



# **TIBCO JasperReports® Server Community Release Notes**

*Software Release 8.0*

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## CHAPTER 1 TIBCO DOCUMENTATION AND SUPPORT SERVICES

For information about this product, you can read the documentation, contact TIBCO Support, join the TIBCO Community, and join the Jaspersoft Community.

### 1.1 How to Access TIBCO Documentation

Documentation for TIBCO products is available in PDF format on the TIBCO Product Documentation website. The TIBCO Product Documentation website is updated frequently. To access the latest documentation, visit:

<https://docs.tibco.com>

### 1.2 Product-Specific Documentation

The JasperReports® Server documentation is available at:

- <https://docs.tibco.com/products/tibco-jasperreports-server> (PDF only)
- <http://community.jaspersoft.com/documentation> (PDF and HTML)

The following documents for this product can be found on the TIBCO Documentation site:

- TIBCO JasperReports Server Release Notes
- TIBCO Jaspersoft Platform Support Guide
- TIBCO JasperReports Server Installation Guide
- TIBCO JasperReports Server Upgrade Guide
- TIBCO JasperReports Server User Guide
- TIBCO JasperReports Server Administrator Guide
- TIBCO JasperReports Server Security Guide
- TIBCO JasperReports Server Data Management Using Domains
- TIBCO JasperReports Server REST API Reference
- TIBCO JasperReports Server Visualize.js Guide
- TIBCO JasperReports Server External Authentication Cookbook
- TIBCO JasperReports Server Source Build Guide
- TIBCO JasperReports Server Ultimate Guide
- TIBCO Jaspersoft for AWS User Guide
- TIBCO Jaspersoft Studio User Guide
- TIBCO Jaspersoft OLAP User Guide

## 1.3 How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, visit <https://www.tibco.com/services/support>.
- For accessing the Support Knowledge Base, viewing the latest product updates that were not available at the time of the release, and getting personalized content about products you are interested in, visit the TIBCO Support portal at <https://support.tibco.com>.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to <https://support.tibco.com>. If you do not have a user name, you can request one by clicking **Register** on the website.

## 1.4 How to Join the TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience.

TIBCO Community offers access to Q&A forums, product wikis, and bestpractices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the [TIBCO Ideas Portal](#). For free registration, go to:

<https://community.tibco.com>

Jaspersoft Community is the official channel for Jaspersoft products. To join Jaspersoft Community, go to:

<https://community.jaspersoft.com>

## CHAPTER 2 OVERVIEW

JasperReports® Server Community Project is a high-performance standalone or embeddable Business Intelligence (BI) platform that provides rich reporting and integrated in-memory analysis capabilities. In addition, Jaspersoft® OLAP provides data analysis running on the same shared BI platform.

These release notes describe the available functionality at a high level; for details, see the documentation.

In particular, see the *TIBCO JasperReports Server Installation Guide* for instructions about running the installer, creating and updating the database, and deploying the WAR file; see the *TIBCO JasperReports Server Upgrade Guide* for instructions on upgrading from previous versions.



JasperReports Server is governed by a License Agreement, the text of which is found at `TIB_js-jrs-ce_8.0.0_license.txt`. Please read it before you login to JasperReports Server for the first time. If you installed the server using an installer binary (rather than deploying a WAR file), you have already agreed to this license.

These release notes include the following:

- **New Features**
- **Changes In Functionality**
- **Changes In Previous Versions**
- **Changes in Platform Support**
- **Migration and Compatibility**
- **Closed Issues**
- **Known Issues**





## CHAPTER 3 NEW FEATURES

This section describes new features introduced in the Jaspersoft BI Suite Version 8.0 release. For information regarding features introduced to Version 7.x releases, see the Release Notes for those versions.

### 3.1 Version 8.0.0

JasperReports Server 8.0.0 adds these improvements:

- **Scalable Query Engine.** The JasperReports Server scalable query engine is a new feature that supports high performance Ad Hoc reporting under load. Because Ad Hoc reports can require large amounts of data in memory and perform intensive calculations, they can become a bottleneck on a server with hundreds of users. The scalable query engine is comprised of workers that run in Kubernetes on separate virtual machines, creating a mini-cluster of reporting engines running in parallel to the server.

