Release Notes: Version 3.8.0-R107
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1.1. Runtime API

1.1.1. New Features

- **New Query Attachment Reference Service** (ACTP-5436)
  
  The service **Query Attachment Reference** is available to get the Revision ids and Document ids which reference the passed attachment.

- "**attachments**" and "**description**" parameters added to "**Query Raw Data**" service (ACTP-5414)
  
  **Query Raw Data** service now also returns attachments and description of the revision related to the passed revisionId.

- **Property "**elementName" added to "**RawData**" type** (ACTP-5412)
  
  Readonly property `elementName` added to `RawData` type.

1.2. Core

1.2.1. New Features

- **New required parameter 'acceptNonRevisionSafeChange' for 'Delete Document' and 'Delete Revision' service** (ACTP-5413)
  
  An approval is necessary for changes which are non revision safe. Buttons on View Raw Data model have the same behaviour as before.

- **Backup and Restore of Search Index in Workplace** (ACTP-4318)
  
  Added a chapter about backup and restore of Search Index in Workplace.

- **New services are available to realize the anonymization of document data** (ACTP-4263)
  
  Now it is possible to physically overwrite document data. The services **Overwrite Revision Data** and **Overwrite Attachment** can be used in combination with **Query Raw Data** and **Query Attachment Reference** to overwrite existing data with anonymized data. To see how to use the services have a look at the **ACTICO Modeler Example Project 'Workplace Example Overwrite Revision'**.

1.2.2. Improvements

- **Support for spaces in installation path and renaming of command line arguments** (ACTP-5362)
  
  The script environment for ACTICO Platform products supports now spaces in directory names of the installation path. Command line arguments for stop flag file handling were renamed. New names are --actico.stopfile.jvmshutdown, --actico.stopfile and --actico.stopfile.initsleep. The name of the used stop flag file was changed to actico.jvm.stop. The "AddonFolder" environment variable supports now also spaces. Since this is typically an URL, a space character must be encoded using a '?' character.

1.2.3. Fixed Bugs

- **Fixed a bug where uploading a Commons model could result in the wrong Application model version being activated** (ACTP-5441)
  
  Uploading and activating a Commons model won’t activate other depending rule model versions that have not been active.
• **Upgraded library EhCache** (ACTP-4661)
  - Application cache informations are no longer displayed on the System page.
• **Fixed ‘search results not up-to-date’ message** (ACTP-3716)
  
  Fixed a bug, where the number of pending documents and the date show the wrong value in the english version of the ‘search results not up-to-date’ message.

### 1.3. Web Application

#### 1.3.1. New Features

• **License File** (ACTP-5774)

  Workplace Web Application and Workplace Batch Application require a valid license file in the config folder. See Operations Guide for more information.

• **Improvements for script environment** (ACTP-5770)

  Changed directory structure of script environment. Config files are now located in the new config folder. 3rd party libs are now located in the config/lib folder and are automatically attached to the classpath. A default application properties file outside of the application jar is provided to overwrite default settings. An optional config script can be used to overwrite default configuration settings defined by provided config scripts. The logs folder has moved to the product directory. The data folder contains the persistent application data. The work folder contains only unimportant temporary data. Product directories were renamed. They all have now the "actico-" prefix. The stop flag file is now located in the work folder. Note also that the Windows service names has changed. A timeout of 30 seconds was introduced for stop flag file watching. The Workplace "add-ons" folder moved to "config/add-ons".

• **Unified directory structure and scripts for ACTICO Platform Products** (ACTP-3491)

  ACTICO Workplace Web Application, ACTICO Workplace Batch Application, ACTICO Model Hub and ACTICO Engine uses now the same directory structure and scripts. Scripts can be used to start and stop an application under Windows und Unix. Additionally the scripts can be used to install, configure, start, stop and uninstall an ACTICO Platform Product as a Windows Service. Note that handling of Java detection and the location of 3rd party libraries, the tmp folder and logs folder has changed. Also the command line parameter names for stop file handling were renamed.

#### 1.3.2. Improvements

• **Support for Websphere Application Server discontinued** (ACTP-5980)

  The support for Websphere Application Server is discontinued. Recommendation is to use the standalone server instead.

• **Workplace no longer tries to load properties from the Windows registry** (ACTP-5879)

  All properties should be defined in a properties file. Before, preferences in the windows registry were also used to configure the application. If the registry path 'Software/JavaSoft/Prefs' was missing, Workplace failed to started. If you have properties defined in the windows registry, please move them to a properties file instead.

• **Added property "tomcat.standalone.contextPath"** (ACTP-5740)

  The context path for the standalone server in now configurable via the newly introduced property "tomcat.standalone.contextPath".

• **Changed names of command line arguments** (ACTP-5694)

  Added prefix '--' to command line arguments for stop flag file handling.
• **Upgraded Spring Boot** (ACTP-5619)
  
The library `spring-boot` was upgraded to 2.1.6.RELEASE

• **Upgraded library javax.mail** (ACTP-5553)
  
The library `javax.mail` was updated to a newer version due to the vulnerability SONATYPE-2017-0492.

• **Added keyboard shortcut to select all options in a list-view** (ACTP-5394)
  
  Ctrl + a will select all options in a list-view.

• **Support for spaces in installation path and renaming of command line arguments** (ACTP-5362)
  
The script environment for ACTICO Platform products supports now spaces in directory names of the installation path. Command line arguments for stop flag file handling were renamed. New names are `--actico.stopfile.jvmshutdown`, `--actico.stopfile` and `--actico.stopfile.initsleep`. The name of the used stop flag file was changed to `actico.jvm.stop`. The "AddOnFolder" environment variable supports now also spaces. Since this is typically an URL, a space character must be encoded using a "%" character.

### 1.3.3. Fixed Bugs

• **Upgraded Tomcat** (ACTP-6003)
  
  Upgraded libraries regarding Tomcat due to vulnerability CVE-2019-10072

• **Fixed a bug where a sticky container could prevent an edited grid cell from updating its value** (ACTP-5857)
  
  Fixed a bug, where an edited grid cell was not updated in case the sticky container is overlaying the `GridElement`

• **Upgraded library Jackson Databind** (ACTP-5758)
  
  The library `jackson-databind` was updated due to the vulnerability CVE-2019-12086.

• **Upgraded Wicket** (ACTP-5571)
  
  Wicket was upgraded to 8.5.0 due to SONATYPE-2018-0330, SONATYPE-2014-0026 and SONATYPE-2016-0107.

• **Upgraded library spring-security-web** (ACTP-5564)
  
  The library `spring-security-web` was upgraded due to vulnerability SONATYPE-2017-0641.

• **Upgraded library c3p0** (ACTP-5559)
  
  The library `c3p0` was upgraded to 0.9.5.4 due to SONATYPE-2019-0096 and CVE-2018-20433

• **Fixed wrong overlap of menu and sticky container** (ACTP-5558)
  
  Fixed a bug, where the dropdown menu bar is displayed behind a sticky container.

• **Upgraded library commons-fileupload** (ACTP-5552)
  
  The library `commons-fileupload:commons-fileupload` was upgraded to 1.4 due to SONATYPE-2014-0173

• **Fixed watchdog execution** (ACTP-5544)
  
  The execution of the watchdog no longer fails.

• **Fixed a Bug where DateElements with event result in a broken datepicker** (ACTP-5433)
  
  Datepicker works for DateElements with event.

• **Upgraded Tomcat** (ACTP-5424)
  
  Upgraded libraries regarding Tomcat due to CVE-2019-0232
• Fixed wrong overlap of date selection and grid table (ACTP-5423)
  Fixed a bug, where the calendar for date selection is displayed behind parts of a grid table.

• Upgraded library jQuery (ACTP-5347)
  The library jQuery was upgraded to 3.4.1 due to SONATYPE-2019-0115

• Fixed a security bug where it was possible to invoke events for read-only elements (ACTP-5302)
  Fixed a security bug where it was possible:
  • to invoke events for read-only Buttons and OptionElements via JavaScript
  • to invoke events for read-only ActionElements in GridElement
  • to change the value of read-only OptionElements in GridElement

• Upgraded library handlebars (ACTP-5288)
  The library handlebars was upgraded to 4.1.0 due to SONATYPE-2015-0026 and SONATYPE-2019-0058.

• Fixed a bug where VRAs containing files other than JAR caused an error message during upload (ACTP-5271)
  VRAs containing files other than JAR will no longer fail to be uploaded.

• Fixed bug that caused ChartElements to not render inside a Container (ACTP-3842)
  ChartElement will render when inside a Container.

• Fixed message when stopping batch runs (ACTP-3755)
  Fixed a bug, where an exception was thrown instead of showing an info message after stopping a batch run.

• Upgraded libraries spring-xml and spring-ws-core (ACTP-3735)
  The libraries spring-xml and spring-ws-core were upgraded for Workplace 3.8 due to the vulnerability CVE-2019-3773. Workplace versions before 3.8 are still affected, because the libraries can not be upgraded as it conflicts with supported Websphere application server.

1.4. Batch Application

1.4.1. New Features

• License File (ACTP-5774)
  Workplace Web Application and Workplace Batch Application require a valid license file in the config folder. See Operations Guide for more information.

• Improvements for script environment (ACTP-5770)
  Changed directory structure of script environment. Config files are now located in the new config folder. 3rd party libs are now located in the config/lib folder and are automatically attached to the classpath. A default application properties file outside of the application jar is provided to overwrite default settings. An optional config script can be used to overwrite default configuration settings defined by provided config scripts. The logs folder has moved to the product directory. The data folder contains the persistent application data. The work folder contains only unimportant temporary data. Product directories were renamed. They all have now the "actico-" prefix. The stop flag file is now located in the work folder. Note also that the Windows service names has changed. A timeout of 30 seconds was introduced for stop flag file watching. The Workplace "add-ons" folder moved to "config/add-ons".

• Unified directory structure and scripts for ACTICO Platform Products (ACTP-3491)
  ACTICO Workplace Web Application, ACTICO Workplace Batch Application, ACTICO Model Hub and ACTICO Engine uses now the same directory structure and scripts. Scripts can be used to start and stop an
application under Windows und Unix. Additionally the scripts can be used to install, configure, start, stop and uninstall an ACTICO Platform Product as a Windows Service. Note that handling of Java detection and the location of 3rd party libraries, the tmp folder and logs folder has changed. Also the command line parameter names for stop file handling were renamed.

1.4.2. Improvements

• **Changed names of command line arguments** (ACTP-5694)

  Added prefix '--' to command line arguments for stop flag file handling.

