# 8.8 BPM Platform Release Notes
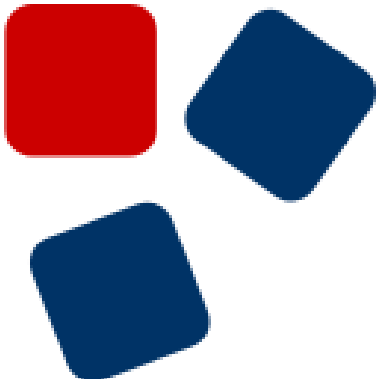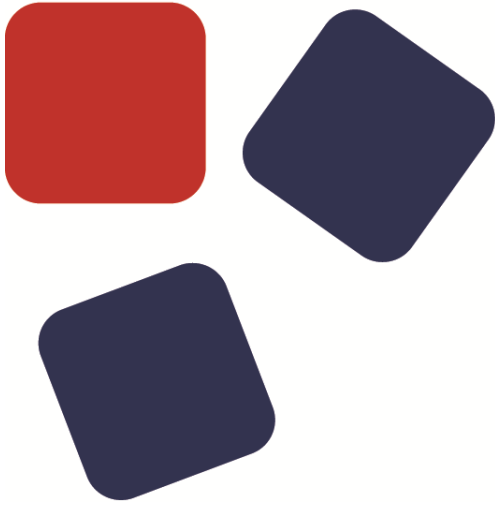
WEB RATIO®

# RELEASE NOTES
## WebRatio BPM Platform 8.8

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## INTRODUCTION

WebRatio BPM Platform is a powerful development environment that supports Business Analysts in building an application that manages their business process through a BPM engine. Let's look at the main functionalities of this product release.

# REST API Improvements

## REST API Improvements

### Delete Process Archive

The process administrator can now use the delete process archive method (bpmengine/processe-archives/{process-archive-id}) to delete a process archive. The request requires the "process archive id" parameter to work properly.

### Admin View Improvements

### Delete Process Archive

The process administrator can now delete an uploaded process archive.

## FIXED IN 8.8.3

- Fixed a problem related to a BPMN project with an Apache Derby database. Now the swagger page also works properly when the schema is not specified.

## FIXED IN 8.8.1

- Fixed a problem related to a BPMN project with an Apache Derby database. Now the swagger page works properly also when the schema is not specified.

## FIXED IN 8.8.0

- Improved the BPM Admin View for a BPM process. Now if a process is active, it only shows the button to suspend it. Otherwise, if it is suspended, it shows the button to activate it.

- Fixed a problem of the "Convert To" option available for operation components. Now the Component Conversion dialog properly shows only the available target operations.

- Improved the "Split flow and insert" function available for operation components. Now the command creates a data flow only if there was parameter binding on the original navigation.

# THIRD PARTY LIBRARIES

## Java libraries

| Library | Link |
|---|---|
| **ANTLR 2.7.7**<br>ANTL is a language tool that provides a framework for constructing recognizers, compilers, and translators from grammatical descriptions containing Java, C#, C++, or Python actions. | ANTLR 2 |
| **Apache Commons BeanUtils Core 1.8.3**<br>BeanUtils component provides easy-to-use wrappers around the Java language Reflection and Introspection APIs. | BeanUtils |
| **Apache Commons Codec 1.10**<br>Apache Commons Codec (TM) software provides implementations of common encoders and decoders such as Base64, Hex, Phonetic and URLs. | Codec |
| **Apache Commons Collections 3.2.1**<br>Commons-Collections builds upon the JDK data structures classes by providing new interfaces, implementations and utilities that accelerate development of most significant Java applications. | Collections |
| **Apache Commons DBCP 1.4**<br>This Commons package provides Database Connection Pools facilities. | DBCP |
| **Apache Commons Digester 1.8.1**<br>The Digester package lets configure an XML -> Java object mapping module, which triggers certain actions called rules whenever a particular pattern of nested XML elements is recognized. | Digester |
| **Apache Commons Exec 1.2**<br>Allow to execute the external processes from Java. | Exec |
| **Apache Commons HttpClient 4**<br>HttpClient provides an efficient, up-to-date, and feature-rich package implementing the client side of the most recent HTTP standards and recommendations. | HttpClient |
| **Apache Commons IO 2.4**<br>Commons IO is a library of utilities to assist with developing IO | IO |

functionality.

