



Talend Open Studio for Data Integration

Release Notes

6.0.1

Adapted for v6.0.1. Supersedes previous releases.

Publication date September 10, 2015

Copyright

This documentation is provided under the terms of the Creative Commons Public License (CCPL).

For more information about what you can and cannot do with this documentation in accordance with the CCPL, please read: <http://creativecommons.org/licenses/by-nc-sa/2.0/>

Notices

Talend is a trademark of Talend, Inc.

All brands, product names, company names, trademarks and service marks are the properties of their respective owners.

License Agreement

The software described in this documentation is licensed under the Apache License, Version 2.0 (the "License"); you may not use this software except in compliance with the License. You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0.html>. Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

This product includes software developed at AOP Alliance (Java/J2EE AOP standards), ASM, Amazon, AntLR, Apache ActiveMQ, Apache Ant, Apache Axiom, Apache Axis, Apache Axis 2, Apache Batik, Apache CXF, Apache Chemistry, Apache Common Http Client, Apache Common Http Core, Apache Commons, Apache Commons Bcel, Apache Commons JXPath, Apache Commons Lang, Apache Derby Database Engine and Embedded JDBC Driver, Apache Geronimo, Apache Hadoop, Apache Hive, Apache HttpClient, Apache HttpComponents Client, Apache JAMES, Apache Log4j, Apache Lucene Core, Apache Neethi, Apache POI, Apache ServiceMix, Apache Tomcat, Apache Velocity, Apache WSS4J, Apache WebServices Common Utilities, Apache Xml-RPC, Apache Zookeeper, Box Java SDK (V2), CSV Tools, DataStax Java Driver for Apache Cassandra, Ehcache, Ezmorph, Ganymed SSH-2 for Java, Google APIs Client Library for Java, Google Gson, Groovy, Guava: Google Core Libraries for Java, H2 Embedded Database and JDBC Driver, Hector: A high level Java client for Apache Cassandra, Hibernate Validator, HighScale Lib, HsqlDB, Ini4j, JClouds, JLine, JSON, JSR 305: Annotations for Software Defect Detection in Java, JUnit, Jackson Java JSON-processor, Java API for RESTful Services, Java Agent for Memory Measurements, Jaxb, Jaxen, Jettison, Jetty, Joda-Time, Json Simple, LightCouch, MetaStuff, Mondrian, OpenSAML, Paracel JDBC Driver, PostgreSQL JDBC Driver, Resty: A simple HTTP REST client for Java, Rocoto, SL4J: Simple Logging Facade for Java, SQLite JDBC Driver, Simple API for CSS, SshJ, StAX API, StAXON - JSON via StAX, The Castor Project, The Legion of the Bouncy Castle, W3C, Woden, Woodstox: High-performance XML processor, Xalan-J, Xerces2, XmlBeans, XmlSchema Core, Xmlsec - Apache Santuario, Zip4J, atinject, dropbox-sdk-java: Java library for the Dropbox Core API, google-guice. Licensed under their respective license.

Table of Contents

System Requirements	1
Data Integration: New Features	2
1. Memory test execution	2
2. Enhanced look and feel and user experience	2
3. Java 8 support	2
4. Components updates	2
Data Integration: Deprecated, Removed and Hidden Items	5
1. Deprecated Items	5
2. Removed/Hidden Items	5
Data Integration: Bug Fixes / Change Log	6
1. Bug Fixes	6
Data Integration: Known Issues	7
1. Installation on recent versions of Mac OS X with Gatekeeper	7
2. Collation limitation with Access	7
Data Integration: Hints and Notes	8
1. JDK Required to Build Jobs/Routes	8
Documentation	9
1. Talend Help Center	9
2. Videos	9
3. New documents	9
4. Revised documents	9
5. Open issues	10

System Requirements

Users should refer to the *Talend Installation and Upgrade Guide* on the **Talend Help Center** (<http://help.talend.com>) for more information on Installation and System Requirements.

Data Integration: New Features

1. Memory test execution

Users can now monitor the JVM memory consumption and CPU usage via curve graphs during Job execution.

2. Enhanced look and feel and user experience

The Studio has undergone a number of changes to enhance the look and feel and user experience.