• **Support for spaces in installation path and renaming of command line arguments** (ACTP-5362)

  The script environment for ACTICO Platform products supports now spaces in directory names of the installation path. Command line arguments for stop flag file handling were renamed. New names are --actico.stopfile.jvmshutdown, --actico.stopfile and --actico.stopfile.initsleep. The name of the used stop flag file was changed to actico.jvm.stop. The "AddOnFolder" environment variable supports now also spaces. Since this is typcially an URL, a space character must be encoded using a "?" character.

1.4.3. Fixed Bugs

• **Upgraded library spring-batch-infrastructure** (ACTP-5561)

  The library spring-batch-infrastructure was upgraded due to the vulnerability CVE-2019-3774.

1.5. Remote API

1.5.1. Fixed Bugs

• **Remote API response changes** (ACTP-5963)

  To be backwards compatible again, child elements of revisionData no longer contain namespaces. This also makes responses valid again, in regard to the WSDL.

• **Using VREnums as rule output in remote calls is now possible** (ACTP-3773)

  Fixed a bug, where rules called by the remote API failed with an error, if VREnums were used as output.

1.6. Documentation

1.6.1. Improvements

• **Amazon Aurora database support** (ACTP-3880)

  Amazon Aurora database compatible with MySQL 5.7 is supported. See Operations Guide for required database configurations.

1.7. Engine

1.7.1. New Features

• **Improvements for script environment** (ACTP-5770)

  Changed directory structure of script environment. Config files are now located in the new config folder. 3rd party libs are now located in the config/lib folder and are automatically attached to the classpath. A default application properties file outside of the application jar is provided to overwrite default settings.
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An optional config script can be used to overwrite default configuration settings defined by provided config scripts. The logs folder has moved to the product directory. The data folder contains the persistent application data. The work folder contains only unimportant temporary data. Product directories were renamed. They all have now the “actico-“ prefix. The stop flag file is now located in the work folder. Note also that the Windows service names has changed. A timeout of 30 seconds was introduced for stop flag file watching. The Workplace "add-ons" folder moved to "config/add-ons".

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1.7.2. Improvements

- **Support for spaces in installation path and renaming of command line arguments** (ACTP-5362)

The script environment for ACTICO Platform products supports now spaces in directory names of the installation path. Command line arguments for stop flag file handling were renamed. New names are --actico.stopfile.jvmshutdown, --actico.stopfile and --actico.stopfile.initsleep. The name of the used stop flag file was changed to actico.jvm.stop. The "AddOnFolder" environment variable supports now also spaces. Since this is typically an URL, a space character must be encoded using a '?' character.

1.8. Model Hub Common

1.8.1. New Features

- **Improvements for script environment** (ACTP-5770)

Changed directory structure of script environment. Config files are now located in the new config folder. 3rd party libs are now located in the config/lib folder and are automatically attached to the classpath. A default application properties file outside of the application jar is provided to overwrite default settings. An optional config script can be used to overwrite default configuration settings defined by provided config scripts. The logs folder has moved to the product directory. The data folder contains the persistent application data. The work folder contains only unimportant temporary data. Product directories were renamed. They all have now the “actico-“ prefix. The stop flag file is now located in the work folder. Note also that the Windows service names has changed. A timeout of 30 seconds was introduced for stop flag file watching. The Workplace "add-ons" folder moved to "config/add-ons".

- **Unified directory structure and scripts for ACTICO Platform Products** (ACTP-3491)

ACTICO Workplace Web Application, ACTICO Workplace Batch Application, ACTICO Model Hub and ACTICO Engine uses now the same directory structure and scripts. Scripts can be used to start and stop an application under Windows und Unix. Additionally the scripts can be used to install, configure, start, stop and uninstall an ACTICO Platform Product as a Windows Service. Note that handling of Java detection and the location of 3rd party libraries, the tmp folder and logs folder has changed. Also the command line parameter names for stop file handling were renamed.

1.8.2. Improvements

- **Support for spaces in installation path and renaming of command line arguments** (ACTP-5362)

The script environment for ACTICO Platform products supports now spaces in directory names of the installation path. Command line arguments for stop flag file handling were renamed. New names are --actico.stopfile.jvmshutdown, --actico.stopfile and --actico.stopfile.initsleep. The name of the used stop flag file was changed to actico.jvm.stop. The "AddOnFolder" environment variable supports now also spaces. Since this is typically an URL, a space character must be encoded using a '?' character.
• **Amazon Aurora database support** (ACTP-3880)

Amazon Aurora database compatible with MySQL 5.7 is supported. See Operations Guide for required database configurations.

### 1.9. Platform Core

#### 1.9.1. New Features

• **Improvements for script environment** (ACTP-5770)

  Changed directory structure of script environment. Config files are now located in the new config folder. 3rd party libs are now located in the config/lib folder and are automatically attached to the classpath. A default application properties file outside of the application jar is provided to overwrite default settings. An optional config script can be used to overwrite default configuration settings defined by provided config scripts. The logs folder has moved to the product directory. The data folder contains the persistent application data. The work folder contains only unimportant temporary data. Product directories were renamed. They all have now the "actico-" prefix. The stop flag file is now located in the work folder. Note also that the Windows service names has changed. A timeout of 30 seconds was introduced for stop flag file watching. The Workplace "add-ons" folder moved to "config/add-ons".

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  ACTICO Workplace Web Application, ACTICO Workplace Batch Application, ACTICO Model Hub and ACTICO Engine uses now the same directory structure and scripts. Scripts can be used to start and stop an application under Windows und Unix. Additionally the scripts can be used to install, configure, start, stop and uninstall an ACTICO Platform Product as a Windows Service. Note that handling of Java detection and the location of 3rd party libraries, the tmp folder and logs folder has changed. Also the command line parameter names for stop file handling were renamed.

#### 1.9.2. Improvements

• **Support for spaces in installation path and renaming of command line arguments** (ACTP-5362)

  The script environment for ACTICO Platform products supports now spaces in directory names of the installation path. Command line arguments for stop flag file handling were renamed. New names are --actico.stopfile.jvmshutdown, --actico.stopfile and --actico.stopfile.initsleep. The name of the used stop flag file was changed to actico.jvm.stop. The "AddOnFolder" environment variable supports now also spaces. Since this is typcially an URL, a space character must be encoded using a '?' character.

### 1.10. Workplace Maintenance Tool

#### 1.10.1. Improvements

• **Rename parameter 'ACCEPT_DATA_LOSS' to 'accept-non-revision-safe-change'** (ACTP-5662)

  In Maintenance Tool the parameter name of 'ACCEPT_DATA_LOSS' has be changed to 'accept-non-revision-safe-change'.

### 1.11. Workplace Other

#### 1.11.1. Fixed Bugs

• **Load rule model descriptor after execute the action to 'Change RuleModel Version'** (ACTP-3725)

  Now the action 'Change RuleModel Version' loads the rule model descriptor of the passed version. Previously the descriptor has been reset.
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2.1. Runtime API

2.1.1. Improvements

- **New function to get all permissions** (ACTP-4949)
  
  New function `getAllPermissions()` returning a collection of `Permissions` available.

- **Removed ConvertBusinessDataService** (ACTP-4917)
  
  The service `ConvertBusinessDataService` was removed.

- **Added supported styles to the Runtime API** (ACTP-4702)
  
  Workplace supported styles are available in the Runtime API.

2.1.2. Fixed Bugs

- **Permissions and groups are not handled correctly when using the "UserQueryDefinition"** (ACTP-4851)
  
  Fixed a bug where permissions and groups are not handled correctly when using the `UserQueryDefinition` datatype.

- **Changed behavior when opening old revisions** (ACTP-3584)
  
  Prior to this change, opening an older revision of a document still restored the stateflow state of the latest revision. Now, the actual stateflow state used when saving the revision will be restored. This mostly affects the function `getCurrentRevisionStateflowState` which will not return the stateflow state of the opened revision instead of that of the latest revision.

2.2. Core

2.2.1. New Features

- **Support for Java 11** (ACTP-4865)
  
  Java 11 is now supported. Make sure your chosen database driver does also support Java 11. Support for Oracle Java SE 8 remains.

- **Added 'countryCode' field to User** (ACTP-3919)
  
  The field `countryCode` was added to `User` along with a field `COUNTRY_CODE`.

2.2.2. Improvements

- **Upgraded Rules Runtime to 8.1.6** (ACTP-5085)
  
  The Rules Runtime was upgraded to 8.1.6

- **DM_REVISION_VIEW extended with column "is_latest_revision"** (ACTP-4943)
  
  The database view `DM_REVISION_VIEW` has been extended with the column "is_latest_revision". The column returns a 1 if the revision is the latest revision and a 0 otherwise.

- **Remove library Jackson Datatype jsr310** (ACTP-4667)
  
  The library `jackson-databind-jsr310` is removed due to CVE-2018-10000873.
• **Additional LDAP configuration to search sub trees** (ACTP-4648)

Introduced an additional configuration possibility `ldap.searchSubtree` that allows to search sub trees. Default value is false.

• **Upgraded library Jackson Databind** (ACTP-4539)

The library `jackson-databind` was updated to 2.9.8 due to the vulnerabilities CVE-2018-19360, CVE-2018-1936 and CVE-2018-19362.

• **Improved performance of LDAP synchronization during login** (ACTP-4199)

Details with LDAP are synchronized during login process. Performance was now improved.

### 2.3. Web Application

#### 2.3.1. New Features

• **Monitoring endpoints are enabled** (ACTP-4909)


• **Upgraded Spring Boot to 2.1.3.RELEASE** (ACTP-4894)

Upgraded Spring Boot version and dependent 3rd party libraries.

• **Added support for externalDataSource in document printout** (ACTP-4891)

External data sources are supported in document printout.

• **Default role for users without initial role** (ACTP-4889)

A default role is assigned to a user that does not have any role yet. It is assigned at login time and stored in the database. The name of the role can be configured in the section "Security Policies" in the Preferences. If no default role name is specified, no default role is assigned.

• **Used Workplace Standalone in demo bundle ZIP file** (ACTP-4886)

Workplace demo bundle uses the embedded Tomcat server.

• **Added scripts to install web and batch application as Windows service** (ACTP-4880)

Added new scripts to install, configure, start, stop and uninstall the web and batch application as a Windows service. Scripts are located in the bin folder. Use install-service.bat to configure the web and batch application.

• **New date picker to select a date and a time.** (ACTP-4385)

The date picker for DateElements was replaced by one that enables to select a date and a time. See the upgrade guide for more information on the changes. This also resolves a bug where time information was removed of a DateElement.

• **Active Directory configuration changed** (ACTP-4271)

The Active Directory configuration was removed. Instead, Active Directory access can be configured using the LDAP configuration.

• **Workplace Web Application does not require an application server anymore** (ACTP-4268)

The Workplace Web Application can be executed as standalone application. This is the preferred way.

