1.
SAP Note 2784089 	MySQL SSL database doesn't work on Solaris if the database name contain an underscore "_". <i>Workaround</i> Stop using "_" in database names.
SAP Note 2776435 	DSConnectionManager hangs when adding Altiscale Hive driver. <i>Workaround</i> Wait several minutes, then press CTRL + C. Run DSConnectionManager again and if the Hive driver has already been added, you can successfully run an Altiscale Hive job with this driver.
SAP Note 2775794 	Altiscale WebHDFS delegation token get command says the token is expired before the actual expiration date. <i>Workaround</i> 1. Generate a new SWEBHDFS delegation token with the following command: <pre>hadoop dtutil get swebhdfs://httpfs-sap2.s3s.altiscale.com:14000/-renewer "" -format java -alias httpfs-sap2.s3s.altiscale.com token</pre> 2. Copy the delegation token string from command <code>hadoop dtutil print token</code>. 3. Paste the new delegation token string to the password input box of Altiscale Hadoop file location object and run the job again.

Issue ID	Description
SAP Note 2774897 	Using varchar converts to integer and can cause a conversion error and null result. <i>Workaround</i> Change the engine locale to UTF-8.
SAP Note 2741139 	Before upgrading to Data Services, if you change the location of DS_COMMON_DIR and add a new job server, the newly added job server will disappear after the upgrade. <i>Workaround</i> Add the new job server information in the Data Services Server Manager after the upgrade installation has been performed.
SAP Note 2690490 	DS 4.2.11 USA Regulatory Address Cleanse possible performance degradation.

Issue ID	Description
SAP Note 2685857 	Unable to start BOEExcelAdapter after upgrade. <i>Workaround</i> Perform the following steps to update a classpath manually: - Go to <code><DS_COMMON_DIR>/dataservices/adapters/install</code> directory and delete <code>msexceladapter.xml</code>. - Go to <code><link_dir></code> and run the following command (you will need to replace <code><link_dir></code> with the correct path): <code><link_dir>/ext/jre/bin/java -classpath <link_dir>/lib/acta_adapter_sdk.jar:<link_dir>/lib/acta_tool.jar:<link_dir>/lib/log4j-1.2.3.jar:<link_dir>/ext/lib/jaxp.jar:<link_dir>/ext/lib/xercesImpl.jar:<link_dir>/ext/lib/xml-apis.jar:<link_dir>/ext/lib/xalan.jar com.acta.adapter.sdk-til.UpdateAdapterVersion <link_dir>/dataservices<link_dir>/dataservices "Microsoft Excel Adapter" >> <link_dir>/adapters/upgrade/upgrade_trace.txt 2>&1</code> - Open <code>msexceladapter.xml</code> and check the classpath for the <code>.jar</code> files, which includes poi latest 3.17 <code>.jar</code> files. <code><adapterJarFile DisplayName = "Adapter's Jar Files:" Description = "Adapter's directories and zip/jar files separated by semicolons. Show the location relative to the LINK_DIR." isArray = "true" Description_MsgID = "3020234" isHidden = "true" DisplayName_MsgID = "3020233" Order = "12">/lib/acta_adapter_sdk.jar;/lib/acta_broker_client.jar;/lib/acta_tool.jar;/ext/lib/bcm.jar;/ext/lib/cryptojFIPS.jar;/ext/lib/ssljFIPS.jar;/ext/lib/xercesImpl.jar;/ext/lib/xml-apis.jar;/ext/lib/log4j-1.2.15.jar;/lib/msexceladapter.jar;/ext/lib/dom4j-1.6.1.jar;/ext/lib/xmlbeans-2.3.0.jar;/ext/lib/xercesImpl.jar;/ext/lib/xml-apis.jar;/ext/lib/poi-3.17.jar;/ext/lib/poi-ooxml-3.17.jar;/ext/lib/poi-ooxml-schemas-3.17.jar;</adapterJarFile></code> - Go to the Management Console and edit the adapter to include the following: <code><link_dir>/ext/lib/poi-3.17.jar;<link_dir>/ext/lib/poi-ooxml-3.17.jar;<link_dir>/ext/lib/poi-ooxml-schemas-3.17.jar;</code> - Click <i>Apply</i>. - Restart the adapter.
SAP Note 2640757 	When compressing a file with a Unicode file name, you may encounter an open file error. <i>Workaround</i> Do not use a Unicode file name.
SAP Note 2626174 	Cannot import complex data types into Hive.

Issue ID	Description
SAP Note 2576503 	Multi-table join pushdown for Hive Avro tables may result in error. Pushdown for multiple join to Avro tables might cause the following error: task:java.lang.RuntimeException: java.lang.RuntimeException: java.io.IOException: java.io.IOException: Not a data file. <i>Workaround</i> Convert the files to text format and run the join on the tables.
SAP Note 2559148 	Data Services job fails after making a certain number of Web Services SOAP calls. The following error message appears in the <code>Axis2_log.txt</code> file: <pre>[Fri Oct 6 12:02:21 2017] [error] http_client.c(246) Error creating a socket. Most probably error returned by OS [Fri Oct 6 12:02:21 2017] [error] http_client.c(247) Socket Creation failed. [Fri Oct 6 12:02:21 2017] [error] http_client.c(552) client data stream null or socket error for host <hostname> and <port number> port [Fri Oct 6 12:02:21 2017] [error] http_client.c(556) A read attempt(HTTP) for the reply without sending the request [Fri Oct 6 12:02:21 2017] [error] http_sender.c(1381) status_code < 0 [Fri Oct 6 12:02:21 2017] [error] engine.c(179) Trans- port sender invoke failed [Fri Oct 6 12:03:21 2017] [info] [rampart][ram- part_mod] rampart_mod shutdown</pre> <i>Workaround</i> As UNIX root user, configure the system resources as follows: - Set the hard limit with command <code>ulimit -Hn <max number that can be allocated></code>. - Set the soft limit with command <code>ulimit -n <max number that can be allocated></code>.
SAP Note 2542431 	Data Services functions update for SAP BW 7.52. Function module call failed: SAP Data Service can't recognize the structure from function module in SAP BW 7.52. <i>Workaround</i> Refer to the SAP Note for the solution.

Issue ID	Description
SAP Note 2495708 	Continuous workflow with Table_Comparison crashes - SAP DataHANA 2.0 DSN datastore, when used with Data_Transfer transform as auto-automatic, gives the following error in versions of Data Services that do not support multi-DB HANA: SQL submitted to ODBC data source <> resulted in error <[SAP AG][LI-BODBC:HDB DLL][HDBODBC] General error;362 invalid schema name: DP1: line 1 col 21 (at pos 20)>. The SQL submitted is <CREATE COLUMN TABLE "DP1"."DT__348_441_1_1" ("DI_ROW_ID" INTEGER)> <i>Workaround</i> 1. In the datastore, click Advance and add a new alias. 2. Create a new alias for the Database name of the HANA server to point to the HANA owner name. 3. Alternatively, you can use File or Table as the Data_Transfer transfer type.
SAP Note 2480099 	Failed to load jvm.dll when you install Data Services client on Windows 2010 OS. The Data Services installation throws a failed to load jvm.dll error when installed on the Windows 2010 client. <i>Workaround</i> This is a known issue. The install of Microsoft Visual C++ 2010 Redistributable Package is required. Refer to the Data Services 4.2 Product Availability Matrix (PAM) for more information.
SAP Note 2467458 	Scheduled instances run one hour early after Daylight Saving Time switch-over. <i>Workaround:</i> According to <i>Business Intelligence platform Installation Guide for Unix</i>, configuring the TZ environment variable is mandatory for UNIX platforms. Refer to SAP Note 1404484  for configuration details. This brings the inconsistent time/timezone display issue in CMC, which can be resolved by adding "-Duser.timezone=<desiredtimezone>" option to Tomcat. Refer to SAP Note 2442626 . Similarly, the Data Services BOE schedule time shifting after DST change issue can be resolved by adding "-Duser.timezone=<desiredtimezone>" option to the command line parameters of EIMAdaptingProcessingServer in CMC. Finally, there is a known issue for any BOE daily recurring schedules that fall in the DST changing period, e.g. 2017-03-26 01:59:59 CET to 2017-03-26 03:00:00 CEST. Refer to SAP Note 1986781  for more information.

Issue ID	Description
SAP Note 2461394 	Jobs formerly designed in the "Chinese" language fail with error. <i>Workaround</i> Jobs formerly designed in the "Chinese" language with earlier versions of Data Services must be re-designed using either "Simplified Chinese" or "Traditional Chinese".
SAP Note 2451333 	Special characters in Google BigQuery (GBQ) data are not processed correctly in SAP Data Services, whether using the SQL transform for the GBQ datastore or reading from GBQ using Google Cloud Storage (GCS) files. Data Services does not properly process special characters read from Google BigQuery by either the SQL transform (for example, a new line character would be read as "\n") or by export to Google Cloud Storage (for example, a quote would be read as triple-quote). <i>Workaround:</i> Post process fields with special characters using the ATL functions in Data Services or by using a third-party tool.
SAP Note 2441584 	SAP Data Services jobs fail when extracting from SAP S/4HANA 1610 sources. - A job extracting from SAP S/4HANA 1610 fails with the following error in SAP Data Services: (14.2) <Date><Time>(R) (0864:3163191040) R3C-151001: Data flow test_job_3 Reader Query Error calling RFC function to get table data: <RFC_ABAP_RUN-TIME_FAILURE>. - On SAP Application server, the following short dump occurs: The termination occurred in ABAP program or include "/SAPDS/SAPLRS_BASIS", in "/SAPDS/RFC_STREAM_READ_TABLE". The main program was "SAPMSSY1". - The same job runs fine in SAP S/4HANA 1510 with the same functions source code. - Short dump break references CALL_RFC_TABLE_MULTIREF. - Job fails after first array fetch. If array fetch is set to 1000, then it will read 1000 records and then fail. - Job will run if the number of records in the source is less than the array fetch value. <i>Workaround:</i> Upgrade to SAP kernel 7.49 Patch Level 119 or later.

Issue ID	Description
SAP Note 2392377 	When deploying Data Services Management Console to weblogic11 by wdeploy, the job fails with the following error message: "failed: java.lang.NoSuchMethodError: javax.xml.namespace.QName.<init>(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)V". <i>Workaround</i> 1. Modify the file (<BOE_INSTALL>/enterprise_x41/wdeploy/template/weblogic.xml) using the following content: <pre> <!DOCTYPE weblogic-web-app PUBLIC "-//BEA Systems, Inc.//DTD Web Application 8.1//EN" "http://www.bea.com/servers/wls810/dtd/ weblogic810-web-jar.dtd" > <weblogic-web-app> <jsp-descriptor> <jsp-param> <param-name> pageCheckSeconds</param-name > <param-value> -1</ param-value> </jsp-param> </jsp-descriptor> <container-descriptor> <prefer-application-packages> <package-name> com.rsa.*</package-name > </prefer-application-packages> <servlet-reload-check-secs> -1</ servlet- reload-check-secs> </container-descriptor> </weblogic-web-app> </pre> 2. Re-run the wdeploy command.
SAP Note 2392168 	Generate default DDL option for Data_Transfer transform does not support creation of multi-byte varchar column. <i>Workaround</i> To create a Data_Transfer table with multi-byte column support, do one of the following: • Do not use the Generate default DDL option from the Designer. The Data Services backend engine is able to create the varchar columns to support multi-byte data correctly. • To use Generate default DDL option, enable the option and manually modify the varchar columns to accommodate multi-byte data.

Issue ID	Description
SAP Note 2383950 	In Data Services Designer, when the user attempts to switch to another repository that is associated with a different job server, the following error is displayed: "NOTIFICATION SERVER ERROR : Problem with call (BODI-1241030)". <i>Workaround</i> Log out of repository 1 from Designer. Log into repository 2 from Designer.
SAP Note 2383409 	Under certain conditions, the first row is missed when uploading data from a source table to a target table using auto-correct load. Conditions: • The source table has key column that starts with zero. • The target table has a "Key" and "Identity" column. • The "Identity" column has "Seed value is 0". • Auto-correct load has the following parameter settings: • Identity Insert = OFF • Use input keys = Yes • Allow merge or upsert = Yes <i>Workaround</i> Use Optimized SQL generated by Data Services and run the procedure directly in MS SQL Server Studio.
SAP Note 2377030 	The URL of the Data Services Management Console logon page has been change to '/<production_name>' (eg. /DataServices) instead of '/<production_name>/launch/logon.do'. As a result, any existing bookmark that contains '*.do' can no longer be accessed. <i>Workaround</i> Update any bookmark that contains '*.do' for SAP Data Services Management Console.
SAP Note 2367862 	Data Services client installation on Windows 2010. <i>Workaround</i> Before installing the Data Services Client, install the Microsoft Visual C++ 2010 Redistributable Package.

Issue ID	Description
SAP Note 2367036 	When running a job with both a FROM and WHERE clause in the query, the job may fail with the following error: "(14.2) 08-12-16 16:14:18 (E) (8992:5980) RUN-050802: Data flow DF_ANN_O1_ORDER_DW_PREP_ALL Transform Query-Mapping1 Cannot convert data <> into type . Context: Column". <i>Workaround</i> Split the query into two, one with the FROM clause and the other with the WHERE clause.
SAP Note 2358567 	Trying to use file location object features in a continuous work flow causes permission issues, including the lack of permission to delete a file after usage. Jobs also may not finish uploading successfully. <i>Workaround</i> The different features offered through the file location object are not supported in a continuous work flow. They should be used only outside the continuous work flow context, as in a while loop or before entering a continuous work flow or after its executions. The following file location object features are not supported in a continuous work flow: • FTP • SFTP • SCP • LOCAL • Google Cloud Storage • Azure Cloud Storage • Amazon S3 Cloud Storage
SAP Note 2233748 	Error produced when trying to View Data of XML Source with Validation Enabled Job fails and Error Produced when trying to view XML Source with Enabled Validation checked in DS 4.2 SP5 Patch 1. Error: XML Parser Failed: See previously displayed error message

Issue ID	Description
SAP Note 2341441 	Scanning the Linux host where the Data Services server is installed, an SSL vulnerability for RC4 cipher is incorrectly reported on the job server port. <i>Workaround</i> Use the <code>SSL_Cipher_List</code> flag in <code>DSConfig.txt</code> to control the cipher list. In the SSL section of <code>DSConfig.txt</code>, set <code>SSL_Cipher_List</code>. <code>SSL_Cipher_List= empty</code>, which means that the list will contain all the ciphers supported by <code>sslv3</code> and <code>sslv2</code>, so if you want to restrict the list to not include RC4, set the value for the flag in <code>DSConfig.txt</code>. <pre>SSL_Cipher_List= ECDHE-RSA- AES256-GCM-SHA384:ECDSA-AES256-GCM-SHA384:ECDSA-AES256-SHA384:ECDSA-AES256-SHA:ECDSA-AES256-SHA:SRP-DSS-AES-256-CBC- SHA:SRP-RSA-AES-256-CBC-SHA:SRP-AES-256-CBC-SHA:DHE- DSS-AES256-GCM-SHA384:DHE-RSA-AES256-GCM-SHA384:DHE- RSA-AES256-SHA256:DHE-DSS-AES256-SHA256:DHE-RSA-AES256- SHA:DHE-DSS-AES256-SHA:DHE-RSA-CAMELLIA256-SHA:DHE- DSS-CAMELLIA256-SHA:ECDH-RSA-AES256-GCM-SHA384:ECDH- ECDSA-AES256-GCM-SHA384:ECDH-RSA-AES256-SHA384:ECDH- ECDSA-AES256-SHA384:ECDH-RSA-AES256-SHA:ECDH-ECDSA- AES256-SHA:AES256-GCM-SHA384:AES256-SHA256:AES256- SHA:CAMELLIA256-SHA:PSK-AES256-CBC-SHA:ECDSA-AES128- GCM-SHA256:ECDSA-AES128-GCM-SHA256:ECDSA-AES128- SHA:ECDSA-AES128-SHA:SRP-DSS-AES-128-CBC-SHA:SRP- RSA-AES-128-CBC-SHA:SRP-AES-128-CBC-SHA:DHE-DSS-AES128- GCM-SHA256:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128- SHA256:DHE-DSS-AES128-SHA256:DHE-RSA-AES128-SHA:DHE-DSS- AES128-SHA:DHE-RSA-SEED-SHA:DHE-DSS-SEED-SHA:DHE-RSA- CAMELLIA128-SHA:DHE-DSS-CAMELLIA128-SHA:ECDSA-AES128- GCM-SHA256:ECDSA-AES128-GCM-SHA256:ECDSA-AES128- SHA:ECDSA-AES128-SHA:AES128-GCM-SHA256:AES128- SHA256:AES128-SHA:SEED-SHA:CAMELLIA128-SHA:PSK-AES128- CBC-SHA:ECDSA-DES-CBC3-SHA:ECDSA-DES-CBC3- SHA:SRP-DSS-3DES-EDE-CBC-SHA:SRP-RSA-3DES-EDE-CBC- SHA:SRP-3DES-EDE-CBC-SHA:EDH-RSA-DES-CBC3-SHA:EDH-DSS- DES-CBC3-SHA:EDH-RSA-DES-CBC3-SHA:EDH-ECDSA-DES-CBC3- SHA:DES-CBC3-SHA:PSK-3DES-EDE-CBC-SHA:EDH-RSA-DES-CBC- SHA:EDH-DSS-DES-CBC-SHA:DES-CBC-SHA</pre> The above list can be generated using following steps:

Issue ID	Description
	1. In the command prompt, execute openssl ciphers. Openssl ciphers gives a list of all supported ciphers 2. Exclude the ciphers with RC4. 3. Add the new list to the SSL_Cipher_List in DSConfig.txt file. 4. Restart the job server.
SAP Note 2341002 	If the BOE is a cluster, the following error may be raised when getting the content of license measurement. "Could not open the file <BOE_Install>\FileStore\Input\...\<Metric_xxx>.xml." <i>Workaround</i> Configure the FRS as a shared folder that can be accessed by all the nodes in the BOE cluster. This is a standard configuration. For detailed steps, see Configuring the File Repository Server (FRS) .
SAP Note 2339392 	When reading multiple Excel files with both xls and xlsx extensions, a Get Access Violation error occurs. <i>Workaround</i> To resolve the issue, install the latest Microsoft Access Database Engine 2010 64 bit.
SAP Note 2337705 	Referencing a query's column in custom SQL of the search_replace() function is not supported in Data Services, and results in the following error message: "DBS-070401: Session <jobname> Data flow <dataflowname> Transform <queryname> ODBC data source <datasourcename> error message for operation <OdbcDB::describeQuery>: <[DatabaseType][Database Driver][Database] Object 'InputSchemaFieldName' does not exist.>. <i>Workaround</i> 1. Create a stage table in the database, load data to this table first, and then reference a column of this table. 2. Use a custom function to excute the SQL.
SAP Note 2320808 	With Sybase IQ 16 SP02 and above, converting datetime to varchar is hardcoded and cannot truncate, which cause an error in Data Services. <i>Workaround</i> Set the option PUBLIC.conversion_error = OFF on the Sybase server, so that the job does not fail in Data Services. If the CONVERSION_ERROR option is OFF, SAP IQ inserts a NULL value when possible. If CONVERSION_ERROR is ON, SAP IQ logs a conversion error.

