



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

6.5.1

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Talend Open Studio for Big Data: 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	Recommended alloc. memory	Note
Talend Studio	Client	3GB minimum, 4 GB recommended	

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 make the most out of the Talend server modules and improve performance on Unix systems, you should set the limit of system resources (ulimit) to unlimited according to the Unix system used.

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.

The information contained in the following table is applicable for the 6.5.1 version of your Talend product at the time of its release. For updated information on the latest supported software or databases, see the online version of this page on [Talend Help Center](#).

Talend Studio

Support type	Operating System (64-bit)	
	Recommended	Linux
Windows		Microsoft Windows Professional 7
Supported	Linux	Ubuntu 17.04
		Ubuntu 14.04 LTS
		Red Hat Enterprise Linux Server/CentOS 7.3

Support type	Operating System (64-bit)	
		Red Hat Enterprise Linux Server/CentOS 7.2
		Red Hat Enterprise Linux Server/CentOS 7.1
		Red Hat Enterprise Linux Server/CentOS 6.8
		Red Hat Enterprise Linux Server/CentOS 6.7
	Windows	Microsoft Windows 10
		Microsoft Windows Server 2016 RTM
		Microsoft Windows Server 2012 RTM
	Mac	Apple macOS 10.13/High Sierra
		Apple macOS 10.12/Sierra
		Apple OS X 10.11/El Capitan
Deprecated	Windows	Microsoft Windows 8.1

Compatible Java Environment

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.

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.

The information contained in the following table is applicable for the 6.5.1 version of your Talend product at the time of its release. For updated information on the latest supported software or databases, see the online version of this page on [Talend Help Center](#).

Studio Java environments

Support type	JRE Version	Studio JDK Compiler Compliance Level	Note
Recommended	Oracle 8	1.8 (default)	
Supported	Oracle 8	1.7 (with restrictions)	Only supported for Big Data distributions requiring JDK 1.7. Routes are not supported by Talend Studio JDK Compiler Compliance Level 1.7.

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, usually `/usr/lib/jvm/java-x-oracle`.
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
```

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 Big Data 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_BD-linux-gtk-x86_64.ini` file.
2. Edit the memory attributes. For example:

```
-vmargs -Xms40m -Xmx500m -XX:MaxMetaspaceSize=256m
```

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

Launching your Talend Studio

Procedure

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

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

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

```
chmod +x TOS_BD-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.

Identify required external modules

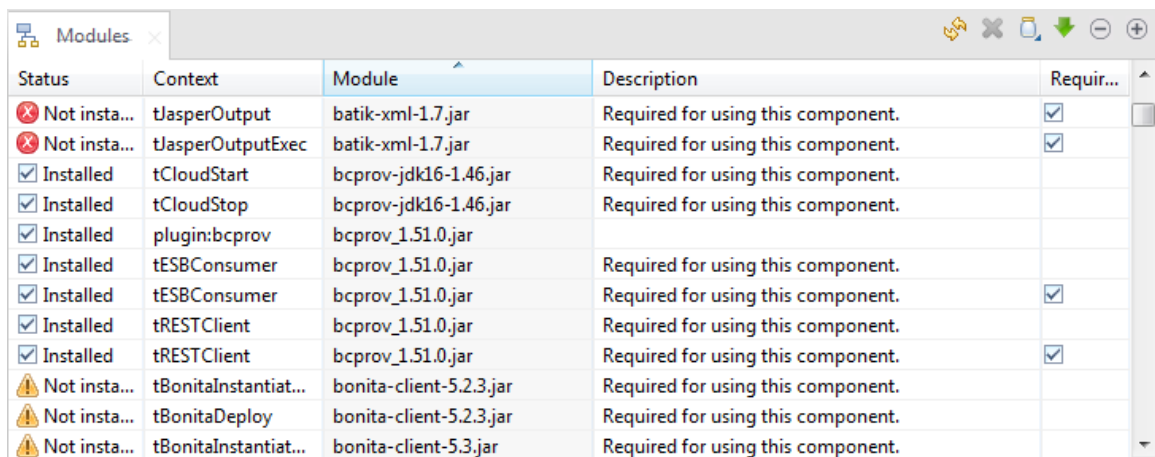
When you launch Talend Studio or select **Help > Install Additional Packages** in the Talend Studio menu, if any external modules are found missing for any features, the **Additional Talend packages** wizard opens, showing the **Optional** and **Required third-party libraries** check boxes. Make sure these check boxes are selected and click **Finish** to open the **Download external modules** dialog box, which lists all the available external modules, displays the license terms under which the external modules are provided, and lets you install all the modules at a single click. For more information, see [Install external modules](#) on page 12.