The webapp file is replaced by a ZIP file containing the web application with an embedded Tomcat server and necessary configuration files. Note that the web application folder structure and filenames have
changed. The WAR file of the web application is workplace-webapp.jar and is located in the app folder. The log4j2.xml and workplace-web-application.properties files are also located in the app folder. The bin folder contains Windows and Linux scripts in order to start and stop the web application (start-server.bat/sh, stopserver.bat/sh). Additionally new scripts to install, configure, start, stop and uninstall the web application as a Windows service are included.

See Operations Guide for more details.

Technically it is now based on Spring Boot.

2.3.2. Improvements

- Introduced custom error pages to handle different http status codes (ACTP-4609)
  
  Added custom handling of http status codes to hide information e.g. about the used server, the used version.

2.3.3. Fixed Bugs

- Fixed a bug where the "Remember Me"-Cookie was always used (ACTP-5256)
  
  In case the ACTICO_WORKPLACE_AUTOLOGIN cookie was set it was always considered even the remember-me mechanism was disabled.

- Fixed a bug where date picker was breaking on invalid input (ACTP-5253)
  
  Date picker will not break on invalid input.

- Fixed a bug where labels in GridElement were not displayed (ACTP-5142)
  
  Labels are displayed correctly again.

- Fixed a bug where triggering events of grid elements by keyboard could lead to changing the focus (ACTP-5028)
  
  Focus does not change for grid element events, that do not remove rows.

- Removed possibility of logging into the web application using Basic Authentication (ACTP-5014)
  
  Login via Basic Authentication is no longer possible. SOAP requests and rulemodel uploads via ACTICO Modeler still use Basic Authentication.

- Fixed Cross Site Scripting vulnerability in GridElement (ACTP-5012)
  
  Fixed a bug where it was potentially possible to perform Cross Site Scripting (XSS) on pages with a GridElement.

- Fixed ambiguous cell coordinates (ACTP-4864)
  
  Fixed a bug where certain cell coordinates caused overwriting of cell properties.

- Fixed a bug where dialog questions and titles did not work with some characters (ACTP-4861)
  
  Button dialog questions and titles are escaped and sanitized. It did not work with e.g. apostrophes.

- Added property to rename the session cookie (ACTP-4858)
  
  The name of the session cookie can be changed via the new property web.session.cookie.name in workplace-web-application.properties.

- Fixed a security exception preventing Quartz Jobs from running (ACTP-4855)
  
  Quartz jobs now run with unrestricted permissions.

- Prevent enter key in the accessibility menu to also triggeres the default action (ACTP-4853)
Hitting enter when using the accessibility menu will no longer trigger the default action.

- **Fixed a bug where feedback messages did not close** (ACTP-4852)
  Feedback messages close again.

- **Fixed that report and printout designs could not be deactivated** (ACTP-4850)
  Report and printout designs can now be deactivated.

- **Fixed a bug where feedback message boxes were not closable via keyboard.** (ACTP-4849)
  Feedback message boxes are closable via keyboard.

- **Fixed a potential SQL Error on MSSQL when starting with an empty database** (ACTP-4848)
  When starting with an empty MSSQL database, the first time documents were saved an exception could occur afterwards.

- **Fixed a bug where grid multiline editor being offset when scrolling the page and then dragging it** (ACTP-4846)
  Dragging the multiline editor it moves to the expected position.

- **Fixed a bug where a multi-select dropdown gets too big** (ACTP-4845)
  Multi-select dropdown elements will not grow over a specified maximum height.

- **Links within GridElement are now accessible by keyboard** (ACTP-4844)
  Navigating to a link in a GridElement and hitting enter will open the link.

- **Added overlay for element events in GridElement** (ACTP-4843)
  Events triggered by elements in a GridElement will display the waiting indication layer.

- **Fixed a bug where the default action is not applied to the right element** (ACTP-4842)
  Setting the `nameOfDefaultAction` for the layout will now trigger the right button on hitting enter.

- **Property "ldap.sync.userRoleMapping.enabled" is now used to manage the role assignment panel** (ACTP-4841)
  Fixed a bug where it was not possible to assign or unassign an user's role in case the `ldap.sync.enabled` property was set to true.

- **Fixed a bug where the browser scrollbar disappears temporarily when the loading overlay is displayed** (ACTP-4840)
  Scrollbar is not removed during display of the loading overlay.

- **Fixed the accessibility menu not opening on the help page** (ACTP-4839)
  Accessibility menu works on the help page.

- **Fixed keyboard tab navigation on grid elements event** (ACTP-4838)
  Keyboard tab navigation will no longer break by adding or removing rows to a GridElement.

- **Fixed a bug where selecting a dropdown entry with enter key triggers the default action** (ACTP-4837)
  Default action is no longer triggered by keyboard navigation of a dropdown element.

- **Fixed a bug where custom flags for the language switcher were ignored** (ACTP-4836)
  Custom flags for the language switcher are considered again.
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• **Disabled autocompletion for password fields** (ACTP-4392)
  
  For security reasons the autocomplete attribute is set to 'off' on password input fields.

• **Fixed an error when downloading datasources for printout** (ACTP-3766)
  
  When doing complex operations like `historize` and `restore` platform context within a printing rule execution an error occurred when trying to download a printout datasource.

• **Fixed overlapping lines for paragraphs on page breaks within Richtext elements in printout** (ACTP-3656)
  
  Fixed a bug where overlapping lines appeared in document printout for Richtext elements caused by paragraphs.

• **Deploying rule models with non-rule dependencies no longer fails** (ACTP-3619)
  
  If a rulemodel was deployed which had a dependency to a non-rule artifact it would show error messages or fail completely. This is has been fixed.

• **Failed logins will no longer display details of the failure** (ACTP-3557)
  
  Login error page used to display too many details of the failure. Now always the same message "Invalid login" is displayed, regardless of the cause of the error.

### 2.4. Batch Application

#### 2.4.1. New Features

• **Upgraded Spring Boot to 2.1.3.RELEASE** (ACTP-4894)
  
  Upgraded Spring Boot version and dependent 3rd party libraries.

• **Added scripts to install web and batch application as Windows service** (ACTP-4880)
  
  Added new scripts to install, configure, start, stop and uninstall the web and batch application as a Windows service. Scripts are located in the bin folder. Use `install-service.bat` to configure the web and batch application.

#### 2.4.2. Improvements

• **Replaced connection pooling** (ACTP-4093)
  
  Replaced `c3p0` with `Hikari Connection Pool` due to CVE-2018-20433.

### 2.5. Standard Rule Models

#### 2.5.1. Improvements

• **Workplace Commons: New constant data element** (ACTP-4997)
  
  A new constant data element in enum "Event" is now available. It is called `Event.CREATE_DOCUMENT` and contains the default create event "create.rating".

• **Workplace Report Executor: Support of output type selection** (ACTP-4687)
  
  The standard rule model `Workplace Report Executor` does now support the selection of an output type. There are 2 possibilities to enable this feature. If a report parameter is set to the report those defined output types are used. If no parameter is set, a list of supported output types are displayed. The user has the possibility to select the corresponding output type.

• **Workplace View Raw Data: Display Attachments** (ACTP-4144)
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The standard rule model Workplace View Raw Data does now also show attachments of a selected revision.

- **Workplace Commons: Enum for Call Parameter (ACTP-4116)**
  
  A new enum called "Call_Param_Common" is now available in Workplace Commons Project. It contains a constant element "DOCUMENT_ID".

- **Workplace View Raw Data: Display demanded permissions (ACTP-3856)**
  
  It is now possible to also see demanded permissions of all revisions.

- **Workplace Commons: Get information if mapping failures occurred (ACTP-3567)**
  
  It is now possible to get the exception if any mapping failures occurred during the rule model upgrade. The rules "Upgrade Rule Model Version Perform" and "Upgrade Rule Model Version Common" now provides an output data type "mapping_exception" of type "Exception". If no failures occurred, the element will be NULL.

- **Workplace Commons: Display detailed messages while rule model upgrade (ACTP-3566)**
  
  It is now possible to hide detailed mapping exceptions during a rule model upgrade. The new input parameter of rule "Upgrade Rule Model Version Perform" or "Upgrade Rule Model Version Common" can be set to TRUE in order to do not show the detailed platform messages. By default the detailed messages are still displayed as platform messages of type warning.

- **Workplace Commons: Show report parameters in specific version (ACTP-3565)**
  
  It is now possible to show the get report parameters for a specific report version.

- **Workplace Commons: Additional functions (ACTP-3563)**
  
  The following functions have been added to package Functions and can now be used:
  
  - listToAny()
  - mapToAny()
  - defaultIfNull()
  - csvToList()
  - toCSV()

 2.5.2. Fixed Bugs

- **Workplace Commons: Logging messages (ACTP-3561)**
  
  Removed duplicate message key in log messages. Message key will no longer be logged, only internationalized messages are displayed.

- **Workplace Commons: Pagination with default sorting (ACTP-3560)**
  
  Using columns for default sorting that are not displayed in the result table is now possible without any pagination issues.

2.6. Remote API

2.6.1. Fixed Bugs

- **Dropped WS security support (ACTP-4914)**
  
  WS Security Headers were not working properly and not needed anymore. Basic authentication is required for Remote API calls.
2.7. Workplace Maintenance Tool

2.7.1. New Features

• **Upgraded Spring Boot to 2.1.3.RELEASE** (ACTP-4894)
  
  Upgraded Spring Boot version and dependent 3rd party libraries.

2.7.2. Fixed Bugs

• **Added working directory property** (ACTP-4862)
  
  Added working.directory property for mow tool.
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3.1. Runtime API

3.1.1. Improvements

- **Function createDocument() removed (DAF-11159)**
  
  The function `createDocument()` within the runtime api is removed. Use the Create Document Action instead.

- **Support of output types XLSX, PPTX and DOCX in document printouts and removed XLS, PPT and DOC (DAF-8152)**
  
  Output types XLS, PPT and DOC are removed from Runtime API but code remains for backwards compatibility. Use new output types XLSX, PPTX and DOCX instead.

3.2. Core

3.2.1. Improvements

- **JBoss EAP 7.1 is supported. JBoss EAP 7.0 support is dropped. (DAF-11503)**
  
  Workplace supports JBoss EAP 7.1. The support for JBoss EAP 7.0 is dropped.

- **Improved search index performance (DAF-11483)**
  
  The process of determining which documents to index could hang severly (days in some cases). Pauses while the search index is built should now be reduced.

- **Change in request data flattening (DAF-11475)**
  
  For documents stored in the new format, flattening code was changed. It no longer requires the rule model to be loaded and should increase performance and memory footprint. This is especially relevant for the search index creation.