Issue ID	Description
SAP Note 2315420 	A SAP Data Services job consumes all available memory while building the nested schema if the xsd/xml is large and involves a circular level more than 1. <i>Workaround</i> Try to reduce the size of the xsd by removing unneeded elements as much as possible.
SAP Note 2315419 	SAP Data Services does not support attachments (for example, .xml) as part SOAP response from either native Web services or Web services adaptor.
SAP Note 2315264 	For a Data Services REST Web Service datastore, if the WADL contains a single resource with multiple methods that all have the same resource path name, functions imported into Data Services are overwritten due to having the same name. <i>Workaround</i> Update the WADL file to give each method a unique resource path name.
SAP Note 2312361 	Update the WADL fileA continuous work flow stops if it has a stop function that results in a zero or a negative integer value. <i>Workaround</i> When you use a stop function in a continuous work flow, make sure you implement a counter equal to the number of iterations you want. After each iteration the counter should decrement by one until it reaches zero after the last iteration.
SAP Note 2311935 	On Solaris, a Data Services job crashes when a source or target is from HP Vertica and the repository database is SAP HANA. <i>Workaround</i> Use different repository databases to execute the jobs on Solaris with HP Vertica as a source or target.
SAP Note 2311259 	The structure of the RFC function is not imported correctly to Data Services. The function returns LINE instead of the proper structure.
SAP Note 2304150 	The software issues an HTTP Status 500 when user creates, saves, and then edits a new Sybase ASE repository without a password in the Central Management Console (CMC). Restart your browser and log back in to CMC.

Issue ID	Description
SAP Note 2298910 	A replication server job with a try catch block does not generate appropriate catch errors. <i>Workaround</i> Avoid using try catch blocks around the continuous workflow
SAP Note 2273511 	In the Text Data Processing Entity_Extraction transform, when you select the language as Auto, the Filter by Entity option is empty. <i>Workaround</i> The behavior for the Auto option is correct. The Filter by Entity option should be empty. Language#The default is 'Auto', directing the transform to attempt to identify the language. You may select another language from a list. By selecting #Auto#, a category filter list will not be available by default.
SAP Note 2244473 	Successful Data Services install with an error statement in install log file: "ParserConfigurationException was thrown. The feature 'http://xml.org/sax/features/namespace-prefixes' is probably not supported by your XML processor."
SAP Note 2243880 	Trying to load an MS SQL table that contains spatial data directly to SAP HANA fails. Only the first row is transferred correctly, and the rest of the rows have empty data for the spatial columns until the next fetch batch occurs. It also fails with a bad index during the load. <i>Workaround</i> Use the feature with a Query transform, which works correctly and yields the expected results.
SAP Note 2240264 	When loading to a HIVE template table from another HIVE source and the data flow is optimized for full pushdown that is insert-select, the monitor log count shows zero as rows loaded. <i>Workaround</i> Use the count(*) from the table before and after load to get the number of rows loaded
SAP Note 2223380 	HANA Calc view gives an untranslatable error when loading target table gives a primary violation error. <i>Workaround</i> When you get the error, either select delete table before loading option in target table properties, or delete the table manually and then try to load again.

Issue ID	Description
SAP Note 2162879 	A Data Services job fails when reading from the same xlsx file from parallel data flows. <i>Workaround</i> Provide read and write access to the directory in which the xlsx file is located for the user 'IUSR' . After providing access, restart the Data Services Job Service.
SAP Note 2161514 	When reading from MongoDB, and you have a Where condition in a Query or XML_Map transform that contains an empty string or null, incorrect results are produced. <i>Workaround</i> Use a Query criteria parameter in the MongoDB source instead of a Where condition.
SAP Note 2160793 	A delta extraction job for a cluster table completes without error, but results in no data.
SAP Note 2160763 	Bulk load with import fails to work with a DSN-less connection on DB2. <i>Workaround</i> Use a DSN connection for bulk load.
SAP Note 2160242 	Cannot delete an invalid extract request subscription from an SLT system.
SAP Note 2160228 	Delta extraction not working: - Extracting change data from an SLT source results in an integrity constraint violation. - Delta extraction from an SLT source results in an integrity constraint violation. <i>Workaround</i> To avoid the problem, use auto-correct load.

Issue ID	Description
SAP Note 2158337 	The following error appears when user attempts to execute a job through SAP Data Services on HDP 2.2 Hadoop cluster: "<Failed to initialize HDFS. Check HDFS environment setup>". <i>Workaround</i> A shared library is missing from the <code>/usr/lib64</code> directory. Make a copy manually to that location from <code>/usr/lib</code> and create a symbolic link to the file in <code>/usr/lib64</code>. To work around this issue, before re-running the job, enter the following on the job server machine where the master node of the Hadoop cluster is running: 1. <code>cd /usr/lib</code> 2. <code>cp libhdfs.so.0.0.0 /usr/lib64</code> 3. <code>cd /usr/lib64</code> 4. <code>ln -s libhdfs.so.0.0.0 libhdfs.so</code>

6.1.2 Issues fixed in SAP Data Services 4.3 SP03

Issues fixed in the Data Services 4.3 SP03 release are listed by an internal issue identification tracking number. Reference the issue ID when you search for the issue on our knowledge base or when communicating with SAP Customer Support.

Issue ID	Description
SAP Note 3444857 	When running MDS test connection to GBQ ODBC, an error results.
SAP Note 3444137 	Information Steward Rule Task fails with Snowflake ODBC error "Datetime field overflow resulting from invalid datetime.", when using Snowflake Database to store data that failed Rules.
SAP Note 3443043 	Data Services export report message when the export fails indicates that the export was successful.
SAP Note 3442982 	Data Quality export report functionality fails when using MSSQL Windows Authentication.
SAP Note 3442952 	URAC: The header record for the NCOALink monthly log files (CSL and PAF) are written out in the wrong format when exported from a MySQL repository.
SAP Note 3442583 	Huge Data Services error log file is created with error related to column delimiter, when Task is reading data from SAP Tables using Shared Directory Data Transfer Method
SAP Note 3442496 	Different Data Insight Connections for Oracle Database returns the same list of schemas in Metadata Browsing, when using TNS based connection having the same Oracle version, login, and password.
SAP Note 3441608 	Data Services job failed as it couldn't delete the target path's dat file from the Snowflake bulk loaders in case of 'Number of Loaders' is greater than 1.

Issue ID	Description
SAP Note 3441474 	GAC: When two unrelated localities are provided on input in the discrete locality1 and locality2 input fields, where one locality matches the input region and the other locality matches the input postcode, we are inconsistent as to which locality is assigned to, and in some cases we issue a tie condition. We should always favor the locality1 that is entered in the locality1 input field.
SAP Note 3440273 	URAC: Fault code E412 (Primary name not found in directory) is returned when the post-directional on input is located between the street name and street suffix (not after the street suffix).
SAP Note 3439749 	SAP Data Services Designer crashes when showing history in Central Object Library.
SAP Note 3436595 	URAC: The CASS O DSF2 certification log format requires the monthly log format to be updated.
SAP Note 3434382 	URAC: Output data is inconsistent for an input address that returns a fault code of E101 (Last line is bad or missing). This issue is data dependent and occurs when the Standardization Options Standardize Unassigned Address = NO.
SAP Note 3433328 	With Job Server server Group configured, if you are accessing Data Services Management Console on host A and download the debug package for jobserver B, will cause the following error: "Software could not download the logs".
SAP Note 3430509 	In a Data Services dataflow, using a template loader to create a json output, if there is a column of data type long, the data will get truncated, depending on the size.
SAP Note 3425606 	After upgrading to Data Services 4.3 SP01, Sybase IQ bulk load jobs containing CLOB/LONG VARCHAR data becomes much slower because CLOB data is written to separate data files instead of the single control file, slowing down the file system. There are also cases where the path of the data files are mistakenly loaded into the CLOB column instead of the data content.
SAP Note 3424486 	CASS O software currently converts the unit designator or "#" on input to "PMB" when the address matches to a CMRA record and the single secondary doesn't DPV Confirm.
SAP Note 3424485 	URAC: CASS O software currently converts the unit designator or "#" on input to "PMB" when the address matches to a CMRA record and the single secondary doesn't DPV Confirm.
SAP Note 3422499 	URAC: During the assignment process, the word "Dr" is not normalized and is dropped from the string used for address matching (per USPS rules) which causes an incorrect LACSLink match.
SAP Note 3422386 	URAC: CASS O crash when Dual Address field exceeds maximum word count.
SAP Note 3421817 	URAC: Fault Code E412 (Primary name not found in directory) is returned for an input address that does not have a street suffix (no street suffix in the USPS reference data either) and the post-directional is the spelled-out version.
SAP Note 3419284 	When you execute a job that contains a lookup function inside any transform of the data flow (tasks or processes) in debug mode, the job will fail with syntax errors. When you execute the same job without debug (no debug), it will run fine > green status.
SAP Note 3418610 	In Data Services Designer, when a Datastore is created, refreshed, or edited, the error "The field <JWT> can not be empty" is thrown regardless of Datastore type.

Issue ID	Description
SAP Note 3416513 	When bulk-loading to a target IQ table, Data Services is not able to identify an 'identity/autoincrement' column and is sending it on the LOAD TABLE SQL statement generated. Since Data Services sends the column name on the LOAD TABLE statement, IQ will interpret that a value will be inserted in the column, even if Data Services does not send any value to it.
SAP Note 3416284 	If the search contains wild card, the job trace/error log cannot be shown correctly in the Data Services Management Console, the error occurs: An application internal error occurred : URLDecoder: Illegal hex characters in escape (%) pattern - For input string "RE".
SAP Note 3415325 	Scheduling a daily batch job sometimes fails, but when the job is executed manually, it succeeds.
SAP Note 3414388 	When trying to open the Data Services Management Console>Central repository>Users and groups page, an error occurs.
SAP Note 3413267 	In Data Services Management Console, starting a real-time service with name containing "#" will hang.
SAP Note 3412752 	The logon web service in Data Services requires the user to supply the username, password, cms_system, and cms_authentication. The value for the parameter cms_system used to be in the form of host:port. A code change was made to take only the host as per a security requirement. This caused backward compatibility issues for some users.
SAP Note 3412785 	URAC: NCOA Monthly Report errors (CASS O - Move Type Counts).
SAP Note 3411716 	When reading from OData service version 4 endpoint, it only extracts the first 1000 records and then fails due to relative nextlink path.
SAP Note 3406628 	Data Services jobs with Table Comparison or UPDATE on Microsoft SQL Server Datastore tables run much slower on a Linux job server than the previous Windows job server.
SAP Note 3397441 	Data Services dataflow using pageable cache randomly fails with INVALID_HANDLE system exception on Windows job server.
SAP Note 3302108 	Metadata Explorer - Profiling Error (Big Table). This issue has been fixed in this release.
SAP Note 3223793 	URAC: Assignment error when a pre or post-directional is greater than 1 character and is positioned between the primary name and the street suffix in the input.

6.2 SAP Data Services 4.3 SP02

6.2.1 Known issues in SAP Data Services 4.3 SP2

Known issues that exist in the Data Services 4.3 SP2 release 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. Reference the issue ID when you search 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.

Issue ID	Description
SAP Note 3293582 	SAP Data Services Management Console object promotion management not able to see some datastore objects present in the central repository. <i>Workaround</i> 1. Edit the datastore in the Data Services Designer. Save your changes. 2. Check out the object and then check the object back into the central repository. 3. Go to the Data Services Management Console and the datastore object is present.
SAP Note 3298009 	When logging into Data Services Management Console you get the error, "Access is denied to Data Services Application" <i>Workaround</i> 1. Follow the steps in KBA 2145849  using the dfo file for the SAP Data Services Application to do dfo cleanup and redeploy the affected application dfo file. 2. You can find the dfo file for Data Services Application under <Install Dir>\SAP BusinessObjects Enterprise XI 4.0\df0\<dfofolder>\BusinessObjects_DS_DataServices_dfo.xml. You can also refer to KBA 2186668 , which describes a similar issue. In the past, performing a repair on the BOE/IPS install on the main node in cluster environment has also resolved this issue. Go to KBA 2468513  for more information.
SAP Note 3281580 	Fields of a large numeric type like (69,0) became (28,0) after dataflow is replicated or imported. <i>Workaround</i> Change the type manually after replication/import.

Issue ID	Description
SAP Note 3264834 	A 400 Bad request error occurs when running an OData job that uses the datetime filter and the Data Services OData adapter. <i>Workaround</i> 1. Navigate to %ds_common_dir%/conf/DSConfig.txt. 2. Increase AdapterStartTimeout and AdapterDataExchangeTime. AdapterStartTimeout = 9000000 AdapterDataExchangeTimeout = 30800000 3. Remove the WHERE clause from the job or use a column which is filterable according to entity metadata for the OData endpoint. Save your job. 4. Restart the OData adapter instance in Data Services Management Console. 5. Test your job.
SAP Note 3236418 	Error: does not close tag - SAP Data Services. <i>Workaround</i> Connect to a DB2 10.x server, launch the DB2 command, and run the following command: <pre>db2set DB2_COMPATIBILITY_VECTOR=MYS</pre> <pre>db2stop</pre> <pre>db2start</pre> This configuration makes sure that DB2 supports the MySQL-style syntax, which enables the DB2 server to support "LIMIT n OFFSET m" in SQL statements.
SAP Note 3197542 	Having the DOP set to > 1 in the Global Address Cleanse (GAC) transform causes an unknown transform error to occur while processing a job - Linux only. <i>Workaround</i> Process Data Services Global Address Cleanse jobs with a setting of DOP = 1.
SAP Note 3194591 	Oracle repository in Data Services could not be registered successfully due to java.security.InvalidAlgorithmParameterException when using the PKCS12 type. <i>Workaround</i> Convert PKCS12(ewallet.p12) to the JKS type and use the JKS type as a truststore or keystore.

Issue ID	Description
SAP Note 3171073 	Informix bulk loader limitation with field delimiter. <i>Workaround</i> There are two options: • Use another field delimiter that does not exist in the source data columns. • Use an Escape field delimiter character in the source data columns.
SAP Note 3153897 	Promotion Management: Data Services (DS) repository exported from source system is Inactive in the target system. <i>Workaround</i> Please manually set the "Allow user to retrieve password" right to Administrator and then promote it. The Password Property is promoted to the target. 1. Go to BOE ► <i>CMC</i> ► <i>Data Services</i> ►, right click the repository that you want to promote, and click <i>User Security</i>. 2. Choose <i>Administrator</i> and then click <i>Assign Security</i> on the top right. 3. Click the <i>Advanced</i> tab, then click the <i>Add/Remove Rights</i> link. 4. Expand <i>Application</i> on the left pane and select the Data Services repository. 5. Check the green option for <i>Allow user to retrieve repository password</i> and <i>Allow user to retrieve repository password that user owns</i> rights, and then click <i>Apply</i>. 6. Click <i>OK</i>. The window closes and the two user rights that you selected will be listed. 7. Promote the Data Services repository.
SAP Note 3134382 	Cannot read from an <code>.xlsb</code> file when job server is on UNIX - Data Services. <i>Workaround</i> There are two workarounds/solutions for this issue: Option 1: Change the file format from <code>.xlsb</code> to <code>.xlsx</code> through Microsoft Excel and then specify the new <code>.xlsx</code> file as the file location of the Excel adapter. Option 2: Change the file format from <code>.xlsb</code> to <code>.csv</code> and then create a File Format in the Designer.
SAP Note 3123445 	Data Services job fails with the error, "<ORA-12899: value too large for column "AL_STAGING_INFO"."NAME">". <i>Workaround</i> Try to re-register the repository with a shorter hostname or try to change the pCache directory to a shorter path.

Issue ID	Description
SAP Note 3120005 	Loading into SAP BW system fails. There is no workaround to this issue.
SAP Note 3036039 	SAP Data Service Management Console cannot launch if the version of the Apache Tomcat Introscope Wily server is earlier than 10.7. <i>Workaround</i> Upgrade the Apache Tomcat Introscope Wily server to version 10.7 and restart the Tomcat. Follow the instructions for upgrading in SAP Note 1438005 . See Also: SAP Note 3079887  - How to check if SAP Data Services/Information Steward is using Wily?
SAP Note 3038105 	Setting up secLDAP SSO with a trusted authentication when the CMS is on UNIX or Linux in Data Services. <i>Workaround</i> To fix the issue, do the following: 1. Stop Tomcat. 2. Go to <INSTALL_DIR>/sap_bobj/tomcat/bin/setenv.sh and append the following to the JAVA_OPTS: -Dbobj.trustedauth.home=<folder that contains TrustedPrincipal.conf> 3. Start Tomcat. 4. Go to the Data Services Management Console for SSO and launch it.
SAP Note 3017962 	Hive job fails with Hive temporary table with Avro formatted as the target table. <i>Workaround</i> Use a template table with another format (for example, text, Parquet, or ORC) instead of Avro as the target table.

Issue ID	Description
SAP Note 3006506 	"RFC Server is not available" error occurs when there are multiple CMS servers. The workaround is to ensure that the correct order is followed when stopping and starting the CMS and EIMAPS servers. <i>Workaround</i> Stop Sequence: 1. Stop the SIA Nodes on the two systems without EIMAPS and SAP Data Services service. 2. Stop the Main SIA Node with EIMAPS and SAP Data Services service on the main node. Start Sequence: 1. Start the Main SIA Node with EIMAPS and SAP Data Services service on the main node. 2. Make sure that the SIA Node with all components is in green health status and is running. 3. Make sure you can log in to the CMC and Data Services Management Console. 4. After the sanity check is done on the Main SIA Node system with EIMAPS, perform a start on the other two CMS systems. 5. Start the SIA Nodes on the two systems without EIMAPS and SAP Data Services service. 6. Make sure that the health status is green and it's running respectively for all systems. 7. You should see the RFC server running after following these steps.

