



Talend Open Studio for ESB

Release Notes

6.1.2

Adapted for v6.1.2. Supersedes previous releases.

Publication date September 13, 2016

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 and Talend ESB are trademarks of Talend, Inc.

Apache CXF, CXF, Apache Karaf, Karaf, Apache Camel, Camel, Apache Maven, Maven, Apache Syncope, Syncope, Apache ActiveMQ, ActiveMQ, Apache Log4j, Log4j, Apache Felix, Felix, Apache ServiceMix, ServiceMix, Apache Ant, Ant, Apache Derby, Derby, Apache Tomcat, Tomcat, Apache ZooKeeper, ZooKeeper, Apache Jackrabbit, Jackrabbit, Apache Santuario, Santuario, Apache DS, DS, Apache Avro, Avro, Apache Abdera, Abdera, Apache Chemistry, Chemistry, Apache CouchDB, CouchDB, Apache Kafka, Kafka, Apache Lucene, Lucene, Apache MINA, MINA, Apache Velocity, Velocity, Apache FOP, FOP, Apache HBase, HBase, Apache Hadoop, Hadoop, Apache Shiro, Shiro, Apache Axiom, Axiom, Apache Neethi, Neethi, Apache WSS4J, WSS4J are trademarks of The Apache Foundation. Eclipse Equinox is a trademark of the Eclipse Foundation, Inc. Hyperic is a trademark of VMware, Inc. Nagios is a trademark of Nagios Enterprises, LLC.

All other 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, AntLR, Apache ActiveMQ, Apache Ant, Apache Avro, Apache Axiom, Apache Axis, Apache Axis 2, Apache Batik, Apache CXF, Apache Camel, 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 Pig, Apache Qpid-Jms, 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, HsqlDB, Ini4j, JClouds, JLine, JSON, JSR 305: Annotations for Software Defect Detection in Java, JUnit, Jackson Java JSON-processor, Java API for RESTful Services, Jaxb, Jaxen, Jettison, Jetty, Joda-Time, Json Simple, 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, Talend Camel Dependencies (Talend), The Castor Project, The Legion of the Bouncy Castle, W3C, Woden, Woodstox : High-performance XML processor, XML Pull Parser (XPP), 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
ESB: New Features	2
1. Studio	2
2. Runtime	2
ESB: Deprecated and Removed Items	4
1. Deprecated Items	4
2. Removed Items	4
ESB: Bug fixes and change log	5
ESB: Known Issues	6
1. Studio	6
2. Runtime	7
ESB: Known Limitations	8
1. Studio	8
2. Runtime	9
ESB: Migration V6.0.x to 6.1.x	10
1. Studio	10
2. Runtime	10
3. Compatibility notes	10
ESB: Hints and Notes	11
1. Studio	11
2. Runtime	11
Documentation	12
1. Talend Help Center	12
2. Videos	12
3. Open issues	12
Reporting Defects and Issues	13

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.

ESB: New Features

1. Studio

1.1. General

- When you launch the Studio for the first time or select **Quick Tour** from the **Help** menu, a Quick Tour presentation is displayed, introducing you step by step the major functional parts of the Studio.
- The ESB Demo Project has been updated.

1.2. Data Services (REST)

- The HTTP PATCH verb is now supported in the tRestRequest and the tRestClient components.
- The HTTP Digest Authentication is now supported in the tRestClient component.
- Continues Integration and REST Service-Job related test case is now supported for REST Services.

1.3. Data Services (SOAP)

- Enhanced tRESTRRequest component to support streaming output.
- Continues Integration and Operation-Job related test case is now support for SOAP Services.

1.4. Route Builder

- New c SetProperty component to set message exchange properties.
- New cWMQ component and enhanced cMQConnectionsFactory to support specifically some native use cases in addition to cJMS for IBM WebSphere MQ 7.5.
- JXPath expression language is now supported in the mediation components.
- The mediation component palette categories changed for a better organization of the components.

2. Runtime

- XA Transaction support for limited/selected JPA and JMS use cases and products.
- Apache Karaf is upgraded to 4.0.3.

- Apache CXF is upgraded to 3.1.4.
- Apache ActiveMQ is upgraded to 5.11.3.
- Apache Camel is upgraded to 2.15.4.
- Hibernasap is upgraded to 1.2.0. (see the `add-ons\datasource\sap` folder of the Talend ESB package)

ESB: Deprecated and Removed Items

1. Deprecated Items

There are no deprecated features in this release.