- **Upgraded library commons-fileupload (DAF-11470)**
  
  The library commons-fileupload was updated to 1.3.3 due to the vulnerability CVE-2016-100031.

- **Upgraded library Jackson Databind (DAF-11469)**
  
  Before, the associated rule models where loaded and used to generate the raw data. Now, the data required is extracted from the document directly. This improves performance and memory usage. It also allows viewing raw data in case of mapping errors (as no mapping is needed). Please note, that the data type column in the raw data view might contain less information than before.

- **Upgraded library Apache POI and Jxls (DAF-11305)**
  
  The library Apache POI was updated to 3.17 due to the vulnerability CVE-2017-12626. The library Jxls was upgraded to 2.4.6. The library Jxls-poi was upgraded to 1.0.15.

- **Added more StaticFields to the ExcelStreamService (DAF-11250)**
  
  Added the following StaticFields to the ExcelStreamService:
  
  - StaticFields.REVISION_BY_USER_ID
• StaticFields.REVISION_BY_USER_FULLNAME
• StaticFields.REVISION_BY_USER_DEPARTMENT
• StaticFields.DOCUMENT_CREATED_BY_USER_ID
• StaticFields.DOCUMENT_CREATED_BY_USER_FULLNAME
• StaticFields.DOCUMENT_CREATED_BY_USER_DEPARTMENT

These fields have been introduced with DAF-10726.

• Upgraded Execution Core (DAF-11188)

Execution Core is updated to version 6.8.2

### 3.2.2. Fixed Bugs

• **Fixed layouting of PDF printouts** (DAF-11526)

Fixed a bug where the layout of PDF document printouts was broken.

• **Fixed layouting of DOCX printouts** (DAF-11422)

Fixed a bug where the layout of Document Printouts was broken.

• **Fixed a bug where a new document caused an exception when using the MapBusinessData action** (DAF-11286)

Using a newly created document as source for the MapBusinessData action will not throw an exception anymore.

• **Fixed a bug where FloatExpression and IntegerExpression data types caused problems when using them as call parameters** (DAF-11263)

Fixed a bug where FloatExpression and IntegerExpression data types causes problems during deserialization.

• **Fixed a bug where user roles were not assigned when using LDAP and logging in with case insensitive username** (DAF-11241)

LDAP authorities are now resolved not with the entered username but the ldap username.

• **Fixed a bug with LDAP authentication** (DAF-11237)

Authenticating using LDAP is now working again.

• **Fixed optional report parameters being mandatory in some cases** (DAF-11234)

In case of an optional date parameter, not specifying a date resulted in an exception.

• **Custom authentication providers can be loaded via authentication.mode again** (DAF-11233)

Loading custom authentication providers configured by the authentication.mode application property works again.

• **Customized builds no longer fail because of missing birt-libs dependencies** (DAF-11231)

All internal dependencies of the birt-libs module are no longer required for projects to build a module using birt.

• **Fixed a bug where uploading a report fails when report permission already exists** (DAF-11179)

Fixed a bug where uploading a report fails when report permission already exists.

• **Custom methods starting with "is" are considered** (DAF-11120)
Fixed a bug where custom methods "getters" starting with "is" are not considered after saving.

- **Fixed a bug where rule models contributed from an add-on folder where assigned to the wrong role** (DAF-11019)
  
  For the default rule model update contributor:
  
  - addon properties `rulemodel.assignall.torole` and `rulemodel.assignall.touser` are now valid only for the rulemodels in the same directory.
  - `rulemodel.activate.stateflow` will only set a stateflow if it is only set in a single `addon.properties` file, otherwise no stateflow will be set by the default contributor.

- **Fixed sorting of SimpleTable column** (DAF-10674)
  
  Fixed a bug where sorting of SimpleTable column leads now and then to an exception

### 3.3. Web Application

#### 3.3.1. New Features

- **Buttons with dialog now also work in dropdown** (DAF-11485)
  
  Buttons with DialogType now also create a dialog when used in a ButtonContainer with container type DROP_DOWN.

- **Added information about the rulemodel validity to Document Printout Datasource XML** (DAF-11267)
  
  Information about the validity (valid from / valid to) of a rulemodel are now available in the Document Printouts Datasource XML.

- **Reduced number of browser requests** (DAF-11155)
  
  Improved browser performance as the number of requests to get resources from the server was reduced.

- **Apache Wicket upgraded to 8.1.0** (DAF-11112)
  
  Apache Wicket was upgraded to version 8.1.0.

- **OptionElements now contain search field** (DAF-6716)
  
  OptionElements (drop downs) now include a search bar. Only the modes `list_view` and `drop_down` are supported.

  ![OptionElements with search bar](image)

- **Buttons with dialog now also work in grid** (DAF-4261)
  
  Buttons with DialogType now also create a dialog when used in a GridElement.
3.3.2. Improvements

- **Information message if no component was found to update an element** *(DAF-11446)*
  
  Added logging to inform when no component was found to update an element. This can be fixed by assigning specific names for those elements.

- **Websphere 8 is no longer supported** *(DAF-11425)*
  
  Workplace requires Servlet 3.1, as a side effect support for Websphere 8 was dropped.

- **Fixed potential CSRF issue with user menu** *(DAF-11323)*
  
  The user menu still had forms that allowed unencrypted submits. Those are now also encrypted to prevent CSRF attacks.

- **Support for Internet Explorer 9 and 10 dropped** *(DAF-11269)*
  
  Internet Explorer 9 and 10 are no longer supported.

- **Initial Admin password is now BCrypt encoded** *(DAF-11244)*
  
  The provided initial password is now BCrypt encoded. It is recommended to change this initial password.

- **Performance improvement for specific resources** *(DAF-11198)*
  
  Improved loading performance of less (CSS) resources.

- **Upgrade of the library jQuery** *(DAF-11158)*
  
  The library jQuery was upgraded to version 3.3.1.

- **Tomcat 9 is supported. Tomcat 8.5 support is dropped.** *(DAF-11060)*
  
  Workplace supports Tomcat 9. The support for Tomcat 8.5 is dropped.

- **Leading and trailing blanks on numbers are removed** *(DAF-11003)*
  
  Unexpected error messages on copy and paste numbers which have leading or trailing blanks do not occur any longer

- **Upgraded library TinyMCE** *(DAF-10784)*
  
  The library TinyMCE was updated to 4.8.5 due to the vulnerability SONATYPE-2018-0157. TinyMCE is used for the RichTextElement.

- **Upgraded library Apache Commons FileUpload** *(DAF-9662)*
  
  The library Apache Commons FileUpload was updated to 1.3.3 due to the vulnerability CVE-2016-100031.

3.3.3. Fixed Bugs

- **Fixed endless loading layer in audit log page** *(DAF-11507)*
  
  Fixed a bug where the reset on the audit log page caused the loading layer to open but never stop.

- **Fixed a bug where ajax-refresh failed for changing GridElement** *(DAF-11471)*
  
  Adding or removing rows from a GridElement will not cause an exception, when then using ajax-refresh.

- **Fixed a bug where an overlay appears when clicking on disabled pagination links** *(DAF-11444)*
  
  Overlay does not get added when one clicks on a disabled pagination link anymore.

- **Improved XML DataSource for Printout generation** *(DAF-11432)*
  
  Downloading the datasource for creating printouts should no longer fail for models that replace the document in the platform context while printing.
• **Fixed a bug where grid refresh was not working** (DAF-11430)
  Grids with names containing special characters will not stop the grid refresh from working.

• **Fixed unwanted browser console logging regarding GridElement** (DAF-11424)
  Fixed unwanted browser console logging regarding GridElement.

• **Fixed a bug where switching the language on the login and logout pages was not working** (DAF-11393)
  Switching the language on login and logout pages is working again.

• **Fix a bug where labels of error marked fields get a grey box** (DAF-11353)
  Labels of input fields marked with error no longer get a wrapped in a box.

• **Fixed a bug where wrong property was used to retrieve the ldap username when logging in** (DAF-11316)
  Login and auto creation of users now use the same new property `ldap.userNameAttributes` to retrieve the username.

• **Fixed incorrectly resolved LinkElement urls when using a context path** (DAF-11290)
  LinkElement in grids use `window.location` to resolve relative link urls.

• **Fixed a bug where ImageElement did not display images for Internet Explorer** (DAF-11288)
  The mime type for ImageElement images is now set according to the file extension or the image data.

• **Fixed a bug where accessing '/help' caused an exception** (DAF-11282)
  Accessing `/help` is displaying the help page without errors.

• **Fixed importing documents to not add too many attachments** (DAF-11268)
  When importing documents to documents already having attachments, the imported attachments were appended. Now they will replace them.

• **Fixed a bug where the compatibility for IE was not set** (DAF-11264)
  Fixed the "X-UA-Compatible" meta information for html pages being misplaced.

• **Fixed a bug where the same message was displayed twice** (DAF-11257)
  Fixed a bug where the same message was displayed twice.

• **Fixed a bug which caused the preference panel to crash when empty preferences were saved** (DAF-11247)
  A validation for integer preferences and character preferences was introduced to prevent empty preferences from being saved, causing the preference panel to crash.

• **Fixed a bug where the upload button of the FileUploadElement was in the wrong place** (DAF-11246)
  Fixed a bug where the upload button of the FileUploadElement was in the wrong place.

• **Fixed a bug where buttons with dialog submitted on clicking** (DAF-11232)
  Dialog buttons submitted on clicking without waiting for the dialog window, due to changes with the wicket upgrade.

• **Fixed a bug where the feedback message suggests VRA and JAR as supported rule model file extensions** (DAF-11216)
  Only VRA rule model files are supported.

• **Linking to workplace pages from within the grid works again** (DAF-11211)
  Links that referred to other workplace pages were pointing to invalid URLs in most cases. They now refer to the correct URLs.
• **Use sanitized HTML in tooltip** (DAF-11199)
  Fixed a bug where HTML tags and attributes in tooltip were not rendered.

• **Added an overlay on buttons in pull down buttons choose** (DAF-11130)
  Hit a button in a pull down button choose shows now a working indicator

• **Fixed collecting of platform messages referenced to the Grid Element** (DAF-11118)
  Messages affecting elements in GridElement are now displayed at once not matter if they are on the active Tab or not.

• **Usage of "externalDataSource" does not work within BIRT library** (DAF-11099)
  Workplace provides access to its transactional and pooled data source when defining a BIRT report data source with the name `externalDataSource`. Fixed a bug where this was not possible when defined within BIRT libraries.

• **Fixed a bug where setting an element in GridElement to required leads to no other validation** (DAF-11070)
  Integer-, DecimalNumber-, and StringElement are validated correctly now.