Issue ID	Description
SAP Note 3005853 	After upgrading to SAP Data Services 4.2 SP14 Patch 5, the Data Services Management Console dashboard does not display correctly when you deploy to a separated Tomcat. <i>Workaround</i> If in bundled Tomcat, which is provided by BOE (IPS), there is another option called -Dfile.encoding=UTF-8. It is added automatically after installing Data Services. In a none BOE bundled Tomcat, please follow the steps below for a solution: 1. Stop Tomcat on which the Management Console is deployed. 2. If the 'Tomcat Configuration' tool is installed, add -Dfile.encoding=UTF-8 in the Java Options of the JVM tab. 3. If it's not installed, edit the <Tomcat>/bin/env.bat (Windows) by adding the following lines: set JAVA_OPTS=%JAVA_OPTS% -Dfile.encoding=UTF-8 4. Additionally, you can also add the following to <Tomcat>/bin/env.sh (Linux): JAVA_OPTS="\$JAVA_OPTS -Dfile.encoding=UTF-8" export JAVA_OPTS 5. Save the file. 6. Start Tomcat: Windows (startup.bat) or Linux (./startup.sh).
SAP Note 2998907 	Parsing error in Data Services while processing columns with multibyte descriptions using ASE repository. <i>Workaround</i> Do one of the following: • Remove column descriptions (and other descriptions) that cause the issue. • Switch the datastore to English, so that all descriptions are in English.
SAP Note 2991693 	ERROR: ORA-12899: value too large for column - Data Services <i>Workaround</i> Use varchar for ASCII characters and nvarchar for Unicode characters.
SAP Note 2973824 	Schedule a job in the SAP Data Services Management Console and you get the error "while trying to invoke the method java.lang.String.getBytes(java.lang.String) of a null object loaded from local variable 's'". <i>Workaround</i> The workaround is to source al_env.sh from the below location: 1. Stop EIMAPS. 2. Source \$LINK_DIR/bin/al_env.sh. 3. Start EIMAPS and everything should work correctly.

Issue ID	Description
SAP Note 2976928 	The file tf_cgc.exe fails to create a rule file for the Text Analysis transform. <i>Workaround</i> For Data Services version 4.2 SP12 and higher, do the following: 1. Create a folder. Make sure that there is no spaces in the folder name. For example, E:\Textanalysis. 2. Copy the files listed below that are in %LINK_DIR%\bin and copy them to the new folder (E:\Textanalysis). For Data Services version 4.2 SP12 and higher: • bosap_icudt53.dll • bosap_icuin53.dll • bosap_icuio53.dll • bosap_icule53.dll • bosap_iculx53.dll • bosap_icutu53.dll • bosap_icuuc53.dll • bosap_xerces-c_3_2.dll • cgc1.exe • ISYS11dfdll • ISYSpdf6dll • ISYSreaders.dll • ISYSreadershd.dll • tf_cgc.exe 3. Copy the Language folder from %LINK_DIR%\TextAnalysis to the new folder (E:\Textanalysis). 4. Create your custom rule file (test.rul). From the command line, run the following command to generate the respective .fsm file: E:\TextAnalysis>%CD%\tf_cgc.exe -i test.rul -o test.fsm
SAP Note 2936267 	Teradata 16.20 bulk loader crashes on Solaris. <i>Workaround</i> Disable the Teradata bulk load option.
SAP Note 2910274 	ACCESS_VIOLATION error occurs when Data Services reads an Excel File. <i>Workaround</i> Uninstall Microsoft Access Database Engine 2016 and use Microsoft Access Database Engine 2010. You can also refer to KBA 2713828.

Issue ID	Description
SAP Note 2902733 	Subject is garbled for some Japanese characters for the smtp_to function. <i>Workaround</i> Use English characters for the email subject in the smtp_to function.
SAP Note 2892344 	Data Services background job in SAP keeps running after the registered server program disconnects from the SAP gateway. <i>Workaround</i> The only known workaround at the moment is to modify the ABAP code prior to invoking CALL 'RFCControl' with the understanding that the modifications will not be officially supported by SAP. Long-term solution will be updating the ABAP code to make changes to the options used in CALL 'RFCControl'.
SAP Note 2872845 	Named pipe error occurs: <The pipe has been ended.>. <i>Workaround</i> In the Data Services Dataflow Properties, change the Cache type option from Pageable to In-Memory.
SAP Note 2856541 	Error displays when reading persistent cache with lob - SAP Data Services. <i>Workaround</i> Edit the datastore, enable Force UTF-16 Codepage, and run the job. The job finishes successfully.
SAP Note 2838796 	Data Services now uses ECDSA hostkeys by default instead of RSA hostkeys. <i>Workaround</i> The workaround is to generate and use a ECDSA hostkey. To obtain an ECDSA hostkey fingerprint: 1. Logon to the file location object's host system that installs the Linux OS. 2. Execute <sudo ssh-keygen -lf /etc/ssh/ssh_host_ecdsa_key.pub>.
SAP Note 2800416 	Incorrect job fail reported when using Contained Database User method.
SAP Note 2795508 	Reading data from more than one Excel file causes an error to occur when running with Windows 2016 job server.

Issue ID	Description
SAP Note 2789806 	Reading a large flat file may cause an access violation error or unusual results. <i>Workaround</i> Use a single thread to read the file. The instruction to change the single thread are as follows: 1. Logon to the Designer. 2. Go to Tools > Options > Job Server > General. 3. Set the following attribute values: • <i>Section</i>: al_engine • <i>Key</i>: FILE_NTHREAD • <i>Values</i>: 0 If this fixes the issue, do the following: 1. Right-click on the data flow and click <i>Properties</i>. 2. Change the value of <i>Degree of parallelism</i> to 1.
SAP Note 2784089 	MySQL SSL database doesn't work on Solaris if the database name contain an underscore "_". <i>Workaround</i> Stop using "_" in database names.
SAP Note 2776435 	DSConnectionManager hangs when adding Altiscale Hive driver. <i>Workaround</i> Wait several minutes, then press CTRL + C. Run DSConnectionManager again and if the Hive driver has already been added, you can successfully run an Altiscale Hive job with this driver.
SAP Note 2775794 	Altiscale WebHDFS delegation token get command says the token is expired before the actual expiration date. <i>Workaround</i> 1. Generate a new SWEBHDFS delegation token with the following command: <pre>hadoop dtutil get swebhdfs://httpfs-sap2.s3s.altiscale.com:14000/-renewer "" -format java -alias httpfs-sap2.s3s.altiscale.com token</pre> 2. Copy the delegation token string from command <code>hadoop dtutil print token</code>. 3. Paste the new delegation token string to the password input box of Altiscale Hadoop file location object and run the job again.

Issue ID	Description
SAP Note 2774897 	Using varchar converts to integer and can cause a conversion error and null result. <i>Workaround</i> Change the engine locale to UTF-8.
SAP Note 2741139 	Before upgrading to Data Services, if you change the location of DS_COMMON_DIR and add a new job server, the newly added job server will disappear after the upgrade. <i>Workaround</i> Add the new job server information in the Data Services Server Manager after the upgrade installation has been performed.
SAP Note 2690490 	DS 4.2.11 USA Regulatory Address Cleanse possible performance degradation.

Issue ID	Description
SAP Note 2685857 	Unable to start BOEExcelAdapter after upgrade. <i>Workaround</i> Perform the following steps to update a classpath manually: - Go to <code><DS_COMMON_DIR>/dataservices/adapters/install</code> directory and delete <code>msexceladapter.xml</code>. - Go to <code><link_dir></code> and run the following command (you will need to replace <code><link_dir></code> with the correct path): <code><link_dir>/ext/jre/bin/java -classpath <link_dir>/lib/acta_adapter_sdk.jar:<link_dir>/lib/acta_tool.jar:<link_dir>/lib/log4j-1.2.3.jar:<link_dir>/ext/lib/jaxp.jar:<link_dir>/ext/lib/xercesImpl.jar:<link_dir>/ext/lib/xml-apis.jar:<link_dir>/ext/lib/xalan.jar com.acta.adapter.sdkutil.UpdateAdapterVersion <link_dir>/dataservices<link_dir>/dataservices "Microsoft Excel Adapter" >> <link_dir>/adapters/upgrade/upgrade_trace.txt 2>&1</code> - Open <code>msexceladapter.xml</code> and check the classpath for the <code>.jar</code> files, which includes poi latest 3.17 <code>.jar</code> files. <code><adapterJarFile DisplayName = "Adapter's Jar Files:" Description = "Adapter's directories and zip/jar files separated by semicolons. Show the location relative to the LINK_DIR." isArray = "true" Description_MsgID = "3020234" isHidden = "true" DisplayName_MsgID = "3020233" Order = "12">/lib/acta_adapter_sdk.jar;/lib/acta_broker_client.jar;/lib/acta_tool.jar;/ext/lib/bcm.jar;/ext/lib/cryptojFIPS.jar;/ext/lib/ssljFIPS.jar;/ext/lib/xercesImpl.jar;/ext/lib/xml-apis.jar;/ext/lib/log4j-1.2.15.jar;/lib/msexceladapter.jar;/ext/lib/dom4j-1.6.1.jar;/ext/lib/xmlbeans-2.3.0.jar;/ext/lib/xercesImpl.jar;/ext/lib/xml-apis.jar;/ext/lib/poi-3.17.jar;/ext/lib/poi-ooxml-3.17.jar;/ext/lib/poi-ooxml-schemas-3.17.jar;</adapterJarFile></code> - Go to the Management Console and edit the adapter to include the following: <code><link_dir>/ext/lib/poi-3.17.jar;<link_dir>/ext/lib/poi-ooxml-3.17.jar;<link_dir>/ext/lib/poi-ooxml-schemas-3.17.jar;</code> - Click <i>Apply</i>. - Restart the adapter.
SAP Note 2640757 	When compressing a file with a Unicode file name, you may encounter an open file error. <i>Workaround</i> Do not use a Unicode file name.
SAP Note 2626174 	Cannot import complex data types into Hive.

Issue ID	Description
SAP Note 2576503 	Multi-table join pushdown for Hive Avro tables may result in error. Pushdown for multiple join to Avro tables might cause the following error: task:java.lang.RuntimeException: java.lang.RuntimeException: java.io.IOException: java.io.IOException: Not a data file. <i>Workaround</i> Convert the files to text format and run the join on the tables.
SAP Note 2559148 	Data Services job fails after making a certain number of Web Services SOAP calls. The following error message appears in the <code>Axis2_log.txt</code> file: <pre>[Fri Oct 6 12:02:21 2017] [error] http_client.c(246) Error creating a socket. Most probably error returned by OS [Fri Oct 6 12:02:21 2017] [error] http_client.c(247) Socket Creation failed. [Fri Oct 6 12:02:21 2017] [error] http_client.c(552) client data stream null or socket error for host <hostname> and <port number> port [Fri Oct 6 12:02:21 2017] [error] http_client.c(556) A read attempt(HTTP) for the reply without sending the request [Fri Oct 6 12:02:21 2017] [error] http_sender.c(1381) status_code < 0 [Fri Oct 6 12:02:21 2017] [error] engine.c(179) Trans- port sender invoke failed [Fri Oct 6 12:03:21 2017] [info] [rampart][ram- part_mod] rampart_mod shutdown</pre> <i>Workaround</i> As UNIX root user, configure the system resources as follows: - Set the hard limit with command <code>ulimit -Hn <max number that can be allocated></code>. - Set the soft limit with command <code>ulimit -n <max number that can be allocated></code>.
SAP Note 2542431 	Data Services functions update for SAP BW 7.52. Function module call failed: SAP Data Service can't recognize the structure from function module in SAP BW 7.52. <i>Workaround</i> Refer to the SAP Note for the solution.

Issue ID	Description
SAP Note 2495708 	Continuous workflow with Table_Comparison crashes - SAP DataHANA 2.0 DSN datastore, when used with Data_Transfer transform as auto-automatic, gives the following error in versions of Data Services that do not support multi-DB HANA: SQL submitted to ODBC data source <> resulted in error <[SAP AG][LI-BODBC HDB DLL][HDBODBC] General error;362 invalid schema name: DP1: line 1 col 21 (at pos 20)>. The SQL submitted is <CREATE COLUMN TABLE "DP1"."DT__348_441_1_1" ("DI_ROW_ID" INTEGER)> <i>Workaround</i> 1. In the datastore, click Advance and add a new alias. 2. Create a new alias for the Database name of the HANA server to point to the HANA owner name. 3. Alternatively, you can use File or Table as the Data_Transfer transfer type.
SAP Note 2480099 	Failed to load jvm.dll when you install Data Services client on Windows 2010 OS. The Data Services installation throws a failed to load jvm.dll error when installed on the Windows 2010 client. <i>Workaround</i> This is a known issue. The install of Microsoft Visual C++ 2010 Redistributable Package is required. Refer to the Data Services 4.2 Product Availability Matrix (PAM) for more information.
SAP Note 2467458 	Scheduled instances run one hour early after Daylight Saving Time switch-over. <i>Workaround:</i> According to <i>Business Intelligence platform Installation Guide for Unix</i>, configuring the TZ environment variable is mandatory for UNIX platforms. Refer to SAP Note 1404484  for configuration details. This brings the inconsistent time/timezone display issue in CMC, which can be resolved by adding "-Duser.timezone=<desiredtimezone>" option to Tomcat. Refer to SAP Note 2442626 . Similarly, the Data Services BOE schedule time shifting after DST change issue can be resolved by adding "-Duser.timezone=<desiredtimezone>" option to the command line parameters of EIMAdaptingProcessingServer in CMC. Finally, there is a known issue for any BOE daily recurring schedules that fall in the DST changing period, e.g. 2017-03-26 01:59:59 CET to 2017-03-26 03:00:00 CEST. Refer to SAP Note 1986781  for more information.

Issue ID	Description
SAP Note 2461394 	Jobs formerly designed in the "Chinese" language fail with error. <i>Workaround</i> Jobs formerly designed in the "Chinese" language with earlier versions of Data Services must be re-designed using either "Simplified Chinese" or "Traditional Chinese".
SAP Note 2451333 	Special characters in Google BigQuery (GBQ) data are not processed correctly in SAP Data Services, whether using the SQL transform for the GBQ datastore or reading from GBQ using Google Cloud Storage (GCS) files. Data Services does not properly process special characters read from Google BigQuery by either the SQL transform (for example, a new line character would be read as "\n") or by export to Google Cloud Storage (for example, a quote would be read as triple-quote). <i>Workaround:</i> Post process fields with special characters using the ATL functions in Data Services or by using a third-party tool.
SAP Note 2441584 	SAP Data Services jobs fail when extracting from SAP S/4HANA 1610 sources. - A job extracting from SAP S/4HANA 1610 fails with the following error in SAP Data Services: (14.2) <Date><Time>(R) (0864:3163191040) R3C-151001: Data flow test_job_3 Reader Query Error calling RFC function to get table data: <RFC_ABAP_RUN-TIME_FAILURE>. - On SAP Application server, the following short dump occurs: The termination occurred in ABAP program or include "/SAPDS/SAPLRS_BASIS", in "/SAPDS/RFC_STREAM_READ_TABLE". The main program was "SAPMSSY1". - The same job runs fine in SAP S/4HANA 1510 with the same functions source code. - Short dump break references CALL_RFC_TABLE_MULTIREF. - Job fails after first array fetch. If array fetch is set to 1000, then it will read 1000 records and then fail. - Job will run if the number of records in the source is less than the array fetch value. <i>Workaround:</i> Upgrade to SAP kernel 7.49 Patch Level 119 or later.

Issue ID	Description
SAP Note 2392377 	When deploying Data Services Management Console to weblogic11 by wdeploy, the job fails with the following error message: "failed: java.lang.NoSuchMethodError: javax.xml.namespace.QName.<init>(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)V". <i>Workaround</i> - Modify the file (<BOE_INSTALL>/enterprise_x41/wdeploy/template/weblogic.xml) using the following content: <pre> <!DOCTYPE weblogic-web-app PUBLIC "-//BEA Systems, Inc.//DTD Web Application 8.1//EN" "http://www.bea.com/servers/wls810/dtd/ weblogic810-web-jar.dtd" > <weblogic-web-app> <jsp-descriptor> <jsp-param> <param-name> pageCheckSeconds</param-name > <param-value> -1</ param-value> </jsp-param> </jsp-descriptor> <container-descriptor> <prefer-application-packages> <package-name> com.rsa.*</package-name > </prefer-application-packages> <servlet-reload-check-secs> -1</ servlet- reload-check-secs> </container-descriptor> </weblogic-web-app> </pre> - Re-run the wdeploy command.
SAP Note 2392168 	Generate default DDL option for Data_Transfer transform does not support creation of multi-byte varchar column. <i>Workaround</i> To create a Data_Transfer table with multi-byte column support, do one of the following: - Do not use the Generate default DDL option from the Designer. The Data Services backend engine is able to create the varchar columns to support multi-byte data correctly. - To use Generate default DDL option, enable the option and manually modify the varchar columns to accommodate multi-byte data.

Issue ID	Description
SAP Note 2383950 	In Data Services Designer, when the user attempts to switch to another repository that is associated with a different job server, the following error is displayed: "NOTIFICATION SERVER ERROR : Problem with call (BODI-1241030)". <i>Workaround</i> Log out of repository 1 from Designer. Log into repository 2 from Designer.
SAP Note 2383409 	Under certain conditions, the first row is missed when uploading data from a source table to a target table using auto-correct load. Conditions: • The source table has key column that starts with zero. • The target table has a "Key" and "Identity" column. • The "Identity" column has "Seed value is 0". • Auto-correct load has the following parameter settings: • Identity Insert = OFF • Use input keys = Yes • Allow merge or upsert = Yes <i>Workaround</i> Use Optimized SQL generated by Data Services and run the procedure directly in MS SQL Server Studio.
SAP Note 2377030 	The URL of the Data Services Management Console logon page has been change to '/<production_name>' (eg. /DataServices) instead of '/<production_name>/launch/logon.do'. As a result, any existing bookmark that contains '*.do' can no longer be accessed. <i>Workaround</i> Update any bookmark that contains '*.do' for SAP Data Services Management Console.
SAP Note 2367862 	Data Services client installation on Windows 2010. <i>Workaround</i> Before installing the Data Services Client, install the Microsoft Visual C++ 2010 Redistributable Package.