The scalable query engine is completely transparent: users are still logged into JasperReports Server through a browser. They run reports and use the Ad Hoc designer to create and interact with Ad Hoc views in the existing user interface. When the scalable query engine is deployed, the computation and data in memory is handled by the workers and results are displayed in the JasperReports Server session.

The scalable query engine is completely optional: you can choose whether to deploy it during installation, at a later time, or not at all. When it is not deployed, no further installation is necessary, and JasperReports Server runs as before within the app server on a single machine.

For more information, see the *Scalable Query Engine* chapter in the *JasperReports Server Installation Guide*.

- **UI Improvements.** New settings panel dedicated to formatting and properties in Ad Hoc and Dashboard designers.
- **Split Installation (Store Audit events in a separate db).** Audit and Access events can now be moved to different databases using split installation/upgrade, which improves performance of the JasperReports server.
- **Docker and Kubernetes support for JasperReports Server deployment.** JasperReports Server now supports deployment on Docker and Kubernetes. For more information, refer to the Jaspersoft Docker Repository at <https://github.com/TIBCOSoftware/js-docker>.
- **Hyperlinks settings** have been added for Crosstab and Table Ad Hoc view dashlets in Dashboards.
- **Replace dashlet action.** New Replace dashlet action has been added to Enable hyperlinks setting for Ad Hoc view dashlets, which enables replacement of the Ad Hoc View in a dashlet with some other Ad Hoc View, Report, or Report Option.
- **Report Viewer Responsiveness.** This feature enables the report to adapt its output to the current size of the window.

- **Detailed Dashboard Export in JasperReports Server.** Dashboards in JasperReport Server can be exported as an image and in detailed mode with each visualization (dashlet) in a new page. This feature is available in Dashboard Viewer, Scheduler, and Visualize.js.
- **High Maps Support in JasperReportsServer/JasperReports Library.** The HTML5 Map feature has been introduced to create interactive maps. It lets you display the information related to a geographical area using the HTML5 Map components. Design is done in Jaspersoft Studio, but execution can be done in Jaspersoft Studio and JasperReports Server.
- **Ad Hoc Reports execution in JasperReports IO.** JasperReports Server with JasperReports IO integrated are capable of executing the Ad Hoc reports (except Ad Hoc chart report and Ad Hoc OLAP reports).
- **Master-detail visualization in JasperReport Library.** Master-detail chart is added to HTML5 chart. A master-detail chart is a highstock-like chart that has two interactive charts, a Master chart and a Detail chart. By selecting a horizontal region on the master chart, the respective selected region will be displayed on the detail chart. Design is done in Jaspersoft Studio, but execution can be done in JasperReports Server.
- **Tilemaps in JasperReports Library and Jaspersoft Studio.** Tilemaps are a new variation of Range maps under Highcharts (HTML5 charts). Design is done in Jaspersoft Studio, but execution can be done in JasperReports Server.
- **Java 11 support for Jaspersoft Studio and JasperReports IO Pro.**
- **New platforms.** This release adds support for several new third-party platforms versions:
  - RedHat Enterprise Linux (RHEL) 8.2
  - MacOS X 11x
  - Debian Linux 10
- **New database versions.** This release adds support for a new third-party database version:
  - PostgreSQL 12
- **New application server versions.** This release adds support for several new third-party application server versions:
  - Oracle Weblogic 14.1
  - The latest minor versions of Apache Tomcat 8.5.x and 9.0.x
- **New connectors.** This release adds support for several new third-party connectors:
  - ElasticSearch
  - Snowflake
  - AWS Athena

## CHAPTER 4 CHANGES IN FUNCTIONALITY

This section describes changes in functionality in the Jaspersoft BI Suite Version 8.0 release. For information regarding version 7.x releases, see the release notes for those releases.

- **XMLA Server Disabled by Default**

XMLA (XML for Analysis, also written XML/A) is a legacy SOAP-based XML protocol used to transfer analysis data over an HTTP connection. XMLA consists of a client component to connect to external XMLA data sources, and a server component that allows XMLA connections to be used internally as data sources in JasperReports Server. XMLA has been deprecated in JasperReports Server since release 7.1, but the functionality was still available.

As of this release, the XMLA server component is now disabled by default. JasperReports Server can still receive and process data from a Mondrian XMLA data source as a client, but that XMLA connection can no longer be used as a server to define a second data source. If you had reports based on such a data source, they must be modified to use the Mondrian XMLA data source directly.

