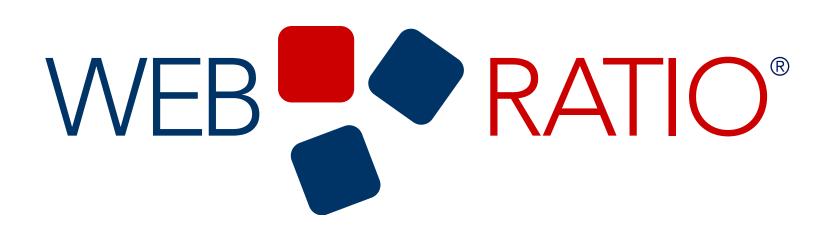
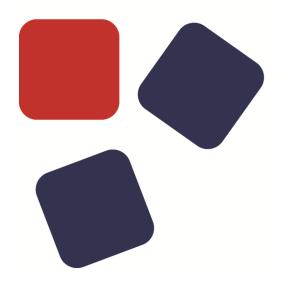


8.7 BPM Platform Release Notes





RELEASE NOTES

WEBRATIO BPM PLATFORM 8.7

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RELEASE NOTES

INTRODUCTION

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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.

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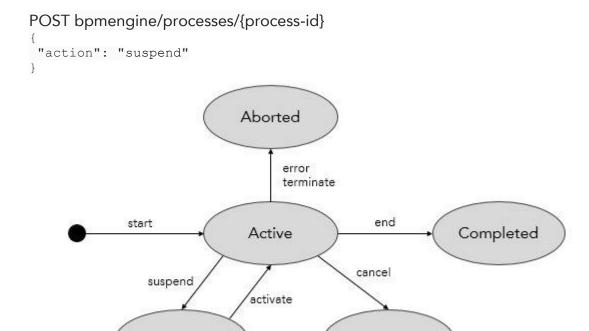
REST API IMPROVEMENTS



REST API IMPROVEMENTS

Process Actions - Suspend and Resume

You can now use the process actions method to suspend and resume a process. You can see a sample request above. The reported image shows the diagram of the available statuses and transitions of a process.



Historic Notes and Attachments

Suspended

You can now retrieve notes and attachments of completed, cancelled and aborted processes. You can retrieve the notes list and the details of a specific note. The same applies for the attachments. It's possible to retrieve notes both for a process or a task; attachments are available only for processes. Below, you can find the list of the new methods available with a sample response.

Cancelled

Notes

GET /bpmengine/historic-processes/{process-id}/notes

GET /bpmengine/historic-processes/{process-id}/notes/{note-id}

GET /bpmengine/historic-tasks/{tasks-id}/notes

GET /bpmengine/historic-tasks/{tasks-id}/notes/{note-id}

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```
{
  "data" : [ {
    "oid" : 1,
    "text": "note text",
    "createdAt": null,
    "user": "johndoe"
    } ]
}
```

Attachments

GET /bpmengine/historic-processes/{process-id}/attachments GET /bpmengine/historic-processes/{process-id}/attachments/{attachment-id}

The response contains the file identifier that can be used to download the attachment through the File Services.