Issue ID	Description
SAP Note 2367036 	When running a job with both a FROM and WHERE clause in the query, the job may fail with the following error: "(14.2) 08-12-16 16:14:18 (E) (8992:5980) RUN-050802: Data flow DF_ANN_O1_ORDER_DW_PREP_ALL Transform Query-Mapping1 Cannot convert data <> into type . Context: Column". <i>Workaround</i> Split the query into two, one with the FROM clause and the other with the WHERE clause.
SAP Note 2358567 	Trying to use file location object features in a continuous work flow causes permission issues, including the lack of permission to delete a file after usage. Jobs also may not finish uploading successfully. <i>Workaround</i> The different features offered through the file location object are not supported in a continuous work flow. They should be used only outside the continuous work flow context, as in a while loop or before entering a continuous work flow or after its executions. The following file location object features are not supported in a continuous work flow: • FTP • SFTP • SCP • LOCAL • Google Cloud Storage • Azure Cloud Storage • Amazon S3 Cloud Storage
SAP Note 2233748 	Error produced when trying to View Data of XML Source with Validation Enabled Job fails and Error Produced when trying to view XML Source with Enabled Validation checked in DS 4.2 SP5 Patch 1. Error: XML Parser Failed: See previously displayed error message

Issue ID	Description
SAP Note 2341441 	Scanning the Linux host where the Data Services server is installed, an SSL vulnerability for RC4 cipher is incorrectly reported on the job server port. <i>Workaround</i> Use the SSL_Cipher_List flag in DSConfig.txt to control the cipher list. In the SSL section of DSConfig.txt, set SSL_Cipher_List. SSL_Cipher_List= empty, which means that the list will contain all the ciphers supported by sslv3 and sslv2, so if you want to restrict the list to not include RC4, set the value for the flag in DSConfig.txt. SSL_Cipher_List= ECDHE-RSA-AES256-GCM-SHA384:ECDHE-ECDSA-AES256-GCM-SHA384:ECDHE-RSA-AES256-SHA384:ECDHE-ECDSA-AES256-SHA384:ECDHE-RSA-AES256-SHA:ECDHE-ECDSA-AES256-SHA:SRP-DSS-AES-256-CBC-SHA:SRP-RSA-AES-256-CBC-SHA:SRP-AES-256-CBC-SHA:DHE-DSS-AES256-GCM-SHA384:DHE-RSA-AES256-GCM-SHA384:DHE-RSA-AES256-SHA256:DHE-DSS-AES256-SHA256:DHE-RSA-AES256-SHA:DHE-DSS-AES256-SHA:DHE-RSA-CAMELLIA256-SHA:DHE-DSS-CAMELLIA256-SHA:ECDH-RSA-AES256-GCM-SHA384:ECDH-ECDSA-AES256-GCM-SHA384:ECDH-RSA-AES256-SHA384:ECDH-ECDSA-AES256-SHA384:ECDH-RSA-AES256-SHA:ECDH-ECDSA-AES256-SHA:AES256-GCM-SHA384:AES256-SHA256:AES256-SHA:CAMELLIA256-SHA:PSK-AES256-CBC-SHA:ECDHE-RSA-AES128-GCM-SHA256:ECDHE-ECDSA-AES128-GCM-SHA256:ECDHE-RSA-AES128-SHA256:ECDHE-ECDSA-AES128-SHA256:ECDHE-RSA-AES128-SHA:ECDHE-ECDSA-AES128-SHA:SRP-DSS-AES-128-CBC-SHA:SRP-RSA-AES-128-CBC-SHA:SRP-AES-128-CBC-SHA:DHE-DSS-AES128-GCM-SHA256:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128-SHA256:DHE-DSS-AES128-SHA256:DHE-RSA-AES128-SHA:DHE-DSS-AES128-SHA:DHE-RSA-SEED-SHA:DHE-DSS-SEED-SHA:DHE-RSA-CAMELLIA128-SHA:DHE-DSS-CAMELLIA128-SHA:ECDH-RSA-AES128-GCM-SHA256:ECDH-ECDSA-AES128-GCM-SHA256:ECDH-RSA-AES128-SHA256:ECDH-ECDSA-AES128-SHA256:ECDH-RSA-AES128-SHA:ECDH-ECDSA-AES128-SHA:AES128-GCM-SHA256:AES128-SHA256:AES128-SHA:SEED-SHA:CAMELLIA128-SHA:PSK-AES128-CBC-SHA:ECDHE-RSA-DES-CBC3-SHA:ECDHE-ECDSA-DES-CBC3-SHA:SRP-DSS-3DES-EDE-CBC-SHA:SRP-RSA-3DES-EDE-CBC-SHA:SRP-3DES-EDE-CBC-SHA:EDH-RSA-DES-CBC3-SHA:EDH-DSS-DES-CBC3-SHA:ECDH-RSA-DES-CBC3-SHA:ECDH-ECDSA-DES-CBC3-SHA:DES-CBC3-SHA:PSK-3DES-EDE-CBC-SHA:EDH-RSA-DES-CBC-SHA:EDH-DSS-DES-CBC-SHA:DES-CBC-SHA The above list can be generated using following steps:

Issue ID	Description
	1. In the command prompt, execute openssl ciphers. Openssl ciphers gives a list of all supported ciphers 2. Exclude the ciphers with RC4. 3. Add the new list to the SSL_Cipher_List in DSConfig.txt file. 4. Restart the job server.
SAP Note 2341002 	If the BOE is a cluster, the following error may be raised when getting the content of license measurement. "Could not open the file <BOE_Install>\FileStore\Input\...\<Metric_xxx>.xml." <i>Workaround</i> Configure the FRS as a shared folder that can be accessed by all the nodes in the BOE cluster. This is a standard configuration. For detailed steps, see Configuring the File Repository Server (FRS) .
SAP Note 2339392 	When reading multiple Excel files with both xls and xlsx extensions, a Get Access Violation error occurs. <i>Workaround</i> To resolve the issue, install the latest Microsoft Access Database Engine 2010 64 bit.
SAP Note 2337705 	Referencing a query's column in custom SQL of the search_replace() function is not supported in Data Services, and results in the following error message: "DBS-070401: Session <jobname> Data flow <dataflowname> Transform <queryname> ODBC data source <datasourcename> error message for operation <OdbcDB::describeQuery>: <[DatabaseType][Database Driver][Database] Object 'InputSchemaFieldName' does not exist.>. <i>Workaround</i> 1. Create a stage table in the database, load data to this table first, and then reference a column of this table. 2. Use a custom function to excute the SQL.
SAP Note 2320808 	With Sybase IQ 16 SP02 and above, converting datetime to varchar is hardcoded and cannot truncate, which cause an error in Data Services. <i>Workaround</i> Set the option PUBLIC.conversion_error = OFF on the Sybase server, so that the job does not fail in Data Services. If the CONVERSION_ERROR option is OFF, SAP IQ inserts a NULL value when possible. If CONVERSION_ERROR is ON, SAP IQ logs a conversion error.

Issue ID	Description
SAP Note 2315420 	A SAP Data Services job consumes all available memory while building the nested schema if the xsd/xml is large and involves a circular level more than 1. <i>Workaround</i> Try to reduce the size of the xsd by removing unneeded elements as much as possible.
SAP Note 2315419 	SAP Data Services does not support attachments (for example, .xml) as part SOAP response from either native Web services or Web services adaptor.
SAP Note 2315264 	For a Data Services REST Web Service datastore, if the WADL contains a single resource with multiple methods that all have the same resource path name, functions imported into Data Services are overwritten due to having the same name. <i>Workaround</i> Update the WADL file to give each method a unique resource path name.
SAP Note 2312361 	Update the WADL fileA continuous work flow stops if it has a stop function that results in a zero or a negative integer value. <i>Workaround</i> When you use a stop function in a continuous work flow, make sure you implement a counter equal to the number of iterations you want. After each iteration the counter should decrement by one until it reaches zero after the last iteration.
SAP Note 2311935 	On Solaris, a Data Services job crashes when a source or target is from HP Vertica and the repository database is SAP HANA. <i>Workaround</i> Use different repository databases to execute the jobs on Solaris with HP Vertica as a source or target.
SAP Note 2311259 	The structure of the RFC function is not imported correctly to Data Services. The function returns LINE instead of the proper structure.
SAP Note 2304150 	The software issues an HTTP Status 500 when user creates, saves, and then edits a new Sybase ASE repository without a password in the Central Management Console (CMC). Restart your browser and log back in to CMC.

Issue ID	Description
SAP Note 2298910 	A replication server job with a try catch block does not generate appropriate catch errors. <i>Workaround</i> Avoid using try catch blocks around the continuous workflow
SAP Note 2273511 	In the Text Data Processing Entity_Extraction transform, when you select the language as Auto, the Filter by Entity option is empty. <i>Workaround</i> The behavior for the Auto option is correct. The Filter by Entity option should be empty. Language#The default is 'Auto', directing the transform to attempt to identify the language. You may select another language from a list. By selecting #Auto#, a category filter list will not be available by default.
SAP Note 2244473 	Successful Data Services install with an error statement in install log file: "ParserConfigurationException was thrown. The feature 'http://xml.org/sax/features/namespace-prefixes' is probably not supported by your XML processor."
SAP Note 2243880 	Trying to load an MS SQL table that contains spatial data directly to SAP HANA fails. Only the first row is transferred correctly, and the rest of the rows have empty data for the spatial columns until the next fetch batch occurs. It also fails with a bad index during the load. <i>Workaround</i> Use the feature with a Query transform, which works correctly and yields the expected results.
SAP Note 2240264 	When loading to a HIVE template table from another HIVE source and the data flow is optimized for full pushdown that is insert-select, the monitor log count shows zero as rows loaded. <i>Workaround</i> Use the count(*) from the table before and after load to get the number of rows loaded
SAP Note 2223380 	HANA Calc view gives an untranslatable error when loading target table gives a primary violation error. <i>Workaround</i> When you get the error, either select delete table before loading option in target table properties, or delete the table manually and then try to load again.

Issue ID	Description
SAP Note 2162879 	A Data Services job fails when reading from the same xlsx file from parallel data flows. <i>Workaround</i> Provide read and write access to the directory in which the xlsx file is located for the user 'IUSR' . After providing access, restart the Data Services Job Service.
SAP Note 2161514 	When reading from MongoDB, and you have a Where condition in a Query or XML_Map transform that contains an empty string or null, incorrect results are produced. <i>Workaround</i> Use a Query criteria parameter in the MongoDB source instead of a Where condition.
SAP Note 2160793 	A delta extraction job for a cluster table completes without error, but results in no data.
SAP Note 2160763 	Bulk load with import fails to work with a DSN-less connection on DB2. <i>Workaround</i> Use a DSN connection for bulk load.
SAP Note 2160242 	Cannot delete an invalid extract request subscription from an SLT system.
SAP Note 2160228 	Delta extraction not working: - Extracting change data from an SLT source results in an integrity constraint violation. - Delta extraction from an SLT source results in an integrity constraint violation. <i>Workaround</i> To avoid the problem, use auto-correct load.

Issue ID	Description
SAP Note 2158337 	The following error appears when user attempts to execute a job through SAP Data Services on HDP 2.2 Hadoop cluster: "<Failed to initialize HDFS. Check HDFS environment setup>". <i>Workaround</i> A shared library is missing from the <code>/usr/lib64</code> directory. Make a copy manually to that location from <code>/usr/lib</code> and create a symbolic link to the file in <code>/usr/lib64</code>. To work around this issue, before re-running the job, enter the following on the job server machine where the master node of the Hadoop cluster is running: 1. <code>cd /usr/lib</code> 2. <code>cp libhdfs.so.0.0.0 /usr/lib64</code> 3. <code>cd /usr/lib64</code> 4. <code>ln -s libhdfs.so.0.0.0 libhdfs.so</code>

6.2.2 Issues fixed in SAP Data Services 4.3 SP2

Issues fixed in the Data Services 4.3 SP2 release are listed by an internal issue identification tracking number.

Reference the issue ID when you search for the issue on our knowledge base or when communicating with SAP Customer Support.

Issue ID	Description
SAP Note 3302112 	Impact of Data Preview SQL queries for views on Snowflake database. This issue has been fixed in this release.
SAP Note 3302108 	Metadata Explorer - Profiling Error (Big Table). This issue has been fixed in this release.
SAP Note 3300834 	Jobs sometimes fail when they consume data from Google BigQuery (GBQ) through a generic ODBC connection. This issue has been fixed in this release.
SAP Note 3300736 	Executing job reading from a SOAP web service fails. This issue has been fixed in this release.
SAP Note 3300667 	SAP DI Cloud cannot query data from Amazon Redshift. This issue has been fixed in this release.
SAP Note 3300643 	Increase machine name column in al_machine_info table for SQLServer and MySQL. This issue has been fixed in this release.
SAP Note 3300612 	XML_Map implicit conversion issue. This issue has been fixed in this release.
SAP Note 3294883 	SuiteLink match to input address with multiple directionals causes incorrect output - USA Regulatory Address Cleanse (URAC). This issue has been fixed in this release.
SAP Note 3294614 	Punctuation lost during assignment - USA Regulatory Address Cleanse (URAC). This issue has been fixed in this release.

Issue ID	Description
SAP Note 3293072 	The key_generation function stops a data flow from being checked into the central repository or from being exported. This issue has been fixed in this release.
SAP Note 3289083 	70% CPU consumption with 'select top 1 1' - SAP Data Services. This issue has been fixed in this release.
SAP Note 3289063 	Repository Manager (repoman) error: "The local repository upgrade was canceled". This issue has been fixed in this release.
SAP Note 3288174 	Random engine crash when executing a high number of parallel custom and SQL functions. This issue has been fixed in this release.
SAP Note 3284906 	When uploading data to Azure Data Lake you see the HTTP client error, "<56>:<Failure when receiving data from the peer>". This issue has been fixed in this release.
SAP Note 3283952 	Unexpected files generated under the root path of the drive where SAP Data Services is installed. This issue has been fixed in this release.
SAP Note 3281604 	SAP Data Services Job Scheduler sometimes schedules two unrelated jobs with the same AT_ID. This issue has been fixed in this release.
SAP Note 3281089 	SAP Data Services sends email without body text. This issue has been fixed in this release.
SAP Note 3279894 	SAP Data Services job execution monitor log shows the record count as -1 - SAP Data Services 4.x. This issue has been fixed in this release.
SAP Note 3279542 	Websocket RFC is not working: it hangs when parallel workflows are used. This issue has been fixed in this release.
SAP Note 3279513 	SAP table reader error in srcDB_table_read using filters with the IN operator and global variables in the websocket RFC. This issue has been fixed in this release.
SAP Note 3274792 	Single repository batch job history shows all jobs. This issue has been fixed in this release.
SAP Note 3001337 	Output different in fringe case where the same record was processed twice - USA Regulatory Address Cleanse (URAC). This issue has been fixed in this release.

6.3 SAP Data Services 4.3 SP01

6.3.1 Known issues in SAP Data Services 4.3 SP1

Known issues that exist in the Data Services 4.3 SP1 release 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. Reference the issue ID when you search 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.

Issue ID	Description
SAP Note 3274231 	Some strings in the SAP Data Services user interface appear in English only.
SAP Note 3197542 	Having the DOP set to > 1 in the Global Address Cleanse (GAC) transform causes an unknown transform error to occur while processing a job - Linux only. <i>Workaround</i> Process Data Services Global Address Cleanse jobs with a setting of DOP = 1.
SAP Note 3194591 	Oracle repository in Data Services could not be registered successfully due to java.security.InvalidAlgorithmParameterException when using the PKCS12 type. <i>Workaround</i> Convert PKCS12(ewallet.p12) to the JKS type and use the JKS type as a truststore or keystore.
SAP Note 3171073 	Informix bulk loader limitation with field delimiter. <i>Workaround</i> There are two options: • Use another field delimiter that does not exist in the source data columns. • Use an Escape field delimiter character in the source data columns.

Issue ID	Description
SAP Note 3153897 	Promotion Management: Data Services (DS) repository exported from source system is Inactive in the target system. <i>Workaround</i> Please manually set the "Allow user to retrieve password" right to Administrator and then promote it. The Password Property is promoted to the target. 1. Go to BOE ► <i>CMC</i> ► <i>Data Services</i> ►, right click the repository that you want to promote, and click <i>User Security</i>. 2. Choose <i>Administrator</i> and then click <i>Assign Security</i> on the top right. 3. Click the <i>Advanced</i> tab, then click the <i>Add/Remove Rights</i> link. 4. Expand <i>Application</i> on the left pane and select the Data Services repository. 5. Check the green option for <i>Allow user to retrieve repository password</i> and <i>Allow user to retrieve repository password that user owns</i> rights, and then click <i>Apply</i>. 6. Click <i>OK</i>. The window closes and the two user rights that you selected will be listed. 7. Promote the Data Services repository.
SAP Note 3134382 	Cannot read from an <code>.xlsb</code> file when job server is on UNIX - Data Services. <i>Workaround</i> There are two workarounds/solutions for this issue: Option 1: Change the file format from <code>.xlsb</code> to <code>.xlsx</code> through Microsoft Excel and then specify the new <code>.xlsx</code> file as the file location of the Excel adapter. Option 2: Change the file format from <code>.xlsb</code> to <code>.csv</code> and then create a File Format in the Designer.
SAP Note 3123445 	Data Services job fails with the error, "<ORA-12899: value too large for column 'AL_STAGING_INFO'. 'NAME'>". <i>Workaround</i> Try to re-register the repository with a shorter hostname or try to change the pCache directory to a shorter path.
SAP Note 3120005 	Loading into SAP BW system fails. There is no workaround to this issue.

Issue ID	Description
SAP Note 3036039 	SAP Data Service Management Console cannot launch if the version of the Apache Tomcat Introscope Wily server is earlier than 10.7. <i>Workaround</i> Upgrade the Apache Tomcat Introscope Wily server to version 10.7 and restart the Tomcat. Follow the instructions for upgrading in SAP Note 1438005 . See Also: SAP Note 3079887  - How to check if SAP Data Services/Information Steward is using Wily?
SAP Note 3038105 	Setting up secLDAP SSO with a trusted authentication when the CMS is on UNIX or Linux in Data Services. <i>Workaround</i> To fix the issue, do the following: 1. Stop Tomcat. 2. Go to <INSTALL_DIR>/sap_bobj/tomcat/bin/setenv.sh and append the following to the JAVA_OPTS: -Dbobj.trustedauth.home=<folder that contains TrustedPrincipal.conf> 3. Start Tomcat. 4. Go to the Data Services Management Console for SSO and launch it.
SAP Note 3017962 	Hive job fails with Hive temporary table with Avro formatted as the target table. <i>Workaround</i> Use a template table with another format (for example, text, Parquet, or ORC) instead of Avro as the target table.

Issue ID	Description
SAP Note 3006506 	"RFC Server is not available" error occurs when there are multiple CMS servers. The workaround is to ensure that the correct order is followed when stopping and starting the CMS and EIMAPS servers. <i>Workaround</i> Stop Sequence: 1. Stop the SIA Nodes on the two systems without EIMAPS and SAP Data Services service. 2. Stop the Main SIA Node with EIMAPS and SAP Data Services service on the main node. Start Sequence: 1. Start the Main SIA Node with EIMAPS and SAP Data Services service on the main node. 2. Make sure that the SIA Node with all components is in green health status and is running. 3. Make sure you can log in to the CMC and Data Services Management Console. 4. After the sanity check is done on the Main SIA Node system with EIMAPS, perform a start on the other two CMS systems. 5. Start the SIA Nodes on the two systems without EIMAPS and SAP Data Services service. 6. Make sure that the health status is green and it's running respectively for all systems. 7. You should see the RFC server running after following these steps.

