



Integrate and embed with Jaspersoft commercial edition

Bring analytics and reporting directly into your application faster than building it yourself

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At a glance

Jaspersoft is built on an open-source foundation and takes an API-first approach giving developers a direct line to all of its incredible functionality. Whether you're using Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), some combination or something else, our software is architecture agnostic, making it easy to embed reporting and analytics into any application environment.

Integrate and maintain with ease

With Jaspersoft, you can integrate two key areas, authentication and the user interface, to bring the power of embedded business intelligence directly into your application and give your customers richer context and real-time information within the user experience they're familiar with. Based on modern REST API with an HTML5/CSS driven user interface, Jaspersoft can easily be rebranded to match your style and provide built-in multi-tenant support.

API-first approach

Jaspersoft provides several interfaces that allow you to integrate and embed BI into your apps. Below is an overview on how to directly access Jaspersoft's incredible functionality.

| | Visualize.js | HTTP API (iframes) | REST API (web services) | Java API |
|-------------------------|--|--|---|--|
| Primary function | Offers an Immersive embedding experience | Directly embeds JasperReports Server UI via iframe in your application | Access to web services, provides control of JasperReports Server's functionality and data access | Embeds JasperReports Library into any Java application |
| Effort | Low code/no code approach | Low code/no code approach | Medium effort | High effort |
| Control | High control | Low control | High control | High control |
| Provides | In-page analytics with interactivity between the reports and your application | In-application analytics to provide a more sophisticated report or dashboard | In-application analytics and controls Jaspersoft functionality | Pixel-perfect reporting within your application |
| Use case | If you want to embed visualizations like reports, dashboards, ad hoc view, input controls to look like they are native to your application | If you want to embed Jaspersoft's report viewer, Ad Hoc Designer, or Dashboard Designer & viewer | If you need to manage resources, permissions, users, roles, organizations, run reports, schedule reports & dashboards | If you need to embed our community edition or commercial edition where users don't need multitenancy, repository, or permissions |

Continue reading for more details on the differences between our embedding options.

Visualize.js

The Visualize.js API is a JavaScript library that allows web pages and web applications to embed JasperReports Server features. A smaller subset of Visualize.js related to report execution is available for JasperReports IO. It offers the most flexibility when it comes to UI design and interactivity. Being a native JavaScript API, Visualize.js lets you design your own dynamic HTML interface for the visualizations you want to display and embed the report anywhere in your page or application. The JavaScript API exposed through Visualize.js allows you to embed and dynamically interact with reports, ad hoc views, dashboards, and input controls with a low code/no code approach. Users can sort columns, filter values, and even set conditional colors on Visualize.js reports. They can then export to a variety of different file formats like PDF, CSV, and Microsoft Word or Excel. The Visualize.js API also lets you interact with and modify the DOM (Document Object Model) of the report if you want to make these same changes programmatically. You can control the look and feel of all elements through CSS and invent new ways to merge data into your application.

Key features:

- JavaScript API for immersive embedding
- Control the look and feel of all elements
- Design your own dynamic HTML interface to customize the user experience using Visualize.js

Please view [live samples](#).

HTTP API

The HTTP interface provides an easy way to implement the API for accessing repository objects. Reports, dashboards and parts of the Jaspersoft application can be called via HTTP and embedded via iframe into your applications. Even the Ad Hoc and Dashboard Designer can be embedded. However, the HTTP interface can't be embedded the way the web services and Visualize.js APIs can be in non-Jaspersoft applications. Rather, the HTTP interface is used primarily as shortcuts or entry points to commonly used features or content. Typically, the HTTP interface is accessed programmatically by generating the URL that returns HTML that displays either the desired object (in the case of report execution and repository URLs) or the content of repository objects (such as report output in the form of content resources).

Key features:

- Quickly access JasperReports Server to retrieve resources
- Embed reports and dashboards via iframe
- Integrate Ad Hoc or Dashboard Designer

REST API

The JasperReports Server and JasperReports IO REST API is an application programming interface that follows the guidelines of REpresentational State Transfer design to allow a client application to interact with the server or reporting microservices through the HTTP protocol. With a few exceptions, the REST API allows clients to interact with all features of the server, such as running, exporting, and scheduling reports, reading and writing resources in the repository, and managing organizations, roles, and users.

Web Service requests are authenticated using Spring Security and can be configured to use HTTPS. The REST API requires credentials for every operation and enforces the same permissions and administrator restrictions as the server's user interface.

Key features:

- Control all the elements of JasperReports Server and JasperReports IO functionality
- Used to authenticate, access services, and run a report
- Divided into services that encompass feature operations

Java API

With the Java API provided by JasperReports Library, you can seamlessly integrate pixel-perfect reporting into your Java application.

Key features:

- Made for Java applications
- Used to embed JasperReports Library
- Provides pixel-perfect reporting

[Contact us for details and pricing](#) or start a [30-day trial of Jaspersoft commercial edition](#) today.



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