```
{
  "data" : [ {
    "oid" : 1,
    "name" : "attachment",
    "fileId": "1167421e1e954ec99398b9849f2d5c47",
    "createdAt": null,
    "user": "johndoe"
    } ]
```

Historic Process Diagram

You can now retrieve the BPMN diagram of a specific historic process, given its identifier. You can use the dedicated method. The response contains the file identifier that can be used to download the diagram through the File Services. See below for an example.

GET /historic-processes/{processId}/diagram

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REST API IMPROVEMENTS



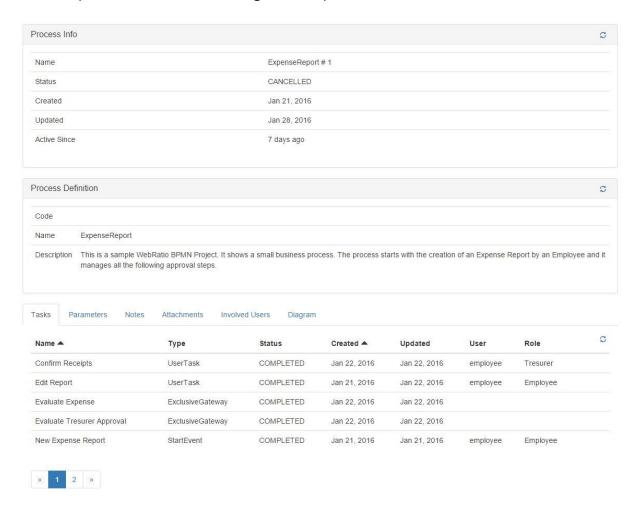
```
"name": "Review Report",
    "description": "Check the total amount of the expense. Then
choose whether to approve or reject this request.",
    "type": "UserTask",
    "catchingMessages": [],
    "catchingSignals": []
    }
},.....]
```

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ADMIN VIEW IMPROVEMENTS

Historic Processes section

The process administrator can now view the historic processes and their details. A historic process is a process that has been completed, aborted or cancelled. It's also possible to search among historic processes.



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ADMIN VIEW IMPROVEMENTS



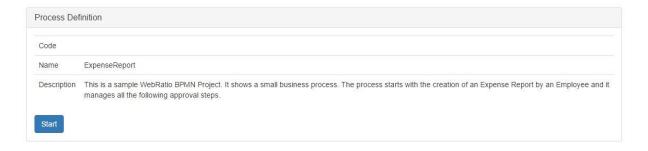
Process status management

The process administrator can now change the process status of a specific process, using the dedicated function in the process details page. He can decide to suspend, re-activate or to delete a process.



Start a process

The process administrator can now start a process by choosing one of the deployed process definitions. It's possible to choose a specific start event to begin the process, and it's also possible to set the process parameter values.

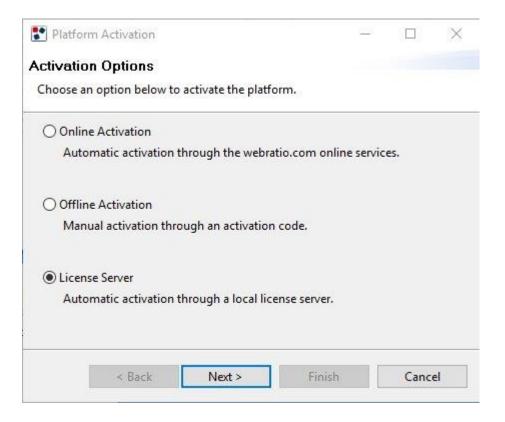


10

NEW ACTIVATION OPTION - LICENSE SERVER

The WebRatio Mobile Professional Edition can be now activated using the new "license server" option. This activation option uses a local license server containing all the licensing information. The local license server must be installed and configured independently from WebRatio Platform.

When WebRatio starts for the first time, it requires a valid user and serial to activate the license. The next step is to decide which activation option should be used. You will see a dialog like the following:

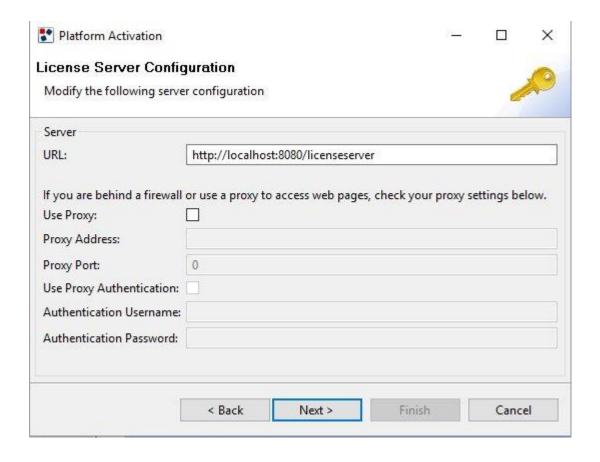


The activation through the local license server is the third option available. This option requires you to provide the connection URL to the local license server and eventually the proxy settings so that WebRatio Platform can connect to the local license server for the license activation.

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NEW ACTIVATION OPTION - LICENSE SERVER





FIXED IN 8.7.4

 Fixed a problem in the Domain Model of a mobile project. Now it is possible to manually map the attributes of the App User when they are based on a class that generalizes the User class in the dataservice project.

FIXED IN 8.7.2

- Fixed an error of the Find Model Problems option for BPMN projects. Now, the command properly reports an error when a selector component misses the related Data Binding property.
- Fixed the Find Model Problems option of BPMN projects. Now, the command properly reports the error related to the Domain Model.
- Fixed the Find Model Problems option of BPMN project. Now the command properly reports errors related to primary keys not aligned between model and database.

FIXED IN 8.7.1

- It is now possible to choose a class of the System Model as Data Binding of the Selector Component in an Action Definition of all types except for the "Generic" type.
- A user having the "process administrator" role can now start all the process definitions.

FIXED IN 8.7.0

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- Improved the generation of a business process that has no default schema set in the database node. Now when the process is generated, an error is reported.
- Fixed a problem related to the Library update in the BPM engine that caused a "Class Not Found" error when the REST API is invoked.
- Fixed the runtime behavior of the Email operation. Now when the SMTP server is not properly configured, the Email operation follows the KO Flow modeled in the action definition.

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THIRD PARTY LIBRARIES



THIRD PARTY LIBRARIES

Java libraries

Library	Link
ANTLR 2.7.7	ANTLR 2
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.	
Apache Commons BeanUtils Core 1.8.3	<u>BeanUtils</u>
BeanUtils component provides easy-to-use wrappers around the	
Java language Reflection and Introspection APIs.	
