



Talend Open Studio for Data Quality Installation and Upgrade Guide for Linux

7.2.1

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The content of this document is correct at the time of publication.

However, more recent updates may be available in the online version that can be found on [Talend Help Center](#).

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Talend Open Studio for Data Quality: Prerequisites

Preparing your installation

Software packages

This page details the software packages you need to download to install your Talend product.

In this page:

- YYYYMMDD_HHmm corresponds to the package timestamp
- A.B.C. corresponds to package version number (Major. Minor. Patch.)

The software modules must be all in the same versions/revisions. This means that both YYYYMMDD_HHmm and A.B.C must match on both client side and server side.

Manual installation software packages

File name	Description
Talend-Studio-YYYYMMDD_HHmm-VA.B.C.zip	Studio IDE (GUI) To download it, go to this page

Community and Support

There are several ways to get help and support for your Talend installation:

- [Official Talend Documentation](#). Here you can find everything to help you install and use your Talend product.
- [Talend Community](#). This is the place where you can ask questions to the community, and get answers.

Hardware requirements

Before installing your Talend product, make sure the machines you are using meet the following hardware requirements recommended by Talend.

Memory and disk usage heavily depends on the size and nature of your Talend projects. However, in summary, if your Jobs include many transformation components, you should consider upgrading the total amount of memory allocated to your servers, based on the following recommendations.

Memory usage

Product	Client/Server	Memory requirements (minimum-recommended)	Note
Talend Studio	Client	3GB – 4GB	

Note: Depending on the number of executed processes running on a module, you may need to increase the available memory. If you have several products installed on the same host, Talend recommends to use an i7 CPU with 8 logical processors.

Disk space requirements

Product	Client/Server	Required disk space for installation	Required disk space for use
Talend Studio	Client	3GB	3+GB

ulimit settings on Unix systems

To improve Talend server modules and Unix system performance, you can configure the system resources (ulimit) according to the needs of the user or group. These settings are defined in the `/etc/security/limits` file.

ulimit syntax

```
ulimit <limit type> <item> <value>
```

There are two ulimit types: hard and soft.

- The soft limit is the effective resource limit. The user can increase the soft limit up to the value of the hard limit.
- The hard limit is the maximum resource limit. This value is set by the superuser and cannot be exceeded.

Note:

If you do not specify a limit type, the hard limit type is used by default.

The following ulimit settings are important for your Talend deployment.

item	description	flag	value
fsize	Maximum file size	-f	KB
nofile	Maximum number of open files	-n	
stack	Maximum stack size	-s	KB
cpu	Maximum CPU time	-t	minutes
nproc	Maximum number of processes/threads	-u	

Note:

You can list all available ulimit settings with the following command: `ulimit -a`

Example

```
ulimit -H -n 2000
```

This command sets a hard limit of 2000 open files per process.

For complete details on the ulimit settings, see the [SS64 reference guide for ulimit](#).

Software requirements

Compatible Operating Systems

This page details the recommended and supported Operating Systems for Talend products.

In the following documentation:

- recommended: designates an environment recommended by Talend based on our experiences and customer usage;
- supported: designates a supported environment for use with the listed component or service;
- supported with limitations: designates an environment that is supported by Talend but with certain conditions explained in notes.

Talend Studio

Support type	Operating System (64-bit)	
Recommended	Linux	Ubuntu 18.04 LTS
	Windows	Microsoft Windows 10
Supported	Linux	Ubuntu 16.04 LTS
		Red Hat Enterprise Linux Server/ CentOS 6 / 7
	Windows	Windows Server on AWS 2012 / 2016 (RTM)
	Mac	Apple macOS 10.13/High Sierra
		Apple macOS 10.12/Sierra
Deprecated	Windows	Microsoft Windows 7 Professional

Compatible Java Environments

The following tables provide information on the recommended Java Environment you should download and install to use your Talend product.

The Compiler Compliance Level corresponds to the Java version used for the Job code generation. This option can be changed in the Studio preferences. For more information, see the Talend Studio User Guide.

Note: All Talend products and associated third-party applications, such as the Hadoop cluster, should use the same Java version for compliance. Before you install or upgrade any associated third-party application, Talend recommends that you check which Java version they support.

In the following documentation:

- recommended: designates an environment recommended by Talend based on our experiences and customer usage;
- supported: designates a supported environment for use with the listed component or service;
- supported with limitations: designates an environment that is supported by Talend but with certain conditions explained in notes.

