



BONITA BPM 7.2.0 RELEASE NOTES

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1. General

1.1. Product version

7.2.0

1.2. Date of release

February 9th, 2016

1.3. Target audience

This document is for technical users of Bonita BPM.

2. Highlights

Below are the features and enhancements introduced in Bonita BPM 7.2.0

2.1. New features

- **REST API Extension development tooling** (Teamwork Edition)
New development tooling to speed up REST API extension implementation. It improves developer efficiency with automated testing and deployment.
This helps Java developers creating custom APIs by assisting and automating the development, testing, and deployment of REST API extensions based on Maven. It also helps front-end developers to access and use REST API extensions directly from the UI Designer. The guided development framework reinforces the best practice of creating REST API extensions to read data needed in forms or pages.
- **Office connectors** (Teamwork Edition)
Insert information collected in a process instance into a Microsoft Word *.docx or OpenOffice *.odt template to create a document. The Word and OpenOffice output formats can also be turned into a PDF document.
 - Insert data in a .docx/.odt template
 - Generate PDF from an Office document.

2.2. Enhanced features and changes

- **Studio repository switch** (Teamwork Edition)
There is now one Bonita Home folder (bonita_home) per Studio repository. The folder is located at the root of the repository.
The embedded Tomcat is configured to use the bonita_home folder of the repository currently in use. That is to say that each time a developer switches repository, the Tomcat switches Bonita Home. As a consequence each repository uses a different database; this allows to keep data consistency between runtime data and the content of the current repository.
On a repository switch, business applications, processes, BDM and organization data are not lost.
- **BDM paged results**
Retrieve results of a query on business data one page at a time.
The paged results feature enables you to know how many pages of results exist when calling a BDM query via the REST API. It ensures a better integration of BDM with UI Designer Data Table widget. To benefit from this improvement and use the UI Designer Data Table widget for custom BDM queries:
 - for a default generated query, a new "countFor<queryName>" query is generated, so that data pagination information is available. You need to redeploy the Business Data Model to benefit this new feature. No data will be lost.

- for a custom query that returns multiple results, you need to create a new count query. The name of the count query must be the name of the base query prefixed by “countFor”. For instance, for a custom query named “queryName”, the related count query must be named “countForQueryName”. In addition, make sure that the count query returns a long. The result of the count query is visible in the HTTP response header, in the Content-Range field for the REST API `API/bdm/businessData/businessDataType?q=queryName`. This header will be available for all queries returning multiple results for which there is a related count query.

- **UI Designer data management**

We have changed the variable management mechanism, and made every variable read-write. It will avoid confusion on the way data are managed by the UI Designer (some are read-only but some are not, some are always recalculated and some are not).

This means that you can retrieve data using a REST API call and manipulate the results inside a JavaScript expression variable. The user can then update the variable, which is then submitted. As a result of these modifications, all variables are now evaluated even when they are not used. You need to be aware of the consequences of this for each type of variable.

- A JavaScript expression variable is reset to the expression evaluation every time the result of the expression evaluation changes. For instance, consider an expression variable processing a selectedUser from a displayed table to have information more readable. Consider that this selectedUser can be updated via a displayed form. When the user clicks on another user in the table, the form is updated with the value of the new selectedUser. Previous selectedUser data is lost if not managed properly.
- A URL or REST API variable is reloaded every time the URL value changes.

We have also introduced an initial naive algorithm to find the dependencies of a given variable (the other variables it relies upon). This way, we can wait for non-dependent variables to be resolved before resolving ones that have dependencies.

Important Note: The new data management does not apply on forms and pages already deployed in production from a previous version migrated to 7.2.0. To take advantage of this feature, you must edit your forms/pages/fragments in UI Designer in 7.2.0 Studio and then export the new version to be deployed on a 7.2.0 Bonita BPM platform.

- **UI Designer enhanced home page**

UI Designer home page has been revamped. It can now manage in a more efficient/scalable way the volume of UI artifacts of a typical BPM-based business application project:

- Capability to create any type of web artifacts: application pages, process forms, application layouts, fragments, custom widgets.
- Artifacts presented per type in dedicated tabs.
- Search bar to retrieve quickly any artifacts based on its name. Number of artifacts matching a search are displayed on the tabs badges.