Apache Commons Codec 1.10	Codec
Apache Commons Codec (TM) software provides implementations	
of common encoders and decoders such as Base64, Hex, Phonetic	
and URLs.	
Apache Commons Collections 3.2.1	Collections
Commons-Collections builds upon the JDK data structures classes	
by providing new interfaces, implementations and utilities that	
accelerate development of most significant Java applications.	
Apache Commons DBCP 1.4	DBCP
This Commons package provides Database Connection Pools	
facilities.	
Apache Commons Digester 1.8.1	<u>Digester</u>
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.	
Apache Commons Exec 1.2	Exec
Allow to execute the external processes from Java.	
Apache Commons HttpClient 3.1	<u>HttpClient</u>
HttpClient provides an efficient, up-to-date, and feature-rich	
package implementing the client side of the most recent HTTP	
standards and recommendations.	
Apache Commons IO 2.4	<u>IO</u>
Commons IO is a library of utilities to assist with developing IO	

functionality.	
Apache Commons Lang 2.6 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 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 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 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 Apache Cordova is an open-source mobile development framework.	Cordova
Apache Derby 10.5.3.0 Apache Derby is an open source relational database implemented entirely in Java.	Derby
Apache FontBox 1.5.0 Apache FontBox library is an open source Java tool to obtain low level information from font files.	FontBox
Apache HttpComponents 4.3.6 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 is an open source Java library that implements Adobe's XMP(TM) specification.	<u>JempBox</u>

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Apache POI 3.11 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). ASM 3.3.1 ASM ASM ASM ASM is an all purpose Java bytecode manipulation and analysis
manipulating various file formats based upon the Office Open XML standards (OOXML) and Microsoft's OLE 2 Compound Document format (OLE2). ASM 3.3.1 ASM
XML standards (OOXML) and Microsoft's OLE 2 Compound Document format (OLE2). ASM 3.3.1 ASM
Document format (OLE2). ASM 3.3.1 ASM
ASM 3.3.1 ASM
ASM is an all purpose Java bytecode manipulation and analysis
framework.
AWS SDK for Java 1.9.33 AWS SDK
The SDK helps take the complexity out of coding by providing
Java APIs for many AWS services.
Aho-Corasick Aho-Corasick
Aho-Corasick algorithm is used for finding occurences of words in
text and it is faster than other common algorithms.
c3p0 0.9.5 c3p0
c3p0 is an easy-to-use library for augmenting traditional JDBC
drivers with JNDI-bindable DataSources, including DataSources
that implement Connection and Statement Pooling.
Dom4j 1.6.1 Dom4j
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.
Ehcache 2.10.0 Ehcache
Ehcache is an open source, standards-based cache that boosts
performance, offloads your database, and simplifies scalability.
FontBox 1.5.0 PDFBox
FontBox is a Java library used to obtain low level information from
font files.
FontBox is a subproject of PDFBox.
Groovy 2.4.0 Groovy
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.
Guava 18.0
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.

H2 1.3.176	<u>H2</u>
H2 is a Java SQL in-memory databases database, very fast, open	
source, with JDBC API.	_
HK2 2.2.0	HK2
HK2 is an implementation of JSR-330 in a JavaSE environment.	
Hibernate 4.2.17	<u>Hibernate</u>
Hibernate is a object relational database persistence API that is	
the "de facto" standard for persistence in Java.	
iText 2.1.7	<u>iText</u>
iText is an open source library that allows to create and	
manipulate PDF documents.	
Jackson 1.9.13	<u>Jackson</u>
Jackson is a multi-purpose Java library for processing JSON data	
format.	
Jackson 2.4.5	<u>Jackson</u>
Jackson is a multi-purpose Java library for processing JSON data	
format.	
Jakarta Oro 2.0.8	<u>Oro</u>
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.	
Java Annotation API 1.2	Annotation
This JSR will develop annotations for common semantic concepts	
in the J2SE and J2EE platforms that apply across a variety of	
individual technologies.	
Java Persistence 2.0 API 1.0.1	<u>Persistence</u>
The Java Persistence API provides a POJO persistence model for	
object-relational mapping.	
Java Transaction API 1.1	Transaction
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.	
Java Validation API 1.1.0	<u>Validation</u>
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.	