• **Fixed tooltips loosing their style** (DAF-10791)
  Tooltips will be displayed in expected style.

• **Removed undocumented ‘action’ url parameter** (DAF-10678)
  URL parameter `/action/open` was removed. It was not working properly and could be a security hole if implemented.

• **Removed warning when printing LinkElement and Button in Grid** (DAF-10647)
  LinkElement and Button inside a grid without referenced data element, will not display a warning when printing.

• **Error messages for multiline string element in grid are now shown** (DAF-10637)
  The error messages by a multiline string element could be removed by the grid rerendering, caused by opening the multiline modal.

• **On upload report permission is no longer assigned to uploading user** (DAF-9247)
  Uploading a report will not assign the permission for the report to the uploading user anymore.

### 3.4. Example Rule Models

#### 3.4.1. Fixed Bugs

• **Fixed the example user management configuration model** (DAF-11311)
  For new users the model was causing an error when checking for password reuse. Old passwords are now only checked for existing users.

### 3.5. Maintenance Tool

#### 3.5.1. Fixed Bugs

• **Fixed migration command of maintenance tool** (DAF-11429)
  Migrating rulemodels with the `migrateLegacyStorageModels` will not remove `rulearchive_id`. 

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3.6. Other

3.6.1. Fixed Bugs

- **Improved post-document migration cleanup script** (DAF-11256)

  The cleanup script to be run after the document migration now truncates/drops `DM_RD_DICT` instead of using `delete` which should be a lot faster and prevent problems with Oracle's redo log.
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4.1. Runtime API

4.1.1. Improvements

• Removed PersistStateflowStateActionType (DAF-11055)
  Removed the PersistStateflowStateActionType action type as it's parameter names were wrong and it duplicated the action type Persist Stateflow State.

4.2. Core

4.2.1. Improvements

• Improved caching of rule model versions (DAF-11197)
  Rule models caching doesn't depend on current date anymore, allowing more efficient caching and preventing cache pollution.

• Upgraded Spring Framework to 5.0.7.RELEASE to fix security issue (DAF-11162)
  Upgraded Spring Framework to 5.0.7.RELEASE due to the vulnerability CVE-2018-1258.

• Improved performance of getLatestRevisionId function (DAF-11141)
  The runtime performance of the getLatestRevisionId() function was improved.

• Downgrade Apache POI from 3.17 to 3.15 (DAF-11129)
  Apache POI was downgraded from 3.17 to 3.15 as it contains API breaks that are not compatible with BIRT runtime.

• Upgraded Rules Runtime and Execution Core (DAF-11069)
  Rules Execution Core and Rules Runtime are updated to version 6.8.1.

• Improved error message for LoadDocumentDataService (DAF-11014)
  Improved the error message for LoadDocumentDataService for class mapping errors.

• Updated library Apache POI (DAF-11012)
  The library Apache POI was updated to 3.17 due to the vulnerability CVE-2017-12626.

• Removed legacy VR4/VR5 rule model storage (DAF-10964)
  The embedded Execution Core storage will now be used for all models. Existing models will have to be migrated. The UI will now only accept VRA models when uploading.

• Reduced memory consumption during document migration (DAF-10934)
  Documents with the same rule model version are now migrated "together" which reduces memory consumption and instantiation of models.

• Upgrade of Spring Framework (DAF-10707)
  The internal used Spring Framework was upgraded to a more recent version.

• Birt Runtime upgraded to 4.7 (DAF-9762)
  Birt Runtime upgraded to 4.7
4.2.2. Fixed Bugs

- **Excel export caused an Error** (DAF-11128)

  Fixed a bug where Excel export causes an Error (IO Exception). Was actually fixed with DAF-11129.

- **Function getAllUserInfos() had unset properties** (DAF-11124)

  Fixed a bug where results of getAllUserInfos() had phoneNumber, fullname and department properties not set.

- **BIRT charts in reports** (DAF-11123)

  Fixed a bug where BIRT charts did not work in reports. Fix is done for Weblogic, Tomcat and JBoss. For Websphere it needs to be adjusted with the actual version being used.

- **Removed a minor lucene index synchronization optimization** (DAF-11116)

  Fixed a bug that produced database deadlocks by removing a minor lucene index synchronization optimization.

- **Fixed an endless loop occurring if the cluster maintenance job is affected by a deadlock** (DAF-11100)

  A deadlock in the cluster maintenance may happen with an invalid environment setup. Nevertheless, if a deadlock occurs the server will no longer run into an endless database update loop.

- **Reports now show correct description** (DAF-11047)

  The report design overview screen now shows the correct description per report.

- **Fixed a bug where filtering was not applied when using the MapBusinessData action** (DAF-10975)

  Rule model data filters are now applied when using MapBusinessData action. This includes custom defined filters.

- **Technical adjustment for search index management** (DAF-10945)

  Internal refactoring of the method IndexJournalService#updateJournalEntry. It is now executed in a separate transaction.

- **Fixed a bug where error was displayed despite ignoreFailures set to true.** (DAF-10917)

  Fixed a bug where error was displayed despite ignoreFailures set to true.

- **Fixed a bug where Enums defined in a rule model were not persisted and couldn’t be exported** (DAF-10892)

  Enums defined in VR were previously not persisted with the document storage introduced in Workplace 3.3. Also, exporting and importing a document with VREnumerations was not possible.

- **Fixed error where documents with demanded permissions could be opened without permissions** (DAF-10831)

  When permissions are added to a revision as demandedPermissions, only users with that permission can open the document. That also applies to directly opening the document using via URL.

- **SQL Server Problems with IndexJournalService#addJournalEntry** (DAF-10827)

  Different handling of documents to be added to search index for SQL Server to reduce locking conflicts (technical optimization).

- **Fixed a bug where Decimals and Floats in reports could only be positive values** (DAF-10332)

  Fixed a bug where Zero and negative values would throw an Exception for Decimals and Floats in reports.

- **Upgraded to latest version of Spring Security** (DAF-9888)

  Upgraded the org.springframework.security:spring-security-config library due to security issue CVE-2016-5007.
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Upgraded the `org.springframework.security:spring-security-web` library due to security issue CVE-2016-9879.

- **Removed wss4j library** (DAF-9830)
  Removed `org.apache.ws.security:wss4j` library due to security issue CVE-2015-0226

- **Additional BIRT specific report parameter attributes are now available** (DAF-9638)
  Some additional parameter fields for BIRT reports are now available within the model API.

4.3. Web Application

4.3.1. New Features

- **The default theme of Workplace is now configurable** (DAF-8286)
  The default theme of Workplace can be changed in the platform configuration rule model using the theme attribute of the PlatformConfigurationPage.
  
  **Example Rule:**

  ```
  Theme
  page.theme := new PlatformConfigurationTheme
  page.theme.primaryColor := "red"
  page.theme.secondaryColor := "#b2b2b2"
  page.theme.menuBackgroundColor := "#ffffff"
  page.theme.menuHoverLinkColor := "red"
  page.theme.menuLinkColor := "green"
  ```

- **The title of the Layout element is now also used as the page title in the browser** (DAF-8200)
  The title of the Layout element is now also used as the page title in the browser. This simplifies navigation through the browser history.

  ```
  Set the browser title
  Condition Prefix
  add customer number
  NOT isEmpty(customer.customer_no)
  default browser title
  ```

- **Sticky navbar and containers** (DAF-8009)
  Functionality to have the navbar and containers stick to the top of the browser was added.
4.3.2. Improvements

- **Improved internal URL generation to allow Grid Elements, Rich Text Elements and Chart Elements to be used with cryptographically secured URLs** (DAF-11178)
  
  It's now possible to secure Workplace by using encrypted URLs.

- **Cross Site Request Forgery protection** (DAF-11147)
  
  Cross Site Request Forgery (CSRF) protection is enabled.

- **Accessibility improvements** (DAF-11041)
  
  An accessibility menu was introduced to simplify the operation of Workplace for keyboard users. This menu opens when the Tab key is pressed before the page has been used or when the accessibility menu key combination (default: Alt + Y) is pressed. The user can now skip to the content or to the navigation section of the page.

  An access key type can be specified for buttons in the rule model. These buttons are triggered when the corresponding access key combination is pressed.

  ```
  UI_button.accessKeyType := AccessKeyType.SAVE
  ```

  All key combinations can be defined and altered in the application's preferences.
The application's navigation can now be accessed by keyboard as well as the Rich Text Element was adapted to be opened and left via keyboard.

- **Support for Websphere 9** (DAF-10953)
  Websphere 9 is supported.

- **Updated JRE in standalone package to version 8u162** (DAF-10946)
  Updated JRE in standalone package to version 8u162

- **Improved performance of navigation menu construction** (DAF-10901)
  The number of calls to rule models building the navigation menu was reduced to improve runtime performance.

- **Improved keyboard navigation for Firefox** (DAF-10704)
  Keyboard navigation within Firefox is now working better regarding the GridElement. Improvements for other browsers are still pending.

- **There is now the option to auto-create LDAP users** (DAF-10052)
  Functionality to auto-create LDAP users on their first login and during LDAP synchronization job was added.

- **Upgraded to Apache Wicket 7.10** (DAF-9704)
  - Upgraded the `org.apache.wicket:wicket-util` library due to security issue CVE-2016-6793.
  - Upgraded the `org.apache.wicket:wicket-core` library due to security issue CVE-2014-3526.
  - Upgraded the `org.apache.wicket:wicket-core` library due to security issue CVE-2014-7808.

- **Introduced a new password hashing algorithm** (DAF-9210)
  Changed the password hashing algorithm from SHA-256 to BCrypt.

- **More configuration option for connection pooling** (DAF-6837)
  The internal database datasource's pool size can now be configured.

### 4.3.3. Fixed Bugs

- **Error in auto-refresh in Batch view screen** (DAF-11117)
  Fixed a bug that caused an error within the Batch view screen when auto-refresh is performed

- **Font size for radio buttons adjusted** (DAF-11103)
  The font size for radio buttons was slightly different and was adjusted.

- **Fixed a bug where user input was executed without sanitation** (DAF-10999)
  Fixed a bug where HTML was interpreted without any sanitization of the user input.

- **Fixed a bug regarding SQL Injection** (DAF-10998)
  Fixed a bug where it was possible to inject SQL statements in the message filter of Audit Log Page.

- **Fixed a bug on Permission Assignment Administration Screen** (DAF-10992)
  Fixed a bug where selecting next page on permission Assignment Administration Screen had not effect.
• **Added loading indicator layer to rulemodel upload** (DAF-10988)

  Added loading indicator screen when uploading a rulemodel.