It is strongly encouraged to keep the JasperReports Server XMLA server disabled for security considerations. However, the XMLA server can be re-enabled through the following steps:

1. Edit web.xml.
2. Find JasperXmlaServlet.
3. Uncomment the servlet definition and mapping to:

```
<servlet>
<servlet-name>JasperXmlaServlet</servlet-name>
<servlet-class>com.jaspersoft.jasperserver.war.xmla.XmlaServletImpl</servlet-class>
<load-on-startup>50</load-on-startup>
</servlet> <servlet-mapping>
<servlet-name>JasperXmlaServlet</servlet-name>
<url-pattern>/xmla</url-pattern>
</servlet-mapping>
```

4. Restart the server.

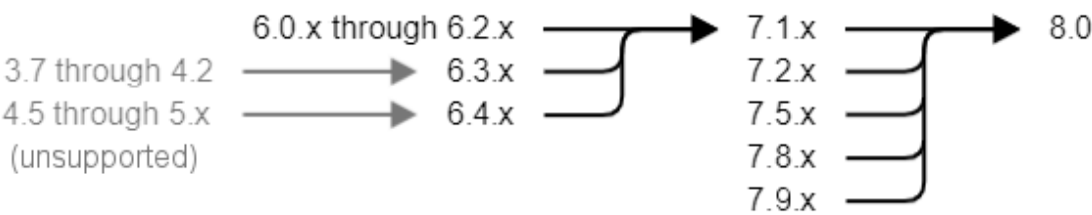


# CHAPTER 5     MIGRATION AND COMPATIBILITY

- This section includes:
- Upgrade Paths
  - Upgrade File
  - Database Changes
  - Important Upgrade Information

## 5.1 Upgrade Paths

Your current version determines your upgrade path:



**Figure 5-1 Paths for Upgrading to Version 8.0**

You can upgrade directly to 8.0.0 if your instance is one of the following:

Version 7	7.1.x	7.2.x	7.5.x	7.8.x	7.9.x
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If your instance is one of the versions listed below, you must first upgrade to the latest version of 7.1.x before upgrading to 8.0.0:

<b>Version 6</b>	6.0.x	6.1.x	6.2.x	6.3.x	6.4.x
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If your instance is one of the versions listed below, you must first upgrade to the latest version of 6.4.x, then upgrade to 7.1.x, before finally upgrading to 8.0.0:

<b>Version 5</b>	5.0	5.1	5.2	5.5	5.6.x
<b>Version 4</b>	4.5.x	4.7.x			

If your instance is one of the older versions listed below, you must first upgrade to the latest version of 6.3.x, then upgrade to 7.1.x, before finally upgrading to 8.0.0:

<b>Version 4</b>	4.0	4.1	4.2.x
<b>Version 3</b>	3.7.x		

## 5.2 Upgrade File

To upgrade, start with the WAR File Distribution ZIP: `TIB_js-jrs-cp_8.0.0_bin.zip`

Downloaded it from [the Jaspersoft community site](http://community.jaspersoft.com) (<http://community.jaspersoft.com>).

The recommended upgrade procedures are fully described in the *TIBCO JasperReports Server Upgrade Guide*.



If you are upgrading from certain versions of JasperReports Server, such as 7.2.x or earlier, the upgrade involves substantial changes that may require you to plan and prepare beforehand. See the *TIBCO JasperReports Server Upgrade Guide* for advice regarding these important considerations. Also, see [5.4, “Important Upgrade Information,” on page 14](#).

## 5.3 Database Changes

Between certain versions of the server, we have changed the repository database in order to add new functionality. There are changes between 6.4.x, 7.1.x, 7.2, 7.5 and 8.0.

## 5.4 Important Upgrade Information

This section touches on special considerations for upgrading to this release. These considerations are spelled out more thoroughly in the *TIBCO JasperReports Server Upgrade Guide*.

- **Changes in the 8.0 Release:** JasperReports Server is now available as Compact (default) or Split installations (for more information on these installation options, see the *Installation* and *Upgrade* guides). This release introduces a new Docker/Kubernetes support for JRS deployment, which customers should migrate to as

soon as possible to enable all available features (For more information, see <https://github.com/TIBCOSoftware/js-docker>. There are database changes in this release.