Issue ID	Description
SAP Note 3005853 	- After upgrading to SAP Data Services 4.2 SP14 Patch 5, the Data Services Management Console dashboard does not display correctly when you deploy to a separated Tomcat. <i>Workaround</i> If in bundled Tomcat, which is provided by BOE (IPS), there is another option called -Dfile.encoding=UTF-8. It is added automatically after installing Data Services. In a none BOE bundled Tomcat, please follow the steps below for a solution: 1. Stop Tomcat on which the Management Console is deployed. 2. If the 'Tomcat Configuration' tool is installed, add -Dfile.encoding=UTF-8 in the Java Options of the JVM tab. 3. If it's not installed, edit the <Tomcat>/bin/env.bat (Windows) by adding the following lines: set JAVA_OPTS=%JAVA_OPTS% -Dfile.encoding=UTF-8 4. Additionally, you can also add the following to <Tomcat>/bin/env.sh (Linux): 5. JAVA_OPTS="\$JAVA_OPTS -Dfile.encoding=UTF-8" export JAVA_OPTS 6. Save the file. 7. Start Tomcat: Windows (startup.bat) or Linux (./startup.sh).
SAP Note 3001337 	Output different in fringe case where the same record was processed twice - USA Regulatory Address Cleanse (URAC). There is not a fix or workaround for this issue.
SAP Note 2998907 	Parsing error in Data Services while processing columns with multibyte descriptions using ASE repository. <i>Workaround</i> Do one of the following: • Remove column descriptions (and other descriptions) that cause the issue. • Switch the datastore to English, so that all descriptions are in English.
SAP Note 2991693 	ERROR: ORA-12899: value too large for column - Data Services <i>Workaround</i> Use varchar for ASCII characters and nvarchar for Unicode characters.

Issue ID	Description
SAP Note 2973824 	Schedule a job in the SAP Data Services Management Console and you get the error "while trying to invoke the method java.lang.String.getBytes(java.lang.String) of a null object loaded from local variable 's'". <i>Workaround</i> The workaround is to source <code>al_env.sh</code> from the below location: 1. Stop EIMAPS. 2. Source <code>\$LINK_DIR/bin/al_env.sh</code>. 3. Start EIMAPS and everything should work correctly.
SAP Note 2976928 	The file <code>tf_cgc.exe</code> fails to create a rule file for the Text Analysis transform. <i>Workaround</i> For Data Services version 4.2 SP12 and higher, do the following: 1. Create a folder. Make sure that there is no spaces in the folder name. For example, <code>E:\Textanalysis</code>. 2. Copy the files listed below that are in <code>%LINK_DIR%\bin</code> and copy them to the new folder (<code>E:\Textanalysis</code>). For Data Services version 4.2 SP12 and higher: • <code>bosap_icudt53.dll</code> • <code>bosap_icuin53.dll</code> • <code>bosap_icuio53.dll</code> • <code>bosap_icule53.dll</code> • <code>bosap_iculx53.dll</code> • <code>bosap_icutu53.dll</code> • <code>bosap_icuuc53.dll</code> • <code>bosap_xerces-c_3_2.dll</code> • <code>cgc1.exe</code> • <code>ISYS11dfdll</code> • <code>ISYSpdf6dll</code> • <code>ISYSreaders.dll</code> • <code>ISYSreadershd.dll</code> • <code>tf_cgc.exe</code> 3. Copy the Language folder from <code>%LINK_DIR%\TextAnalysis</code> to the new folder (<code>E:\Textanalysis</code>). 4. Create your custom rule file (<code>test.rul</code>). From the command line, run the following command to generate the respective <code>.fsm</code> file: <pre>E:\TextAnalysis>%CD%\tf_cgc.exe -i test.rul -o test.fsm</pre>
SAP Note 2936267 	Teradata 16.20 bulk loader crashes on Solaris. <i>Workaround</i> Disable the Teradata bulk load option.

Issue ID	Description
SAP Note 2910274 	ACCESS_VIOLATION error occurs when Data Services reads an Excel File. <i>Workaround</i> Uninstall Microsoft Access Database Engine 2016 and use Microsoft Access Database Engine 2010. You can also refer to KBA 2713828.
SAP Note 2902733 	Subject is garbled for some Japanese characters for the smtp_to function. <i>Workaround</i> Use English characters for the email subject in the smtp_to function.
SAP Note 2892344 	Data Services background job in SAP keeps running after the registered server program disconnects from the SAP gateway. <i>Workaround</i> The only known workaround at the moment is to modify the ABAP code prior to invoking CALL 'RFCControl' with the understanding that the modifications will not be officially supported by SAP. Long-term solution will be updating the ABAP code to make changes to the options used in CALL 'RFCControl'.
SAP Note 2872845 	Named pipe error occurs: <The pipe has been ended.>. <i>Workaround</i> In the Data Services Dataflow Properties, change the Cache type option from Pageable to In-Memory.
SAP Note 2856541 	Error displays when reading persistent cache with lob - SAP Data Services. <i>Workaround</i> Edit the datastore, enable Force UTF-16 Codepage, and run the job. The job finishes successfully.
SAP Note 2838796 	Data Services now uses ECDSA hostkeys by default instead of RSA hostkeys. <i>Workaround</i> The workaround is to generate and use a ECDSA hostkey. To obtain an ECDSA hostkey fingerprint: 1. Logon to the file location object's host system that installs the Linux OS. 2. Execute <code><sudo ssh-keygen -lf /etc/ssh/ssh_host_ecdsa_key.pub></code>.

Issue ID	Description
SAP Note 2800416 	Incorrect job fail reported when using Contained Database User method.
SAP Note 2795508 	Reading data from more than one Excel file causes an error to occur when running with Windows 2016 job server.
SAP Note 2789806 	Reading a large flat file may cause an access violation error or unusual results. <i>Workaround</i> Use a single thread to read the file. The instruction to change the single thread are as follows: 1. Logon to the Designer. 2. Go to Tools > Options > Job Server > General. 3. Set the following attribute values: • <i>Section</i>: al_engine • <i>Key</i>: FILE_NTHREAD • <i>Values</i>: 0 If this fixes the issue, do the following: 1. Right-click on the data flow and click <i>Properties</i>. 2. Change the value of <i>Degree of parallelism</i> to 1.
SAP Note 2784089 	MySQL SSL database doesn't work on Solaris if the database name contain an underscore "_". <i>Workaround</i> Stop using "_" in database names.
SAP Note 2776435 	DSCConnectionManager hangs when adding Altiscale Hive driver. <i>Workaround</i> Wait several minutes, then press CTRL + C. Run DSCConnectionManager again and if the Hive driver has already been added, you can successfully run an Altiscale Hive job with this driver.

Issue ID	Description
SAP Note 2775794 	Altiscale WebHDFS delegation token get command says the token is expired before the actual expiration date. <i>Workaround</i> 1. Generate a new SWEBHDFS delegation token with the following command: <code>hadoop dtutil get swebhdfs://https-sap2.s3s.altiscale.com:14000/-renewer "" -format java -alias https-sap2.s3s.altiscale.com token</code> 2. Copy the delegation token string from command <code>hadoop dtutil print token</code>. 3. Paste the new delegation token string to the password input box of Altiscale Hadoop file location object and run the job again.
SAP Note 2774897 	Using varchar converts to integer and can cause a conversion error and null result. <i>Workaround</i> Change the engine locale to UTF-8.
SAP Note 2741139 	Before upgrading to Data Services, if you change the location of DS_COMMON_DIR and add a new job server, the newly added job server will disappear after the upgrade. <i>Workaround</i> Add the new job server information in the Data Services Server Manager after the upgrade installation has been performed.
SAP Note 2690490 	DS 4.2.11 USA Regulatory Address Cleanse possible performance degradation.

Issue ID	Description
SAP Note 2685857 	Unable to start BOEExcelAdapter after upgrade. <i>Workaround</i> Perform the following steps to update a classpath manually: - Go to <code><DS_COMMON_DIR>/dataservices/adapters/install</code> directory and delete <code>msexceladapter.xml</code>. - Go to <code><link_dir></code> and run the following command (you will need to replace <code><link_dir></code> with the correct path): <pre><link_dir>/ext/jre/bin/java -classpath <link_dir>/lib/acta_adapter_sdk.jar:<link_dir>/lib/acta_tool.jar:<link_dir>/lib/log4j-1.2.3.jar:<link_dir>/ext/lib/jaxp.jar:<link_dir>/ext/lib/xercesImpl.jar:<link_dir>/ext/lib/xml-apis.jar:<link_dir>/ext/lib/xalan.jar com.acta.adapter.sdk-til.UpdateAdapterVersion <link_dir>/dataservices<link_dir>/dataservices "Microsoft Excel Adapter" >> <link_dir>/adapters/upgrade/upgrade_trace.txt 2>&1</pre> - Open <code>msexceladapter.xml</code> and check the classpath for the <code>.jar</code> files, which includes poi latest 3.17 <code>.jar</code> files. <code><adapterJarFile DisplayName = "Adapter's Jar Files:" Description = "Adapter's directories and zip/jar files separated by semicolons. Show the location relative to the LINK_DIR." isArray = "true" Description_MsgID = "3020234" isHidden = "true" DisplayName_MsgID = "3020233" Order = "12">/lib/acta_adapter_sdk.jar;/lib/acta_broker_client.jar;/lib/acta_tool.jar;/ext/lib/bcm.jar;/ext/lib/cryptojFIPS.jar;/ext/lib/ssljFIPS.jar;/ext/lib/xercesImpl.jar;/ext/lib/xml-apis.jar;/ext/lib/log4j-1.2.15.jar;/lib/msexceladapter.jar;/ext/lib/dom4j-1.6.1.jar;/ext/lib/xmlbeans-2.3.0.jar;/ext/lib/xercesImpl.jar;/ext/lib/xml-apis.jar;/ext/lib/poi-3.17.jar;/ext/lib/poi-ooxml-3.17.jar;/ext/lib/poi-ooxml-schemas-3.17.jar;</adapterJarFile></code> - Go to the Management Console and edit the adapter to include the following: <pre><link_dir>/ext/lib/poi-3.17.jar;<link_dir>/ext/lib/poi-ooxml-3.17.jar;<link_dir>/ext/lib/poi-ooxml-schemas-3.17.jar;</pre> - Click <i>Apply</i>. - Restart the adapter.
SAP Note 2640757 	When compressing a file with a Unicode file name, you may encounter an open file error. <i>Workaround</i> Do not use a Unicode file name.
SAP Note 2626174 	Cannot import complex data types into Hive.

Issue ID	Description
SAP Note 2576503 	Multi-table join pushdown for Hive Avro tables may result in error. Pushdown for multiple join to Avro tables might cause the following error: task:java.lang.RuntimeException: java.lang.RuntimeException: java.io.IOException: java.io.IOException: Not a data file. <i>Workaround</i> Convert the files to text format and run the join on the tables.
SAP Note 2559148 	Data Services job fails after making a certain number of Web Services SOAP calls. The following error message appears in the <code>Axis2_log.txt</code> file: <pre>[Fri Oct 6 12:02:21 2017] [error] http_client.c(246) Error creating a socket. Most probably error returned by OS [Fri Oct 6 12:02:21 2017] [error] http_client.c(247) Socket Creation failed. [Fri Oct 6 12:02:21 2017] [error] http_client.c(552) client data stream null or socket error for host <hostname> and <port number> port [Fri Oct 6 12:02:21 2017] [error] http_client.c(556) A read attempt(HTTP) for the reply without sending the request [Fri Oct 6 12:02:21 2017] [error] http_sender.c(1381) status_code < 0 [Fri Oct 6 12:02:21 2017] [error] engine.c(179) Trans- port sender invoke failed [Fri Oct 6 12:03:21 2017] [info] [rampart][ram- part_mod] rampart_mod shutdown</pre> <i>Workaround</i> As UNIX root user, configure the system resources as follows: - Set the hard limit with command <code>ulimit -Hn <max number that can be allocated></code>. - Set the soft limit with command <code>ulimit -n <max number that can be allocated></code>.
SAP Note 2542431 	Data Services functions update for SAP BW 7.52. Function module call failed: SAP Data Service can't recognize the structure from function module in SAP BW 7.52. <i>Workaround</i> Refer to the SAP Note for the solution.

Issue ID	Description
SAP Note 2495708 	Continuous workflow with Table_Comparison crashes - SAP DataHANA 2.0 DSN datastore, when used with Data_Transfer transform as automatic, gives the following error in versions of Data Services that do not support multi-DB HANA: SQL submitted to ODBC data source <> resulted in error <[SAP AG][LI-BODBC:HDB DLL][HDBODBC] General error;362 invalid schema name: DP1: line 1 col 21 (at pos 20)>. The SQL submitted is <CREATE COLUMN TABLE "DP1"."DT__348_441_1_1" ("DI_ROW_ID" INTEGER)> <i>Workaround</i> 1. In the datastore, click Advance and add a new alias. 2. Create a new alias for the Database name of the HANA server to point to the HANA owner name. 3. Alternatively, you can use File or Table as the Data_Transfer transfer type.
SAP Note 2480099 	Failed to load jvm.dll when you install Data Services client on Windows 2010 OS. The Data Services installation throws a failed to load jvm.dll error when installed on the Windows 2010 client. <i>Workaround</i> This is a known issue. The install of Microsoft Visual C++ 2010 Redistributable Package is required. Refer to the Data Services 4.2 Product Availability Matrix (PAM) for more information.
SAP Note 2467458 	Scheduled instances run one hour early after Daylight Saving Time switch-over. <i>Workaround:</i> According to <i>Business Intelligence platform Installation Guide for Unix</i>, configuring the TZ environment variable is mandatory for UNIX platforms. Refer to SAP Note 1404484  for configuration details. This brings the inconsistent time/timezone display issue in CMC, which can be resolved by adding "-Duser.timezone=<desiredtimezone>" option to Tomcat. Refer to SAP Note 2442626 . Similarly, the Data Services BOE schedule time shifting after DST change issue can be resolved by adding "-Duser.timezone=<desiredtimezone>" option to the command line parameters of EIMAdaptingProcessingServer in CMC. Finally, there is a known issue for any BOE daily recurring schedules that fall in the DST changing period, e.g. 2017-03-26 01:59:59 CET to 2017-03-26 03:00:00 CEST. Refer to SAP Note 1986781  for more information.

Issue ID	Description
SAP Note 2461394 	Jobs formerly designed in the "Chinese" language fail with error. <i>Workaround</i> Jobs formerly designed in the "Chinese" language with earlier versions of Data Services must be re-designed using either "Simplified Chinese" or "Traditional Chinese".
SAP Note 2451333 	Special characters in Google BigQuery (GBQ) data are not processed correctly in SAP Data Services, whether using the SQL transform for the GBQ datastore or reading from GBQ using Google Cloud Storage (GCS) files. Data Services does not properly process special characters read from Google BigQuery by either the SQL transform (for example, a new line character would be read as "\n") or by export to Google Cloud Storage (for example, a quote would be read as triple-quote). <i>Workaround:</i> Post process fields with special characters using the ATL functions in Data Services or by using a third-party tool.
SAP Note 2441584 	SAP Data Services jobs fail when extracting from SAP S/4HANA 1610 sources. - A job extracting from SAP S/4HANA 1610 fails with the following error in SAP Data Services: (14.2) <Date><Time>(R) (0864:3163191040) R3C-151001: Data flow test_job_3 Reader Query Error calling RFC function to get table data: <RFC_ABAP_RUN-TIME_FAILURE>. - On SAP Application server, the following short dump occurs: The termination occurred in ABAP program or include "/SAPDS/SAPLRS_BASIS", in "/SAPDS/RFC_STREAM_READ_TABLE". The main program was "SAPMSSY1". - The same job runs fine in SAP S/4HANA 1510 with the same functions source code. - Short dump break references CALL_RFC_TABLE_MULTIREF. - Job fails after first array fetch. If array fetch is set to 1000, then it will read 1000 records and then fail. - Job will run if the number of records in the source is less than the array fetch value. <i>Workaround:</i> Upgrade to SAP kernel 7.49 Patch Level 119 or later.

Issue ID	Description
SAP Note 2392377 	When deploying Data Services Management Console to weblogic11 by wdeploy, the job fails with the following error message: "failed: java.lang.NoSuchMethodError: javax.xml.namespace.QName.<init>(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)V". <i>Workaround</i> - Modify the file (<BOE_INSTALL>/enterprise_x41/wdeploy/template/weblogic.xml) using the following content: <pre> <!DOCTYPE weblogic-web-app PUBLIC "-//BEA Systems, Inc.//DTD Web Application 8.1//EN" "http://www.bea.com/servers/wls810/dtd/ weblogic810-web-jar.dtd" > <weblogic-web-app> <jsp-descriptor> <jsp-param> <param-name> pageCheckSeconds</param-name > <param-value> -1</ param-value> </jsp-param> </jsp-descriptor> <container-descriptor> <prefer-application-packages> <package-name> com.rsa.*</package-name > </prefer-application-packages> <servlet-reload-check-secs> -1</ servlet- reload-check-secs> </container-descriptor> </weblogic-web-app> </pre> - Re-run the wdeploy command.
SAP Note 2392168 	Generate default DDL option for Data_Transfer transform does not support creation of multi-byte varchar column. <i>Workaround</i> To create a Data_Transfer table with multi-byte column support, do one of the following: - Do not use the Generate default DDL option from the Designer. The Data Services backend engine is able to create the varchar columns to support multi-byte data correctly. - To use Generate default DDL option, enable the option and manually modify the varchar columns to accommodate multi-byte data.

Issue ID	Description
SAP Note 2383950 	In Data Services Designer, when the user attempts to switch to another repository that is associated with a different job server, the following error is displayed: "NOTIFICATION SERVER ERROR : Problem with call (BODI-1241030)". <i>Workaround</i> Log out of repository 1 from Designer. Log into repository 2 from Designer.
SAP Note 2383409 	Under certain conditions, the first row is missed when uploading data from a source table to a target table using auto-correct load. Conditions: • The source table has key column that starts with zero. • The target table has a "Key" and "Identity" column. • The "Identity" column has "Seed value is 0". • Auto-correct load has the following parameter settings: • Identity Insert = OFF • Use input keys = Yes • Allow merge or upsert = Yes <i>Workaround</i> Use Optimized SQL generated by Data Services and run the procedure directly in MS SQL Server Studio.
SAP Note 2377030 	The URL of the Data Services Management Console logon page has been change to '/<production_name>' (eg. /DataServices) instead of '/<production_name>/launch/logon.do'. As a result, any existing bookmark that contains '*.do' can no longer be accessed. <i>Workaround</i> Update any bookmark that contains '*.do' for SAP Data Services Management Console.
SAP Note 2367862 	Data Services client installation on Windows 2010. <i>Workaround</i> Before installing the Data Services Client, install the Microsoft Visual C++ 2010 Redistributable Package.

