



# **JasperReports® Server Release Notes**

*Software Release 7.5*

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## CHAPTER 1 INTRODUCTION

JasperReports® Server 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 installation and available functionality at a high level; for details, see the [online help](#) and the documentation, which is available at:

- <http://community.jaspersoft.com/documentation>
- <https://docs.tibco.com>
- <js-install>/docs (after installation)

In particular, see the *JasperReports Server Installation Guide* for instructions about running the installer, creating and updating the database, and deploying the WAR file; see the *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 <js-install>/Jaspersoft-Subscription-Services-Agreement.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:

- **What's New**
- **Installation and Basic Usage**
- **Upgrade Notes**
- **Known Issues**
- **Release Distributions**
- **End of Support Notices**
- **Reported Issues Fixed in this Release**



## CHAPTER 2 WHAT'S NEW

This section describes new features introduced in the Jaspersoft BI Suite Version 7 release. For information regarding features added to Version 6 releases, see the latest 6.4.x release notes.

### 2.1 Version 7.5.0

JasperReports Server 7.5.0 adds these improvements:

- **Updated user interface.** This release includes a new look and feel that is crisp and easy to navigate. It keeps the familiar layout and provides updated icons, styling, and colors throughout the application:
  - The home page has a simpler layout with all BI tools in a single column and introduces a color-coding of features that is consistent throughout the application. For example, the green icon for finding reports on the home page matches the green icon for adding a report in the Dashboard Designer.
  - The pages for creating data sources have been streamlined and color-coded.
  - The Domain Designer has new icons for tables, fields, joins, sets, and others throughout.
  - The Report Viewer, Ad Hoc Designer, and Dashboard Designer are all updated with new icons, color-coding, and matching styles so that viewing data is clearer and creating visualizations is simpler.
- **Three new visualizations.** The new gauge types are the circular gauge, the multi-level gauge, and the arc gauge. These gauges have formatting properties to set minimum and maximum values, colors for value ranges, whether the value is displayed, and if so the number of decimal places and a suffix string such as the % sign.
- **Ad Hoc visualization selector.** This UI element has been updated to choose or switch between visualizations more easily. The visualization selector now lets you choose crosstab or table, and the chart selection includes a sidebar for chart categories. In addition, the visualization mode toolbar drop-list is replaced with a visualization selector button.
- **New color picker dialog.** The Ad Hoc Designer and Dashboard Designer have a new color picker interface for specifying colors to match any palette where visualizations are embedded. The default color selections are expanded, and custom colors may be specified precisely with HEX or RGB entry options.
- **Colors in Ad Hoc charts.** There are several new features in the Ad Hoc Designer that allow greater customization of chart colors. New UI properties allow the user to set the series color, the plot color, and the background color in charts that allow it.
- **Distinct values in Ad Hoc tables.** Tables often contain columns that have duplicate values in many rows, making it difficult to find relevant data. The new distinct values selector in the Ad Hoc Designer hides the duplicate rows and makes tables shorter and easier to read. Note that tables with a totals row will not recalculate the total values when duplicate rows are hidden.

- **Referential Integrity for Domains.** New configuration settings let you adjust how strictly Ad Hoc views and reports are checked against their underlying Domain. By default, fields and measures in a view or report that do not exist in the Domain will cause an error upon opening. Administrators can adjust the level of referential integrity to allow opening views and reports when Domain security causes missing items.
- **Security.** This release of JasperReports Server updates its use of cryptographic keys, for example to encrypt user passwords internally. All keys are now generated and managed in a single keystore for consistency. Keys used for encrypting export catalogs from older versions of the server have new procedures and user interface for importing into this version of the server. For more details, see the *JasperReports Server Security Guide*.
- **Update to Log4j 2.** The logging service now relies on the updated Apache Log4j 2. This upgrade provides higher performance of the loggers and thus less overhead for JasperReports Server. If you have custom loggers, you will need to update their definitions using the new syntax.
- **Java 11.** JasperReports Server runs with Java 8 and Java 11 for certain platforms, see the Platform Support document for more details.

## 2.2 Version 7.2

JasperReports Server 7.2 added these features:

- **New Domain Designer.** We improved and rebuilt the Domain designer's presentation and functionality with:
  - All New User Experience. Our modern web UI with streamlined workflows helps you quickly define and manage Domains, including these helpful usability features:
    - Support for searching across the Domain designer helps you manage large Domains efficiently.
    - **Undo**, **Redo**, and **Undo All** buttons.
    - One single **Save** button (**Save and Submit** is removed).
    - Context-based designer space.
    - Support for profile attributes as schema names, derived tables, calculated fields, and pre-filters.
  - Improved Special Character Handling. We added support for many characters in schema, table, and field names.
  - Improved Joins Support. New features and UI improvements include:
    - New drag and drop interaction helps you create join trees and expressions; you can view the overall logical data model and expand into each join tree.
    - The abilities to rename join trees, use more join operators, and create constant joins.
    - Support for advanced joins that use either a Full or Minimum join path. With Minimum paths, you can assign join weights and force tables to always be included in your overall join expression.
  - Redesigned Presentation including:
    - A single element can now be part of multiple sets (you no longer need to duplicate fields).
    - Sets and items belonging to a single join tree are neatly organized under data islands, providing a clear view of their relationships.
    - Improved presentation shows the properties of sets and items directly on the **Presentation** tab.
    - Inline editing of properties without the need to click an **Edit** button.
    - Similar items and their properties can be compared using search.