Studio Java environments

Support type	JRE Version	Note
Recommended	OpenJDK 8	Recommended distribution: Zulu
Recommended	Oracle 8	Studio JDK Compiler Compliance Level 1.8 (default)
Supported	OpenJDK 11	Recommended distribution: Zulu
Supported	Oracle 11	Studio JDK Compiler Compliance Level 11 (default)

Compatible artifact repository

The following table provides information on the supported artifact repository you can use with Talend server modules.

In the following documentation:

- recommended: designates an environment recommended by Talend based on our experiences and customer usage;
- supported: designates a supported environment for use with the listed component or service;
- supported with limitations: designates an environment that is supported by Talend but with certain conditions explained in notes.

Support type	Artifact repository
Recommended	Artifactory 6.8
Supported	Sonatype Nexus 2.15 / 3.15
Supported with limitations	Sonatype Nexus 3.9 <ul style="list-style-type: none"> • You may experience some problems with Nexus 3.9. If this happens, Talend recommends upgrading to Nexus 3.15.

Compatible execution servers

Use the following compatibility matrix to ensure that your execution server version is compatible with Talend Administration Center, Talend CommandLine and Talend Studio versions.

Note that the information contained in this section is valid at the date of publication, but may be subject to change at a later date.

Job Servers (Talend JobServer and Job server in Talend Runtime)

		Job Server	Job Server	Job Server	Job Server	Job Server	Job Server	Job Server
	Version	6.2.x	6.3.x	6.4.x	6.5.x	7.0.x	7.1.x	7.2.x
Talend Administration Center, Talend CommandLine and Talend Studio	6.2.x							
Talend Administration Center, Talend CommandLine and Talend Studio	6.3.x							
Talend Administration Center, Talend CommandLine and Talend Studio	6.4.x							
Talend Administration Center, Talend CommandLine and Talend Studio	6.5.x							
Talend Administration Center, Talend CommandLine and Talend Studio	7.0.x							

		Job Server	Job Server	Job Server	Job Server	Job Server	Job Server	Job Server
	Version	6.2.x	6.3.x	6.4.x	6.5.x	7.0.x	7.1.x	7.2.x
Talend Administration Center, Talend CommandLine and Talend Studio	7.1.x	✓	✓	✓	✓	✓	✓	
Talend Administration Center, Talend CommandLine and Talend Studio	7.2.x	✓	✓	✓	✓	✓	✓	✓

Warning:

When activating SSL and token authentication in Talend Administration Center, only Job Servers that support SSL / token authentication can be used. In this case, Talend Administration Center will not be able to monitor older Job Servers that do not support encrypted communication.

For more information on configuring SSL and authentication for Talend JobServer, see [Configuring SSL transport and authentication on Talend Help Center \(https://help.talend.com\)](https://help.talend.com).

Installing the XULRunner package

On Linux, the XULRunner package is required to run the Studio. The XULRunner package version that is recommended is XULRunner v1.9.2.28.

The supported versions are v1.8.x - 1.9.x and v3.6.x.

Procedure

1. Download XULRunner v1.9.2.28 from [this location](#).
2. Unpack the archive file in the same directory where you unpacked the studio archive, but do not unpack it within the Studio folder.
3. Add the following line at the end of the Studio .ini file that corresponds to your Linux architecture:

```
-Dorg.eclipse.swt.browser.XULRunnerPath=</usr/lib/xulrunner>
```

where </usr/lib/xulrunner> is the XULRunner installation path.

Example

For example, if you have unpacked the Studio in a directory under your user home directory /home/<user>/Talend/, you need to add the following to the .ini file: `-Dorg.eclipse.swt.browser.XULRunnerPath=/home/<user>/Talend/xulrunner/`

Setting up JAVA_HOME

In order for your Talend product to use the Java environment installed on your machine, you must set the JAVA_HOME environment variable.

Procedure

1. Find the folder where Java is installed.

For example:

- /usr/lib/jvm/java-x-oracle
- /usr/lib/jvm/zulu-8/bin

2. Open a terminal.

3. Use the export command to set the JAVA_HOME and Path variables.

For example:

- ```
export JAVA_HOME=/usr/lib/jvm/jre1.8.0_65
export PATH=$JAVA_HOME/bin:$PATH
```
- ```
export JAVA_HOME=/usr/lib/jvm/<zulu_jdk>
export PATH=$JAVA_HOME/bin:$PATH
```

4. Add these lines at the end of the global profiles in the /etc/profile file or in the user profiles in the ~/.profile file.

After changing one of these files you have to log on again.