- Manage favorite artifacts and retrieve them quickly in a dedicated panel.
- **UI Designer usability improvements**
 - Many improvements to existing features:
 - Container (added in 7.1.3): added a default variable \$collection, used when repeating content in container to manipulate sub-collections.
 - Button widget (modified in 7.1.3): additional HTTP actions GET and DELETE, and actions to update a collection.
 - Artifact Import feature checks on import:
 - If the uploaded artifact does not overwrite anything, the import completes and the import report is displayed to the user.
 - If the uploaded artifact overwrites something: a popup is displayed to the user indicating the elements that will be overwritten by the import. The user can choose whether to continue the import and overwrite the listed elements, or cancel the whole import.
 - Link widget: added the option to choose the target window.
 - Preview window: added a dropdown list to view a multi-language page in a specified language based on the languages defined in the localization.json file.
 - Assets: added the option to download an asset added in a page/form or on a custom widget.
- **Miscellaneous**
 - Italian, german and portuguese translations are not included into the Bonita BPM Portal & Studio anymore. (You can find in the documentation how to add your own language pack for the Bonita BPM Portal).
 - Removal of the choose profile pop up at Bonita Studio startup. Default profile is back-end developer (“application developer”).
 - Relocation of some artifacts previously on the file system (Bonita Home) into the database:
 - business archive (all files contained in .bar)
 - Request Key generator script now asks for licensing model (instances-based or legacy by CPU).
 - UI Designer datepicker widget updated to remove timezone issues.

3. Technical changes

3.1. Migration tool

There is a new migration tool to migrate to 7.2.0. See the migration tool release notes.

It is recommended to always use the last version of the migration tool.

If you are migrating from a 6.x.y version you must first use the latest 1.x migration tool to migrate to 7.0.0, and then use the 2.x tool to migrate from 7.0.0 to this version.

3.2. Technology updates

- **Upgrade from Groovy 1.8.6 to 2.4**
 - Bonita BPM now fully supports Java 8. Note that JBoss 7.1.1 does not support Java 8. As a consequence you cannot use Java 8 with Bonita BPM JBoss bundle (see Support Matrix for more information).
- **New environments**
 - Support of Oracle Database 12cR1 Enterprise Edition (12.1.0.x)
 - Support of OS X El Capitan (10.11)
 - Tomcat version upgraded to 7.0.67
- **Removed deprecated APIs.**

Processes that have been developed with deprecated APIs will break in 7.2. As part of the migration process, you must make sure that none of your custom code is using any of the deprecated APIs. (As a reminder : deprecated APIs can be found on the javadoc section in the official Bonita BPM documentation <http://documentation.bonitasoft.com/javadoc/api/7.2/index.html?deprecated-list.html>)

 - Class org/bonitasoft/engine/api/**PlatformCommandAPI**, the following methods have been removed from 7.2:
 - *get(String name)*
 - Class org/bonitasoft/engine/api/**ProcessRuntimeAPI**, the following methods have been removed from 7.2:
 - *deleteProcessInstances(long)*
 - Class org/bonitasoft/engine/api/**ProcessManagementAPI**, the following methods have been removed from 7.2:
 - *deleteProcess(long)*
 - *deleteProcesses(List<Long>)*
 - *disableAndDelete(long)*
 - *removeAllProcessDefinitionsFromCategory(long)*
 - *removeAllCategoriesFromProcessDefinition(long)*
 - *searchProcessDeploymentInfos(long, SearchOptions)*
 - *searchUncategorizedProcessDeploymentInfosUserCanStart(long, SearchOptions)*
 - *searchProcessDeploymentInfosUsersManagedByCanStart(long, SearchOptions)*

4. Limitations and known issues

- **REST API extension development tooling** (Teamwork Edition)
 - Renaming is not supported.

- Does not provide automatic update of REST API authorization with the permission that the REST API extension declares. If you create a new permission, you have to manually update the configuration files (the procedure is explained in the generated page.properties).
- After Studio restart, if the database has been cleaned (which is determined by the Studio preferences - not the default value anymore) you must re-deploy the REST API extensions.