- Validation and performance improvements, including:
  - The new model checks the validity of the Domain with every action, and provides real-time feedback in the form of useful icons, helping you maintain the Domain's validity and save without losing changes.
  - Better interface components, paginated loading, and refined client-side rendering all improve the performance of Domains; the new designer handles thousands of tables.
- **New platforms.** This release adds several new third-party platforms:
  - Application servers:
    - Tomcat versions 9.0.1 through 9.0.17
    - WildFly 13, 14, 15, and 16
    - JBoss EAP 7.1
    - Oracle WebLogic 12.2.1.3
    - IBM WebSphere 8.5.5.14
  - Database Servers:
    - PostgreSQL 10.5
    - Microsoft SQL Server 2017
    - Oracle Database 12c Release 2 12.2.0.1
- **Legacy Dashboards End of Life.** With this release, legacy dashboards are no longer available to view or edit. These older objects are no longer supported. *Legacy Dashboards* refers to those developed with the JasperReports Server dashboard designer in versions earlier than 6. These dashboards utilized older architecture that we deprecated. If your installation still includes dashboards in the legacy dashboard format, please recreate them in the new Dashboard designer **before** migrating to this release.
- **Accessibility Support.** To help visually impaired users, we improved keyboard and screen-reader support in the report viewer. You can now navigate the main report viewer menu structure using the keyboard and hear interface descriptions using JAWS-enabled screen readers.
- **JasperReports Library.** This new version provides dynamic control of page numbers.
- **Jaspersoft Studio 7.3.** This new version supports Spotfire 7.11 and higher.

This release also includes enhancements and fixes requested by our customers. For more information, see [“Reported Issues Fixed in this Release” on page 31](#).



The configuration of the `ResourceForwardingServlet` servlet has changed since Release 6. For more information, refer to the , [“New Configuration,” on page 11 in Version 7.1.0](#), below.

## 2.3 Version 7.1.1

Version 7.1.1 was a maintenance release that included improvements requested by customers. For information about the status of specific cases, please visit [TIBCO Jaspersoft Technical Support](http://support.tibco.com) (<http://support.tibco.com>). In addition, we updated the version of Tomcat: Apache Tomcat 8.5.34.

## 2.4 Version 7.1.0

JasperReports Server 7.1.0 added these improvements:

- **Visualize.js Ad Hoc View Support.** Visualize.js provides new building blocks to embed Ad Hoc views, helping application developers build modern, immersive experiences. This release includes:

- A frozen heading pane and infinite scrolling for table and crosstab components; this can greatly improve performance when viewing large result sets.
- CSS inheritance can define crosstab and table styling.
- The ability to capture attributes about table, crosstab, and chart components for use in hyperlinks.
- Object properties that help developers build their own user interfaces for selecting visualization types.
- Parameter and parameter value calls that enable dynamic view updates and custom filter controls in the surrounding application.



OLAP Data Sources are not supported by Ad Hoc views in Visualize.js.

- **Ad Hoc Views.** Ad Hoc views and reports now offer:
  - **Ad Hoc View Referential Integrity.** When items from a Domain are used in a dependent Ad Hoc view, removing the items from the Domain now returns an error message when editing the Ad Hoc view. You're given the option to remove the missing items from the Ad Hoc view to continue using it. The removed items no longer appear in the Data Source Selection panel.
  - **Time Balance Calculations.** The ability to define basic Time Balance properties on measures, providing greater control of time series aggregate data.  
By default, all data are aggregated by summing time series values. New options let you calculate aggregate time values by taking the first or last values of a time series. This benefits cases where opening and ending balance values (such as Inventory and Cash Balances) are measured. These options can change the totals to the sum of the numeric data for a period of time, as well as an average of the numeric values, the first numeric value entered for the period, and the last numeric value entered for the period.
  - **Grouping by Day of the Week.** There is a new option for grouping time series data by Day of Week.
- **Jaspersoft Studio.** Several new features are available in our report designer:
  - **Spotfire (Version 7.5+) Infolink support.** The data adapter for connecting to a Spotfire instance uses the latest public Spotfire API. Report developers can create content from Spotfire data.
  - **Support for properties in datasets and query executors.** Better support for fields and parameters in the Dataset and Query dialog, including support for field properties on the **Fields** tab and show and hide built-in parameters, and the ability to display, create, and edit parameter properties on the Parameters tab. This lets you configure your fields and parameters directly in the Dataset and Query dialog.
  - **Data adapters that connect to a web service.** You can now create data adapters that connect to a web service. You configure these data adapters in the data adapter dialog. When you use this type of data adapter in a report, you can access it in the Dataset and Query dialog: you can auto-discover fields from a node you enter in the query dialogs and view and manage HTTP parameters on the Data Adapter tab.
  - **Enhanced Properties UI.** The advanced properties dialog now displays a searchable list of available properties. You can create expressions, toggle the view to the old Properties dialog, and add properties for your custom classes. Most elements now support expressions in properties.
  - **Support for Data Snapshots.** Jaspersoft Studio now lets you create a JasperReports data snapshot, which contains a sample dataset that contains all sample data necessary to run the report. Storing the data for a report makes it easier to develop reports while offline or to share a functional report with other developers.

You can still create reports and connect to the latest JasperReports Server with previous versions of Jaspersoft Studio.