Installing your Talend Open Studio for Data Quality manually

Installing and configuring your Talend Studio

Unzip the archive

Procedure

1. Download your product from [this page](#).
2. Unzip it.

Editing the memory and JVM settings

To gain in performance at runtime and when launching Talend Studio, proceed as follows: you can edit the memory settings in the `.ini`.

Procedure

1. Edit the `TOS_DQ-linux-gtk-x86_64.ini` file.
2. Edit the memory attributes. For example:

```
-vmargs -Xms512m -Xmx1536m -XX:MaxMetaspaceSize=512m
```

Tip: For big projects, you may need to increase `Xmx` to `4096m`.

For more details, see <http://www.oracle.com/technetwork/java/hotspotfaq-138619.html>.

Launching your Talend Studio

Procedure

Double-click the `TOS_DQ-linux-gtk-x86_64` executable to launch your Talend Studio.

You can also launch your Talend Studio from the terminal using the `TOS_DQ-linux-gtk-x86.sh` file.

If needed, add the execution rights to it using the following command:

```
chmod +x TOS_DQ-linux-gtk-x86.sh
```

Installing external modules

Talend Studio requires specific third-party Java libraries or database drivers (`.jar` files) to be installed to connect to sources and targets.

Those libraries or database drivers, known as external modules, may be required by some of Talend components or by some connection wizards or by both. Due to license restrictions, Talend may not be able to ship some of these external modules within Talend Studio. You need to install them for your Studio to functional properly.

Warning: Make sure that the `-Dtalend.disable.internet` parameter is not present in the Studio `.ini` file or is set to `false`.

When to install external modules

Your Talend Studio will let you know when you need to install external modules and what external modules you need to install.

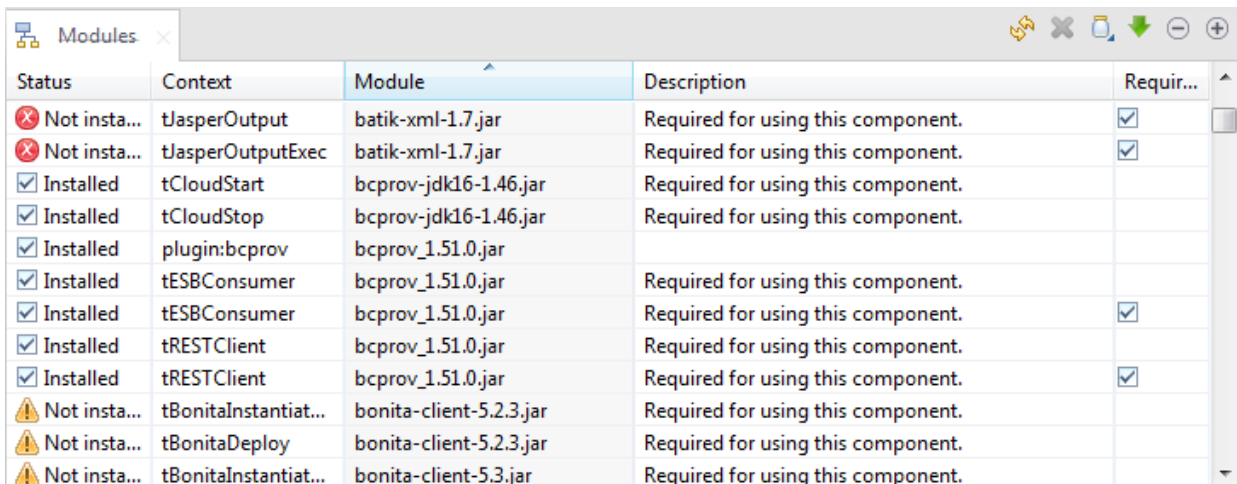
Your Talend Studio notify you about required external modules in several ways.

- The **Additional Talend packages** wizard opens when you launch your Talend Studio if any additional packages, including external modules, need to be installed for any features to function in the Studio.

Tip: The **Additional Talend packages** wizard also opens when you select **Help > Install Additional Packages** from the Studio menu.

- On your design workspace, if a component requires the installation of external modules before it can work properly, a red error indicator appears on the component. With your mouse pointer over the error indicator, you can see a tooltip message showing which external modules are required for that component to work.
- When you open the **Basic settings** or **Advanced settings** view of a component for which one or more external modules are required, you will see a piece of highlighted information about external modules, followed by an **Install** button. Clicking the **Install** button opens a wizard that will show you the external modules to be installed.
- The **Modules** view lists all the modules required for the Studio to work properly, including those Java libraries and drivers that you must install.