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| **Apache Commons Lang 2.6** | Lang |
| Lang provides a host of helper utilities for the java.lang API, notably String manipulation methods, basic numerical methods, object reflection, concurrency, creation and serialization and System properties. | |
| **Apache Commons Logging 1.1.3** | Logging |
| The Logging package is an ultra-thin bridge between different logging implementations. A library that uses the commons-logging API can be used with any logging implementation at runtime. | |
| **Apache Commons Net 3.3** | Net |
| Apache Commons Net library implements the client side of many basic Internet protocols. The purpose of the library is to provide fundamental protocol access, not higher-level abstractions. | |
| **Apache Commons Pool 1.6** | Pool |
| Pool provides an Object-pooling API, with three major aspects: a generic object pool interface that clients and implementers can use to provide easily interchangeable pooling implementations, a toolkit for creating modular object pools, several general purpose pool implementations. | |
| **Apache Cordova 3.6.3** | Cordova |
| Apache Cordova is an open-source mobile development framework. | |
| **Apache Derby 10.5.3.0** | Derby |
| Apache Derby is an open source relational database implemented entirely in Java. | |
| **Apache FontBox 1.5.0** | FontBox |
| Apache FontBox library is an open source Java tool to obtain low level information from font files. | |
| **Apache HttpComponents 4.3.6** | HttpComponents |
| Apache HttpComponents project is responsible for creating and maintaining a toolset of low level Java components focused on HTTP and associated protocols. | |
| **Apache JempBox 1.5.0** | JempBox |
| JempBox is an open source Java library that implements Adobe's XMP(TM) specification. | |

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| **Apache POI 3.11**<br>Apache POI is a facility to create and maintain Java APIs for manipulating various file formats based upon the Office Open XML standards (OOXML) and Microsoft's OLE 2 Compound Document format (OLE2). | POI |
| **ASM 3.3.1**<br>ASM is an all purpose Java bytecode manipulation and analysis framework. | ASM |
| **AWS SDK for Java 1.9.33**<br>The SDK helps take the complexity out of coding by providing Java APIs for many AWS services. | AWS SDK |
| **Aho-Corasick**<br>Aho-Corasick algorithm is used for finding occurences of words in text and it is faster than other common algorithms. | Aho-Corasick |
| **c3p0 0.9.5**<br>c3p0 is an easy-to-use library for augmenting traditional JDBC drivers with JNDI-bindable DataSources, including DataSources that implement Connection and Statement Pooling. | c3p0 |
| **Dom4j 1.6.1**<br>dom4j is an open source library for working with XML, XPath and XSLT on the Java platform using the Java Collections Framework and with full support for DOM, SAX and JAXP. | Dom4j |
| **Ehcache 2.10.0**<br>Ehcache is an open source, standards-based cache that boosts performance, offloads your database, and simplifies scalability. | Ehcache |
| **FontBox 1.5.0**<br>FontBox is a Java library used to obtain low level information from font files.<br>FontBox is a subproject of PDFBox. | PDFBox |
| **Groovy 2.4.0**<br>Groovy is an agile and dynamic language for the Java Virtual Machine that builds upon Java but has additional power features inspired by languages like Python, Ruby and Smalltalk and compiles straight to Java bytecode. | Groovy |
| **Guava 18.0**<br>The Guava project contains several of Google's core libraries: collections, caching, primitives support, concurrency libraries, common annotations, string processing, I/O, and so forth. | Guava |