1. The Studio user interface and component icons have been redesigned for enhanced look and feel.
2. The Studio login process has been streamlined:
 - For the first startup, fewer steps are required.
 - After the first start up, users can directly open the same project without seeing the login dialog.
3. Users can now drag and drop an output component from an input one on the design workspace.
4. Enhanced component search:
 - Users can now search for a component by providing a descriptive phrase as the search keywords, without having to know the component name. The maximum number of entries in the search result is configurable.
 - The Palette now shows recently used components to ease component search in Job design. The maximum number of components shown on the **Recently Used** list is configurable.

3. Java 8 support

The Studio now supports Java 8 only.

4. Components updates

4.1. Databases

4.1.1. Teradata SCD

Teradata SCD (Slowly Changing Dimensions) is now supported through the new component tTeradataSCD.

4.1.2. Vertica

VerticaELT and SQL Templates

1. Vertica ELT is now supported through the following new components:

- tELTVerticaInput
- tELTVerticaMap
- tELTVerticaOutput

2. SQL Templates for Vertica are now supported.

VerticaBulk

tVerticaBulkExec and tVerticaOutputBulkExec now support bulk-loading data to a Vertica database based on the defined schema columns.

4.1.3. Batch mode

The following components now support batch mode when using an existing connection:

tAS400Output, tAmazonAuroraOutput, tAmazonMysqlOutput, tAmazonOracleOutput, tDB2Output, tFirebirdOutput, tGreenplumOutput, tInformixOutput, tIngresOutput, tInterbaseOutput, tJDBCOutput, tMSSqlOutput, tMysqlOutput, tNetezzaOutput, tOracleOutput, tParAccelOutput, tPostgresPlusOutput, tPostgresqlOutput, tRedshiftOutput, tSQLiteOutput, tSybaseOutput, tTeradataOutput, tVectorWiseOutput, tVerticaOutput.

4.1.4. Oracle

tOracleSP now supports mapping the source database type to XMLTYPE.

4.1.5. PostgreSQL

1. PostgreSQL v9.x.x is now supported.

4.2. Cloud components

4.2.1. Salesforce

1. tSalesforceWaveBulkExec and tSalesforceWaveOutputBulkExec, which let you load data to Salesforce Analytics Cloud, have been added to the Studio.

2. tSalesforceWaveBulkExec and tSalesforceWaveOutputBulkExec support reusing an existing connection and retrieving the upload status.

4.2.2. Netsuite

1. tNetsuiteInput and tNetsuiteOutput, which let you read/write data from/to NetSuite, have been added to the Studio.
2. tNetsuiteOutput supports retrieving data rows with errors via a Reject row connection.

4.2.3. Marketo

1. tMarketoInput, which supports three lead selector types when retrieving lead records from Marketo.
2. tMarketoOutput, which supports providing the status (CREATED, UPDATED, FAILED) and the optional error text.

4.2.4. Others

1. Four tRedshift* load/unload components, which let you load/unload data from/to Amazon S3.
2. Seven tGoogleDrive* components, which let you create, upload, download, copy, delete, move and list files and folders on Google Drive.
3. Six tAmazonAurora* components, which let you read/write data from/to Amazon Aurora databases.
4. tS3Put now supports server-side encryption.

4.3. Messaging components

1. Static transport discovery mechanism is now supported for the ActiveMQ server in tMomXXX components.
2. tMomInput and tMomRollback now support backouting the messages to backout queue when the backout count reaches the configured threshold.

Data Integration: Deprecated, Removed and Hidden Items

1. Deprecated Items

The following features are deprecated in the current release. Deprecated features are no longer recommended for use and may cease to exist in future versions of the product.

- Due to Java 8 limitations the following components are deprecated and thus hidden from the Palette by default:
 - tAccessBulkExec
 - tAccessOutputBulkExec
 - tDBInput
 - tDBOutput
 - tDBSQLRow

2. Removed/Hidden Items

The following features were deprecated in previous releases and removed from the current version:

- Export types of a Job:
 - Petals ESB
 - JBoss ESB

The following features are no longer supported in version 6.0 and onwards due to Java 8 limitations:

- ODBC driver support has been removed. The ODBC driver in Access connections ported from an earlier Studio version will be automatically migrated to JDBC.
- By default, the Generic ODBC and Microsoft SQL Server (ODBC) options are hidden in the database connection wizard. Users can create Generic ODBC and Microsoft SQL Server (ODBC) connections only after importing such connections created in an earlier Studio version, and they work only with Java 7.