If the **Modules** view is not shown under your design workspace, go to **Window > Show View... > Talend** and then select **Modules** from the list.




Status	Context	Module	Description	Requir...
Not installed	tJasperOutput	batik-xml-1.7.jar	Required for using this component.	<input checked="" type="checkbox"/>
Not installed	tJasperOutputExec	batik-xml-1.7.jar	Required for using this component.	<input checked="" type="checkbox"/>
Installed	tCloudStart	bcprov-jdk16-1.46.jar	Required for using this component.	
Installed	tCloudStop	bcprov-jdk16-1.46.jar	Required for using this component.	
Installed	plugin:bcprov	bcprov_1.51.0.jar		
Installed	tESBConsumer	bcprov_1.51.0.jar	Required for using this component.	
Installed	tESBConsumer	bcprov_1.51.0.jar	Required for using this component.	<input checked="" type="checkbox"/>
Installed	tRESTClient	bcprov_1.51.0.jar	Required for using this component.	
Installed	tRESTClient	bcprov_1.51.0.jar	Required for using this component.	<input checked="" type="checkbox"/>
Not installed	tBonitaInstantiat...	bonita-client-5.2.3.jar	Required for using this component.	
Not installed	tBonitaDeploy	bonita-client-5.2.3.jar	Required for using this component.	
Not installed	tBonitaInstantiat...	bonita-client-5.3.jar	Required for using this component.	


In this view:

Status

points out if a module is installed or not installed on your system.

The  icon indicates that the module is not necessarily required for the corresponding

component or Metadata connection listed in this column.

The  icon indicates that the module is absolutely required for the corresponding component or Metadata connection.

Context

gives the name of the component or Metadata connection using the module. If this column is empty, the module is then required for the general use of your Talend Studio.

Module

gives the exact name of the module.

Description

explains why the module/library is required.

Required

the selected check box indicates that the module is required.



refreshes this view to reflect the latest module installation status.


In case of collaborative work, once a required module is installed in one user's studio, the other users can simply refresh their **Modules** view to add this module to their own studio(s).

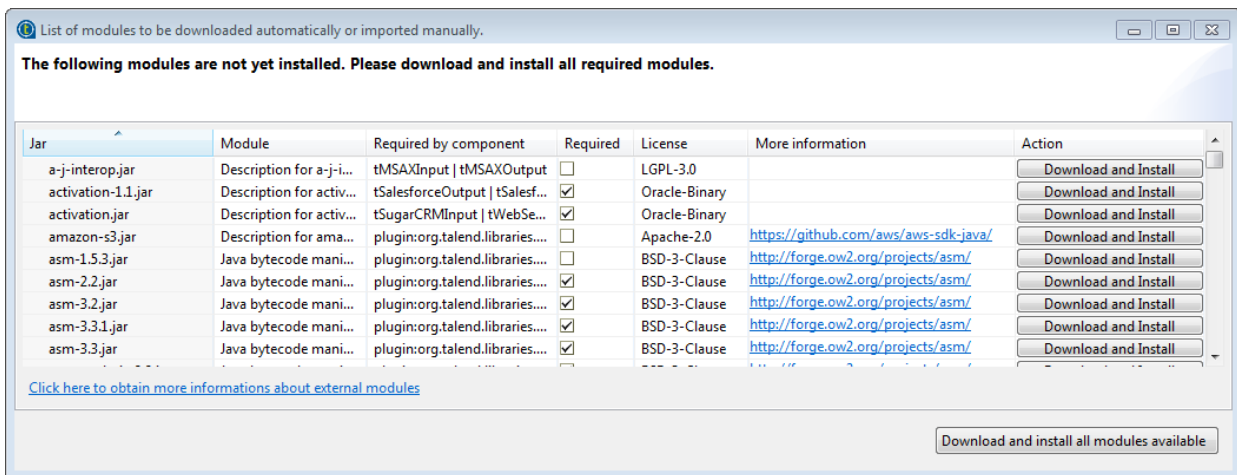


allows you to install an already downloaded external module into your Studio. For details, see [Installing external modules manually using the Modules view](#) on page 16



opens the Jar download and installation wizard, which will list all the required external modules that are not integrated in the Studio.

- A Jar installation wizard appears when you:
 - drop a component from the **Palette** if one or more external modules required for that component to work are missing in the Studio.
 - click the **Check** button in a Metadata connection setup wizard in the Studio if one or more external modules required for the connection are missing in the Studio.
 - click the **Guess schema** button in the **Component** view of a component if one or more external modules required for that component to work are missing in the Studio.
 - click **Install** on the top of the **Basic settings** or **Advanced settings** view of a component for which one or more required external modules are missing.
 - run a Job that involves components or Metadata connections for which one or more required external modules are missing.
 - click the  button in the **Modules** view.