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 to use the components embedded in Talend Studio, including those Java libraries and drivers that you must install to get the relevant components working.

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


The table below describes the information presented in the **Modules** view.

Column	Description
Status	<p>points out if a module is installed or not installed on your system.</p> <p>The  icon indicates that the module is not necessarily required for the corresponding component listed in the Context column.</p> <p>The  icon indicates that the module is absolutely required for the corresponding component.</p>
Context	<p>lists the name of Talend component using the module. If this column is empty, the module is then required for the general use of Talend Studio.</p> <p>This column lists any external libraries added to the routines you create and save in your Talend Studio library folder. For more information, see the Talend Studio User Guide.</p>
Module	lists the module exact name.

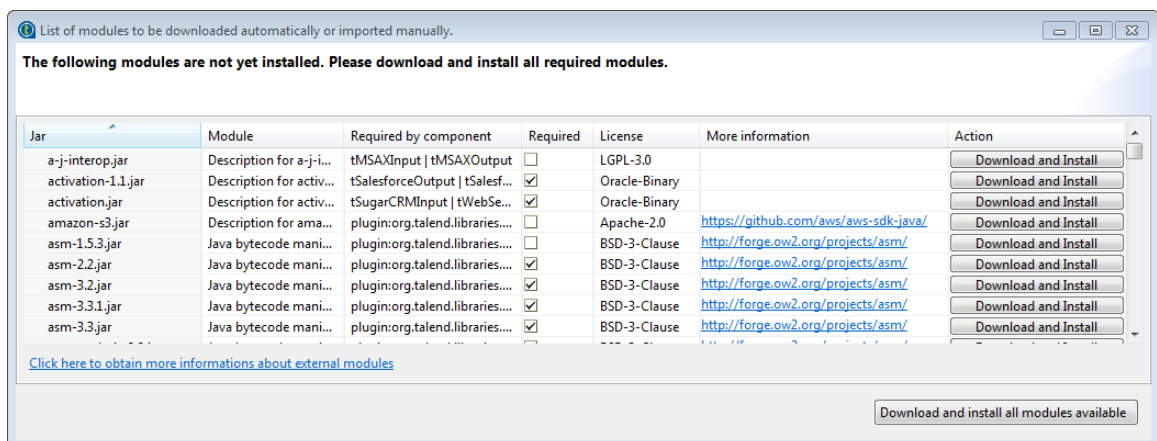
Column	Description
Description	explains why the module/library is required.
Required	the selected check box indicates that the module is required.

In addition to the **Modules** view, Talend Studio provides a mechanism that enables you to easily identify, download and install most of the required third-party modules from the Talend website and directs you to valid websites for the rest.

A Jar installation wizard appears whenever any required external module is found missing for any feature in Talend Studio, including when you:

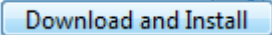


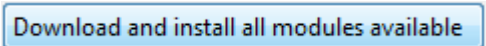

- drop a component from the **Palette** if one or more external modules required for that component to work are missing in Talend Studio, or
- click the **Guess schema** button in the **Component** view of a component if one or more external modules required for that component to work are missing in Talend 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 for which one or more required external modules are missing, or
- click the  button in the **Modules** view.

Note: When you click this button, the wizard that appears will list all the required external modules that are not integrated in Talend Studio.



The table below describes the information presented in the wizard.

Item	Description
Jar	The file name of the external module.
Module	A short description about the nature of the module.
Required by component	Lists the components that require the external module.
Required	The selected check box indicates that the module is required.

