



Talend Open Studio for ESB

Release Notes

6.3.2

Adapted for v6.3.2. Supersedes previous releases.

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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. Data Services (REST)

- `tRESTRRequest` is changed to use the newer Metric Feature of Apache CXF, instead of the `PerformanceCounter` one used before. `tRESTClient` is enhanced related to this to have one more advanced parameter, `Enable WebClient Operation Reporting`, which provides a more specific configuration for how a RESTful Service URL should be treated for the JMX Metric collection.
- `tRESTClient` now supports `multipart/mixed` as accept type.

1.2. Data Services (SOAP)

- `tESBConsumer` is enhanced to be able to set HTTP Headers explicitly for a request, and also to provide the HTTP Response Code (`HTTP_RESPONSE_CODE`) and the HTTP Headers (`HTTP_HEADERS`) of the response as a `after call` component variable.
- `tESBConsumer` has a new advanced setting to `Enable/Disable Chunking`.

1.3. Route Builder

- New `cAWSConnection` component to connect to Amazon Web Services for data storage and retrieval.
- New `cAWSS3` component to store and retrieve objects to/from Amazon's Simple Storage Service (S3).
- New `cAWSSSES` component to send emails with Amazon's Simple Email Service (SES).
- New `cAWSSNS` component to send messages to Amazon's Simple Notification Service (SNS).
- New `cAWSSQS` component to send and receive messages to/from Amazon's Simple Queue Service (SQS).
- `cKafka` is updated to the new `camel-kafka` Java Client based component, and provides by this a more optimal use within Routes to connect to Apache Kafka brokers.
- `cJavaDSLProcessor` is improved to be more flexible. The `id()` is not set explicitly anymore, therefore the `cJavaDSLProcessor` can be used more flexibly than before.

2. Runtime

- Apache Karaf is upgraded to 4.0.7 (Including fix for `LDAPLoginModule` [\[KARAF-4892\]](#)).
- Apache CXF is upgraded to 3.1.7.

- Apache ActiveMQ is upgraded to 5.14.1 Broker and 5.14.2 Web Console.
- Apache Camel is upgraded to 2.17.3.

ESB: Deprecated and Removed 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.

- Support for Spring Dynamic Modules on Talend Runtime

The Spring Dynamic Modules on Talend Runtime is deprecated from version 6.3 onwards.

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 6.3.0 Release Notes Report: <https://jira.talendforge.org/secure/ReleaseNote.jspa?projectId=10186&version=20530>.
- Talend ESB 6.3.1 Release Notes Report: <https://jira.talendforge.org/secure/ReleaseNote.jspa?projectId=10186&version=20531>.
- Talend ESB 6.3.2 Release Notes Report: <https://jira.talendforge.org/secure/ReleaseNote.jspa?projectId=10186&version=21964>.

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=26286>.

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. 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. Java PSU not supported

Talend is only supported on Java CPS Versions, not Java PSU.

Some users reported problems using Talend Studio with Java PSU versions (such as jdk8_u92), but when reverting to a Java CPS Version (such as jdk8_u91) the problem was resolved.

See also: <http://www.oracle.com/technetwork/java/javase/cpu-psu-explained-2331472.html>.

1.2. 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.

1.3. 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 (including the use of the tStaCatcher option provided in the Advanced Settings of some Components) 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, which means Jobs called by cTalendJob are not supported to use these components at all.
- 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).

1.4. 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).

1.5. tRunJob is supported with limitations

The tRunJob component is supported with limitations, which means that only S4 (Minor) support cases are accepted and no patches are provided. If you use tRunJob within Data Services and Routes (with cTalendJob), support is provided on a "best effort" basis only. In most cases, there are class loading issues which can sometimes be resolved but not always.

This is because tRunJob is not designed to work in a Service/Route style (ESB) deployment, so regular support is not provided if you decide to use it, even though it may work in many cases. If you used tRunJob in the past, it is recommended to change your Job Design to use Joblets instead.

For DI and non-ESB use cases, it is still a valuable component and will have full support as before.

Additionally, the **Use dynamic job** option is not supported within ESB Routes or Data Services at all.

2. Runtime

There are no known limitations at this time.

ESB: Migration V6.2.x to 6.3.x

Note: this section provides details relevant for the ESB migrating from V6.2.x to 6.3.x

1. Studio

The ESB Studio requires a new installation. You need to export your 6.2.x projects from your local 6.2.x workspace and import the project with the ESB Studio 6.3.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 6.3.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 6.2.x/6.1.x/6.0.x/5.6.x/5.5.x with Data Services and Routes generated by Talend ESB Studio 6.2.x/6.1.x/6.0.x/5.6.x/5.5.x and the Talend ESB Infrastructure Services in 6.3.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 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 Data Stewardship User Guide* and *Talend Data Stewardship Getting Started Guide* are two new guides that accompany the new product, *Talend Data Stewardship*.

They are both available in PDF format and online at https://help.talend.com/search/books?filters=EnrichPlatform~%2522Talend+Data+Stewardship%2522*EnrichVersion~%25226.4%2522.

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 Software Development Life Cycle Best Practices Guide*, major changes have been made to the documentation of the Talend CI Builder, including how to generate sources locally, how to manage POM files, artefact versions, and how to filter executions on specific items.

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>

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 Data Fabric 6.3.2)
- 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.