This wizard:

- lists the external modules to be installed and the licenses under which they are provided,
- provides the URLs of the valid websites where they are downloadable,
- lets you download and install automatically all the modules available on the Talend website,
- allows you to download those not available on the Talend website by following the links provided in the **Action** column and then install them into your Studio manually.

When you drop a component, set up a connection, or guess the schema of a database, that requires an external module for which neither the Jar file nor its download URL information is available on the Talend website, the Jar installation wizard does not appear, but the **Error Log** view will present an error message informing you that the download URL for that module is not available. You can try to find and download it by yourself, and then install it manually into the Studio.

Tip: To show the **Error Log** view on the tab system, go to **Window > Show views**, then expand the **General** node and select **Error Log**.

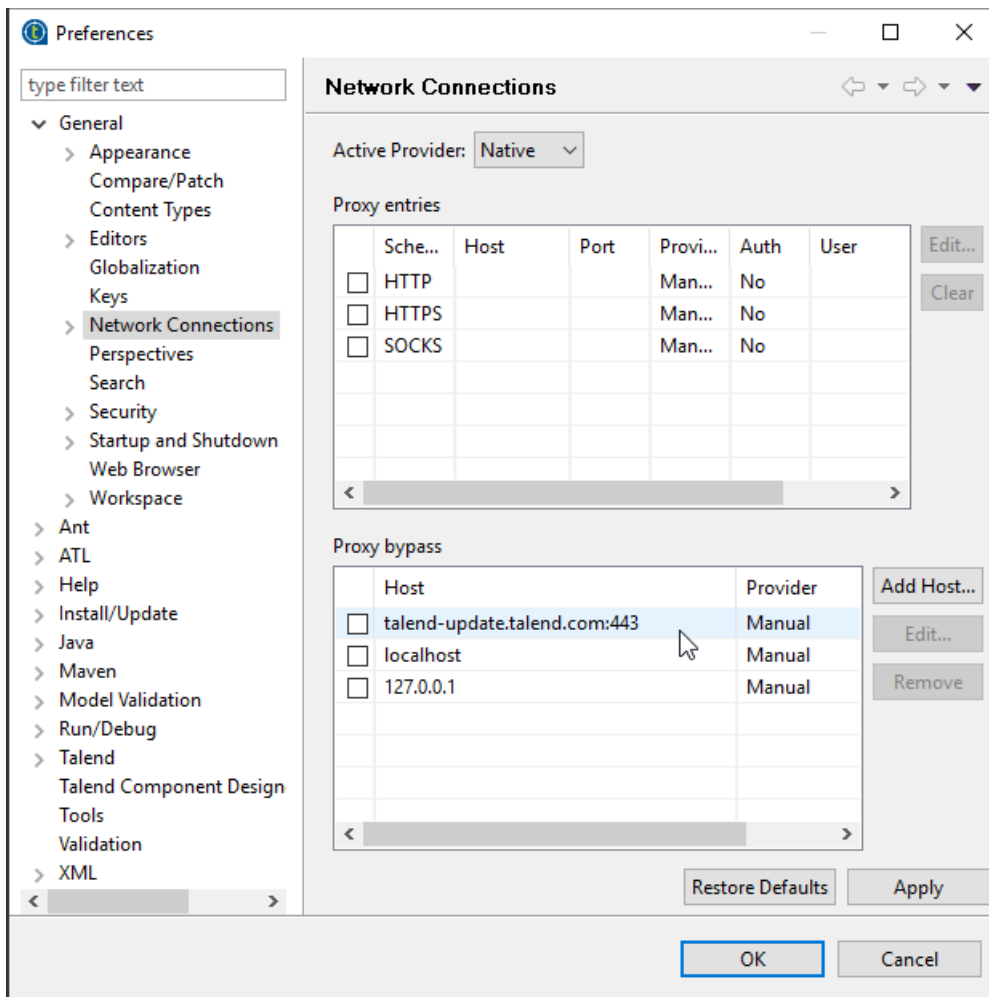
Installing external modules from within the Studio

You can download and automatically install most external modules using the wizard provided by your Talend Studio.