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| **H2 1.3.176** <br> H2 is a Java SQL in-memory databases database, very fast, open source, with JDBC API. | H2 |
| **HK2 2.2.0** <br> HK2 is an implementation of JSR-330 in a JavaSE environment. | HK2 |
| **Hibernate 4.2.17** <br> Hibernate is a object relational database persistence API that is the "de facto" standard for persistence in Java. | Hibernate |
| **iText 2.1.7** <br> iText is an open source library that allows to create and manipulate PDF documents. | iText |
| **Jackson 1.9.13** <br> Jackson is a multi-purpose Java library for processing JSON data format. | Jackson |
| **Jackson 2.4.5** <br> Jackson is a multi-purpose Java library for processing JSON data format. | Jackson |
| **Jakarta Oro 2.0.8** <br> The Jakarta-ORO Java classes are a set of text-processing Java classes that provide Perl5 compatible regular expressions, AWK-like regular expressions, glob expressions, and utility classes for performing substitutions, splits, filtering filenames, etc. | Oro |
| **Java Annotation API 1.2** <br> This JSR will develop annotations for common semantic concepts in the J2SE and J2EE platforms that apply across a variety of individual technologies. | Annotation |
| **Java Persistence 2.0 API 1.0.1** <br> The Java Persistence API provides a POJO persistence model for object-relational mapping. | Persistence |
| **Java Transaction API 1.1** <br> Java Transaction API specifies standard Java interfaces between a transaction manager and the parties involved in a distributed transaction system: the resource manager, the application server, and the transactional applications. | Transaction |
| **Java Validation API 1.1.0** <br> Validation is a Java specification which lets you express constraints on object models via annotations, provides the APIs to validate and reports the set of violations. | Validation |

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| **JavaMail API 1.5.2**<br>The JavaMail API is a set of abstract APIs that model a mail system. The API provides a platform independent and protocol independent framework to build Java technology based email client applications. The JavaMail API provides facilities for reading and sending email. Service providers implement particular protocols. | Mail |
| **Javassist 3.18.2**<br>Javassist (Java programming assistant) is a load-time reflective system for Java. It is a class library for editing bytecodes in Java. | Javaassist |
| **JAX-RS 2.0**<br>JAX-RS is a Java programming language API that provides support in creating web services according to the REST architectural pattern. | JAX-RS |
| **JBoss Logging 3.1.4**<br>JBoss Logging is a "logging bridge" providing integration with numerous logging frameworks. | Logging |
| **Jaxen 1.1.6**<br>Jaxen is an open source XPath library written in Java. It is adaptable to many different object models, including DOM, XOM, dom4j, and JDOM. | Jaxen |
| **JCaptcha 1.0**<br>JCAPTCHA stands for Java Completely Automated Public Test to tell Computers and Humans Apart. It is the open source java framework for captcha definition and integration. | Captcha |
| **JCommon 1.0.15**<br>JCommon is a Java class library that contains miscellaneous classes for chart displaying. | JCommon |
| **JempBox 1.5.0**<br>The Apache JempBox library is an open source Java tool that implements Adobe's XMP(TM) specification. JempBox is a subproject of Apache PDFBox. | PDFBox |
| **Jersey 2.6**<br>Jersey provides it's own API that extend the JAX-RS toolkit with additional features and utilities to further simplify RESTful service and client development. | Jersey |
| **Jericho HTML Parser 3.3**<br>Jericho HTML Parser is a java library allowing analysis and | Jericho |

manipulation of parts of an HTML document, including server-side tags, while reproducing verbatim any unrecognised or invalid HTML