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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. Javassist 3.18.2 Javassist Java programming assistant) is a load-time reflective system for Java. It is a class library for editing bytecodes in Java. JAX-RS 2.0 JAX-RS is a Java programming language API that provides support in creating web services according to the REST architectural pattern. JBoss Logging 3.1.4 JBoss Logging is a "logging bridge" providing integration with numerous logging frameworks. Jaxen 1.1.6 Jaxen 1.1.6 Jaxen is an open source XPath library written in Java. It is adaptable to many different object models, including DOM, XOM, dom4j, and JDOM. JCaptcha 1.0 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. JCOmmon 1.0.15 JCommon 1.0.15 JCommon is a Java class library that contains miscellaneous classes for chart displaying. JempBox 1.5.0 The Apache JempBox library is an open source Java tool that implements Adobe's XMP(TM) specification. JempBox is a subproject of Apache PDFBox. Jersey 2.6 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. Jericho HTML Parser 3.3 Jericho HTML Parser is a java library allowing analysis and		
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	and client development.	
Jericho HTML Parser is a java library allowing analysis and	Jericho HTML Parser 3.3	<u>Jericho</u>
	Jericho HTML Parser is a java library allowing analysis and	

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

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

Quartz 2.1.7

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.

Saxon 6.5.5

Saxon is a Java XSLT and XQuery Processor.

Slf4j 1.7.10 <u>Slf4j</u>

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.

Spring Framework 4 Spring

- Spring AOP 4.1.4
- Spring Beans 4.1.4
- Spring Context 4.1.4
- Spring Context Support 4.1.4
- Spring Core 4.1.4
- Spring Expression Language 4.1.4
- Spring Web 4.1.4
- Spring Web MVC 4.1.4

The Spring Framework provides a comprehensive programming and configuration model for modern Java-based enterprise applications - on any kind of deployment platform.

Standard Taglib 1.2.1 Taglib

Apache Standard Taglib is an implementation of the JSP Standard Tag Library specification.

Textmining Extractors 1.0 <u>Textmining</u>

Java API to extract Microsoft Word documents.

Vert.x 2.0.2

Vert.x lets your app scale with minimal hardware.

WSDL4j 1.6.3 <u>WSDL4j</u>

The Web Services Description Language for Java (WSDL4J) allows the creation, representation, and manipulation of WSDL

documents. Is the reference implementation for JSR110 'JWSDL' (jcp.org).

XMLBeans 2.6.0 XMLBeans

XMLBeans is a technology for accessing XML by binding it to Java types.

XMLSchema 1.4.7 XMLSchema

XMLSchema is a lightweight Java object model that can be used to manipulate and generate XML schema representations.

ZXing 3.1.0 ZXing

ZXing is an open-source, multi-format 1D/2D barcode image processing library implemented in Java, with ports to other languages.

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JavaScript libraries

Library	Link
Angular 1.3.16	<u>Angular</u>
AngularJS is a toolset for building the framework most suited to	
your application development.	
Angular UI Router 0.2.13	<u>UI Router</u>
UI Router is the de-facto solution to flexible routing with nested	
views in AngularJS.	
Babel Loader 5.0.0	<u>Babel</u>
Babel Loader allows transpiling JavaScript files	
using Babel and webpack.	
Big Js 2.5.2	<u>BigJs</u>
Big Js is a small, fast JavaScript library for arbitrary-precision	
decimal arithmetic.	
Cldr Js 0.4.1	Cldr
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.	
CKeditor 4.3	<u>CKeditor</u>
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.	
ES6 Promises 2.2.0	<u>Promises</u>
Promises are a pattern that helps with one particular kind of	
asynchronous programming.	
ExplorerCanvas 3	<u>Canvas</u>
ExplorerCanvas bring HTML5 canvas tag functionalities to Internet	
Explorer.	
Flotr2 2.0	Flotr2
Flotr2 is a plotting library to draw HTML5 charts and graph.	
Ionic 1.0.0	<u>lonic</u>
Ionic is a powerful HTML5 SDK that helps you build native-feeling	
mobile apps using web technologies like HTML, CSS, and	
Javascript.	
JayData 1.3.6	<u>JayData</u>
JayData is a standards-based, cross-platform Javascript library	

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

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Underscore String 2.2.0rc	<u>Underscore</u>
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	<u>Webpack</u>
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 8.6 Release Notes
- WebRatio BPM Platform 8.5 Release Notes
- WebRatio BPM Platform 8.4 Release Notes

SYSTEM REQUIREMENTS

WebRatio Development Platform

Operating System

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- 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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