- **Office connectors - Generate PDF from an Office document** (Teamwork Edition)
 - There are rendering issues, depending on the environment, with some items:
 - Bullet points
 - Strike-through
 - Exponents
 - Indexes
 - Highlighting
 - Asian fonts support needs a specific iText jar with a non-compliant license, so, cannot be provided by default
 - Image positioning
 - Drawing shapes
 - Alignment of some text elements
 - Execution performance (figures vary depending on the hardware configuration)
 - Small doc size (1 to 5 pages) without images (< 500ms) on a standard desktop configuration.
 - Small doc size (1 to 5 pages) with images (1 to 5 s) on a standard desktop configuration.
 - Average doc size (~50 pages) without images (~ 5s) on a standard desktop configuration.
 - Average doc size (~50 pages) with images (> 5s) on a standard desktop configuration and can fail with a stack overflow exception for very large documents and many images.

- **Studio usability improvements**
 - It is not possible to preview the operations automatically generated upon step inputs (contract) definition from a business variable or a document. You need to go to the Operations section in the Execution tab of the relevant step to see them.
- **BDM paged results**
 - Sorting data from BDM queries in the UI Designer Data table widget does not work. Sorting has been disabled on the widget when using Bonita API to avoid confusion.
- **UI Designer data management**
 - Due to the naive dependency detection algorithm, if the UI Designer fails to find a variable dependency, it is initialized once and for all. It only finds dependencies using \$data.XXX, {{XXX}} or {{XXX.something}}.
- **UI Designer enhanced home page**
 - Artifacts dependencies are not displayed (there is no information about where custom widgets and fragments are used in the pages, forms and layouts).
 - For forms, there is no information about the related processes i.e. it is not possible to know in which processes or tasks the form is used.
- **UI Designer usability improvements**
 - Datepicker widget:
 - Date cannot be entered using the keyboard (must use the provided dropdown calendar).
 - When initializing a date field from a timestamp coming from a REST API, you must ensure the timestamp field is a number representing number of milliseconds since 1970/01/01 or a STRING representing date in ISO-8601 format (YYYY-MM-DDTHH:mm:ss.sssZ) otherwise the datepicker will not be initialized properly. Date must be initialized with a date in UTC Timezone.
 - Issues with timezone handling when storing business data: the date stored in the database uses the server timezone, whereas REST APIs always return GMT dates.
 - **Important note on fragment usage:** Fragment exposed data on existing pages imported from previous versions must be updated to set value to the exposed data on the page. It is not backward compatible.
- **Studio. Important note on environment:** it is recommended not to install Bonita BPM Studio into a path containing special characters like “é, è, æ, ù, etc...” It may cause issues on UI Designer artifacts storage (not properly saved, unable to view modifications, ...).

5. Bugs fixed

5.1. Bonita BPM Engine

Summary	
• BS-480	Temporary files are not deleted after the process was uninstalled
• BS-12848	Clusters do not trigger the refresh of the class loader
• BS-13300	Class cast issue (classloaders) after the use of the command api
• BS-13384	Timer: Process's stuck after exception during a transaction, because the intermediateCatchEvent (flownode) is in state failed
• BS-13386	Timer: Process is stuck when an exception is generated while the quartz trigger fire
• BS-13716	The parameters' values changes from the portal are not propagated to other running cluster nodes
• BS-13899	Portal overview form cannot access business data of an archived process instance
• BS-13942	Page Overview - Document are not displayed properly
• BS-14189	Invalid BAR produced by exportBarProcessContentUnderHome method
• BS-14256	Constraint for aggregation are not cleaned when redeploying schemas of Business Objects
• BS-14304	Task in error listed as pending
• BS-14495	Class Cast Exception when refreshing the ClassLoaders for Custom Datatype