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| **JFreeChart 1.0.12** <br> JFreeChart is a Java chart library that makes it easy for developers to display professional quality charts in their applications. | FreeChart |
| **Joda-Time 2.4** <br> Joda-Time provides a quality replacement for the Java date and time classes. | Joda-Time |
| **Json-smart 1.3** <br> Json-smart is a performance focused, JSON processor lib. | Json-smart |
| **JSP API 2.2.1** <br> JSP provides a container independent implementation of JSP 2.1. | JSP |
| **JSR-330 2.2.0.b25** <br> JSR-330 standardizes annotations like @Inject and the Provider interfaces for Java platforms. | JRS-330 |
| **JSR 305 1.3.9** <br> JSR 305 works to develop standard annotations (such as @NonNull) that can be applied to Java programs to assist tools that detect software defects. | JSR305 |
| **JSTL API 1.2.1** <br> JSTL is a standard tag library for JSP pages. | JSRL |
| **Log4j 1.2.17** <br> Apache log4j is a logging library for Java. | Log4j |
| **Logstash log4j extensions 1.6.0** <br> Logstash is an open source data collection engine with real-time pipelining capabilities. | Logstash |
| **Lucene 2.3.2** <br> The Apache LuceneTM project develops open-source search software. | Lucene |
| **Metrics 3.0.2** <br> Metrics is a Java library which gives you unparalleled insight into what your code does in production. | Metrics |
| **MIMEpull 1.5** <br> Mimepull project provides a streaming API to access attachments parts in a MIME message. | MIMEPull |
| **PDFBox 1.5.0** <br> Apache PDFBox is an open source Java tool for working with PDF | PDFBox |

documents. This project allows creation of new PDF documents, manipulation of existing documents and the ability to extract content from documents.

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| **Quartz 2.1.7**<br>Quartz is a richly featured, open source job scheduling library that can be integrated within virtually any Java application - from the smallest stand-alone application to the largest e-commerce system. | Quartz |
| **Saxon 6.5.5**<br>Saxon is a Java XSLT and XQuery Processor. | Saxon |
| **Slf4j 1.7.10**<br>The Simple Logging Facade for Java is a simple facade or abstraction for various logging frameworks (e.g. java.util.logging, logback, log4j) allowing the end user to plug in the desired logging framework at deployment time. | Slf4j |
| **Spring Framework 4**<br><ul><li>Spring AOP 4.1.4</li><li>Spring Beans 4.1.4</li><li>Spring Context 4.1.4</li><li>Spring Context Support 4.1.4</li><li>Spring Core 4.1.4</li><li>Spring Expression Language 4.1.4</li><li>Spring Web 4.1.4</li><li>Spring Web MVC 4.1.4</li></ul>The Spring Framework provides a comprehensive programming and configuration model for modern Java-based enterprise applications - on any kind of deployment platform. | Spring |
| **Standard Taglib 1.2.1**<br>Apache Standard Taglib is an implementation of the JSP Standard Tag Library specification. | Taglib |
| **Textmining Extractors 1.0**<br>Java API to extract Microsoft Word documents. | Textmining |
| **Vert.x 2.0.2**<br>Vert.x lets your app scale with minimal hardware. | Vert.x |
| **WSDL4j 1.6.3**<br>The Web Services Description Language for Java (WSDL4J) allows the creation, representation, and manipulation of WSDL | WSDL4j |

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| documents. Is the reference implementation for JSR110 'JWSDL' (jcp.org). | |
| **XMLBeans 2.6.0**<br>XMLBeans is a technology for accessing XML by binding it to Java types. | XMLBeans |
| **XMLSchema 1.4.7**<br>XMLSchema is a lightweight Java object model that can be used to manipulate and generate XML schema representations. | XMLSchema |
| **ZXing 3.1.0**<br>ZXing is an open-source, multi-format 1D/2D barcode image processing library implemented in Java, with ports to other languages. | ZXing |