2. Removed Items

There are no removed features in this release.

ESB: Bug fixes and change log

In addition to the above new features a number of 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:

- Talend ESB 6.1.0 Release Notes Report: <https://jira.talendforge.org/secure/ReleaseNote.jspa?projectId=10186&version=18903>.
- Talend ESB 6.1.1 Release Notes Report: <https://jira.talendforge.org/secure/ReleaseNote.jspa?projectId=10186&version=18904>.
- Talend ESB 6.1.2 Release Notes Report: <https://jira.talendforge.org/secure/ReleaseNote.jspa?version=20318&projectId=10186>

Please note that this list also includes fixes to Talend ESB products. If in doubt please check the **Edition** field of the issue you are interested in to see if it applies to *Talend ESB only* or if the component is a *Talend Subscription* component in general (for example, Talend Administration Center).

As Talend Open Studio for ESB is based on the unified Talend Open Studio, you will also find general changes of the Studio, which apply to all Talend Open Studio products, in Talend DI and UP (TDI /TUP) JIRA Projects.

ESB: Known Issues

We encourage you to consult the JIRA bug tracking tool for a full list of Known Issues. This report of Known Issues is intended to highlight issues which might be of broader interest or impact for easier accessibility. The report does not represent the full list of known bugs.

<https://jira.talendforge.org/issues/?filter=24361>.

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

1. Studio

1.1. External JAR file dependencies declared in cConfig are not exported [TESB-4219]

Symptoms: In Talend ESB Studio Route designer, when an external JAR is referenced in cConfig component it is correctly used when a Route is started inside Talend Studio and also for exporting the route as a standalone service or OSGi bundle. However it does not get exported when doing "Export as Item".

Workaround: As a workaround, you can copy JAR files manually and re-associate them in cConfig after the route is imported in your workspace.

1.2. Route Builder beans cannot be organized in packages [TESB-3701]

Symptoms: Beans in a route build can be used to add Java code for the route builder routes, however all beans are currently located in one single package.

Workaround: None

1.3. XML payload content is not fully displayed in trace or debug mode

Symptoms: When starting a Data Service Job in trace/debug mode, the content of the Document fields of the flows is not displayed fully - only the first line of the XML payload is shown.

Workaround: If you need to see the XML data you can place a tLogRow component anywhere in your models. Keep in mind that Talend Studio also allows you to disable this component, so that you can enable it for testing inside Talend Studio, but disable it for export or publishing.

2. Runtime

2.1. By default, the Runtime cannot find rent-a-car artifacts in the local Maven repository [\[TESB-17941\]](#)

Symptoms: With `org.ops4j.pax.url.mvn.globalUpdatePolicy=always`, the karaf will always check the remote repositories to compare the artifacts to the local Maven repository. This may cause an exception when you attempt to install the rent-a-car artifacts.

Workaround: Manually add the path to your local Maven repository to the list of repositories in `container/etc/org.ops4j.pax.url.mvn.cfg`.

For example:

```
org.ops4j.pax.url.mvn.defaultRepositories=\
  file:${karaf.home}/${karaf.default.repository}@id=system.repository@snapshots, \
  ....
  file:c:/Users/..../.m2/repository
```

2.2. OSGi Container fails to log messages that were sent to `system.err` / `system.out` [\[TESB-11603\]](#)

Symptoms: In the `tesb.log` file you will not see any messages which were sent via `system.err` or `system.out`.

Workaround: If you encounter this issue, you can run the same scenario in Console mode as the `system.err` and `system.out` will show up on the console.

ESB: Known Limitations

This section contains limitations on how you use the product that you need to be aware of.

1. Studio

1.1. Only WS-I Basic Profile compliant WSDL documents are supported

All WSDL service descriptions should be at least WS-I Basic Profile compliant if you want to use them in the ESB Studio. See <http://ws-i.org/deliverables/workinggroup.aspx?wg=basicprofile> for more information. Other WSDL documents might also work but they are more likely to fail.