Issue ID	Description
SAP Note 2367036 	When running a job with both a FROM and WHERE clause in the query, the job may fail with the following error: "(14.2) 08-12-16 16:14:18 (E) (8992:5980) RUN-050802: Data flow DF_ANN_O1_ORDER_DW_PREP_ALL Transform Query-Mapping1 Cannot convert data <> into type . Context: Column". <i>Workaround</i> Split the query into two, one with the FROM clause and the other with the WHERE clause.
SAP Note 2358567 	Trying to use file location object features in a continuous work flow causes permission issues, including the lack of permission to delete a file after usage. Jobs also may not finish uploading successfully. <i>Workaround</i> The different features offered through the file location object are not supported in a continuous work flow. They should be used only outside the continuous work flow context, as in a while loop or before entering a continuous work flow or after its executions. The following file location object features are not supported in a continuous work flow: • FTP • SFTP • SCP • LOCAL • Google Cloud Storage • Azure Cloud Storage • Amazon S3 Cloud Storage
SAP Note 2233748 	Error produced when trying to View Data of XML Source with Validation Enabled Job fails and Error Produced when trying to view XML Source with Enabled Validation checked in DS 4.2 SP5 Patch 1. Error: XML Parser Failed: See previously displayed error message

Issue ID	Description
SAP Note 2341441 	Scanning the Linux host where the Data Services server is installed, an SSL vulnerability for RC4 cipher is incorrectly reported on the job server port. <i>Workaround</i> Use the <code>SSL_Cipher_List</code> flag in <code>DSConfig.txt</code> to control the cipher list. In the SSL section of <code>DSConfig.txt</code>, set <code>SSL_Cipher_List</code>. <code>SSL_Cipher_List= empty</code>, which means that the list will contain all the ciphers supported by <code>sslv3</code> and <code>sslv2</code>, so if you want to restrict the list to not include RC4, set the value for the flag in <code>DSConfig.txt</code>. <pre>SSL_Cipher_List= ECDHE-RSA- AES256-GCM-SHA384:ECDHE-ECDSA-AES256-GCM-SHA384:ECDHE- RSA-AES256-SHA384:ECDHE-ECDSA-AES256-SHA384:ECDHE-RSA- AES256-SHA:ECDHE-ECDSA-AES256-SHA:SRP-DSS-AES-256-CBC- SHA:SRP-RSA-AES-256-CBC-SHA:SRP-AES-256-CBC-SHA:DHE- DSS-AES256-GCM-SHA384:DHE-RSA-AES256-GCM-SHA384:DHE- RSA-AES256-SHA256:DHE-DSS-AES256-SHA256:DHE-RSA-AES256- SHA:DHE-DSS-AES256-SHA:DHE-RSA-CAMELLIA256-SHA:DHE- DSS-CAMELLIA256-SHA:ECDH-RSA-AES256-GCM-SHA384:ECDH- ECDSA-AES256-GCM-SHA384:ECDH-RSA-AES256-SHA384:ECDH- ECDSA-AES256-SHA384:ECDH-RSA-AES256-SHA:ECDH-ECDSA- AES256-SHA:AES256-GCM-SHA384:AES256-SHA256:AES256- SHA:CAMELLIA256-SHA:PSK-AES256-CBC-SHA:ECDHE-RSA-AES128- GCM-SHA256:ECDHE-ECDSA-AES128-GCM-SHA256:ECDHE-RSA- AES128-SHA256:ECDHE-ECDSA-AES128-SHA256:ECDHE-RSA-AES128- SHA:ECDHE-ECDSA-AES128-SHA:SRP-DSS-AES-128-CBC-SHA:SRP- RSA-AES-128-CBC-SHA:SRP-AES-128-CBC-SHA:DHE-DSS-AES128- GCM-SHA256:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128- SHA256:DHE-DSS-AES128-SHA256:DHE-RSA-AES128-SHA:DHE-DSS- AES128-SHA:DHE-RSA-SEED-SHA:DHE-DSS-SEED-SHA:DHE-RSA- CAMELLIA128-SHA:DHE-DSS-CAMELLIA128-SHA:ECDH-RSA-AES128- GCM-SHA256:ECDH-ECDSA-AES128-GCM-SHA256:ECDH-RSA- AES128-SHA256:ECDH-ECDSA-AES128-SHA256:ECDH-RSA-AES128- SHA:ECDH-ECDSA-AES128-SHA:AES128-GCM-SHA256:AES128- SHA256:AES128-SHA:SEED-SHA:CAMELLIA128-SHA:PSK-AES128- CBC-SHA:ECDHE-RSA-DES-CBC3-SHA:ECDHE-ECDSA-DES-CBC3- SHA:SRP-DSS-3DES-EDE-CBC-SHA:SRP-RSA-3DES-EDE-CBC- SHA:SRP-3DES-EDE-CBC-SHA:EDH-RSA-DES-CBC3-SHA:EDH-DSS- DES-CBC3-SHA:ECDH-RSA-DES-CBC3-SHA:ECDH-ECDSA-DES-CBC3- SHA:DES-CBC3-SHA:PSK-3DES-EDE-CBC-SHA:EDH-RSA-DES-CBC- SHA:EDH-DSS-DES-CBC-SHA:DES-CBC-SHA</pre> The above list can be generated using following steps:

Issue ID	Description
	1. In the command prompt, execute openssl ciphers. Openssl ciphers gives a list of all supported ciphers 2. Exclude the ciphers with RC4. 3. Add the new list to the SSL_Cipher_List in DSConfig.txt file. 4. Restart the job server.
SAP Note 2341002 	If the BOE is a cluster, the following error may be raised when getting the content of license measurement. "Could not open the file <BOE_Install>\FileStore\Input\...\<Metric_xxx>.xml." <i>Workaround</i> Configure the FRS as a shared folder that can be accessed by all the nodes in the BOE cluster. This is a standard configuration. For detailed steps, see Configuring the File Repository Server (FRS) .
SAP Note 2339392 	When reading multiple Excel files with both xls and xlsx extensions, a Get Access Violation error occurs. <i>Workaround</i> To resolve the issue, install the latest Microsoft Access Database Engine 2010 64 bit.
SAP Note 2337705 	Referencing a query's column in custom SQL of the search_replace() function is not supported in Data Services, and results in the following error message: "DBS-070401: Session <jobname> Data flow <dataflowname> Transform <queryname> ODBC data source <datasourcename> error message for operation <OdbcDB::describeQuery>: <[DatabaseType][Database Driver][Database] Object 'InputSchemaFieldName' does not exist.>. <i>Workaround</i> 1. Create a stage table in the database, load data to this table first, and then reference a column of this table. 2. Use a custom function to excute the SQL.
SAP Note 2320808 	With Sybase IQ 16 SP02 and above, converting datetime to varchar is hardcoded and cannot truncate, which cause an error in Data Services. <i>Workaround</i> Set the option PUBLIC.conversion_error = OFF on the Sybase server, so that the job does not fail in Data Services. If the CONVERSION_ERROR option is OFF, SAP IQ inserts a NULL value when possible. If CONVERSION_ERROR is ON, SAP IQ logs a conversion error.

Issue ID	Description
SAP Note 2315420 	A SAP Data Services job consumes all available memory while building the nested schema if the xsd/xml is large and involves a circular level more than 1. <i>Workaround</i> Try to reduce the size of the xsd by removing unneeded elements as much as possible.
SAP Note 2315419 	SAP Data Services does not support attachments (for example, .xml) as part SOAP response from either native Web services or Web services adaptor.
SAP Note 2315264 	For a Data Services REST Web Service datastore, if the WADL contains a single resource with multiple methods that all have the same resource path name, functions imported into Data Services are overwritten due to having the same name. <i>Workaround</i> Update the WADL file to give each method a unique resource path name.
SAP Note 2312361 	Update the WADL fileA continuous work flow stops if it has a stop function that results in a zero or a negative integer value. <i>Workaround</i> When you use a stop function in a continuous work flow, make sure you implement a counter equal to the number of iterations you want. After each iteration the counter should decrement by one until it reaches zero after the last iteration.
SAP Note 2311935 	On Solaris, a Data Services job crashes when a source or target is from HP Vertica and the repository database is SAP HANA. <i>Workaround</i> Use different repository databases to execute the jobs on Solaris with HP Vertica as a source or target.
SAP Note 2311259 	The structure of the RFC function is not imported correctly to Data Services. The function returns LINE instead of the proper structure.
SAP Note 2304150 	The software issues an HTTP Status 500 when user creates, saves, and then edits a new Sybase ASE repository without a password in the Central Management Console (CMC). Restart your browser and log back in to CMC.

Issue ID	Description
SAP Note 2298910 	A replication server job with a try catch block does not generate appropriate catch errors. <i>Workaround</i> Avoid using try catch blocks around the continuous workflow
SAP Note 2273511 	In the Text Data Processing Entity_Extraction transform, when you select the language as Auto, the Filter by Entity option is empty. <i>Workaround</i> The behavior for the Auto option is correct. The Filter by Entity option should be empty. Language#The default is 'Auto', directing the transform to attempt to identify the language. You may select another language from a list. By selecting #Auto#, a category filter list will not be available by default.
SAP Note 2244473 	Successful Data Services install with an error statement in install log file: "ParserConfigurationException was thrown. The feature 'http://xml.org/sax/features/namespace-prefixes' is probably not supported by your XML processor."
SAP Note 2243880 	Trying to load an MS SQL table that contains spatial data directly to SAP HANA fails. Only the first row is transferred correctly, and the rest of the rows have empty data for the spatial columns until the next fetch batch occurs. It also fails with a bad index during the load. <i>Workaround</i> Use the feature with a Query transform, which works correctly and yields the expected results.
SAP Note 2240264 	When loading to a HIVE template table from another HIVE source and the data flow is optimized for full pushdown that is insert-select, the monitor log count shows zero as rows loaded. <i>Workaround</i> Use the count(*) from the table before and after load to get the number of rows loaded
SAP Note 2223380 	HANA Calc view gives an untranslatable error when loading target table gives a primary violation error. <i>Workaround</i> When you get the error, either select delete table before loading option in target table properties, or delete the table manually and then try to load again.

Issue ID	Description
SAP Note 2162879 	A Data Services job fails when reading from the same xlsx file from parallel data flows. <i>Workaround</i> Provide read and write access to the directory in which the xlsx file is located for the user 'IUSR' . After providing access, restart the Data Services Job Service.
SAP Note 2161514 	When reading from MongoDB, and you have a Where condition in a Query or XML_Map transform that contains an empty string or null, incorrect results are produced. <i>Workaround</i> Use a Query criteria parameter in the MongoDB source instead of a Where condition.
SAP Note 2160793 	A delta extraction job for a cluster table completes without error, but results in no data.
SAP Note 2160763 	Bulk load with import fails to work with a DSN-less connection on DB2. <i>Workaround</i> Use a DSN connection for bulk load.
SAP Note 2160242 	Cannot delete an invalid extract request subscription from an SLT system.
SAP Note 2160228 	Delta extraction not working: - Extracting change data from an SLT source results in an integrity constraint violation. - Delta extraction from an SLT source results in an integrity constraint violation. <i>Workaround</i> To avoid the problem, use auto-correct load.

Issue ID	Description
SAP Note 2158337 	The following error appears when user attempts to execute a job through SAP Data Services on HDP 2.2 Hadoop cluster: "<Failed to initialize HDFS. Check HDFS environment setup>". <i>Workaround</i> A shared library is missing from the <code>/usr/lib64</code> directory. Make a copy manually to that location from <code>/usr/lib</code> and create a symbolic link to the file in <code>/usr/lib64</code>. To work around this issue, before re-running the job, enter the following on the job server machine where the master node of the Hadoop cluster is running: 1. <code>cd /usr/lib</code> 2. <code>cp libhdfs.so.0.0.0 /usr/lib64</code> 3. <code>cd /usr/lib64</code> 4. <code>ln -s libhdfs.so.0.0.0 libhdfs.so</code>

6.3.2 Issues fixed in SAP Data Services 4.3 SP1

Issues fixed in the Data Services 4.3 SP1 release are listed by an internal issue identification tracking number.

Reference the issue ID when you search for the issue on our knowledge base or when communicating with SAP Customer Support.

Issue ID	Description
SAP Note 3274792 	Single repository batch job history shows all jobs. This issue has been fixed in this release.
SAP Note 3272016 	Error - Function <Read> does not allow a negative parameter. This issue has been fixed in this release.
SAP Note 3268317 	Post Processing messages inside Error Log for WebSocket RFC is blank after changing connection from JDBC. This issue has been fixed in this release.
SAP Note 3266083 	Password CMS connection failed. This issue has been fixed in this release.
SAP Note 3265908 	Agent is up and running, but task fails with an error saying the database server is already running. This issue has been fixed in this release.
SAP Note 3263803 	SAP Data Services engine sporadically crashes with the error, "System Exception ACCESS_VIOLATION occurred". This issue has been fixed in this release.
SAP Note 3263735 	DWC dataflow produced duplicated records from join between S4 CDSV and local table. This issue has been fixed in this release.
SAP Note 3262444 	"Warning: Option <exec> must contain a constant value, not a variable, parameter, or column reference" cannot be controlled by Disable_Runtime_warning keyword. This issue has been fixed in this release.
SAP Note 3262414 	Wrong truncate SQL is generated for the Data Transfer table. This issue has been fixed in this release.

Issue ID	Description
SAP Note 3259741 	Salesforce adapter connection issue occurs due to a missing Apache common library. This issue has been fixed in this release.
SAP Note 3259211 	Job Server can't be started because Program exists. This issue has been fixed in this release.
SAP Note 3258327 	HANA CV datetime to date implicit conversion for HANA calcview will throw conversion error. This issue has been fixed in this release.
SAP Note 3256095 	Stopping a job instance through a web service doesn't work. This issue has been fixed in this release.
SAP Note 3253097 	Data Services Designer home page link for Management Console always opens in IE with a 404 error and not in default browser. This issue has been fixed in this release.
SAP Note 3252050 	WebSocketRFC global variable for decimals should always use a dot (.) as a separator. This issue has been fixed in this release.
SAP Note 3250686 	HTTP client error:<56>:<Failure when receiving data from the peer> when running a job in Data Services. This issue has been fixed in this release.
SAP Note 3250527 	Allow Operational Data Provider (ODP) package size changes in SAP Data Services. This issue has been fixed in this release.
SAP Note 3244030 	Continuous work flow fails with the error, 'Too many open files in system'. This issue has been fixed in this release.
SAP Note 3242985 	Unable to recover a delta load for the ODP Extractor in SAP Data Services. This issue has been fixed in this release.
SAP Note 3242165 	RFC connection fails with error: :flowThread() Flow became invalid during waiting for request (BODI-300137). - SAP Data Services 4.2 SP14. This issue has been fixed in this release.
SAP Note 3240183 	The URL for a WSDL contains "https" in the middle of the address so Data Services is requiring SSL to access it. This issue has been fixed in this release.
SAP Note 3239251 	Unparseable date error while scheduling a job with the MySQL repository. This issue has been fixed in this release.
SAP Note 3236927 	SAP Data Services generating redundant HTTP standard headers. This issue has been fixed in this release.
SAP Note 3236700 	Issue with OData adapter when extracting data from a SAP standard web service. This issue has been fixed in this release.
SAP Note 3236374 	DateTime to date implicit conversion causes incorrect data and warnings. This issue has been fixed in this release.
SAP Note 3235475 	The "Use Windows authentication" option is enabled for Azure SQL. This issue has been fixed in this release.
SAP Note 3230973 	The sysdate, systime, and sysutcdatetime functions on Windows do not have sub-milliseconds precision. This issue has been fixed in this release.
SAP Note 3197032 	When executing a job with a Case transform that checks for regex, you get the error "<0,U_REGEX_MISSING_CLOSE_BRACKET>" - SAP Data Services SP14 Patch 18. This issue has been fixed in this release.

6.4 SAP Data Services 4.3 SP00

6.4.1 Known issues in SAP Data Services 4.3 SP00

Known issues that exist in the Data Services 4.3 SP00 release 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. Reference the issue ID when you search 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.

Issue ID	Description
SAP Note 3198077 	New features in DS 4.3 SP0 are not translated.
SAP Note 3197719 	Running a job with custom job launcher command line fails in SAP Data Services 4.3 SP00 Patch 0 <i>Workaround</i> Add "-PLocaleUTF8" at the beginning of the job launcher command line.
SAP Note 3197542 	Having the DOP set to > 1 in the Global Address Cleanse (GAC) transform causes an unknown transform error to occur while processing a job - Linux only. <i>Workaround</i> Process Data Services Global Address Cleanse jobs with a setting of DOP = 1.
SAP Note 3194591 	Oracle repository in Data Services could not be registered successfully due to java.security.InvalidAlgorithmParameterException when using the PKCS12 type. <i>Workaround</i> Convert PKCS12(ewallet.p12) to the JKS type and use the JKS type as a truststore or keystore.
SAP Note 3193593 	CTS error, "HTTP 426 Upgrade required" occurs while saving CTS+ Export configurations in Object Promotion through SAP Data Services Management Console. <i>Workaround</i> As this is a special scenario with a third-party tool (the load balancer, in this case), the workaround is to change the third-party tool HTTP version to 1.0 or to by-pass the tool by using a direct connection.

Issue ID	Description
SAP Note 3171073 	Informix bulk loader limitation with field delimiter. <i>Workaround</i> There are two options: • Use another field delimiter that does not exist in the source data columns. • Use an Escape field delimiter character in the source data columns.
SAP Note 3153897 	Promotion Management: Data Services (DS) repository exported from source system is Inactive in the target system. <i>Workaround</i> Please manually set the "Allow user to retrieve password" right to Administrator and then promote it. The Password Property is promoted to the target. 1. Go to BOE ► <i>CMC</i> ► <i>Data Services</i> ►, right click the repository that you want to promote, and click <i>User Security</i>. 2. Choose <i>Administrator</i> and then click <i>Assign Security</i> on the top right. 3. Click the <i>Advanced</i> tab, then click the <i>Add/Remove Rights</i> link. 4. Expand <i>Application</i> on the left pane and select the Data Services repository. 5. Check the green option for <i>Allow user to retrieve repository password</i> and <i>Allow user to retrieve repository password that user owns</i> rights, and then click <i>Apply</i>. 6. Click <i>OK</i>. The window closes and the two user rights that you selected will be listed. 7. Promote the Data Services repository.
SAP Note 3134382 	Cannot read from an .xlsb file when job server is on UNIX - Data Services. <i>Workaround</i> There are two workarounds/solutions for this issue: Option 1: Change the file format from .xlsb to .xlsx through Microsoft Excel and then specify the new .xlsx file as the file location of the Excel adapter. Option 2: Change the file format from .xlsb to .csv and then create a File Format in the Designer.
SAP Note 3123445 	Data Services job fails with the error, "<ORA-12899: value too large for column "AL_STAGING_INFO"."NAME">". <i>Workaround</i> Try to re-register the repository with a shorter hostname or try to change the pCache directory to a shorter path.

Issue ID	Description
SAP Note 3120005 	Loading into SAP BW system fails. There is no workaround to this issue.
SAP Note 3036039 	SAP Data Service Management Console cannot launch if the version of the Apache Tomcat Introscope Wily server is earlier than 10.7. <i>Workaround</i> Upgrade the Apache Tomcat Introscope Wily server to version 10.7 and restart the Tomcat. Follow the instructions for upgrading in SAP Note 1438005 . See Also: SAP Note 3079887  - How to check if SAP Data Services/Information Steward is using Wily?
SAP Note 3038105 	Setting up secLDAP SSO with a trusted authentication when the CMS is on UNIX or Linux in Data Services. <i>Workaround</i> To fix the issue, do the following: 1. Stop Tomcat. 2. Go to <INSTALL_DIR>/sap_bobj/tomcat/bin/setenv.sh and append the following to the JAVA_OPTS: -Dbobj.trustedauth.home=<folder that contains TrustedPrincipal.conf> 3. Start Tomcat. 4. Go to the Data Services Management Console for SSO and launch it.
SAP Note 3017962 	Hive job fails with Hive temporary table with Avro formatted as the target table. <i>Workaround</i> Use a template table with another format (for example, text, Parquet, or ORC) instead of Avro as the target table.