- **New Platforms.** Components included in the installer have been updated to:
  - PostgreSQL 9.3.20

- Tomcat 8.5.34
- Oracle JDK 8 version 1.8.0\_201 (8u201)
- Spring Framework 3.2.18
- **New Third-party Software Support.** This release adds support for Oracle 12c as a host for the JasperReports Server repository and WebLogic 12.2.1 as the application server.
- **Security Improvement.** JasperReports Server implements a new mechanism to protect against clickjacking attacks. To enable this mechanism, edit a configuration file.
  1. Using a text editor, open the applicationContext-security-web.xml file (found in <js-install>\apache-tomcat\webapps\jasperserver-pro\WEB-INF).
  2. Locate the antiClickJackingEnabled property in the webAppSecurityFilter bean, and set it to true. Setting this property to true instructs JasperReports Server to include an X-Frame-Options header in every response.
  3. You can also set the antiClickJackingOption property to control the header value. Valid values are:
    - DENY - JasperReports Server doesn't load into any iframe.
    - SAMEORIGIN - JasperReports Server only loads into an iframe on a page in the same domain as JasperReports Server.
    - ALLOW-FROM - JasperReports Server only loads in a frame on a page specified in antiClickJackingUri property.
  4. If you set the antiClickJackingOption property to ALLOW-FROM, also be sure to set the antiClickJackingUri property to a valid URI.
  5. Save the file and restart the server.



If you use iframes to embed JasperReports Server (including use of Visualize.js), set the antiClickJackingOption to either SAMEORIGIN (if the embedding host is on the same domain as JasperReports Server) or ALLOW-FROM (if the embedding host is on a different domain than JasperReports Server). If you use ALLOW-FROM, also set the antiClickJackingUri property.

Clickjack protection doesn't support cases in which multiple domains embed JasperReports Server.

- **Directory Access Control.** A new option controls access to resources in the file system of the JasperReports Server host using the ResourceForwardingServlet servlet. The servlet forwards requests to handle browser caching. For example, when it receives calls to /runtime/<hex-code>/<my-resource>, it forwards them to /<my-resource>.
- The servlet controls access using a whitelist that can include both resource and directory names; for simplicity here, we use the term *directories*. The whitelist defines the directories to which access is granted; access to other directories is denied. By default, it lists all the directories that JasperReports Server requires.

### New Configuration



Note that this approach differs from the previous implementation, and requires intervention in fewer cases. In general, you don't need to change it. We recommend that any additions you make to the whitelist be considered carefully and tested thoroughly.

We advise against removing the default values from the list, as this would impair functionality.

To configure this list, edit the forwardWhitelist parameter of the ResourceForwardingServlet servlet in the web.xml file.

1. Using a text editor, open the web.xml file (found in <js-install>\apache-tomcat\webapps\jasperserver-pro\WEB-INF).
2. Locate the `init-param` section of the `ResourceForwardingServlet` servlet.
3. In the `param-value` section of the `forwardWhitelist` parameter, review the comma-separated list of directories that JasperReports Server users should be able to access. This parameter can only list directories under the `jasperserver-pro` deployment directory.
4. If you make changes, save the file, restart the server, and test the application thoroughly.



In a previous version, access to the application's resources was controlled by a blacklist. The blacklist has been removed in favor of this whitelist.

The previous approach sometimes required additional steps. For example, if you restricted access using the `security-constraint` tag in web.xml, you may have also restricted that access using the `ResourceForwardingServlet` servlet. This step is no longer necessary, since access is now denied by default.

If a high-priority case requires you to customize the `ResourceForwardingServlet` servlet and use JasperReports Server to cache a third-party resource, you might consider editing this list and making further customizations; we advise against such changes due to the security risks they might pose.

## CHAPTER 3     INSTALLATION AND BASIC USAGE

This section includes:

- **Installation**
- **Evaluation Licenses**
- **Login**
- **Starting and Stopping**

### 3.1     Installation

You can install JasperReports Server either by running an executable installer or deploying a WAR file. For evaluations, we recommend the installer; for most production instances, we recommend the WAR file. Both the executable and the WAR file are available from [TIBCO Jaspersoft Technical Support](http://support.tibco.com) (<http://support.tibco.com>); download:

- `TIB_js-jrs_7.5.0_<osType>-<arch>.<ext>`
- `TIB_js-jrs_7.5.0_bin.zip`

For more information, see the installation guide, which is found at `<js-install>/docs/JasperReports-Server-Install-Guide.pdf`.

#### 3.1.1     Binary Installer

To install JasperReports Server, you can use the binary installer, which is available for Windows, Linux, and Mac: `TIB_js-jrs_7.5.0_installer-<osType>-<arch>.<ext>`

Double-click the installer and accept the default installation type to create a standard installation. Select the custom installation type to configure your instance to specify the application server and RDBMS to use, among other options. The installer can also be run from the command line.

#### 3.1.2     War File Distribution ZIP js-install Script Installation

You can use the `js-install` command-line shell scripts if you are installing to the third-party products listed in **6.2, “WAR File Binary Distributions,” on page 26**. The scripts are found in this WAR file Distribution ZIP file: `TIB_js-jrs_7.5.0_bin.zip`.

**To install:**

1. Go to the buildomatic folder, create and edit a default\_master.properties file, and run js-install.sh/bat:

```
cd <js-install>/buildomatic  
cp sample_conf/<dbType>_master.properties default_master.properties
```

2. Using a text editor, edit default\_master.properties to add your application server and database server properties:

```
./js-install.sh (or js-install.bat)
```

3. Then change the JAVA\_OPT memory options for your application server following instructions from the installation guide. For example, under Linux with Tomcat running on JDK 1.8, add the following to the top of the <tomcat>/bin/setclasspath.sh file:

```
export JAVA_OPTS="$JAVA_OPTS -Xms1024m -Xmx2048m"  
export JAVA_OPTS="$JAVA_OPTS -Xss2m -XX:+UseConcMarkSweepGC -XX:+CMSClassUnloadingEnabled"
```

4. Next, copy your jasperserver.license to your application server user's home folder:

```
cp <js-install>/jasperserver.license <path-to-home-folder>
```

## 3.2 Evaluation Licenses

The installer includes several evaluation licenses that allow you to run various editions of JasperReports Server. When the evaluation period expires, you must replace the evaluation license with a commercial license to enable the software. See the *JasperReports Server Installation Guide* for information on replacing the license.