Item	Description
License	The license under which the module is provided.
More information	Provides the URL of the valid website where you can find more information about this module and download the module manually.
Action	<p>: Click to open the Download external modules dialog box to download and install the module, which is available on the Talend website;</p> <p>Open in browser : Click the link to open the valid website to download the module, which is not available on the Talend website, and then click the jar button to import the downloaded module into your Talend Studio;</p> <p>: You need to find and download the module yourself and click the jar button to import it into your Talend Studio.</p>
	Click to open the Download external modules dialog box to download and install all the required modules that are available on the Talend website.
Do not show again	<p>Select to prevent the wizard from appearing again unless you click the  button in the Modules tab view.</p> <p>This check box shows only when you drop a component, or guess the schema of a database, that requires an external module, or click the Install button on the Component tab of a component that requires an external module.</p>
Click here to obtain more information about external modules	Click to go to Talend online documentation on installing third-party modules.

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

When you drop a component, 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 Talend Studio.

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

Install external modules

Downloading and installing modules in Talend Studio

Before you begin



Warning:

If you are working behind a network proxy, make sure you have correctly set up your proxy before you can download and install external modules in your Talend Studio.

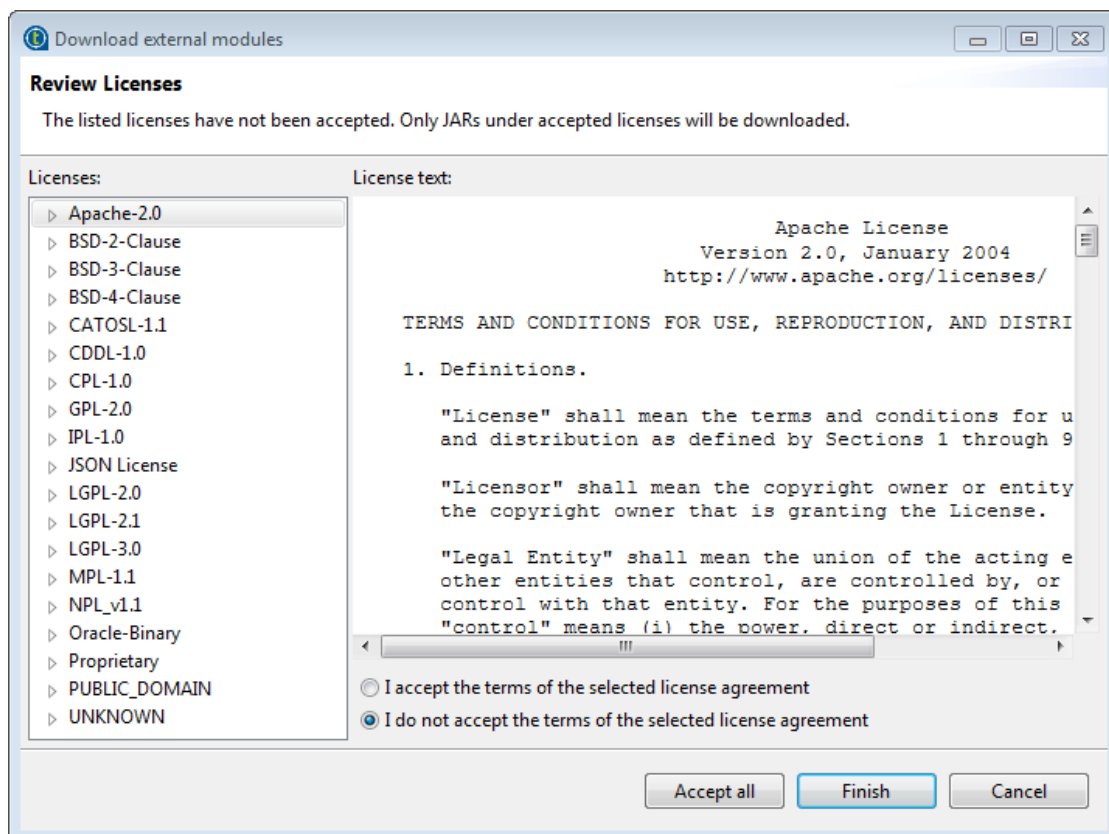
To access the proxy settings, select **Window > Preferences** from the menu to open the **Preferences** window, then expand the **General** node and click **Network Connections**.