• **GetBusinessDataValue functions are not case sensitive anymore** (DAF-10966)

  Functions:
  • getBusinessDataAnyListValue
  • getBusinessDataAnyMapValue
  • getBusinessDataAnySetValue
  • getBusinessDataAnyValue
  • getBusinessDataBooleanValue
  • getBusinessDataLongValue
  • getBusinessDataStringValue

  are not case sensitive anymore.

• **Fixed a bug where QueryRawDataService loads duplicated data** (DAF-10965)

  QueryRawDataService used in the View Raw Data Rule Model will no longer load duplicated data for migrated documents. A side effect is the missing element data type information for empty values.

• **Page will scroll to top on submit** (DAF-10941)

  When pressing a submit button on a page with grids, the browser will scroll to the top as with normal pages.

• **Fixed error messages for invalid file extensions when uploading** (DAF-10895)

  When uploading files with a disallowed extension using the FileUploadElement, the error message was garbage. Also, if the allowedExtension property did not contain more than one extension and no spaces, it was not accepting files.

• **Fixed a bug where duplicated Platform Messages for VTable are shown** (DAF-10885)

  Fixed a bug where duplicated Platform Messages for VTable are shown

• **Removed target field for links in Rich Text fields** (DAF-10884)

  The "target" field was not working properly and it was not an intended feature of the Rich Text Element. It was removed from the insert link action to prevent further confusion.

• **Label elements are no longer susceptible for cross site scripting attacks** (DAF-10440)

  When using `nameOfReferencedData` for labels, the business data text is now sanitized before display.

### 4.4. Batch Application

#### 4.4.1. Improvements

• **Removed xstream library** (DAF-10294)

  Removed `com.thoughtworks.xstream:xstream` library due to security issue CVE-2017-7957

#### 4.4.2. Fixed Bugs

• **Controlled shutdown of Batch Platform** (DAF-10982)

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Fixed a bug that prevented a controlled shutdown of the Batch Platform. The fix includes removal of the \texttt{shutdown.port} property from the \texttt{workplace-batch-application.properties} file. The Operations Guide was updated to reflect the change.

4.5. Standard Rule Models

4.5.1. New Features

- **Standard Report Model is now available** (DAF-4773)

  Workplace now provides a standard rule model for report generation. It lists all available reports for a user and dynamically display the report parameters defined in the BIRT report. The project has been improved and moved from category Workplace Examples to Workplace Standard. Furthermore layout and business rules have been moved to Workplace Commons and can be reused if needed.

4.5.2. Improvements

- **Improvements of search rules in Workplace Commons** (DAF-11025)

  The search rules provided in Workplace Commons have been refactored and the interface has been improved. Further more search rules have been extended with the following functionality:
  
  - setting of link target of a link column can now be defined. Default is set to \texttt{LinkTarget.SELF}
  
  - possibility to set the default page index
  
  - possibility to define if discarded documents should be included in search query

  Also default values for the following attributes are now provided and don’t have to be set explicitly by users of search rules anymore:
  
  - page size is set to 10 by default
  
  - initial sorting is now set to document id, descending
  
  - default page index is 1
  
  - discarded documents are excluded by default

  Search rules also take care of the usage and setting a copy of the filter criteria for filtering and sorting. Users of this rule can now remove this element of their specific data types. Additionally logic has been introduced to ensure proper displaying, sorting and paging if static field for user full name has been selected but not filled. Documentation of Workplace Commons project can now be found in Workplace User Guide.

  As new date functions are needed, they have been added to Workplace Commons project:

  \[
  \begin{align*}
  \text{convertDateToTimestamp} & : \text{Date} \to \text{Timestamp} \\
  \text{convertTimestampToDate} & : \text{Timestamp} \to \text{Date} \\
  \text{convertSearchResultStringToTimestamp} & : \text{String} \to \text{Timestamp}
  \end{align*}
  \]

4.6. Remote API

4.6.1. Improvements

- **Rule models based on imported XSD are now callable by remote API** (DAF-11038)
Rule models with data types imported from an XSD were previously required to have a specific format. This requirement was relaxed, allowing remote API calls with less restrictions.
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5.1. Runtime API

5.1.1. New Features

- **Function evalExpression** (DAF-10596)
  
  A new function to evaluate expressions is available. Valid expressions are, for example, \(3+4 \times (7+8)\) or even with variables like \(a+5\).

  Example:

  ```
  evaluate expression
  parameter["a"] := "2"
  parameter["b"] := "1"
  seven := evalExpression("3 \times a + b ", parameter)
  ```

- **Localize function without parameters** (DAF-10528)
  
  There is an additional localize function that can be used when no parameters are required.

- **New functions for uploaded and removed attachments** (DAF-10478)
  
  There are two new functions `getLatestUploadedAttachment` & `getLatestRemovedAttachment` to return either the latest uploaded or removed attachment. In 3.4.0 the old `getUploadedOrRemovedAttachment` function is removed from the Runtime API. The implementation is still available to ensure backwards compatibility.

- **New function getBusinessDataAnySetValue()** (DAF-10463)
  
  The new function `getBusinessDataAnySetValue()` returns the value of the business data of type Set.

- **New function "isStaticField" available** (DAF-10260)
  
  New function "isStaticField" available. It verifies if a given search field is a static field.

- **Delete Document and Delete Revision Services** (DAF-9365)
  
  The Runtime API contains services to physically delete a document / revision and all its related entities (e.g. document relations to the deleted document / revision, but not the related documents / revisions themself).

5.1.2. Improvements

- **File extension whitelist to FileuploadElement** (DAF-10774)
  
  The FileuploadElement can be configured with a whitelist to only allow specific file extensions. If none is given, the executable formats "exe", "bat", "sh", "cmd", and "ps1" will be disallowed.

- **Improved Grid Element navigation** (DAF-10662)
  
  The Grid Element now also supports setting the number of visible page links in the navigation.

- **Removed function getOperationEvent()** (DAF-10277)
  
  The function `getOperationEvent()` was removed. Please use `getEventId()` instead.
5.1.3. Fixed Bugs

- **StartDate input parameter data type of "Schedule Batch Run" Service changed from Date to Timestamp** (DAF-10278)

  StartDate input parameter data type of “Schedule Batch Run” Service changed from Date to Timestamp.

5.2. Core

5.2.1. New Features

- **Workplace Maintenance Tool (DAF-10494)**

  A new command line tool to overwrite revisions using a rule model has been added. It can be used to overwrite database revisions which could be used for anonymisation (not on production).

- **LDAP Synchronisation (DAF-10421)**

  User to role assignments can be maintained in LDAP and synchronized with Workplace. Synchronisation is done when a user logs in, on a frequently basis or can be triggered by an Administrator.

5.2.2. Improvements

- **Microsoft Windows (DAF-10878)**

  Generalized support for Microsoft Windows as operating systems. Specific versions are not mentioned anymore.

- **Extended user information available in search model (DAF-10748)**

  A users fullname, department and phone number can be used in the search models.

- **Improved export format of BigInteger and BigDecimal (DAF-10724)**

  The export format of BigInteger and BigDecimal has changed to make it human readable.

- **Logging Level (DAF-10692)**

  The logging level for the entry **There are no Documents to index** and **Index Verify Job is disabled** decreased from INFO to DEBUG.

- **Upgraded to Rules 6.8.0 (DAF-10590)**

  The Rules dependencies are upgraded to version 6.8.0.

- **Required isolation level for Microsoft SQL Server (DAF-10544)**

  The required isolation level for Microsoft SQL Server changed to READ_COMMITTED_SNAPSHOT.

- **Upgraded jackson library to 2.9.0 (DAF-10445)**

  Upgraded jackson library to version 2.9.0 due to security finding CVE-2017-7525.

- **Directory configuration harmonized (DAF-10433)**

  The configuration properties **systemupdate.working.directory**, **crrp.search.luceneIndex**, **visualrules.executioncore.working.directory** and **daf.cluster.registration.folder** are replaced by a single configuration property **workplace.data.folder**.

- **Configuration property "ldap.loadUserFromDatabase" removed (DAF-10420)**

  The configuration property "ldap.loadUserFromDatabase" is removed.

- **Extended user information** (DAF-5027)
  
  A user’s full name, department and phone number can be captured and used in the user interface and in the Rule Models.

### 5.2.3. Fixed Bugs

- **Assigning / unassigning a permission from / to a role, does not effect users immediately.** (DAF-10861)
  
  Fixed a bug where assigning / unassigning a permission from / to a role, does not effect users immediately.

- **Changed database priority of search index update background process** (DAF-10779)
  
  The background process responsible to update the search index runs with low deadlock priority and therefore gives priority to the users process. Done for Microsoft SQL Server database only.

- **Upgraded spring-ldap-core library to 2.3.2RELEASE** (DAF-10706)
  
  Upgraded spring-ldap-core library to version 2.3.2.RELEASE due to security finding CVE-2017-8028.

- **Fault tolerance when using LoadDocumentDataService** (DAF-10630)
  
  Fixed a bug where the LoadDocumentDataService was too strict with datatypes changes.

- **SwitchStateflowModelService is not threadsafe** (DAF-10508)
  
  Fixed a bug where the SwitchStateflowModelService was not threadsafe.

- **Document storage is extended to handle Maps containing a key=null** (DAF-10469)
  
  The Document storage is extended to be able to handle Maps with key=null. When exporting those documents, the key will be presented as `@@NULL@@` instead.

- **Quartz scheduler** (DAF-9709)
  
  Fixed a bug where background jobs triggered by the Quartz scheduler library threw errors. These errors occurred in environments running against Microsoft SQL Server databases and using Oracle Weblogic application servers.

### 5.3. Web Application

#### 5.3.1. New Features

- **Customer Logo** (DAF-10713)
  
  The customer logo moved to the left side. The ACTICO Logo is shown on the right side.

- **Expression Element** (DAF-9675)
  
  A new Layout Element for Integer and Float Expressions is available. Simple expressions can be entered:

  \[
  \text{Ratio} = \sum (3 + 5) (8 - 1) \times
  \]

  If the field does not have the focus, it shows the calculated value.
The arithmetic expression must start with a = sign and can consist of +, −, *, /, (, ).

- **MySQL 5.7** (DAF-8972)
  MySQL 5.7 is supported.

### 5.3.2. Improvements

- **Password properties displayed in Preference panel** (DAF-10829)
  Password properties displayed in the Preference Admin Screen will no longer be displayed in text.

- **Audit log entry when user logs out** (DAF-10767)
  An audit log entry is written when a user logs out.

- **Allow keyboard navigation within RichTextElement** (DAF-10682)
  It is possible using the keyboard to navigate within the RichTextElement.

- **Page size on user management screens** (DAF-10606)
  The page size on user management screens like role assignment is increased.