If you don't have a commercial license, contact your sales representative. During your evaluation, we invite you to use [Jaspersoft Quick Start Guide](#) and the [online help](#) to learn about our products.

## 3.3 Login

To login after installation, use the following URL:

```
http://<hostname>:8080/jasperserver-pro
```

These users are created during installation:

Default User	Password
<b>Always created</b>	
superuser	superuser
jasperadmin	jasperadmin

If you install the sample data, these users are also created:

Sample User	Password
joeuser	joeuser
demo	demo



For security reasons, always change the default passwords immediately after installing JasperReports Server.

## 3.4 Starting and Stopping

This section describes how to start and stop the server if you installed using the binary installer. If you used another installation method, see the *JasperReports Server Installation Guide*.

### 3.4.1 Windows

You can start and stop from the Windows menu: click **Programs > JasperReports Server 7.5.0 > Start and Stop > Start Service or Stop Service**.

### 3.4.2 Linux

You can start and stop from the command line:

```
./<js-install>/ctlscript.sh (start|stop)
```

### 3.4.3 Mac OS X

From Finder, double-click the start, stop, or login apps:

```
/Applications/jasperreports-server-7.5.0/jasperServerStart.app
```

```
/Applications/jasperreports-server-7.5.0/jasperServerStop.app
```

```
/Applications/jasperreports-server-7.5.0/jasperServerLogin.app
```

Alternatively, you can start/stop from the OS X command line:

```
./<js-install>/ctlscript.sh (start|stop)
```





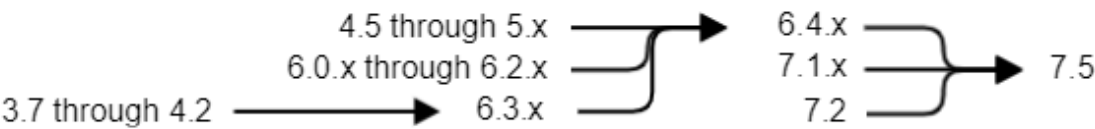
# CHAPTER 4    UPGRADE NOTES

This section includes:

- **Introduction**
- **Database Changes**
- **Upgrade from Community Project**
- **Important Upgrade Information**

## 4.1    Introduction

Your current version determines your upgrade path:



**Figure 4-1    Paths for Upgrading to Version 7.5**

You can upgrade directly to 7.5.0 if your instance is one of the following:

<b>Version 6</b>	6.4.x	
<b>Version 7</b>	7.1.x	7.2

If your instance is one of the versions listed below, you must first upgrade to the latest version of 6.4.x before upgrading to 7.5.0:

<b>Version 6</b>	6.0.x	6.1.x	6.2.x	6.3.x	
<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 6.4.x, before finally upgrading to 7.5.0:

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

To upgrade, start with the WAR File Distribution ZIP: `TIB_js-jrs_7.5.0_bin.zip`

Downloaded it from [TIBCO Jaspersoft Technical Support](http://support.tibco.com) (<http://support.tibco.com>).

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



If you are upgrading from certain versions of JasperReports Server, such as 6.0, 6.0.1, 6.1, or 6.2.0, the upgrade involves substantial changes that may require you to plan and prepare beforehand. See the *JasperReports Server Upgrade Guide* for advice regarding these important considerations. Also, see [4.4, “Important Upgrade Information,” on page 18](#).

## 4.2 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, and 7.5.

## 4.3 Upgrade from Community Project

If your current instance is the Community version, you can follow Chapter 6 of the *JasperReports Server Upgrade Guide* to upgrade to the Commercial version.

## 4.4 Important Upgrade Information

This section touches on special considerations for upgrading to this release. These considerations are spelled out more thoroughly in the *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 *Changes in 7.5 that May Affect Your Upgrade* in the *JasperReports Server 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 5 KNOWN ISSUES

This section describes issues you may need to be aware of, including:

- **Current Known Issues**
- **Known Issues Addressed in this Release**
- **Known Issues Addressed in Previous Releases**

For information about the status of specific cases, please visit [TIBCO Jaspersoft Technical Support](http://support.tibco.com) (<http://support.tibco.com>). For information regarding known issues found or addressed in Version 6 releases, see the 6.4.x release notes.

### 5.1 Current Known Issues

We're aware of these issues in this release of JasperReports Server:

- **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.
- **JRS-15530**: The UI Samples page for administrators, available in previous releases, has been removed. When testing themes and other cosmetic changes or customizations to the web UI, please navigate to a page with the component you're changing rather than viewing the samples page. We may address this issue in a subsequent release.
- **JS-19100** (was 30018): When an XML/A provider returns data to the Ad Hoc Editor, JasperReports Server sometimes must convert the datatype to `string`. For example, an XML/A provider may return data of type `currency`; in an Ad Hoc view, such currency data is a string that displays as a symbol (such as \$) and a number. When such an XML/A-based Ad Hoc view is saved as a report, its datatypes are converted again. JasperReports Server attempts to convert the data to their original types, but in some cases, such as `currency`, no such type is available, and so currency data is converted to type `double`. In reports created from an Ad Hoc view, XML/A data that was returned with datatype `currency` is displayed as a number; the currency symbol is omitted. We may address this issue in a subsequent release.
- **JS-30847** (was 43707): If a dashboard contains an image dashlet that relies on the `repo:` syntax to refer to its image, and superuser exports the dashboard (using the repository's **Export** context menu item or the **Manage > Server Settings > Export** page), the image isn't exported with the dashboard. We may address this issue in a subsequent release.
- **JS-32077**: Multi-select input controls for reports treat the values as case-sensitive even if the data source is case-insensitive.
- **JS-33114**: Exporting a report with large frame elements as an Excel spreadsheet may result in high memory usage, even when using a virtualizer.