Before you begin

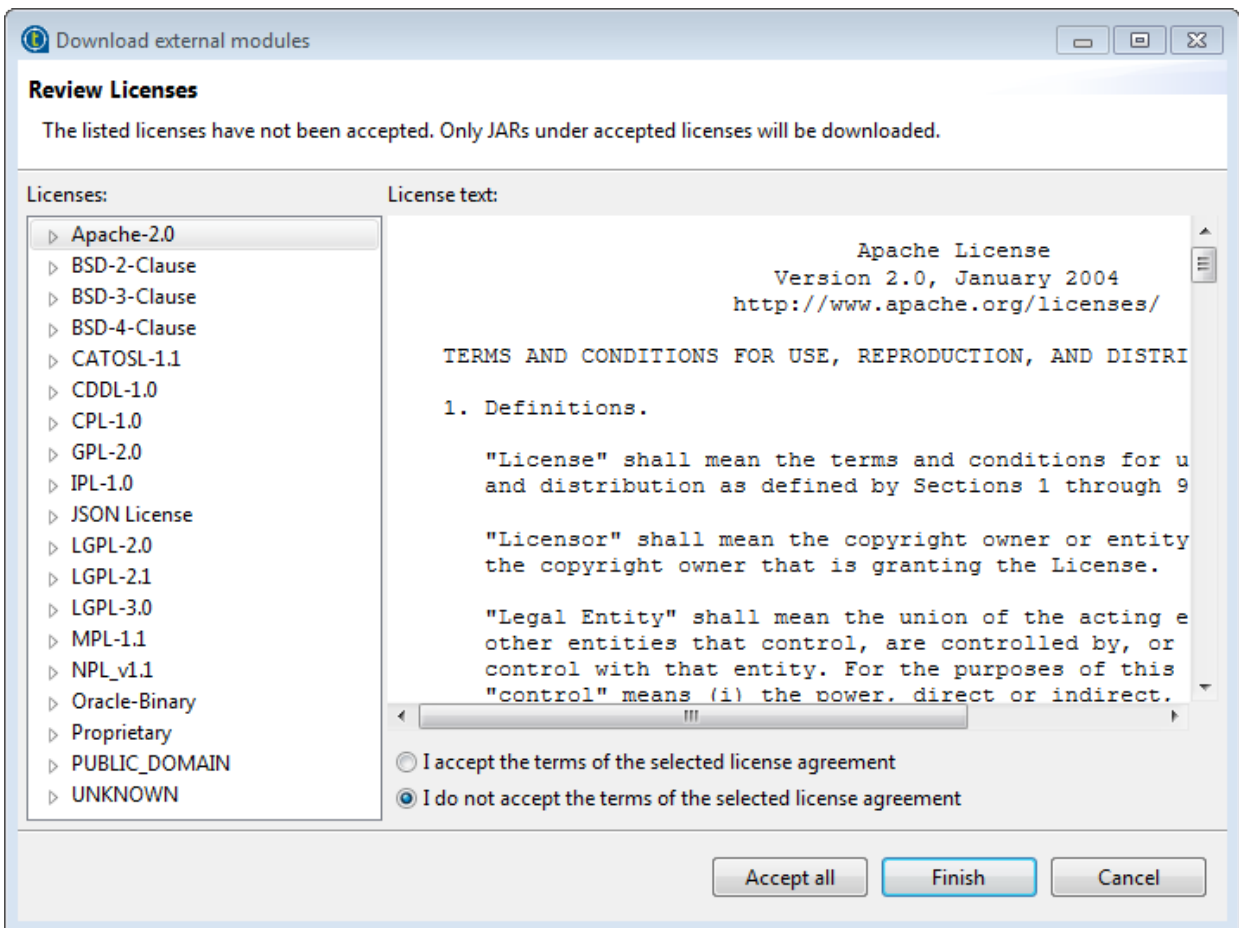
Make sure your Talend Studio has a secure Internet connection.

If you are working behind a network proxy, make sure you have correctly set up your proxy and add the web site `http://talend-update.talend.com` and the port 443 to your whitelist. To access the proxy settings, select **Window > Preferences** from the menu to open the **Preferences** window, then expand the **General** node and click **Network Connections**.



Procedure

- Do the following to open the **Download external modules** dialog box:
 - In the **Additional Talend Packages** wizard, select the **Required third-party libraries** and/or **Optional third-party libraries** check boxes and click **Finish**.
 - In the Jar installation wizard, click the **Download and Install** button to install a particular module, or click the **Download and install all modules available** button to install all the available modules.