- **Changes in the 7.9 Release:** There are database changes in this release.
- **Changes in the 7.8 Release.** JasperReports Server now uses the Chromium JavaScript engine to export reports and dashboard to PDF and other formats. PhantomJS/Rhino support has been removed. For information, see *Changes in 7.8 that May Affect Your Upgrade* in the *TIBCO JasperReports Server Upgrade Guide*.
- **Changes in the 7.5 Release.** Several changes in this release may affect your upgrade. For example, changes to encryption keys will affect all deployments, changes to the user interface may affect any custom themes you have created, changes to the TIBCO JasperSoft MongoDB Query Language may affect your MongoDB queries, and the drivers used for Impala and Simba data sources have been updated and the old drivers no longer work. For information about preparing for such changes, see the latest 7.5.x upgrade guide.
- **Changes in the 7.2 Release.** Legacy dashboards are no longer available to view or edit starting in the 7.2 release. For more information, please refer to the latest 7.2.x upgrade guide.
- **Changes in the Version 6 Releases.** JasperReports Server Version 6 releases included many changes that may impact the upgrade steps in unexpected ways. We made such changes in 6.0.x, 6.1.x, 6.2.x, and 6.4.x. For example, changes in 6.2.1 replaced the drivers used by Impala and Simba data sources. For more information about other considerations when upgrading to version 7 from older versions, please refer to the latest 6.4.x upgrade guide.





## CHAPTER 6 KNOWN ISSUES

This section describes known issues in this release of JasperReports Server.

- **JS-61611:** When using countDistinct in a calculated measure, the grand total is incorrect.
- **JS-64151:** When adding a new File Type for MongoDB file creation, the UI displays two types - "MongoDB JDBC Schema" and "MongoDB Schema File".

Workaround: Use File Type "MongoDB JDBC Schema" (not "MongoDB Schema File").

- **JS-64130:** A RuntimeException occurs in Jaspersoft Studio when publishing a Google BigQuery report into JasperReports Server.
- **JS-62766:** Snowflake JDBC driver does not validate the non-existing or invalid or empty database during connection creation time when passing the db parameter in the connection URL.
- **JS-62783:** Snowflake JDBC driver does not validate warehouse.
- **JS-63462:** Snowflake Connector: Null Pointer Exception is shown when using Data Source connection with invalid host name.
- **JS-60070:** Domain created from Data source using Mongo db JDBC driver is not editable.
- **JS-59154:** FAF in JRS report viewer: Incorrect results are displayed when clicking the back button after drill down chart report with filter is applied.
- **JS-58890:** Domain Security does not work for blocked users on Column Level Grants.
- **JS-58922:** Unable to edit domain when Full Outer Join is applied.
- **JS-58898:** An endless recursion error occurs after adding crosstab from a previous JasperReports Server version.
- **JS-58574:** In recent versions of Mac OS, the Stop and Start scripts in the installation directory must be run using Automator.
- **JS-58145:** Trying to use input controls for strings and integers for reports with a very large data size (for example, more than 100,000 rows) could result in the JasperReports Server freezing in the "Loading" stage until the session is terminated.
- **JS-58144:** SQL validation for an input control could result in an error if the input string contains a semicolon (;), dash (-), or number sign (#).
- **JS-57772:** Cannot login to JasperReports Server due to password length exception.

Workaround:

If you are using external authentication, and you cannot login successfully due to a password length exception, then you need to increase the column length of password in the *jiuser* table.

- **JS-57551:** Scalar functions can't be used as a filter for Ad Hoc views when using an ElasticSearch data source.
- **JS-57111:** Incorrect date shown on Ad Hoc view with Oracle DATE datatype.

- **JS-34778:** The JasperReports Server 7.2 login page returns blank when using proxy and Oracle WebLogic.  
Workaround: Publish the Google Big query report by making use of the Data source available in JasperReports Server instead of the Data adapter.
- **JS-32077:** Multi-select input controls for reports treat the values as case-sensitive even if the data source is case-insensitive.
- **JRIO-707:** Observed 500 error when invalid parameter value is provided in the POST request body.
- **JSS-3194:** jasperQL: Aggregate functions are not getting applied on the Fields.
- **JRL-242** (was 17824): While Fusion Charts support annotations, JasperReports Server and Jaspersoft Studio don't support them. We may address this issue in a subsequent release.