- **JS-33304:** Migrating from an earlier version of JasperReports Server with thousands of resources associated with an Oracle-based domain may result JasperReports Server being unable to edit the domain.
- **JS-34346:** This release changes resource visibility constraints in multi-tenant deployments (that is, those that include more than one organization). The change disables certain cases of improper resource referencing, such as providing an absolute repository path (starting with the root organization) for a resource referenced in a report. If you have a reference to an image, a subreport, or other resource that has an absolute path (or uses a `$P{}` parameter that later resolves to an absolute path), the server returns an error. Please update such references to use path that are visible to users in the organization in question. Consider using relative paths, or use the public folder for reports used by multiple organizations.
- **JS-34721:** Running `node.js` to optimize your JavaScript files results in the Visualize.js framework no longer working due to missing references in the optimized `visualize.js` script.
- **JS-34763:** Exporting scheduled jobs in bulk results in an empty ZIP file. If you want to export scheduled jobs, you must export them individually.
- **JS-34767:** Administrators in a attempting to import a file receive the following error message on the first attempt: "Import failed. Import of an organization to the root is not allowed." Importing the file a second time will be successful. Administrators in a multi-tenant organization can work around this issue by going to **Manage > Server Settings** and right-clicking **Organization** in the tree and choosing **Import...** to import the file. Administrators in a single-tenant organization must go through the import procedure twice in order to import a file.
- **JS-34837:** Running an uploaded report that uses a non-existent table will result in an error. If you attempt to delete the organization that holds the report after running it, you will receive an error and will not be able to delete the organization.
- **JS-35409:** Creating a domain using a virtual data source based on an Oracle data source may result in an error and the domain not being created. This is due to performance issues with virtual data sources using Oracle data sources.
- **JS-36540:** The binary installer for this release does not run properly on Ubuntu 18.04. Clicking the **Finish** button at the end of installation does not close the installer.
- **JS-38006:** The permissions window in the repository shows the Read + Write + Delete option twice in the drop-down list.
- **JS-41999:** Changing an Ad Hoc View from table to crosstab may change the timestamp data due to incorrect categorizers for timestamps in the query.
- **JS-55770:** JasperReports Server cannot be deployed as the root application in Tomcat.
- **JS-56033:** Two identical Ad Hoc tables in a domain using different data sources may end up sharing the same cache, resulting in one of the tables displaying incorrect data.
- **JS-56039:** This release will not allow you to open or edit a domain created in an earlier version JasperReports Server if it has a calculated field that refers to a field that no longer exists in the data source.
- **JS-56108:** On AWS instances, the `js-ant export` and `js-ant import` commands may return unexpected errors when using options to specify import-export keys. Instead, use the `js-export` and `js-import` scripts (`.bat` on Windows or `.sh` on Linux) in the `buildomatic` folder. These scripts have been tested on AWS with the new options for import-export keys.
- **JS-56172:** Support for the Groovy language in JRS has been upgraded to version 2.5.7. There is a documented issue with this version of Groovy, where expressions referencing objects of type `java.util.Date` can no longer use additional methods provided by Groovy. For example, the Groovy expression `new Date().format('MM/dd/yy')` would produce an error. This would affect Groovy code in domain security XML files or any DomEL expressions using the `groovy()` function.

## 5.2 Known Issues Addressed in this Release

These defects, which were listed in the release notes of previous versions, were addressed in this release:

- **JS-30677** (was 43514): We have found that earlier versions of PhantomJS may not support or include all the fonts JasperReports Server uses when exporting dashboards. For example:
  - If a dashboard contains fonts for certain locales (such as Japan and China), the text isn't rendered properly in the exported dashboard.
  - If a table in a dashboard has been filtered or sorted, the sort and filter icons aren't rendered properly in the exported dashboard. Sorted crosstabs exhibit similar behavior.

The version of PhantomJS included with JasperReports Server 7.5 fixes these issues. If you continue to experience such issues, upgrade PhantomJS to at least version 2.0.

- **JS-31493** (was 44499): The dual-measure tree map, tree map, and parent tree map chart types previously didn't support the hyperlink functionality when an Ad Hoc view or report is used in a dashboard.

## 5.3 Known Issues Addressed in Previous Releases

These defects, which were listed in the release notes of previous versions, were addressed in a previous release:

- **JA-926** (was 35986): When upgrading from earlier versions (such as 5.2), users had to take additional steps if they connected Jaspersoft OLAP's XML/A functionality to a remote JasperReports Server's XML/A sources. For more information, refer to the upgrade instructions for the latest version of JasperReports Server 5.6.x.
- **JRL-30**: When JasperReports Server is hosted under certain combinations of Windows and application servers (such as WildFly 9 on Windows 8.1 or Tomcat 8 on Windows 10), the server becomes unresponsive when a user exports a report; the server responds again once the export completes. We added instructions for working around this problem to the *JasperReports Server Administrator Guide*.
- **JRS-11883**: Some application servers, such as Tomcat, are ending their support of the pipe character (`|`), which is the delimiter between a user's name and organization when they are passed as a URL to the server; in this case, the application server returns an illegal character error. Our examples and documentation now use `%7c` instead of pipe.