## JavaScript libraries

| Library | Link |
|---|---|
| **Angular 1.3.16**<br>AngularJS is a toolset for building the framework most suited to your application development. | Angular |
| **Angular UI Router 0.2.13**<br>UI Router is the de-facto solution to flexible routing with nested views in AngularJS. | UI Router |
| **Babel Loader 5.0.0**<br>Babel Loader allows transpiling JavaScript files using Babel and webpack. | Babel |
| **Big Js 2.5.2**<br>Big Js is a small, fast JavaScript library for arbitrary-precision decimal arithmetic. | BigJs |
| **Cldr Js 0.4.1**<br>CLDR provides key building blocks for software to support the world's languages, with the largest and most extensive standard repository of locale data available. | Cldr |
| **CKeditor 4.3**<br>CKEditor is a ready-for-use HTML text editor designed to simplify web content creation. It's a WYSIWYG editor that brings common word processor features directly into web pages. | CKeditor |
| **ES6 Promises 2.2.0**<br>Promises are a pattern that helps with one particular kind of asynchronous programming. | Promises |
| **ExplorerCanvas 3**<br>ExplorerCanvas bring HTML5 canvas tag functionalities to Internet Explorer. | Canvas |
| **Flotr2 2.0**<br>Flotr2 is a plotting library to draw HTML5 charts and graph. | Flotr2 |
| **Ionic 1.0.0**<br>Ionic is a powerful HTML5 SDK that helps you build native-feeling mobile apps using web technologies like HTML, CSS, and Javascript. | Ionic |
| **JayData 1.3.6**<br>JayData is a standards-based, cross-platform Javascript library | JayData |

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| and a set of practices to access and manipulate data from various online and offline sources. | |
| **jQuery Timepicker Addon 1.4.5** <br> Timepicker extends jQuery UI Datepicker for entering times and timestamps. | Timepicker |
| **JQuery 1.7.2** <br> jQuery is a fast, small, and feature-rich JavaScript library with an easy-to-use API that works across a multitude of browsers. | JQuery |
| **JQuery BBQ 1.2.1** <br> BBQ is a jQuery plug-in that allows simple, yet powerful bookmarkable #hash history. | BBQ |
| **JQuery Cookie 1.3.1** <br> A simple, lightweight jQuery plugin for reading, writing and deleting cookies. | Cookie |
| **JQuery DialogExtend 1.0** <br> A simple, lightweight jQuery plugin for Maximizing and Minimizing Buttons for UI Dialog. | Dialog |
| **JQuery UI 1.9.2** <br> jQuery UI is a curated set of user interface interactions, effects, widgets, and themes built on top of the jQuery JavaScript Library. | UI |
| **JsDump 1.0.0** <br> This script library can dump any type of Javascript data (or most), thus, generating a string out of the received information. | JSDump |
| **JsHashtable 2.1** <br> JsHashtable is a standalone implementation of hash table in JavaScript. | JSHashtable |
| **ParseURI 1.2.2** <br> Split URLs in JavaScript. | ParseURI |
| **Respond.js 1.4.0** <br> Respond is a fast & lightweight polyfill for min/max-width CSS3 Media Queries (for IE 6-8, and more). | Respond |
| **Underscore 1.3.3** <br> Underscore is a utility-belt library for JavaScript that provides a lot of the functional programming support like both the usual functional suspects: map, select, invoke - as well as more specialized helpers: function binding, javascript templating, deep equality testing, and so on. | Underscore |

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| **Underscore String 2.2.0rc** | [Underscore](#) |
| Underscore String is a String manipulation extensions for Underscore. | |
| **XRegExp 2.0.0** | [XRegExp](#) |
| XRegExp is an open source JavaScript library that provides augmented and extensible regular expressions. | |
| **Webpack 1.8.5** | [Webpack](#) |
| WEbpack allows to split your codebase into multiple bundles, which can be loaded on demand. | |

## OLDER RELEASES

Here you can find the release notes of previous WebRatio BPM Platform releases:

- [WebRatio BPM Platform 8.7 Release Notes](#)
- [WebRatio BPM Platform 8.6 Release Notes](#)
- [WebRatio BPM Platform 8.5 Release Notes](#)
- [WebRatio BPM Platform 8.4 Release Notes](#)

## SYSTEM REQUIREMENTS

### WebRatio Development Platform

Operating System

- Microsoft Windows Vista or higher, 64 bit
- Linux, 64 bit
- Mac OSX 10.7 (Lion) or higher, 64 bit

Installing WebRatio Development Platform also requires:

- Disk Space: 600 MB
- RAM: 4 GB minimum, suggested is 8 GB

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