2. Accept the license terms and start the download and installation process:

- To download and install the external module(s) provided under a particular license, select that license from the **Licenses** pane, review the license terms, select the **I accept the terms of the license agreement** option, and click **Finish**.
- To download and install all external modules provided under all the listed licenses, click the **Accept all** button.

Results

When the installation process is completed, the chosen external module or modules are installed into your Talend Studio, and you can use Talend Studio features that depend on these modules.


Installing external modules manually using the Modules view

If you have already downloaded external modules, you can install them manually into your Talend Studio.

Before you begin

If you are going to install the JDBC driver for Oracle 9i into your Talend Studio, change the file name from `ojdbc14.jar` to `ojdbc14-9i.jar` first.

Procedure

1. Click the  button in the upper right corner of the **Modules** view or in the Jar installation wizard to browse your local file system.

2. In the **Open** dialog box of your file system, browse to the module you want to install, double-click the `.jar` file, or select it and then click **Open** to install it into your Talend Studio.

Results

The dialog box closes and the selected module is installed in the library folder of the current Talend Studio.

Installing external modules manually for Talend Web applications

Some modules required for a Talend Web application to work are not available on the Talend website but can be downloaded directly from external websites. Once downloaded, these modules must be placed in specific folders.

Procedure

- For the Talend MDM Server, place the downloaded JDBC drivers for the Oracle and MySQL databases in the following folder:

```
<TomcatPath>/webapps/talendmdm/WEB-INF/lib
```

- For Talend Administration Center, place the downloaded modules in the following folder:

```
<TomcatPath>/webapps/org.talend.administrator/WEB-INF/lib
```

Disabling Internet access for the Studio

About this task

You can disable Internet access for your Talend Studio by editing the Studio `.ini` file.

Warning: Do this only if you have no needs of accessing the Internet to download and install custom components, third-party libraries, and so on.

Procedure

1. Open the Studio `.ini` file corresponding to your operating system, and add the following line to it:

```
-Dtalend.disable.internet=true
```

2. Restart your Talend Studio.
When launched again, the Studio will not show:
 - The **Exchange** link on the toolbar
 - The **Talend > Exchange** node in the **Preferences** dialog
 - The options for installing third party libraries in the **Additional Packages** dialog box
 - The **Talend News** link on the welcome screen

Upgrading your Talend products

Backing up the environment

Before you start migrating your Talend solutions, make sure your environment is correctly backed up.


The environment backup process includes the following mandatory steps:

Note: These steps usually need to be completed in the following order.

1. Saving the local projects, see [Saving the local projects](#) on page 18.

Saving the local projects

Procedure

1. Launch the Studio.
2. Click the  icon and export your local projects to an archive file.

Upgrading the Talend projects in Talend Studio

Importing your local projects

Procedure

1. Launch the new Talend Studio you have just installed.
2. In the login windows, select **Import** then import the archive file containing your local projects.

Results

The local projects are displayed in the **Project** list and appear on the Talend Studio **Repository** view.

For more information on how to export local projects to an archive file, see [Saving the local projects](#) on page 18.

Appendices

Supported Third-Party System/Database/Business Application Versions

This document provides the information about the versions of the systems or databases or business applications supported by Talend Studio.

Supported systems, databases and business applications by Talend components

The access to these systems, databases and business applications varies depending on the Studio you are using.

Systems/Databases	Versions	OS	Note
Access	2003 2007	Windows	When working with Java 8, only the General collation mode is supported.
Amazon Aurora	Amazon Aurora MySQL edition v5 (MySQL 5.6 / 5.7)		
Amazon RDS for Microsoft SQL Server	N/A		
Amazon Redshift	Initial release of Amazon Redshift	N/A	
AS/400	V7R1 to V7R3 (Deprecated versions: V5R2 to V6R1)	N/A	
Bonita	6.5.2 7.2.4 7.9.0 (Deprecated versions: 5.2.3 / 5.3.1 / 5.6.1 / 5.10.1)	N/A	
Cassandra	3.0 to 3.4 (Deprecated versions: 1.1.2 / 1.2.2 / 2.0.0)	Windows + Linux	
CouchBase	5.x 6.0 (Deprecated versions: 2.0 / 4.x)	Windows	
CouchDB	1.0.2	Windows	
DB2	10.5	N/A	
DB Generic	ODBC	Windows	