- **Upgrade TinyMCE Library** (DAF-10569)
  We upgraded the TinyMCE Library that is used for the RichTextElement.

- **Cleanup of Properties** (DAF-10558)
  The configuration file "workplace-web-application.properties" is cleaned up. Changes are done to the ldap specific properties and the order of properties changed.

- **Moved LDAP Sync Button from Role Management to User Management** (DAF-10489)
  Moved the button for the LDAP synchronisation from Role Management to User Management

- **Session ID is stored in cookie instead of URL** (DAF-10460)
  Session ID is stored in cookie instead of URL

- **Default number for maximum invalid logins** (DAF-10424)
  Default number for maximum invalid logins is set to five instead of infinite when installing a new Workplace instance. It can be changed in the preferences. It is s only applicable when authenticating against the Workplace user management. It is not considered when authenticating against LDAP or AD.

- **Default event id for User Notifications changed** (DAF-10384)
  The default event id for user notification rule models call changed from create.rating to create.notification.

- **Configurable Session Timeout** (DAF-10377)
  It is now possible to configure Workplace's session timeout.

- **Improved rule model administration** (DAF-10242)
  The rule model administration screen is improved and more flexible as before.

- **Help page look and feel** (DAF-9985)
  The look and feel of the help page was adjusted.
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- **Upgrade Logging library Log4j to 2.10.0** (DAF-6851)
  
  Upgraded the Logging library Log4j to version 2.10.0

- **Configure to display stack traces on error pages** (DAF-6800)
  
  Extend the Administration Preferences page to configure whether error pages should display stack traces or not

- **Extended user information** (DAF-5027)
  
  A users full name, department and phone number can be captured and used in the user interface and in the Rule Models.

- **Secure Cookie, HttpOnly Cookie and Cookie Naming** (DAF-3027)
  
  It is now possible to configure cookies as secure and HttpOnly. Cookies are all renamed and prefixed with ACTICO_WORKPLACE.

### 5.3.3. Fixed Bugs

- **Added missing document export and import permissions** (DAF-10850)
  
  The permissions to export and import document are integrated in the migration SQL scripts and no longer have to be added to the database manually.

- **Fixed a bug were transient fields were not printed** (DAF-10832)
  
  Transient fields are available for printing in BIRT again.

- **Nested list items in RTE Document Printout** (DAF-10826)
  
  Fixed a bug on RTE Document Printout where nested bullet points are rendered not properly. The rendering now also works for nested lists and different list styles.

- **Fixed IE9 support by downgrading TinyMCE library** (DAF-10778)
  
  The library used for the text editor, TinyMCE, was downgraded to further support Internet Explorer 9.

- **Reflected Cross-Site Scripting** (DAF-10773)
  
  Fixed a bug where reflected cross-site scripting was possible for technical error messages.

- **Technical jobs within administration screen** (DAF-10761)
  
  Fixed a bug where too many technical jobs entries are listed in the job administration screen. Technical jobs are excluded.

- **Fixed a bug regarding tooltips within GridElement** (DAF-10745)
  
  Fixed a bug where tooltips within GridElement are not shown when cell is empty

- **Rich Text Element justification and formatting** (DAF-10743)
  
  Fixed a bug were text alignment was filtered out by the user input sanitizer.

- **Logout** (DAF-10691)
  
  Fixed a bug where logout was not possible in a certain configuration.

- **RichTextElement in multiple browser windows** (DAF-10686)
  
  Fixed a bug where the RichTextElement was not working when Workplace was used in multiple browser windows.

- **Pop-up windows opened via RichTextElement can be closed** (DAF-10677)
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Fixed a bug where pop-up windows opened via RichTextElement cannot be closed anymore.

- **Show same type of required message for different fields** (DAF-10675)
  Fixed a bug where error message was different in case required fields were not filled in.

- **Fixed a bug where GridElement gets wrong data** (DAF-10673)
  Fixed a bug where GridElement get wrong data if multiple GridElements are on screen

- **Fixed a bug where messages are swallowed** (DAF-10641)
  Fixed a bug where messages and useful exceptions are swallowed if the error messages are disabled.

- **Whitespaces in label keys** (DAF-10635)
  Fixed a bug where the localizer was too strict with unnecessary whitespaces in label keys. Label keys are trimmed.

- **LDAP synchronisation** (DAF-10625)
  Fixed a bug where the LDAP synchronisation did not work against Active Directory.

- **Fixed a NullPointerException on Document Status page** (DAF-10578)
  Fixed a NullPointerException on Document Status page

- **Fixed a pagination bug in user administration** (DAF-10562)
  Fixed a pagination bug in user administration.

- **Removed NPE for uploading a non-rule model when writing an audit log entry and removed duplicated audit log entry** (DAF-10543)
  Removed a NPE when creating the audit log for a VRA upload which contains a non rule model. Removed the duplicate audit log entry for uploaded rule models.

- **Fixed a Bug in SimpleTableCell** (DAF-10540)
  Fixed a Bug where the default values of a SimpleTableCell lead to an exception.

- **Fixed a bug where Rich Text Element opens and collapses itself after a second opening in IE 11** (DAF-10530)
  Fixed a bug on Rich Text Element in IE 11 when open it a second time. The RTE could collapse when clicking outside the text.

- **Batch admin screen shows the start time as the end time** (DAF-10522)
  Fixed a bug where time columns Started and Finished of batch run were filled only with schedule date.

- **Issue on Administration Help Page** (DAF-10505)
  Fixed a bug that caused exceptions on help page within administration screens

- **Fixed a bug where main menu entries where visible, although the user lacks permissions** (DAF-10488)
  Users lacking the permission to see the main menu entry will no longer have those item appear in the menu.

- **Renamed session id cookie** (DAF-10483)
  The cookie containing the session id was renamed to ACTICO_WORKPLACE_SESSION_ID and can be used on Websphere and Weblogic Application Server without manual adjustments.

- **Show error message for not filled required fields on top of page** (DAF-10480)
  Fixed a bug where no error message was shown in case required fields were not filled in.

- **Working with two different Workplace instances within same browser** (DAF-10459)
Fixed a bug where user gets logged out accidently. This happened when working with one browser against two different Workplace servers. When the users logged out (or session timeout) on one server, the logout automatically happened for the second session.

- **GridElement Pagination shows wrong from-to-of values** (DAF-10439)
  Fixed a bug where the GridElement showed wrong ‘from-to-of’ values on last page

- **"Login failure count" is not reset** (DAF-10427)
  Fixed a bug where the "Login failure count" is not reset when a user is unlocked.

- **Save new users** (DAF-10412)
  Fixed a bug that prevented to add new users to the database.

- **Time handling in document printout** (DAF-10407)
  Fixed a bug with the time handling of a timestamp in document printouts.

- **Fixed a bug where a timed out session lead to buttons being ignored** (DAF-10387)
  Clicking modelled buttons when the session was expired were either ignored or lead to strange behavior.

- **Issues in User Management when working with multiple tabs** (DAF-10375)
  Fixed a bug that caused exceptions in the User Management when working with multiple tabs.

- **Bug on autosave** (DAF-10306)
  Fixed a bug that Roles, Groups, Permissions, Rule models are instantly assigned to the user whether autosave is on or off.

- **Navigation Menu** (DAF-10305)
  Fixed a bug where custom logic based on the user was causing errors on the login/logout pages.

- **Endless progress bar when clicking a link that targets in a new browser window** (DAF-10202)
  Fixed a bug that showed an endless progress bar when clicking a link that targets in a new browser window.

- **Rule Model Administration** (DAF-10110)
  Fixed a bug where the Rule Model Administration could throw exceptions when using multiple tabs for the application.

- **Forward call parameters** (DAF-9992)
  Fixed a bug where call parameters are not forwarded when using the LinkElement.

- **Wrong content of help page** (DAF-9987)
  Fixed a bug where the help page displayed the wrong content.

- **Various issues on help page** (DAF-9984)
  Fixed various issues that prevented a working help page without the need to customize.

- **ConcurrentModificationException within DocumentActionsHandler** (DAF-8544)
  Fixed a bug that caused a ConcurrentModificationException within DocumentActionsHandler when called under high load.

- **Button handling when session timeouts** (DAF-6209)
  Fixed a bug where the redirect to the session expired page did not work when session expired.

- **Language cookie is persistent** (DAF-5531)
The cookie storing the language information of the user is persistent now. The selected language is stored in between sessions. It was a session cookie in previous versions.

5.4. Batch Application

5.4.1. Improvements

- **TimestampBatchIdGenerator replaced with Database Sequence** (DAF-10150)
  
The TimestampBatchIdGenerator did not support concurrency. Therefore it was replaced with a database sequence. The format of the Batch ID has changed from an timestamp to a consecutive number.

5.4.2. Fixed Bugs

- **Search Index when shutdown of Batch Platform** (DAF-10368)
  
  Fixed a bug where the batch platform had to remove lucene locks during shutdown.

- **Shutdown of Batch Platform** (DAF-6283)
  
  Fixed a bug where the Batch Platform was not shutdown by the shutdown script.

5.5. Standard Rule Models

5.5.1. Improvements

- **Workplace Commons: New exception type** (DAF-10849)
  
  It is now possible to catch a specific exception if a document is locked by either optimistic locking or exception handling while trying to save a document. The new exception type is called "Stateflow_Errors_Revision_Exists_Exception". Catching of former implemented exception type "Stateflow_Errors_In_Context_Exception" will still work as it is used for supertype of the new exception. Catch or handle this specific exception if you want to implement a specific behavior for this exception type.

- **Workplace Commons: Additional fields for Commons Search** (DAF-10752)
  
  The following fields are available in the Commons Search Rules:

  - REVISION_BY_USER_ID
  - REVISION_BY_USER_FULLNAME
  - REVISION_BY_USER_DEPARTMENT
  - DOCUMENT_CREATED_BY_ID
  - DOCUMENT_CREATED_BY_FULLNAME
  - DOCUMENT_CREATED_BY_USER_DEPARTMENT

- **Workplace Commons: Full User Name in Diary** (DAF-10736)
  
  The diary has been improved to store the user full name in addition to user description and user name. The layout rules have been extended to display the user full name if available. If not available, the user description will be displayed. If this is also not available the username is displayed (as it was before).

- **Workplace Commons: Changed english text for OP_NO_SELECTION constant** (DAF-10709)
  
  The english text for the OP_NO_SELECTION constant was changed to "No Selection" instead of "Please Choose".
• **Workplace Commons: Add Possibility to link to Document from search results without showing the Document Id** (DAF-10690)

  The `Search_Column_Layout_Link` datatype from the Commons Search model (part of workplace-commons) was improved to always link to the Document Id of the current search result. This allows the modeler to use a value for this link column that differs from the Document Id of the search results e.g. display “Company Name” and link to the Company document.