1.2. Activity Monitoring Console / Components only with limitations

The Activity Monitoring Console as provided in the Studio and the related Dashboard screens can be used to visualize tLogCatcher, tStatCatcher and tFlowMeterCatcher events. In Talend Enterprise ESB there are some limitations that you need to consider for these components and the related features in the Studio:

- tLogCatcher can be used in Data Services and Jobs, but the tLogCatcher component must be explicitly included in the Job and the use of a database for logging is recommend in this environment (Talend Runtime - OSGi Container).
- tStatCatcher and tFlowMeterCatcher can be used only in Jobs which are not defined as **Keep Listening** but not in Data Services (where the operations are implemented in **Keep Listing** Jobs). Also these components must be explicitly included in the Job and the use of a database for logging is recommended in this environment (Talend OSGi container).
- tLogCatcher, tStatCatcher and tFlowMeterCatcher by the entire Activity Monitoring Console feature cannot be used within Routes developed using the Route designer with the Studio (Mediation Perspective).
- Note that you can use the AMC view in Talend Enterprise ESB Studio but the related AMC Web-Console in TAC is only provided with a license which contains the DI Product (for example, Talend Platform for Data Services license).

1.3. tWaitForXXX components are not supported in Talend ESB Data Services and tRoute Jobs

The tWaitForFile, tWaitForSqlData and tWaitForSocket components are not supported to be used in ESB Data Services (REST&SOAP) or in tRouteInput based Jobs (cTalendJob use cases).

2. Runtime

There are no known limitations at this time.

ESB: Migration V6.0.x to 6.1.x

Note: this section provides details relevant for the ESB migrating from V6.0.x to 6.1.x

1. Studio

The ESB Studio requires a new installation. You need to export your 6.0.x projects from your local 6.0.x workspace and import the project with the ESB Studio 6.1.x.

Studio projects can be used without any manual migration. When the Data Services, Jobs and Routes are opened in the ESB Studio, the components that need changes will be upgraded automatically .

2. Runtime

The ESB Runtime (OSGi Container) requires a new installation. See also [Compatibility notes](#) for details.

3. Compatibility notes

If you want to run your existing Data Services or Routes on the new 6.1.x Container, you need to re-build, re-publish and re-deploy the Studio models to use the latest code changes.

We support the mixed installation and use of Talend ESB container 6.0.1 and 5.6.2 with Data Services and Routes generated by Talend ESB Studio 6.0.1/5.6.2 and the Talend ESB Infrastructure Services in 6.1.x.

ESB: Hints and Notes

1. Studio

1.1. cAMQP requires the Client ID to be set

When you use the cAMQP component in the Route Builder, make sure you always set the Client ID to a unique value which is not used in other Routes (the `clientId` header in cAMQP advanced settings.) If more than one cAMQP based Routes are executed in the same Talend Runtime container and the Client ID is not set, you will see some exceptions like:

```
org.springframework.jms.UncategorizedJmsException: Uncategorized exception occurred during JMS processing; nested exception is javax.jms.JMSEException: Broker: localhost - Client: t1nd-spappala(6968):2 already connected from tcp://127.0.0.1:49729
```

2. Runtime

2.1. Copying an ESB Container might lead to unexpected behaviour

A Talend Runtime container which was started once can't be copied to a different directory or machine. We recommend to always use the container that is shipped with the product.

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. 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>

Reporting Defects and Issues

As a customer of Talend with a valid support contract, you can use our Talend Online Helpdesk or you can contact our customer support by phone and e-mail as stated in your contract.

Often the following information is needed and would help us to more easily evaluate your issue:

- Product and Version which you used (for example, Talend Open Studio for ESB 6.1.2)
- Operating System, for example Windows Server 2008 R2 SP1 (64bit)
- Version of Java Platform JDK / JRE in use (for example, ORACLE JDK 1.8.0_60).
- Log files and/or screenshots

Also, in order to ensure that the technical support team has sufficient information to help you, describe at least the following in detail:

- your actions up to the point when the problem occurred
- the results you expected
- the ensuing results that differ from your expected results.

Note: in addition to our support helpdesk, you can also use our community support tools:

- The Talend User's Forum at [Talend Forum](#).
- You can also look into the [Talend Bug Tracker](#).
- Just keep in mind that only cases you create via one of the Talend Support channels in our Talend Support Helpdesk are treated under the service level agreements we provided in the related contract to you.