Issue ID	Description
SAP Note 3006506 	"RFC Server is not available" error occurs when there are multiple CMS servers. The workaround is to ensure that the correct order is followed when stopping and starting the CMS and EIMAPS servers. <i>Workaround</i> Stop Sequence: 1. Stop the SIA Nodes on the two systems without EIMAPS and SAP Data Services service. 2. Stop the Main SIA Node with EIMAPS and SAP Data Services service on the main node. Start Sequence: 1. Start the Main SIA Node with EIMAPS and SAP Data Services service on the main node. 2. Make sure that the SIA Node with all components is in green health status and is running. 3. Make sure you can log in to the CMC and Data Services Management Console. 4. After the sanity check is done on the Main SIA Node system with EIMAPS, perform a start on the other two CMS systems. 5. Start the SIA Nodes on the two systems without EIMAPS and SAP Data Services service. 6. Make sure that the health status is green and it's running respectively for all systems. 7. You should see the RFC server running after following these steps.

Issue ID	Description
SAP Note 3005853 	- After upgrading to SAP Data Services 4.2 SP14 Patch 5, the Data Services Management Console dashboard does not display correctly when you deploy to a separated Tomcat. <i>Workaround</i> If in bundled Tomcat, which is provided by BOE (IPS), there is another option called -Dfile.encoding=UTF-8. It is added automatically after installing Data Services. In a none BOE bundled Tomcat, please follow the steps below for a solution: 1. Stop Tomcat on which the Management Console is deployed. 2. If the 'Tomcat Configuration' tool is installed, add -Dfile.encoding=UTF-8 in the Java Options of the JVM tab. 3. If it's not installed, edit the <Tomcat>/bin/env.bat (Windows) by adding the following lines: set JAVA_OPTS=%JAVA_OPTS% -Dfile.encoding=UTF-8 4. Additionally, you can also add the following to <Tomcat>/bin/env.sh (Linux): JAVA_OPTS="\$JAVA_OPTS -Dfile.encoding=UTF-8" export JAVA_OPTS 5. Save the file. 6. Start Tomcat: Windows (startup.bat) or Linux (./startup.sh).
SAP Note 3001337 	Output different in fringe case where the same record was processed twice - USA Regulatory Address Cleanse (URAC). There is not a fix or workaround for this issue.
SAP Note 2998907 	Parsing error in Data Services while processing columns with multibyte descriptions using ASE repository. <i>Workaround</i> Do one of the following: • Remove column descriptions (and other descriptions) that cause the issue. • Switch the datastore to English, so that all descriptions are in English.
SAP Note 2991693 	ERROR: ORA-12899: value too large for column - Data Services <i>Workaround</i> Use varchar for ASCII characters and nvarchar for Unicode characters.

Issue ID	Description
SAP Note 2973824 	Schedule a job in the SAP Data Services Management Console and you get the error "while trying to invoke the method java.lang.String.getBytes(java.lang.String) of a null object loaded from local variable 's'". <i>Workaround</i> The workaround is to source <code>al_env.sh</code> from the below location: 1. Stop EIMAPS. 2. Source <code>\$LINK_DIR/bin/al_env.sh</code>. 3. Start EIMAPS and everything should work correctly.
SAP Note 2976928 	The file <code>tf_cgc.exe</code> fails to create a rule file for the Text Analysis transform. <i>Workaround</i> For Data Services version 4.2 SP12 and higher, do the following: 1. Create a folder. Make sure that there is no spaces in the folder name. For example, <code>E:\Textanalysis</code>. 2. Copy the files listed below that are in <code>%LINK_DIR%\bin</code> and copy them to the new folder (<code>E:\Textanalysis</code>). For Data Services version 4.2 SP12 and higher: • <code>bosap_icudt53.dll</code> • <code>bosap_icuin53.dll</code> • <code>bosap_icuio53.dll</code> • <code>bosap_icule53.dll</code> • <code>bosap_iculx53.dll</code> • <code>bosap_icutu53.dll</code> • <code>bosap_icuuc53.dll</code> • <code>bosap_xerces-c_3_2.dll</code> • <code>cgc1.exe</code> • <code>ISYS11dfdll</code> • <code>ISYSpdf6dll</code> • <code>ISYSreaders.dll</code> • <code>ISYSreadershd.dll</code> • <code>tf_cgc.exe</code> 3. Copy the Language folder from <code>%LINK_DIR%\TextAnalysis</code> to the new folder (<code>E:\Textanalysis</code>). 4. Create your custom rule file (<code>test.rul</code>). From the command line, run the following command to generate the respective <code>.fsm</code> file: <pre>E:\TextAnalysis>%CD%\tf_cgc.exe -i test.rul -o test.fsm</pre>
SAP Note 2936267 	Teradata 16.20 bulk loader crashes on Solaris. <i>Workaround</i> Disable the Teradata bulk load option.

Issue ID	Description
SAP Note 2910274 	ACCESS_VIOLATION error occurs when Data Services reads an Excel File. <i>Workaround</i> Uninstall Microsoft Access Database Engine 2016 and use Microsoft Access Database Engine 2010. You can also refer to KBA 2713828.
SAP Note 2902733 	Subject is garbled for some Japanese characters for the smtp_to function. <i>Workaround</i> Use English characters for the email subject in the smtp_to function.
SAP Note 2892344 	Data Services background job in SAP keeps running after the registered server program disconnects from the SAP gateway. <i>Workaround</i> The only known workaround at the moment is to modify the ABAP code prior to invoking CALL 'RFCControl' with the understanding that the modifications will not be officially supported by SAP. Long-term solution will be updating the ABAP code to make changes to the options used in CALL 'RFCControl'.
SAP Note 2872845 	Named pipe error occurs: <The pipe has been ended.>. <i>Workaround</i> In the Data Services Dataflow Properties, change the Cache type option from Pageable to In-Memory.
SAP Note 2856541 	Error displays when reading persistent cache with lob - SAP Data Services. <i>Workaround</i> Edit the datastore, enable Force UTF-16 Codepage, and run the job. The job finishes successfully.
SAP Note 2838796 	Data Services now uses ECDSA hostkeys by default instead of RSA hostkeys. <i>Workaround</i> The workaround is to generate and use a ECDSA hostkey. To obtain an ECDSA hostkey fingerprint: 1. Logon to the file location object's host system that installs the Linux OS. 2. Execute <code><sudo ssh-keygen -lf /etc/ssh/ssh_host_ecdsa_key.pub></code>.

Issue ID	Description
SAP Note 2800416 	Incorrect job fail reported when using Contained Database User method.
SAP Note 2795508 	Reading data from more than one Excel file causes an error to occur when running with Windows 2016 job server.
SAP Note 2789806 	Reading a large flat file may cause an access violation error or unusual results. <i>Workaround</i> Use a single thread to read the file. The instruction to change the single thread are as follows: 1. Logon to the Designer. 2. Go to Tools > Options > Job Server > General. 3. Set the following attribute values: • <i>Section</i>: al_engine • <i>Key</i>: FILE_NTHREAD • <i>Values</i>: 0 If this fixes the issue, do the following: 1. Right-click on the data flow and click <i>Properties</i>. 2. Change the value of <i>Degree of parallelism</i> to 1.
SAP Note 2784089 	MySQL SSL database doesn't work on Solaris if the database name contain an underscore "_". <i>Workaround</i> Stop using "_" in database names.
SAP Note 2776435 	DSCConnectionManager hangs when adding Altiscale Hive driver. <i>Workaround</i> Wait several minutes, then press CTRL + C. Run DSCConnectionManager again and if the Hive driver has already been added, you can successfully run an Altiscale Hive job with this driver.

Issue ID	Description
SAP Note 2775794 	Altiscale WebHDFS delegation token get command says the token is expired before the actual expiration date. <i>Workaround</i> 1. Generate a new SWEBHDFS delegation token with the following command: <code>hadoop dtutil get swebhdfs://https-sap2.s3s.altiscale.com:14000/-renewer "" -format java -alias https-sap2.s3s.altiscale.com token</code> 2. Copy the delegation token string from command <code>hadoop dtutil print token</code>. 3. Paste the new delegation token string to the password input box of Altiscale Hadoop file location object and run the job again.
SAP Note 2774897 	Using varchar converts to integer and can cause a conversion error and null result. <i>Workaround</i> Change the engine locale to UTF-8.
SAP Note 2741139 	Before upgrading to Data Services, if you change the location of DS_COMMON_DIR and add a new job server, the newly added job server will disappear after the upgrade. <i>Workaround</i> Add the new job server information in the Data Services Server Manager after the upgrade installation has been performed.
SAP Note 2690490 	DS 4.2.11 USA Regulatory Address Cleanse possible performance degradation.

Issue ID	Description
SAP Note 2685857 	Unable to start BOEExcelAdapter after upgrade. <i>Workaround</i> Perform the following steps to update a classpath manually: - Go to <code><DS_COMMON_DIR>/dataservices/adapters/install</code> directory and delete <code>msexceladapter.xml</code>. - Go to <code><link_dir></code> and run the following command (you will need to replace <code><link_dir></code> with the correct path): <code><link_dir>/ext/jre/bin/java -classpath <link_dir>/lib/acta_adapter_sdk.jar:<link_dir>/lib/acta_tool.jar:<link_dir>/lib/log4j-1.2.3.jar:<link_dir>/ext/lib/jaxp.jar:<link_dir>/ext/lib/xercesImpl.jar:<link_dir>/ext/lib/xml-apis.jar:<link_dir>/ext/lib/xalan.jar com.acta.adapter.sdkutil.UpdateAdapterVersion <link_dir>/dataservices<link_dir>/dataservices "Microsoft Excel Adapter" >> <link_dir>/adapters/upgrade/upgrade_trace.txt 2>&1</code> - Open <code>msexceladapter.xml</code> and check the classpath for the <code>.jar</code> files, which includes poi latest 3.17 <code>.jar</code> files. <code><adapterJarFile DisplayName = "Adapter's Jar Files:" Description = "Adapter's directories and zip/jar files separated by semicolons. Show the location relative to the LINK_DIR." isArray = "true" Description_MsgID = "3020234" isHidden = "true" DisplayName_MsgID = "3020233" Order = "12">/lib/acta_adapter_sdk.jar;/lib/acta_broker_client.jar;/lib/acta_tool.jar;/ext/lib/bcm.jar;/ext/lib/cryptojFIPS.jar;/ext/lib/ssljFIPS.jar;/ext/lib/xercesImpl.jar;/ext/lib/xml-apis.jar;/ext/lib/log4j-1.2.15.jar;/lib/msexceladapter.jar;/ext/lib/dom4j-1.6.1.jar;/ext/lib/xmlbeans-2.3.0.jar;/ext/lib/xercesImpl.jar;/ext/lib/xml-apis.jar;/ext/lib/poi-3.17.jar;/ext/lib/poi-ooxml-3.17.jar;/ext/lib/poi-ooxml-schemas-3.17.jar;</adapterJarFile></code> - Go to the Management Console and edit the adapter to include the following: <code><link_dir>/ext/lib/poi-3.17.jar;<link_dir>/ext/lib/poi-ooxml-3.17.jar;<link_dir>/ext/lib/poi-ooxml-schemas-3.17.jar;</code> - Click <i>Apply</i>. - Restart the adapter.
SAP Note 2640757 	When compressing a file with a Unicode file name, you may encounter an open file error. <i>Workaround</i> Do not use a Unicode file name.
SAP Note 2626174 	Cannot import complex data types into Hive.

Issue ID	Description
SAP Note 2576503 	Multi-table join pushdown for Hive Avro tables may result in error. Pushdown for multiple join to Avro tables might cause the following error: task:java.lang.RuntimeException: java.lang.RuntimeException: java.io.IOException: java.io.IOException: Not a data file. <i>Workaround</i> Convert the files to text format and run the join on the tables.
SAP Note 2559148 	Data Services job fails after making a certain number of Web Services SOAP calls. The following error message appears in the <code>Axis2_log.txt</code> file: <pre>[Fri Oct 6 12:02:21 2017] [error] http_client.c(246) Error creating a socket. Most probably error returned by OS [Fri Oct 6 12:02:21 2017] [error] http_client.c(247) Socket Creation failed. [Fri Oct 6 12:02:21 2017] [error] http_client.c(552) client data stream null or socket error for host <hostname> and <port number> port [Fri Oct 6 12:02:21 2017] [error] http_client.c(556) A read attempt(HTTP) for the reply without sending the request [Fri Oct 6 12:02:21 2017] [error] http_sender.c(1381) status_code < 0 [Fri Oct 6 12:02:21 2017] [error] engine.c(179) Trans- port sender invoke failed [Fri Oct 6 12:03:21 2017] [info] [rampart][ram- part_mod] rampart_mod shutdown</pre> <i>Workaround</i> As UNIX root user, configure the system resources as follows: - Set the hard limit with command <code>ulimit -Hn <max number that can be allocated></code>. - Set the soft limit with command <code>ulimit -n <max number that can be allocated></code>.
SAP Note 2542431 	Data Services functions update for SAP BW 7.52. Function module call failed: SAP Data Service can't recognize the structure from function module in SAP BW 7.52. <i>Workaround</i> Refer to the SAP Note for the solution.

Issue ID	Description
SAP Note 2495708 	Continuous workflow with Table_Comparison crashes - SAP DataHANA 2.0 DSN datastore, when used with Data_Transfer transform as automatic, gives the following error in versions of Data Services that do not support multi-DB HANA: SQL submitted to ODBC data source <> resulted in error <[SAP AG][LI-BODBC:HDB DLL][HDBODBC] General error;362 invalid schema name: DP1: line 1 col 21 (at pos 20)>. The SQL submitted is <CREATE COLUMN TABLE "DP1"."DT__348_441_1_1" ("DI_ROW_ID" INTEGER)> <i>Workaround</i> 1. In the datastore, click Advance and add a new alias. 2. Create a new alias for the Database name of the HANA server to point to the HANA owner name. 3. Alternatively, you can use File or Table as the Data_Transfer transfer type.
SAP Note 2480099 	Failed to load jvm.dll when you install Data Services client on Windows 2010 OS. The Data Services installation throws a failed to load jvm.dll error when installed on the Windows 2010 client. <i>Workaround</i> This is a known issue. The install of Microsoft Visual C++ 2010 Redistributable Package is required. Refer to the Data Services 4.2 Product Availability Matrix (PAM) for more information.
SAP Note 2467458 	Scheduled instances run one hour early after Daylight Saving Time switch-over. <i>Workaround:</i> According to <i>Business Intelligence platform Installation Guide for Unix</i>, configuring the TZ environment variable is mandatory for UNIX platforms. Refer to SAP Note 1404484  for configuration details. This brings the inconsistent time/timezone display issue in CMC, which can be resolved by adding "-Duser.timezone=<desiredtimezone>" option to Tomcat. Refer to SAP Note 2442626 . Similarly, the Data Services BOE schedule time shifting after DST change issue can be resolved by adding "-Duser.timezone=<desiredtimezone>" option to the command line parameters of EIMAdaptingProcessingServer in CMC. Finally, there is a known issue for any BOE daily recurring schedules that fall in the DST changing period, e.g. 2017-03-26 01:59:59 CET to 2017-03-26 03:00:00 CEST. Refer to SAP Note 1986781  for more information.

Issue ID	Description
SAP Note 2461394 	Jobs formerly designed in the "Chinese" language fail with error. <i>Workaround</i> Jobs formerly designed in the "Chinese" language with earlier versions of Data Services must be re-designed using either "Simplified Chinese" or "Traditional Chinese".
SAP Note 2451333 	Special characters in Google BigQuery (GBQ) data are not processed correctly in SAP Data Services, whether using the SQL transform for the GBQ datastore or reading from GBQ using Google Cloud Storage (GCS) files. Data Services does not properly process special characters read from Google BigQuery by either the SQL transform (for example, a new line character would be read as "\n") or by export to Google Cloud Storage (for example, a quote would be read as triple-quote). <i>Workaround:</i> Post process fields with special characters using the ATL functions in Data Services or by using a third-party tool.
SAP Note 2441584 	SAP Data Services jobs fail when extracting from SAP S/4HANA 1610 sources. - A job extracting from SAP S/4HANA 1610 fails with the following error in SAP Data Services: (14.2) <Date><Time>(R) (0864:3163191040) R3C-151001: Data flow test_job_3 Reader Query Error calling RFC function to get table data: <RFC_ABAP_RUN-TIME_FAILURE>. - On SAP Application server, the following short dump occurs: The termination occurred in ABAP program or include "/SAPDS/SAPLRS_BASIS", in "/SAPDS/RFC_STREAM_READ_TABLE". The main program was "SAPMSSY1". - The same job runs fine in SAP S/4HANA 1510 with the same functions source code. - Short dump break references CALL_RFC_TABLE_MULTIREF. - Job fails after first array fetch. If array fetch is set to 1000, then it will read 1000 records and then fail. - Job will run if the number of records in the source is less than the array fetch value. <i>Workaround:</i> Upgrade to SAP kernel 7.49 Patch Level 119 or later.

Issue ID	Description
SAP Note 2392377 	When deploying Data Services Management Console to weblogic11 by wdeploy, the job fails with the following error message: "failed: java.lang.NoSuchMethodError: javax.xml.namespace.QName.<init>(Ljava/lang/String;Ljava/lang/String;Ljava/lang/String;)V". <i>Workaround</i> - Modify the file (<BOE_INSTALL>/enterprise_x41/wdeploy/template/weblogic.xml) using the following content: <pre> <!DOCTYPE weblogic-web-app PUBLIC "-//BEA Systems, Inc.//DTD Web Application 8.1//EN" "http://www.bea.com/servers/wls810/dtd/ weblogic810-web-jar.dtd" > <weblogic-web-app> <jsp-descriptor> <jsp-param> <param-name> pageCheckSeconds</param-name > <param-value> -1</ param-value> </jsp-param> </jsp-descriptor> <container-descriptor> <prefer-application-packages> <package-name> com.rsa.*</package-name > </prefer-application-packages> <servlet-reload-check-secs> -1</ servlet- reload-check-secs> </container-descriptor> </weblogic-web-app> </pre> - Re-run the wdeploy command.
SAP Note 2392168 	Generate default DDL option for Data_Transfer transform does not support creation of multi-byte varchar column. <i>Workaround</i> To create a Data_Transfer table with multi-byte column support, do one of the following: - Do not use the Generate default DDL option from the Designer. The Data Services backend engine is able to create the varchar columns to support multi-byte data correctly. - To use Generate default DDL option, enable the option and manually modify the varchar columns to accommodate multi-byte data.