5.2. Bonita BPM Portal

Summary	
• BS-13844	Business data are not retrieved in default overview page of an archived case
• BS-13942	Page Overview - Document are not displayed properly
• BS-14008	After migration CasePermissionRule.groovy rejects access to some archived cases that the user instantiated and terminated + Error in a popup in the portal
• BS-14174	Custom jasper report are not stored on the DB
• BS-14304	Task in error listed as pending
• BS-14365	case list is not displayed properly
• BS-14444	Overview claims no BDM if one is empty
• BS-14492	Lost exceptions
• BS-14643	Cannot access to Cases and Monitoring cases menu through an iframe
• BS-14727	Missing or bad icons for Upload File Widget in auto-generated form task
• BS-14764	Hardcoded /bonita in URL to upload forms
• BS-14774	Security issues based on penetration test
• BS-14779	Living Applications internationalization requires generator files manual change to work
• BS-14805	Portal error msg wording: "Entity mapping" instead of "Actor mapping"
• BS-14813	Portal pages refresh when background request response arrives
• BS-14839	Short URL to get a child process task form redirect to case form instead
• BS-14856	JBOSS: No Set-Cookie Returned when Login the 2nd, 3rd ... times
• BS-13722	Dynamic permission / Compilation error with some security groovy scripts on Community JBoss bundle

5.3. Bonita BPM Studio

Summary	
• BS-12894	Subscription Mac installer : we cannot select licence file
• BS-13941	Repository > Team menus takes between 5 and 10 seconds to display anything when access to svn repository is slow
• BS-14098	Delete Connector Definition does not really delete the Implementation
• BS-14163	Custom Groovy connector implementation breaks original Groovy connector when imported
• BS-14364	Comments in code for custom actor filter code are confusing
• BS-14477	message error doesn't refresh when choosing another data in the "create input from data" wizard
• BS-14490	We must select twice each data type on contract input definitions
• BS-14497	2 groups cannot be associated to an actor for wrong reason: when one is a substring of the other
• BS-14518	Special character in organization name crashes organization management

• BS-14543	JDBC connector does not support SQLite
• BS-14549	Checkboxes inside tables are not displayed properly in Mac OS X 10.11 (El Capitan).
• BS-14584	Impossible to modify the errored group name when editing legacy form template
• BS-14612	Random .proc parse errors when importing .bos file with multiple diagrams
• BS-14613	Finish button is disabled in the Add form Wizard
• BS-14614	Bonita Studio becomes unresponsive when scrolling through the list of available forms and needs to be killed
• BS-14631	Cannot preview 6.x form template: access denied
• BS-14636	Label Exécution->Formulaire d'instanciation-> Formulaire cible->Create a new form is not translated
• BS-14768	Message content type reset to constant when focus changes
• BS-14794	SVN - Local modifications lost without notification when connecting again on the same remote svn repository
• BS-14823	"Select All" button in export view is not working on grayed nodes
• BS-14826	MacOS 10.11.1 El Capitan - SVGs on the studio are not correctly loaded

5.4. UI Designer

Summary	
• BS-13680	Asset list in page editor is refreshed only after a save when adding a custom widget having assets
• BS-14398	cannot remove a row from a repeated content (container) included into another repeated content (container)
• BS-14442	Engine limit forms name size to 50 chars
• BS-14446	[TRANSLATION FR] Some translation are not correct (missing keys)
• BS-14488	When using a button widget, interpolation is not working on redirect URL
• BS-14527	Widget properties help (tooltips) are not well aligned
• BS-14562	Data Table Widget pagination fails due to URL parameters
• BS-14569	Generated form is wrong when you have a complex data in a multiple complex data
• BS-14578	Column headings in a data table are not in bold
• BS-14600	Interpolate property are not properly localized when including variable
• BS-14678	Impossible to activate Japanese in the UI pages
• BS-14682	generator.min.js and generator.min.js.map contain hard coded Portal languages and Japanese missing
• BS-14778	Data Table Widget pagination fails with bdm rest API URL
• BS-14819	Save as a fragment, page or custom widget with an existing name triggers an error msg but also changes the name.
• BS-14860	Chart widget legend is not translated

6. Related Links

- Documentation: <http://documentation.bonitasoft.com/>
- Javadoc : <http://documentation.bonitasoft.com/javadoc/api/7.2/index.html>
- Sources: <https://github.com/bonitasoft>
- Customer Portal: <http://customer.bonitasoft.com/>

- **Bonita BPM Community:**
Software: <http://www.bonitasoft.com/how-we-do-it/downloads>

- **Bonita BPM Subscription:**
Software: <http://customer.bonitasoft.com/>

- **Bonita Migration tool:**
Documentation: <http://documentation.bonitasoft.com/migration-overview-0>

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