Data Integration: Bug Fixes / Change Log

1. Bug Fixes

In addition to the above new features a number of minor improvements within the entire product and significant bug fixes have been made.

See the corresponding Change Log on our bug tracking system for more details on the individual issues:

- <https://jira.talendforge.org/secure/ReleaseNote.jspa?projectId=11430&version=18414>

Data Integration: Known Issues

We encourage you to consult the JIRA bug tracking tool for a full list of open issues:

<https://jira.talendforge.org/issues/?filter=20953>.

Note that this list shows issues from both Talend's Community and Subscription products.

1. Installation on recent versions of Mac OS X with Gatekeeper

Users with a recent version of Mac OS X may need to update their Gatekeeper settings to install Talend products. Gatekeeper is available from OS X 10.7.5.

To do so:

1. Click the Apple icon, and then click **System Preferences**.
2. Under **System Preferences**, click **Security & Privacy**.
3. Under **Security & Privacy**, click the **General** tab.
4. Click the lock icon next to **Click the lock to make changes**, and then identify yourself using the user name and password for an account with administrator rights. Only administrators can change the security settings.
5. Under **Allow apps download from**, select the **Anywhere** radio button then confirm your choice in the dialog box that opens.
6. Close all windows, so that your Mac automatically locks the **Security & Privacy** settings for you again.
7. Install Talend Studio (or whatever other executable you want to install) by following the usual installation procedure. Note that, when you double click the **Talend-Studio-macosx-cocoa.app** file, you will see a warning saying that it is an application downloaded from the Internet, but if you click **Open**, your Mac should let you install it without further issues.
8. Once you have completed the installation process, you can repeat the above steps to return your **Security & Privacy** settings to their previous value if you want.

2. Collation limitation with Access

When working with Java 8, *Talend Studio* supports only the General collation mode of Access for the time being.

Data Integration: Hints and Notes

1. JDK Required to Build Jobs/Routes

To build Jobs or Routes, you need to install a full JDK rather than a JRE. If the system fails to initialize automatically with a JDK, you can define which JDK to use by selecting Window > Preferences > Java > Installed JREs.

Documentation

1. Talend Help Center

Find out more about how to get the most out of your Talend products on the Talend Help Center: <http://help.talend.com>.

2. Videos

From within the Studio, you can now directly access the videos hosted in Talend Help Center relating to new features.

- For components, related videos are available from the F1 help view of this component.
- For other features, related videos are available in the help view of the wizard for the feature.

Note that not every feature has related videos in Talend Help Center and for this reason, not all the features have this type of access.

3. New documents

The following new documents have been added in this release:

- Talend Open Studio for Data Integration Getting Started Guide, Talend Open Studio for Data Quality Getting Started Guide, Talend Open Studio for ESB Getting Started Guide, and Talend Open Studio for MDM Getting Started Guide.

These Getting Started Guides walk users through their first steps with the product, including launching the Studio and setting up their first projects, and provide some basic examples.

- Talend Open Studio Big Data Getting Started Guide now has completely new content, and its existing content has been moved to the Talend Open Studio for Big Data User Guide.

4. Revised documents

In addition to updates to the content across the documentation set, the following specific documentation changes have been made:

- In the Talend Components Reference Guide, the MapReduce components, the Spark components and the Storm components each have their specific table of properties.
- For all community products, the previous Installation and Upgrade Guides have been renamed as Installation and Migration Guides.
- The contents of the previous Talend Open Studio for Big Data Getting Started Guide are now included in the Talend Open Studio for Big Data User Guide.

- The Talend ESB Getting Started Guide that was available in previous versions has been renamed Talend ESB Hands-on Guide.

5. Open issues

We encourage you to consult the JIRA bug tracking tool for a full list of open issues:

<https://jira.talendforge.org/issues/?filter=18375>