For example, instead of:

```
homeFlow&j_username=jasperadmin|organization_1
```

we now use:

```
homeFlow&j_username=jasperadmin%7corganization_1
```

- **JRS-15525**: In the course of testing Wildfly 8.1 with earlier versions of JasperReports Server, we discovered issues that prevented the server from starting. Because the issues aren't present in later versions of WildFly, we have ended support for Wildfly 8.1.
- **JRS-15389**: Some required and optional Tomcat configurations were mischaracterized in our user documentation. See the *JasperReports Server Installation Guide* and *JasperReports Server Security Guide* for corrected steps.
- **JS-20916** (was 32168): Though we didn't strictly support the practice, you could create a clone install of previous versions of JasperReports Server in JBoss. In more recent JBoss versions, issues with clone install of JasperReports Server force us recommend against their use. For more information, see this [article on our Community website](#).

- **JS-30583** (was 43387): We are aware of significant performance issues when the server is run in certain versions of Tomcat. We no longer support version 8.0.x, and recommend 8.5.43 or later.
- **JS-32199**: In previous versions of JasperReports Server, Domain security could be applied by checking user's attributes via the `authentication.principal.attributes` method of the REST API. Now, the `authentication.principal.attributes` method is no longer supported; discontinue its use in production and test environments. Instead, use the `attributesService`.

For more information, refer to the *JasperReports Server REST API Reference*, as well as the *JasperReports Server Security Guide* section about updating your Domain security file to use `attributesService`.



## CHAPTER 6 RELEASE DISTRIBUTIONS

This section describes:

- **Installation Executables**
- **WAR File Binary Distributions**

For more information, see the *Jaspersoft Platform Support* document, which is available from [TIBCO Jaspersoft Technical Support](http://support.tibco.com) (<http://support.tibco.com>).

### 6.1 Installation Executables

The provided executables support various operating systems and install the required components.

#### 6.1.1 Operating Systems

The installers are available for 64-bit versions of these operating systems:

Linux Installer	Windows Installer	Mac OS X Installer	Other
<ul style="list-style-type: none"><li>• Red Hat Enterprise Linux 6.10, 7.4, 7.5, 7.6</li><li>• Novell SUSE Linux Enterprise Server 12.1</li><li>• Ubuntu 14.04 LTS and 18.04 LTS*</li><li>• CentOS 6.x and 7.x</li></ul>	<ul style="list-style-type: none"><li>• Windows 10, 2012, 2016, 2019</li></ul>	<ul style="list-style-type: none"><li>• Mountain Lion (10.8)</li><li>• Maverick (10.9)</li><li>• Yosemite (10.10.1)</li><li>• El Capitan (10.11)</li><li>• Sierra (10.12)</li><li>• High Sierra (10.13)</li><li>• Mojave (10.14)</li></ul>	<ul style="list-style-type: none"><li>• Solaris SPARC 10 and 11</li><li>• FreeBSD 12</li><li>• IBM AIX 7.2</li><li>• Debian 8 and 9</li></ul>



\* Binary installer not available on Ubuntu 18.04 LTS

## 6.1.2 Components in the Installer

The executable installers contain all the components needed to run the JasperReports Server web application, including:

- Apache Tomcat 8.5.43
- PostgreSQL 9.3.20
- Oracle JDK 8 version 1.8.0\_201 (8u201)
- JasperReports Server Web Application (WAR) file
- PhantomJS 2.1.1



During installation, you can choose whether to use an existing instance of Tomcat or create a new one to host JasperReports Server. Similarly, you can choose whether to use an existing instance of PostgreSQL or create a new one. These choices are entirely independent; you can use either an existing instance or create a new instance of either.

## 6.2 WAR File Binary Distributions

The WAR File Binary Distribution contains sample configurations and repository database setup scripts for the following applications.

### 6.2.1 Java Virtual Machines

- Oracle JDK 1.8 (minimum version required 1.8.0\_163)
- OpenJDK 1.8
- IBM JDK 1.8
- Oracle JDK 11
- Open JDK 11
- AdoptOpenJDK 11 with IBM J9



Only 64-bit JDKs are supported.

### 6.2.2 Application Servers

- Apache Tomcat:
  - Tomcat 8.5.0 through 8.5.43 (we recommend 8.5.43)
  - Tomcat 9.0.1 through 9.0.27
- JBoss EAP 7.0, 7.1 and 7.2
- WildFly 15 and 16
- Oracle WebLogic Server 12cR2 (12.2.1.0), 12cR2 (12.2.1.1), 12cR2 (12.2.1.2), and 12cR2 (12.2.1.3)
- IBM WebSphere 8.5.5 Fix Pack 14 (8.5.5.14)

### 6.2.3 Database Servers

- PostgreSQL 9.4.19, 9.5.14, 9.6.10, 10.5, and 11

- MySQL 5.5.62, 5.6.46, and 5.7.28
- IBM DB2 10.5
- Microsoft SQL Server 2014, 2016, and 2017
- Oracle RDBMS 12cR1 12.1.0.2, 12cR2 12.2.0.1, 18c (18.3), 19c



## CHAPTER 7    END OF SUPPORT NOTICES

TIBCO Jaspersoft is in the process of ending support for these technologies:

