



Talend Open Studio for ESB

Release Notes

6.4.1

Adapted for v6.4.1. 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. General

- The Studio now supports a local Talend Runtime in the Studio to test Routes and Data Service Jobs easily within the OSGI Runtime environment. (The local Talend Runtime is set via **Window > Preferences > Talend > Run/Debug > ESB Runtime** in the Studio.)

1.2. Data Services (REST)

There are no new features in this release.

1.3. Data Services (SOAP)

There are no new features in this release.

1.4. Route Builder

- The cCXF component is renamed cSOAP.
- The cCXFRS component is renamed cREST.
- The cTalendJob component is enhanced with a new option **Fast Job Invocation** in the advanced settings to bind the life cycle of the embedded Talend Job to the start and stop state changes of the connected Camel Endpoint.

2. Runtime

- Apache Karaf is upgraded to 4.1.1.
- Apache CXF is upgraded to 3.1.11.
- Apache ActiveMQ is upgraded to 5.14.5.
- Apache Camel is upgraded to 2.17.6.

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 6.4.0 Release Notes Report: <https://jira.talendforge.org/secure/ReleaseNote.jspa?projectId=10186&version=21102>.
- Talend ESB 6.4.1 Release Notes Report: <https://jira.talendforge.org/secure/ReleaseNote.jspa?projectId=10186&version=22022>.

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=25953>.

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

1. Studio

1.1. 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

1.2. 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. General

All ESB use cases (Routes, REST and SOAP Data Services) require Java 8 now. Talend Open Studio for ESB (TOS4ESB) and Talend ESB Standard Edition (OSGi Runtime) only support Java 8.

2. Studio

2.1. 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>.

2.2. 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.

2.3. 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).

2.4. tRunJob is supported with limitations

The **tRunJob** can be used in general within Data Services and Routes (with cTalendJob), but it is recommended to avoid it and consider some specific testing upfront if you use it. Additionally, the **Use dynamic job** option is not supported within ESB Routes or Data Services.

3. Runtime

There are no known limitations at this time.

ESB: Migration V6.3.x to 6.4.x

Note: this section provides details relevant for the ESB migrating from V6.3.x to 6.4.x

1. Studio

The ESB Studio requires a new installation. You need to export your 6.3.x projects from your local 6.3.x workspace and import the project with the ESB Studio 6.4.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 6.4.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 6.3.x/6.2.x/6.1.x/6.0.x/5.6.x with Data Services and Routes generated by Talend ESB Studio 6.3.x/ 6.2.x/6.1.x/6.0.x/5.6.x and the Talend ESB Infrastructure Services in 6.4.x.

The Service Registry 6.4.1 migration from older versions requires an export of all artifacts in the older version Service Registry (using the TAC Service Registry UI or the related `tregistry:export` command). Then this full export can be used to import the Service Registry content into a new Service Registry installation done for 6.4.1.

Note that due to a change in the `container/etc/org.talend.esb.job.saml.policy` file to use an SHA2 instead of SHA1 algorithm suite, if you run on previous versions of Talend Runtime older than 6.4.1, you need an updated policy using the Basic128Sha256 AlgorithmSuite. This only affects clients who need to communicate with a 6.4.1 provider and who use the design time SAML Token authentication option (tESBConsumer > Authentication > SAML Token). Clients and 6.4.1 provider that use the Service Registry are not affected by this change as they get the policies from the Service Registry.

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>.

Talend Help Center has undergone a major refurbishment for this release.

2. 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 6.4.1)
- 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.