Add the web site <http://talend-update.talend.com> and the port 443 to the whitelist.

Procedure

1. 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, or select **Help > Install Additional Packages** from the menu to open the **Additional Talend Packages** wizard. From this wizard, make sure the **Optional third-party libraries** and **Required third-party libraries** check boxes are selected and click **Finish**. The **Download external modules** dialog box opens.

Note: This **Additional Talend Packages** wizard appears automatically when you launch Talend Studio if any additional packages, including external modules, need to be installed for any features to function in Talend Studio.




2. 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 start the download and installation process. To download and install all external modules provided under all the listed licenses, click the **Accept all** button to start the download and installation process.

Upon installation of the chosen external module or modules, a dialog box appears to notify you about the number of modules successfully installed and/or about the modules failed to install, if any.

To install manually an external module you already have in your local file system, do the following:

Note: Talend Open Studio for Big Data does not come with the JDBC drivers for Oracle databases due to Apache license restrictions. For Oracle9i, the required JDBC driver downloadable from Oracle website is named `ojdbc14.jar`, the same as that for Oracle 10g. To enable the JDBC driver for Oracle9i you have downloaded to work in Talend Open Studio for Big Data, you have to change the file name to `ojdbc14-9i.jar` before installing it into the Talend Studio.

- a) Click the  button in the upper right corner of the **Modules** view or in Jar installation wizard to browse your local file system. If the **Modules** view is not shown under your design workspace, go to **Window > Show View... > Talend** and then select **Modules** from the list.
- b) 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. The dialog box closes and the selected module is installed in the library folder of the current Talend Studio.

You can now use the component dependant on this module in any of your Job designs.

Installing modules in Talend CommandLine

If you use Talend Studio and Talend CommandLine on different machines, you need to retrieve the downloaded `.jar` files and add them in Talend CommandLine.

Procedure

1. Make sure Talend CommandLine is not started, then download the external modules from the **Modules** view as explained in the previous procedure.
2. Copy the downloaded .jar files from <StudioPath>/configuration/.m2 and paste them into <CommandLinePath>/configuration/.m2, where <StudioPath> and <CommandLinePath> are the installation directories of Talend Studio and Talend CommandLine respectively. Since these folders are hidden, make sure your system is configured to show hidden files and folders.

The <CommandLinePath>/configuration/.m2 folder is not created by default. It is created the first time you start the Talend CommandLine application.

3. Restart Talend CommandLine.

You can now use the component dependent on these modules.

Installing manually external modules downloaded from external Web sites for Talend Web applications

Some modules 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.

- For Talend Studio, the downloaded modules must be placed in the following folder:
<StudioPath>/configuration/.m2

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 14 .

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 14.

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 information contained in the following table is applicable for the 6.5.1 version of your Talend product at the time of its release. For updated information on the latest supported software or databases, see the online version of this page on [Talend Help Center](#).

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

1. The test information is not available yet.
2. When working with Java 8, only the General collation mode is supported.
3. For information about the security options supported by the Kafka components, see [Talend Help Center](#).
4. No new feature introduced by MS SQL Server 2014/2016 is supported.

Systems/Databases	Versions	OS	Available with...
Alfresco	2.1	N/A ¹	All Talend products
Amazon Redshift	Initial release of Amazon Redshift	N/A ¹	All Talend products
AS/400	V5R2 to V5R4 V5R3 to V6R1 V6R1 to V7R2	N/A ¹	All Talend products
Access ²	2003 2007	Windows	Talend products with Data Integration (DI), Master Data Management (MDM), Enterprise Service Bus (ESB) or Big Data