- As of version 7.5, TIBCO Jaspersoft will no longer certify or support Glassfish as an application server. Customers planning to use version 7.5 or higher of Jaspersoft products will need to migrate their environments to another certified application server. Please see the *Jaspersoft Platform Support* document for more information about certified application servers.
- As of version 7.5, TIBCO Jaspersoft will no longer certify or support HP-UX as an operating system. Customers planning to use version 7.5 or higher of Jaspersoft products will need to migrate their environments to another certified operating system. Please see the *Jaspersoft Platform Support* document for more information about certified operating systems.
- Because Oracle is ending support for Java 8, TIBCO will also end support for Java 8 in a subsequent version of JasperReports Server. We recommend that you migrate your Java environment to version 11 at your earliest convenience.
- TIBCO Jaspersoft will be deprecating static and dynamic HTTP parameter encoding. When sending passwords to JasperReports Server in HTTP parameters, you can request an encryption key from the server and use Javascript to encrypt the sensitive information. This feature is being deprecated and administrators are encouraged to use Transport Layer Security (TLS) to enable HTTPS.
- TIBCO Jaspersoft will be deprecating Rhino in a future release. In this release, Rhino is still supported.
- We are deprecating Jaspersoft OLAP views. In this release, OLAP views and the objects that underlie them (such as Mondrian connections, XML/A connections, cube schemas, and access grant definitions) remain intact. However, OLAP data sources aren't supported when Visualize.js embeds an Ad Hoc view.
- We removed the original REST API v1 and SOAP web services from JasperReports Server. Please migrate your integration to the latest API available: Jaspersoft v2 REST API.
- Previous releases of JasperReports Server were certified with certain portal servers, such as JBoss and Liferay. Communication with these servers relied on the web services that we removed. As a result, we no longer certify portal servers.
- The Ad Hoc Editor no longer supports JFreeCharts types of chart. If your Ad Hoc views include JFreeCharts, migrate them to our more recent standard, HighCharts.
- We have deprecated our Open Flash functionality in favor of HTML5 solutions. In particular, the Flash export option has been removed from the report viewer. If you want to re-enable this option, refer to the latest 6.x release notes.

- JasperReports Server no longer supports the following third-party software:
  - Operating Systems:
    - All 32-bit operating systems
    - Microsoft Windows Vista SP2, 7 SP1, 8, 8.1, and Windows 2K8 R1 and R2
    - Red Hat Enterprise Linux (64-bit) 6.x before 6.10
    - Debian 6
    - Fedora 22 and 27
    - HP-UX
    - FreeBSD 8.1, 10.3, and 11.1
    - Ubuntu 17.04
  - Application Servers:
    - WebLogic 10.3.6, 12.1.1, and 12.1.2, and 12.1.3
    - WebSphere 8.5.5.8, 8.5.5.11, 8.5.5.12, and 8.5.5.13
    - Tomcat 7 and 8.0
    - WildFly 8.1, 8.2, 9, 10, 10.1, 11, 12, 13, and 14
    - JBoss EAP 6.1.1, 6.2, 6.3, and 6.4
    - GlassFish
  - Database Servers:
    - PostgreSQL 9.2
    - MySQL 5.1
    - Oracle RDBMS 11g R2
    - IBM DB2 9.7 and 10.1
    - Microsoft SQL Server 2012R2
  - Java Development Kit: JDK 1.7
- Support for some versions of our Jaspersoft BI Suite products, including JasperReports Library, JasperReports Server, and Jaspersoft Studio, has ended:

Version Number	End of Life Date
5.6.x	November 30, 2016
6.0.x	May 28, 2017
6.1.x	November 20, 2017
6.2.x	June 28, 2018
6.3.x	June 28, 2019

- Support for version 6.4.x of our Jaspersoft BI Suite products, including JasperReports Library, JasperReports Server, and Jaspersoft Studio will end on May 8, 2020.

## APPENDIX A    REPORTED ISSUES FIXED IN THIS RELEASE

We fixed the following issues in this release:

- JRL-991: exception during thumbnail creation involving SwapVirtualizer
- JRL-1406: CheckSum property is not behaving correctly in Barbeque EAN 128 BarCode
- JRL-1425: CSV Metadata exporter repeats Group header if there's a single row per page
- JS-8834: 65535 byte limit exceeded Error running ad hoc report with filters with lots of values
- JS-11458: Data Chooser and Domain Designer - pre-Filter - message - too many rows is not visible for Is One Of filter
- JS-15004: Input Control dialog has no visible focus mark on its buttons
- JS-21811: MariaDB issues on overlay upgrade from 5.0 to 5.2
- JS-22229: When marking input control NOT visible, report doesn't run without refresh button
- JS-22706: Untranslated tooltip in Report/Control and Resources/Create Input Control
- JS-25217: Filter on Table component in Dashboard cut off
- JS-25546: CAL\_first\_day not working (calendar.properties)
- JS-25690: Error if Apply is used more than once
- JS-26987: After changing adhoc view filter from EQUAL to IS ONE OF, user is unable to edit an existing job using the adhoc view report
- JS-27234: When decorate=no the zoom and search menus do not popup
- JS-27527: DateTimeOffset Field treated as string when extracted from MS SQL Server
- JS-28241: Error when trying to exclude the field without selection in adhoc editor
- JS-28339: Datepicker, French: Today is Courant, should be aujourd'hui
- JS-28770: Input controls and Filters don't work in calendar picker if date format is changed
- JS-29438: Visualize.js: Crosstab and background band are misaligned
- JS-30076: Dashboard: all pages are not available via pagination controls during the report execution
- JS-30423: 508c: Library list is jumping on scroll for the first time if no list elements were selected
- JS-30561: Pop up Error when placing the same item in Ad Hoc View
- JS-30694: My Search Results page can cycle automatically between sort by filters when rapidly changed.
- JS-31224: No longer possible to change topics folders
- JS-32188: Cascading inputcontrols are broken in dashboards
- JS-32238: Input Controls String are not passed as Unicode to MS SQL Server
- JS-32461: Ability for export from Ad Hoc View and Ad Hoc Report to have "no data" band
- JS-32598: Report description is truncated in repository when viewing with Chrome web browser
- JS-32687: Visualize.js: Incorrect JIVE behaviour for empty Table column
- JS-32749: Ad-hoc view should show error message instead of error in the log file only