Issue ID	Description
SAP Note 2383950 	In Data Services Designer, when the user attempts to switch to another repository that is associated with a different job server, the following error is displayed: "NOTIFICATION SERVER ERROR : Problem with call (BODI-1241030)". <i>Workaround</i> Log out of repository 1 from Designer. Log into repository 2 from Designer.
SAP Note 2383409 	Under certain conditions, the first row is missed when uploading data from a source table to a target table using auto-correct load. Conditions: • The source table has key column that starts with zero. • The target table has a "Key" and "Identity" column. • The "Identity" column has "Seed value is 0". • Auto-correct load has the following parameter settings: • Identity Insert = OFF • Use input keys = Yes • Allow merge or upsert = Yes <i>Workaround</i> Use Optimized SQL generated by Data Services and run the procedure directly in MS SQL Server Studio.
SAP Note 2377030 	The URL of the Data Services Management Console logon page has been change to '/<production_name>' (eg. /DataServices) instead of '/<production_name>/launch/logon.do'. As a result, any existing bookmark that contains '*.do' can no longer be accessed. <i>Workaround</i> Update any bookmark that contains '*.do' for SAP Data Services Management Console.
SAP Note 2367862 	Data Services client installation on Windows 2010. <i>Workaround</i> Before installing the Data Services Client, install the Microsoft Visual C++ 2010 Redistributable Package.

Issue ID	Description
SAP Note 2367036 	When running a job with both a FROM and WHERE clause in the query, the job may fail with the following error: "(14.2) 08-12-16 16:14:18 (E) (8992:5980) RUN-050802: Data flow DF_ANN_O1_ORDER_DW_PREP_ALL Transform Query-Mapping1 Cannot convert data <> into type . Context: Column". <i>Workaround</i> Split the query into two, one with the FROM clause and the other with the WHERE clause.
SAP Note 2358567 	Trying to use file location object features in a continuous work flow causes permission issues, including the lack of permission to delete a file after usage. Jobs also may not finish uploading successfully. <i>Workaround</i> The different features offered through the file location object are not supported in a continuous work flow. They should be used only outside the continuous work flow context, as in a while loop or before entering a continuous work flow or after its executions. The following file location object features are not supported in a continuous work flow: • FTP • SFTP • SCP • LOCAL • Google Cloud Storage • Azure Cloud Storage • Amazon S3 Cloud Storage
SAP Note 2233748 	Error produced when trying to View Data of XML Source with Validation Enabled Job fails and Error Produced when trying to view XML Source with Enabled Validation checked in DS 4.2 SP5 Patch 1. Error: XML Parser Failed: See previously displayed error message

Issue ID	Description
SAP Note 2341441 	Scanning the Linux host where the Data Services server is installed, an SSL vulnerability for RC4 cipher is incorrectly reported on the job server port. <i>Workaround</i> Use the <code>SSL_Cipher_List</code> flag in <code>DSConfig.txt</code> to control the cipher list. In the SSL section of <code>DSConfig.txt</code>, set <code>SSL_Cipher_List</code>. <code>SSL_Cipher_List= empty</code>, which means that the list will contain all the ciphers supported by <code>sslv3</code> and <code>sslv2</code>, so if you want to restrict the list to not include RC4, set the value for the flag in <code>DSConfig.txt</code>. <pre>SSL_Cipher_List= ECDHE-RSA- AES256-GCM-SHA384:ECDSA-AES256-GCM-SHA384:ECDSA-AES256-SHA384:ECDSA-AES256-SHA:ECDSA-AES256-SHA:SRP-DSS-AES-256-CBC- SHA:SRP-RSA-AES-256-CBC-SHA:SRP-AES-256-CBC-SHA:DHE- DSS-AES256-GCM-SHA384:DHE-RSA-AES256-GCM-SHA384:DHE- RSA-AES256-SHA256:DHE-DSS-AES256-SHA256:DHE-RSA-AES256- SHA:DHE-DSS-AES256-SHA:DHE-RSA-CAMELLIA256-SHA:DHE- DSS-CAMELLIA256-SHA:ECDH-RSA-AES256-GCM-SHA384:ECDH- ECDSA-AES256-GCM-SHA384:ECDH-RSA-AES256-SHA384:ECDH- ECDSA-AES256-SHA384:ECDH-RSA-AES256-SHA:ECDH-ECDSA- AES256-SHA:AES256-GCM-SHA384:AES256-SHA256:AES256- SHA:CAMELLIA256-SHA:PSK-AES256-CBC-SHA:ECDSA-AES128- GCM-SHA256:ECDSA-AES128-GCM-SHA256:ECDSA-AES128- SHA:ECDSA-AES128-SHA:SRP-DSS-AES-128-CBC-SHA:SRP- RSA-AES-128-CBC-SHA:SRP-AES-128-CBC-SHA:DHE-DSS-AES128- GCM-SHA256:DHE-RSA-AES128-GCM-SHA256:DHE-RSA-AES128- SHA256:DHE-DSS-AES128-SHA256:DHE-RSA-AES128-SHA:DHE-DSS- AES128-SHA:DHE-RSA-SEED-SHA:DHE-DSS-SEED-SHA:DHE-RSA- CAMELLIA128-SHA:DHE-DSS-CAMELLIA128-SHA:ECDSA-AES128- GCM-SHA256:ECDSA-AES128-GCM-SHA256:ECDSA-AES128- SHA:ECDSA-AES128-SHA:AES128-GCM-SHA256:AES128- SHA256:AES128-SHA:SEED-SHA:CAMELLIA128-SHA:PSK-AES128- CBC-SHA:ECDSA-DES-CBC3-SHA:ECDSA-DES-CBC3- SHA:SRP-DSS-3DES-EDE-CBC-SHA:SRP-RSA-3DES-EDE-CBC- SHA:SRP-3DES-EDE-CBC-SHA:EDH-RSA-DES-CBC3-SHA:EDH-DSS- DES-CBC3-SHA:ECDSA-DES-CBC3-SHA:ECDSA-DES-CBC3- SHA:DES-CBC3-SHA:PSK-3DES-EDE-CBC-SHA:EDH-RSA-DES-CBC- SHA:EDH-DSS-DES-CBC-SHA:DES-CBC-SHA</pre> The above list can be generated using following steps:

Issue ID	Description
	1. In the command prompt, execute openssl ciphers. Openssl ciphers gives a list of all supported ciphers 2. Exclude the ciphers with RC4. 3. Add the new list to the SSL_Cipher_List in DSConfig.txt file. 4. Restart the job server.
SAP Note 2341002 	If the BOE is a cluster, the following error may be raised when getting the content of license measurement. "Could not open the file <BOE_Install>\FileStore\Input\...\<Metric_xxx>.xml." <i>Workaround</i> Configure the FRS as a shared folder that can be accessed by all the nodes in the BOE cluster. This is a standard configuration. For detailed steps, see Configuring the File Repository Server (FRS) .
SAP Note 2339392 	When reading multiple Excel files with both xls and xlsx extensions, a Get Access Violation error occurs. <i>Workaround</i> To resolve the issue, install the latest Microsoft Access Database Engine 2010 64 bit.
SAP Note 2337705 	Referencing a query's column in custom SQL of the search_replace() function is not supported in Data Services, and results in the following error message: "DBS-070401: Session <jobname> Data flow <dataflowname> Transform <queryname> ODBC data source <datasourcename> error message for operation <OdbcDB::describeQuery>: <[DatabaseType][Database Driver][Database] Object 'InputSchemaFieldName' does not exist.>. <i>Workaround</i> 1. Create a stage table in the database, load data to this table first, and then reference a column of this table. 2. Use a custom function to excute the SQL.
SAP Note 2320808 	With Sybase IQ 16 SP02 and above, converting datetime to varchar is hardcoded and cannot truncate, which cause an error in Data Services. <i>Workaround</i> Set the option PUBLIC.conversion_error = OFF on the Sybase server, so that the job does not fail in Data Services. If the CONVERSION_ERROR option is OFF, SAP IQ inserts a NULL value when possible. If CONVERSION_ERROR is ON, SAP IQ logs a conversion error.

Issue ID	Description
SAP Note 2315420 	A SAP Data Services job consumes all available memory while building the nested schema if the xsd/xml is large and involves a circular level more than 1. <i>Workaround</i> Try to reduce the size of the xsd by removing unneeded elements as much as possible.
SAP Note 2315419 	SAP Data Services does not support attachments (for example, .xml) as part SOAP response from either native Web services or Web services adaptor.
SAP Note 2315264 	For a Data Services REST Web Service datastore, if the WADL contains a single resource with multiple methods that all have the same resource path name, functions imported into Data Services are overwritten due to having the same name. <i>Workaround</i> Update the WADL file to give each method a unique resource path name.
SAP Note 2312361 	Update the WADL fileA continuous work flow stops if it has a stop function that results in a zero or a negative integer value. <i>Workaround</i> When you use a stop function in a continuous work flow, make sure you implement a counter equal to the number of iterations you want. After each iteration the counter should decrement by one until it reaches zero after the last iteration.
SAP Note 2311935 	On Solaris, a Data Services job crashes when a source or target is from HP Vertica and the repository database is SAP HANA. <i>Workaround</i> Use different repository databases to execute the jobs on Solaris with HP Vertica as a source or target.
SAP Note 2311259 	The structure of the RFC function is not imported correctly to Data Services. The function returns LINE instead of the proper structure.
SAP Note 2304150 	The software issues an HTTP Status 500 when user creates, saves, and then edits a new Sybase ASE repository without a password in the Central Management Console (CMC). Restart your browser and log back in to CMC.

Issue ID	Description
SAP Note 2298910 	A replication server job with a try catch block does not generate appropriate catch errors. <i>Workaround</i> Avoid using try catch blocks around the continuous workflow
SAP Note 2273511 	In the Text Data Processing Entity_Extraction transform, when you select the language as Auto, the Filter by Entity option is empty. <i>Workaround</i> The behavior for the Auto option is correct. The Filter by Entity option should be empty. Language#The default is 'Auto', directing the transform to attempt to identify the language. You may select another language from a list. By selecting #Auto#, a category filter list will not be available by default.
SAP Note 2244473 	Successful Data Services install with an error statement in install log file: "ParserConfigurationException was thrown. The feature 'http://xml.org/sax/features/namespace-prefixes' is probably not supported by your XML processor."
SAP Note 2243880 	Trying to load an MS SQL table that contains spatial data directly to SAP HANA fails. Only the first row is transferred correctly, and the rest of the rows have empty data for the spatial columns until the next fetch batch occurs. It also fails with a bad index during the load. <i>Workaround</i> Use the feature with a Query transform, which works correctly and yields the expected results.
SAP Note 2240264 	When loading to a HIVE template table from another HIVE source and the data flow is optimized for full pushdown that is insert-select, the monitor log count shows zero as rows loaded. <i>Workaround</i> Use the count(*) from the table before and after load to get the number of rows loaded
SAP Note 2223380 	HANA Calc view gives an untranslatable error when loading target table gives a primary violation error. <i>Workaround</i> When you get the error, either select delete table before loading option in target table properties, or delete the table manually and then try to load again.

Issue ID	Description
SAP Note 2162879 	A Data Services job fails when reading from the same xlsx file from parallel data flows. <i>Workaround</i> Provide read and write access to the directory in which the xlsx file is located for the user 'IUSR' . After providing access, restart the Data Services Job Service.
SAP Note 2161514 	When reading from MongoDB, and you have a Where condition in a Query or XML_Map transform that contains an empty string or null, incorrect results are produced. <i>Workaround</i> Use a Query criteria parameter in the MongoDB source instead of a Where condition.
SAP Note 2160793 	A delta extraction job for a cluster table completes without error, but results in no data.
SAP Note 2160763 	Bulk load with import fails to work with a DSN-less connection on DB2. <i>Workaround</i> Use a DSN connection for bulk load.
SAP Note 2160242 	Cannot delete an invalid extract request subscription from an SLT system.
SAP Note 2160228 	Delta extraction not working: - Extracting change data from an SLT source results in an integrity constraint violation. - Delta extraction from an SLT source results in an integrity constraint violation. <i>Workaround</i> To avoid the problem, use auto-correct load.

Issue ID	Description
SAP Note 2158337 	The following error appears when user attempts to execute a job through SAP Data Services on HDP 2.2 Hadoop cluster: "<Failed to initialize HDFS. Check HDFS environment setup>". <i>Workaround</i> A shared library is missing from the <code>/usr/lib64</code> directory. Make a copy manually to that location from <code>/usr/lib</code> and create a symbolic link to the file in <code>/usr/lib64</code>. To work around this issue, before re-running the job, enter the following on the job server machine where the master node of the Hadoop cluster is running: 1. <code>cd /usr/lib</code> 2. <code>cp libhdfs.so.0.0.0 /usr/lib64</code> 3. <code>cd /usr/lib64</code> 4. <code>ln -s libhdfs.so.0.0.0 libhdfs.so</code>

6.4.2 Issues fixed in SAP Data Services 4.3 SP00

Issues fixed in the Data Services 4.3 release are listed by an internal issue identification tracking number.

Reference the issue ID when you search for the issue on our knowledge base or when communicating with SAP Customer Support.

Issue ID	Description
SAP Note 3191257 	Unable to read/load data from a datastore that connects to an Azure SQL Database on Linux. This issue has been fixed in this release.
SAP Note 3189823 	Data Services Web Services calls are multi-thread unsafe. This issue has been fixed in this release.
SAP Note 3167869 	Azure Blob store is requesting an OAuth token - Data Services. This issue has been fixed in this release.
SAP Note 3166544 	Table Comparison validation issue in Data Services. This issue has been fixed in this release.
SAP Note 3159003 	Unable to sync a batch job that is published as a Web Services operation - SAP Data Services. This issue has been fixed in this release.
SAP Note 3158850 	Snowflake table with "/" character causes error with bulk load - Data Services. This issue has been fixed in this release.
SAP Note 3151666 	When checking in Snowflake tables to the central repository, the tables are reported as new objects - Data Services. This issue has been fixed in this release.
SAP Note 3148284 	HANA bulk loader job stalls intermittently. This issue has been fixed in this release.
SAP Note 3147113 	SQL Injection Vulnerability SAP Data Services 4.2 SP14. This issue has been fixed in this release.

Issue ID	Description
SAP Note 3145750 	Use DNS option is not displayed correctly in the datastore configurations for read-only repositories. This issue has been fixed in this release.
SAP Note 3145149 	Snowflake database locks with special characters in the password as a datastore - SAP Data Services. This issue has been fixed in this release.
SAP Note 3144385 	Cannot import a Web Services SOAP function when the WSDL has an empty Target-Namespace. This issue has been fixed in this release.
SAP Note 3139879 	Performance enhancement for the job history listing in SAP Data Services Management Console. This issue has been fixed in this release.
SAP Note 3138635 	Job using the Table Comparison sorted input method stalls when you insert NULL into a not NULL column . This issue has been fixed in this release.
SAP Note 3136997 	The local_to_utc function generates the wrong result - SAP Data Services 14.2.14.3129. This issue has been fixed in this release.
SAP Note 3136968 	Cannot open the Object state report in SAP Data Services Management Console for Central Repository. This issue has been fixed in this release.
SAP Note 3134914 	The error, " AWS S3 error creating bucket <XXX/Forbidden: Access Denied>." occurred intermittently - SAP Data Services 4.2. This issue has been fixed in this release.
SAP Note 3129865 	After upgrade, running a SQL stored procedure commit transaction may cause the mismatching number. This issue has been fixed in this release.
SAP Note 3127448 	NCOALink certification failed due to ANK_RETCODE = 77 and NCOA_RETCODE = 00 - Data Services. This issue has been fixed in this release.
SAP Note 3127357 	DataDirect drivers (8.0) are not installed correctly on Windows. This issue has been fixed in this release.
SAP Note 3124022 	Data Services job with Teradata Parallel Transporter bulk loader fails when column name contains unicode character. This issue has been fixed in this release.
SAP Note 3122987 	User is unable to change the owner when exporting to another repository in the Data Services Designer. This issue has been fixed in this release.
SAP Note 3122875 	Data Services Management Console Auto Documentation printing doesn't work for specific jobs. This issue has been fixed in this release.
SAP Note 3122777 	Filters cannot be pushed down to source. This issue has been fixed in this release.
SAP Note 3122455 	Can't login to Data Services Management Console automatically when redirecting from Fiori. This issue has been fixed in this release.
SAP Note 3121372 	Delimited file format reader access violation when data flow degree of parallelism is set to 1. This issue has been fixed in this release.
SAP Note 3119547 	Casting the datetime global variable as the date incorrectly keeps the timestamp, which causes incorrect results for the date_diff() function - SAP Data Services. This issue has been fixed in this release.
SAP Note 3118953 	Error occurs when trying to connect with OAuth 2.0 - fixed in token processing. This issue has been fixed in this release.
SAP Note 3116387 	SAP Data Services to Google BigQuery loading issue. This issue has been fixed in this release.
SAP Note 3116385 	Cannot import a SOAP Web Services function when a complex type is defined in the SOAP Header. This issue has been fixed in this release.

Issue ID	Description
SAP Note 3116353 	Support additional connect attributes for SQL Server datastore. This issue has been fixed in this release.
SAP Note 3116337 	Unexpected characters in error messages. This issue has been fixed in this release.
SAP Note 3115817 	Wrong data handling for MySQL "unsigned int" columns. This issue has been fixed in this release.
SAP Note 3114878 	Open connection retry is not considering proper error code. This issue has been fixed in this release.
SAP Note 3114469 	SAP Cloud Integration for data services Agent on SuSE 12 SP4, ./dsod_stop.sh does not stop all processes. This issue has been fixed in this release.
SAP Note 3114132 	SQL Anywhere issues when using multiple databases on the same server
SAP Note 3112156 	Random access server crash on AIX. This issue has been fixed in this release.
SAP Note 3111862 	Table reader long column with NULL constant mapping issue. This issue has been fixed in this release.
SAP Note 3111656 	Set up Windows AD single sign-on (SSO) for SAP Data Services Management Console and the use Constrained Delegation SSO fails. This issue has been fixed in this release.
SAP Note 3110973 	Access Violation in Global Address Cleanse - Data Services. This issue has been fixed in this release.
SAP Note 3109425 	Incorrect syntax near the keyword 'AND' when exporting job in Object Promotion - SAP Data Services 4.2. This issue has been fixed in this release.
SAP Note 3097210 	Teradata regular load job fails with the error, "String data truncated while performing conversion". This issue has been fixed in this release.
SAP Note 3093674 	Incorrect code when using the varchar 256 data type to read from an Amazon Redshift database table in Data Services - SAP Data Services 4.2. This issue has been fixed in this release.
SAP Note 3092317 	Data Services Job Server was deleted after running a repair. This issue has been fixed in this release.
SAP Note 3089229 	Data Services jobs that are loading to a HANA target hang after both HANA and Data Services are upgraded - SAP Data Services 4.2 SP14. This issue has been fixed in this release.
SAP Note 2729597 	Regardless of the authorization scheme, the REST datastore saves everything that is available in the UI which leads to incorrect ATL generation. This issue has been fixed in this release.

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