Systems/Databases	Versions	OS	Note
DynamoDB	No specified version	N/A	
Elasticsearch	5.6.x 6.4.x (Deprecated version: 2.3.x)	N/A	
EXASolution	6.0 and earlier	Windows	
Excel	N/A	N/A	
eXist-db	1.4.0	N/A	
FireBird	2.1 to 3.0	Windows + Linux	
FTP	N/A		
Greenplum	4.3.x 5.x (Deprecated version: 4.2.1.0)	Windows (client only) + Linux	
Hbase	N/A		
HDFS	N/A		
Hive	N/A		
HSQldb	1.8.0 to 2.4	N/A	
IBM DB2 and IBM DB2 Z/OS	10.5 11.1 (Deprecated version: 10.1)	Windows + Linux	
Impala	N/A		
Informix	11.50	Windows + Linux	
Ingres	10.2 11 (Deprecated version: 9.2)	Windows + Linux	
Interbase	(Deprecated versions: 7 and above)		
JavaDB	6	Windows + Linux	
JDBC	N/A		
JSON	N/A		

Systems/Databases	Versions	OS	Note
Kafka	0.8.2.0 0.9.0.1 0.10.0.1 1.1.0	Windows + Linux	The Kerberos kinit option and the Kerberos keytab option are both supported by Talend Studio. For information about the security options supported by the Kafka components, see Talend Help Center .
LDAP	No version limitation	Windows + Linux	
MapRDB	N/A		
MarkLogic	V9	N/A	
MaxDB	7.6	N/A	
Microsoft AX	Dynamics AX 4.0 Dynamics AX 2012	N/A	
Microsoft CRM	2011 2015 2016	N/A	
Microsoft CRM Online	2011 2016 2018	N/A	
Microsoft SQL Server	2014 to latest version	Windows + Linux	Microsoft SQL Server support is provided through the Microsoft SQL JDBC driver. For more information, see the Download Microsoft JDBC Driver for SQL Server page.
MongoDB	3.6.x 4.0.x (Deprecated versions: 2.5.x / 2.6.x / 3.0.x / 3.2.x / 3.4)	Windows + Linux	
MySQL	MySQL 5.x MySQL 8.x MariaDB Amazon RDS Google Cloud SQL (Deprecated version: MySQL 4)	Windows + Linux	

Systems/Databases	Versions	OS	Note
MOM	N/A		
Neo4j	1.x.x 2.x.x / 2.2.x / 2.3 3.2.x 3.5.x	Linux	
Netezza	7.0.x 7.1.x 7.2.x	Windows + Linux	
NetSuite	2018 Deprecated versions: 2014/2016	Windows + Linux	
OleDb	2000 2003 2005 2007 2010	N/A	
Oracle	Oracle 12c Release 1 Oracle 12c Release 2 Oracle 18c (Deprecated versions: Oracle 8i / 9i / 10g / 11g)	Windows + Linux	
ParAccel	3.1 3.5	N/A	
PostgreSQL	11 Prior to 9 / 9.x 9.x 10.x Amazon RDS Google Cloud SQL	Windows + Linux	
PostgresPlus	Prior to 9 / 9.x 9.x	Windows + Linux	
Red Hat BRMS	6.1	Windows + Linux	
REST Service	N/A	Windows + Linux	
Sage X3	N/A		
Salesforce	V44 and earlier	Windows + Linux	
SAP	4.6		

Systems/Databases	Versions	OS	Note
SAP Business Suite (ERP)	Netweaver: From 7.3 to 7.5 ERP6.0, From EhP6 to EhP8	Windows	
SAP Business Warehouse (BW)	Netweaver: From 7.31 to 7.5	Windows	
SAP HANA	No version limitations	Windows	Supported through SAP JDBC driver
SAS	9.1 9.2	Windows + Linux	
SOAP Service	N/A		
SQLite	3.6.7	Windows + Linux	
Sqoop	N/A		
SugarCRM	5.2	Windows + Linux	
Sybase	12.5 12.7 15.2 15.5 15.7 16.0	Windows + Linux	
SybaseIQ	12.5 12.7 15.2 16.0	Windows + Linux	
Teradata	12 13 14 15 16	Windows + Linux	
VectorWise	2	Windows + Linux	
Vertica	9.0.x (Deprecated versions: 3 to 7.1.x)	Windows + Linux	
VtigerCRM	Vtiger 5.0 Vtiger 5.1	N/A	

Messaging brokers supported by Talend messaging components

Component	Supported messaging brokers / standards
tJMSInput tJMSOutput	JMS standard 1.1
tMicrosoftMQInput tMicrosoftMQOutput	MicrosoftMQ 3.0
tMomInput tMomOutput	JBoss Messaging 1.4.4 WebSphere MQ 8.0 ActiveMQ 5.13.2