Systems/Databases	Versions	OS	Available with...
Bonita	5.2.3 5.3.1 5.6.1 5.10.1 6.5.2 7.2.4	N/A ¹	All Talend products
Cassandra	2.0.0 3.0/3.1/3.2/3.3/3.4 (Deprecated versions: 1.1.2/1.2.2)	Windows + Linux	Talend products with Big Data
CouchBase	4.X 5.X	Windows	Talend products with Big Data
CouchDB	1.0.2	Windows	Talend products with Big Data
DB Generic	ODBC	Windows	All Talend products
DB2	10.5 10.1	Windows + Linux	Talend components with all products. Talend products with MDM or ESB.
DynamoDB	No specified version	N/A ¹	Talend products with Big Data
EXASolution	6.0 and earlier	Windows	Talend products with DI, MDM, ESB or Big Data
Elasticsearch	Until 2.3.X	N/A ¹	Talend products with Big Data
FireBird	2.1	Windows + Linux	Talend products with DI, MDM, ESB or Big Data
Greenplum	4.2.1.0	Windows (client only) + Linux	Talend products with DI, MDM, ESB or Big Data
HSQldb	1.8.0	N/A ¹	Talend products with DI, MDM, ESB or Big Data

Systems/Databases	Versions	OS	Available with...
Informix	11.50	Windows + Linux	All Talend products
Ingres	9.2	Windows + Linux	All Talend products
Interbase	7 and above	N/A ¹	Talend products with DI, MDM, ESB or Big Data
JavaDB	6	Windows + Linux	Talend products with DI, MDM, ESB or Big Data
Kafka	0.8.2.0 0.9.0.1 ³ 0.10.0.1 ³	Windows + Linux	Talend products with Big Data
LDAP	No version limitation	Windows + Linux	All Talend products
Microsoft AX	Dynamics AX 4.0 Dynamics AX 2012	N/A ¹	All Talend products
Microsoft CRM	4.0 2011 2013 2015 2016	N/A ¹	All Talend products
MS SQL Server	2000 2003 2005 2008 2012 2014 ⁴ 2016 ⁴	Windows + Linux	All Talend products
MarkLogic	V9	N/A ¹	Talend products with Big Data

Systems/Databases	Versions	OS	Available with...
MaxDB	7.6	N/A ¹	Talend products with DI, MDM, ESB or Big Data
MongoDB	2.6.X 3.0.X 3.2.X 3.5.X (Deprecated version: 2.5.X)	Windows + Linux	Talend products with Big Data
MySQL	Mysql4 Mysql5 MariaDB	Windows + Linux	All Talend products
Netezza	7.2	Windows + Linux	All Talend products
NetSuite	2014 2016	Windows + Linux	All Talend products
Neo4j	1.X.X 2.X.X/2.2.X/2.3 3.2.X	Linux	Talend products with Big Data
OleDb	2000 2003 2005 2007 2010	N/A ¹	All Talend products
Oracle	Oracle 8i/9i/10g/11g/11g (11.6)/12c	Windows + Linux	All Talend products
ParAccel	3.1 3.5	N/A ¹	Talend products with DI, MDM, ESB or Big Data
PostgreSQL	9.X	Windows + Linux	All Talend products
PostgresPlus	9.X	Windows + Linux	Talend products with DI, MDM, ESB or Big Data

Systems/Databases	Versions	OS	Available with...
Red Hat BRMS	6.1	Windows + Linux	Talend products with DI, MDM, ESB or Big Data
Salesforce	V39 and earlier	Windows + Linux	All Talend products
SAP	ECC 6.0 EhP6	Windows	All Talend products
SAP BW	7.3 7.4 7.5	Windows	All Talend products
SAP Hana	1.0	Windows	All Talend products
SAS	9.1 9.2	Windows + Linux	Talend products with DI, MDM, ESB or Big Data
SQLite	3.6.7	Windows + Linux	All Talend products
Sybase	12.5 12.7 15.2 15.5 15.7 16.0	Windows + Linux	All Talend products
SybaseIQ	12.5 12.7 15.2 16.0	Windows + Linux	All Talend products
Teradata	12 13 14 15	Windows + Linux	All Talend products
VectorWise	2	Windows + Linux	Talend products with DI, MDM, ESB or Big Data

Systems/Databases	Versions	OS	Available with...
Vertica	9.0.X (Deprecated versions: 3, 3.5, 4, 4.1, 5.0, 5.1, 6.0, 6.1.X, 7.0.X, 7.1.X)	Windows + Linux	Talend products with DI, MDM, ESB or Big Data
VtigerCRM	Vtiger 5.0 Vtiger 5.1	N/A ¹	All Talend products