- JS-33010: Server side concurrency issue when running dashboards repeatedly via Visualize.JS
- JS-33273: Job List Page - Date format is hardcoded for Last Run / Next Run columns
- JS-33366: When creating an adhoc view, if the resource ID is a folder with double-byte characters, it can not be opened due to an error
- JS-33410: Tooltip incorrect for Recently Viewed Items with no Description
- JS-33431: JRS in cluster of 2 instances - Getting "JRRuntimeException: Error virtualizing object" errors when using SharedVirtualizerStoreFactory
- JS-33454: Disable legend item does not work on IE 11
- JS-33538: Calculated Field shows blank value in Ad Hoc view using Table mode
- JS-33668: Escape characters displayed in jasper.report.view.data.snapshot.message with "/" separator
- JS-33769: SQLException when using date expressions in report filter
- JS-33834: Missing rows with null values (date type) with "is between" filter
- JS-33881: In Dashboard filter pane, the dropdown input control does not shrink after selecting a value in IE11
- JS-33896: Dashboard - Cascading input control selected value issue
- JS-33966: Content scaling issue after maximize one report unit in a dashboard
- JS-34004: JRS 7.1.0 default timestamp format uses minute to display month field for query based report
- JS-34008: Cannot see folder content after download in IE
- JS-34081: Certain Ad Hoc Views fail after migration to JRS 7.1.0
- JS-34139: All filters are empty in Ad Hoc report built using a Topic with a Stored Procedure
- JS-34169: Visualize.js: Relative Dates validation does not work correctly in input controls
- JS-34241: Repository UI: resource description pop-up/tooltip stays on screen on mouseleave event
- JS-34253: Calculated measures that are using other calculated measures break Ad Hoc View
- JS-34302: Domain Query based input controls no longer work in 7.1
- JS-34349: Chart themes are not working after upgrade from 6.1 to 6.4.3
- JS-34352: Can't disable JIVE at column level in report fetched via visualize.js
- JS-34373: Lack of output escaping of json from library page form submit
- JS-34401: Dashlets are truncated if adhoc report title is huge
- JS-34409: Visualize + JIVE: Filtering and Formatting Jive dialogs appears on top of the page every time
- JS-34421: SQL exposed to regular users in crosstabs
- JS-34449: Non-ASCII symbols get transformed to unicode codes in Fusion Charts when using new PhantomJS configuration property
- JS-34465: Decorate=no disables search and zoom dropdowns
- JS-34482: JRS 7.1.x is missing RequestContextListener class in web.xml for configuration for failover
- JS-34493: Dashboard Chart based on Topic can not be edited
- JS-34522: AdhocView: Export result is incorrect
- JS-34523: Slow db query on JIAccessEvent slows js-import in 7.1.1
- JS-34526: Tooltip with field description is not available in "Create Calculated field" menu
- JS-34617: Domain column level security breaks existing Ad Hoc Reports
- JS-34620: Count distinct in crosstabs over date fields doesn't show correct numbers
- JS-34623: Adhoc Views Failing with referential Integrity after the upgrade to 7.1.1
- JS-34634: Adhoc Views Fail with Missed Items after upgrade to 7.1.0
- JS-34651: Aggregation is not working with MongoDB 3.6
- JS-34660: Setting tableTypes not working
- JS-34669: Virtualizer files not removing in dashboards and when embed report or dashboards by visualize.js
- JS-34673: Topics not saving display name changes



- JS-34684: Table header overlapping with in-page IC display when report with wide dimension is displayed in JRS report viewer web UI
- JS-34685: Dropdown in Ad Hoc View not working with Firefox v.68
- JS-34691: Default format for JRS output of java.sql.Timestamp changed
- JS-34718: Domain field description no more than 256
- JS-34752: Report Got SQL Validation Error (6632) in JRS 7.2.0 While Working in JRS 6.3.0
- JS-34759: Using encrypted passwords in request URLs cause memory leak
- JS-34765: Dashboard designer crosstab layout issue when decorate=no
- JS-34766: SQL based Input Control Label is not updated if the same value returned by JRS
- JS-34772: Double brackets for in clause in domain based report
- JS-34781: Domain Designer: Editing pre-7.2 Domain schema results in empty Sets and Items
- JS-34810: IE11 - Ad Hoc Editor goes blank when moving the column to rows sometimes
- JS-34823: Unpredictable hyperlink behavior after upgrading from 6.4 to 7.2
- JS-34831: Domain joins difference between v7.1.0 and v7.2.0
- JS-55439: "TypeError: t.\_root.registerPart is not a function" error when visualize.js displays particular report
- JS-55470: Unable to browse SSH key file from Repository with EXECUTY\_ONLY permission for Public folder
- JS-55618: Custom Input Controls are not working after upgrade from 6.3.0
- JSS-1695: Repository Explorer not working correctly when JRS is behind proxy (port 8080 closed by firewall)
- JSS-1724: Expression in Crosstab Expression Editor is marked as not valid even if it works fine
- JSS-1731: Opening JRXML results in NPE with JRS on HTTPS over proxy
- JSS-1748: "Could not resolve type id 'multiAxes' as a subtype" error when open report from repository
- JSS-1751: 'Copy from Master' no longer works in 7.2.0 for subreport parameters
- JSS-1760: Download to file wizard applies .png suffix to BMP format images
- JSS-2661: Highcharts properties: Ad Hoc report properties are defined under "\_jrs\_adhoc" context but not "default"
- JSS-2666: Must restart JSS after adding JAR files

For information about cases fixed in previous releases, see that version's release notes. For information about the your specific cases, please visit [TIBCO Jaspersoft Technical Support](http://support.tibco.com) (<http://support.tibco.com>).