• **Additional permissions for View Raw Data** (DAF-10629)

  There are additional permissions on the View Raw Data model for the Delete Revision and Delete Document Buttons

• **Workplace Commons: Allow execution of business model before rule model version upgrade** (DAF-10496)

  Improved common rule `Upgrade Rule Model Version Common` to allow the execution of the business rule model before the upgrade of the rule model version. See the upgrade guide for details.

• **Workplace Commons: function for retrieving a Date from the Workplace Search** (DAF-10325)

  Added the function `convertSearchResultStringToDate(String)` that allows to convert a Date received from the Workplace search to a Date

### 5.5.2. Fixed Bugs

• **Translation in User Notification rule model** (DAF-10794)

  Fixed a bug where the translation in the User Notification rule model was incorrect.

• **Workplace Commons: Internationalization for UI_doc_id.labelKey missing** (DAF-10475)

  Fixed a bug where no English internationalization for the labelKey `UI_doc_id.labelKey` (used on the Diary Tab) was present. Removed the no longer required internationalization for the labelKey `UI_customer_doc_id.labelKey`

• **Workplace Commons: Layout not set to readonly in case of errors** (DAF-10443)

  Fixed a bug in `Execute Layout Common` where the layout was not set to readonly in case an error occurred for a document that was in a final state.

• **Workplace Commons: Wrong version of business model executed during rule model version upgrade** (DAF-10425)

  Fixed a bug in `Upgrade Rule Model Version Common` that caused the "START_Business" rule of the old rule model version being executed when performing the rule model version upgrade. The bug was fixed by ensuring that the upgrade of the rule model version is performed first and the business rule model is executed with the new rule model version afterwards.

• **Wrong permission for role administration screen** (DAF-10366)

  Fixed a bug where the role administration screen was available for users with permission `IM_GROUP_ADMIN` instead of `IM_ROLE_ADMIN`

### 5.6. Documentation

#### 5.6.1. Improvements

• **Property files in appendix of operations guide** (DAF-10760)

  The `workplace-web-application.properties` and `workplace-batch-application.properties` are added to the appendix of the operations guide.

• **Recommendation to enable HttpOnly and secure values for cookies** (DAF-10468)
Added recommendation to operations guide to enable HttpOnly and secure values for cookies.

- **Entry Model** (DAF-10376)
  Added documented to User Guide about the Entry Model when publishing rule projects.

- **RememberMe Login Feature** (DAF-10312)
  The RememberMe Login Feature is documented in the Operations Guide.

- **Description for Schedule Batch Run Parameters** (DAF-10119)
  Added description for Schedule Batch Run Service parameters.

- **Documented Rule Model upload via Remote API** (DAF-9977)
  The Rule Model upload via Remote API is documented.

### 5.6.2. Fixed Bugs

- **Documentation for batch properties** (DAF-10805)
  Added documentation for a few properties of the workplace-batch-application.properties.

- **JBoss module path** (DAF-10383)
  Fixed wrong JBoss module path in operations guide.

- **Event Parameters for Buttons** (DAF-9634)
  The event parameters documentation was missing for Buttons.

- **Generate Report Service** (DAF-6536)
  The documentation for Generate Report Service was adjusted.

### 5.7. Other

#### 5.7.1. Improvements

- **Removed maven plugin visualrules-builder-extension-maven-plugin** (DAF-10771)
  The experimental maven plugin visualrules-builder-extension-maven-plugin is removed.
Chapter 6. Version 3.3.0

6.1. Runtime API

6.1.1. New Features

- Function for Search Rule Models to create Wildcard Conditions (DAF-6175)
  A new Rules function for Search Rule Models to create Wildcard Conditions is available.

6.1.2. Improvements

- Adjustment of user attributes names (DAF-10069)
  The naming of the user attributes createdBy, createdAt, lastUpdatedBy and lastUpdatedAt changed

- Create function to format numbers (formatNumberWithCurrentLocale) (DAF-8550)
  A new function formatNumberWithCurrentLocale(Float number, String pattern) was added to the Runtime API. It formats a number by considering the given pattern and the current users locale.

6.2. Core

6.2.1. New Features

- Add-ons can handle vra-files (DAF-10222)
  Add-ons are now aware of rules archives (*.vra files)

- Workplace Maintenance Tool (DAF-10148)
  A new command line tool to patch or overwrite revisions has been added. It can be used to bulk-patch revisions. It also can be used to overwrite database revisions which could be used for anonymization (not on production).

- Exporting and importing supports attachments (DAF-9814)
  Besides normal attachments, RichTextElements with images can now also be properly exported and imported.

- Optimized Document Storage (DAF-4997)
  The document storage is optimized. The complete document is now serialized and stored as one single record into the database instead of storing every single parameter as a separate record. A binary format is used to store the document. This has the advantage that it reduces the required database space. Also persisting and loading documents is faster.

  Separate tools exist to search for documents using native queries, to export and import document revisions or to patch or anonymize various document revisions.

  The request data compression (asynchronous and synchronous) was removed as it is not required anymore. Already stored documents are migrated into the new storage format. This migration happens automatically in the background and does not require any downtime. An ad-ministration screen exists to monitor the progress.

6.2.2. Improvements

- Performance Improvements for Database Caches (DAF-10273)
Technical Performance Improvement: Database Caches are flushed only once.

- **Upgrade to Rules 6.7.3** (DAF-9608)
  Upgraded ACTICO Rules to 6.7.3-R016. See ACTICO Rules release notes for relevant changes.

### 6.2.3. Fixed Bugs

- **Primary key violations in various cases** (DAF-10270)
  Fixed a bug introduced with 3.2.2 that causes primary key violations and other database issues.

- **Activation order of rule models with development versions not correct in some cases** (DAF-10228)
  The activation order of rule models with a development version containing "SNAPSHOT" was not correct in some cases. It happened that a previous development version was active although a newer SNAPSHOT version was uploaded and activated.

- **Fixed a deadlock when saving and searching on MSSQL** (DAF-10211)
  When saving and immediately using search, in the same model there was a potential deadlock on MSSQL.

- **Row Limit in StreamExcelService** (DAF-10022)
  Fixed a bug in the StreamExcelService where the number of rows was limited to 1000. It is now unlimited.

### 6.2.4. Other Changes

- **Build number** (DAF-10054)
  Product version contains a build number

### 6.3. Web Application

#### 6.3.1. New Features

- **Maintain documents screen** (DAF-10197)
  It's now possible for administrators to maintain (ie. correct) documents. Existing document revisions can be downloaded and changed. The result can then by uploaded as a new revision to an existing or new document.

- **View Raw Data link available in document context menu** (DAF-10130)
  The document context menu contains a link to the View Raw Data rule model. The link opens the configured View Raw Data rule model in a new browser tab and prefills the document id of the calling document context.

- **New administration screen to execute search index queries** (DAF-9804)
  A new administration screen was added that allows searching for documents using lucene native queries.

- **Call Parameters** (DAF-9352)
URLs can be enriched with call parameters and evaluated within the rule model. This gives the possibility to pass in additional information. Allowed parameters are defined within a whitelist within the Platform Configuration Rule Model:

```
navigationElement := NEW ExecuteRuleModelNavigationElement
navigationElement.acceptedCallParameters ADD "param.customer_name"
navigationElement.acceptedCallParameters ADD "param.type"
```

Example with two parameters "customer_name" and "type" passed to the rule model "MyExampleRuleModel":

```
MyExampleRuleModel/param.customer_name/John/param.type/Juristic
```

The function `getCallParameters` can be used to retrieve the passed call parameters:

```
customer_name := getCallParameters()["param.customer_name"]
```

- **ImageElement** (DAF-9325)
Workplace provides an ImageElement. It displays images located in the resource folder of the rule model.

Additionally, the ImageElement can be added to a SimpleTable via the SimpleTableImageCell.

• **Microsoft Edge is supported** *(DAF-9097)*

  Microsoft Edge is supported

• **Frameless Mode and Language URL Parameter** *(DAF-9096)*

  Workplace's header, menu and footer can be hidden by adding the URL parameter `frameless=true`. Additionally, the language can be changed by adding the URL parameter `lang` with the requested language. These parameters can be used in scenarios where Workplace is embedded into another web application as a html iframe.

### 6.3.2. Improvements

• **User lock status is now settable in User Administration** *(DAF-10315)*
The User Administration contains a drop-down list to select the lock reason of a user. As default the user is not locked. The checkbox to mark that a user is locked was removed.

- **IP addresses hidden in audit log per default** (DAF-10164)
  
  Within the preferences it is possible to specify if IP addresses should be shown within audit logs. The default changed to hide the IP address.

- **Extend service Switch Stateflow Model for eventParameters** (DAF-9022)
  
  The Switch Stateflow Service is able to handle `eventParameters`. This new parameter is optional.

### 6.3.3. Fixed Bugs

- **Unrestricted access to attachments for logged in users** (DAF-10341)
  
  Fixed a bug introduced with 2.3 were a logged in user could access arbitrary attachments if its id was known.

- **Fixed a bug that prevented the web application to run on JBoss 6.4.9 and later** (DAF-10298)
  
  Fixed a bug that prevented the web application to run on JBoss 6.4.9 and later.

- **Fixed a bug where user roles can not be removed** (DAF-10131)
  
  Fixed a bug where a user role can not be removed anymore when it was assigned to a user before.

- **Search results loose link to open documents upon pagination** (DAF-10115)
  
  Fixed a bug where the link to open a document is lost upon pagination.

- **Wrong unread user notifications counter** (DAF-10057)
  
  Fixed a bug where the number of unread user notifications within the menu always showed zero instead of the correct number.

- **Stateflow with persisted document** (DAF-9921)
  
  The state of persisted documents will no longer override the current stateflow state.

- **Show error message for not filled required fields on top of page** (DAF-9859)
  
  Fixed a bug where no error message was shown in case required fields were not filled in.

- **English authentication error message was incorrect** (DAF-9406)
  
  Fixed a bug where an English authentication error message text was incorrect.

### 6.4. Batch Application

#### 6.4.1. Fixed Bugs

- **formatDateWithTZ is now null-safe** (DAF-10329)
  
  Passing `null` to `formatDateWithTZ` will return an empty string.

### 6.5. Standard Rule Models

#### 6.5.1. New Features

- **New custom data to set layout to read only** (DAF-10374)
It is now possible to set the entire layout to read only without error message. To use this new functionality use custom data key `Custom_Data_Key_Common.SET_READ_ONLY`.

- **New custom data to set layout to read only (DAF-10201)**

  If defined aliases are used for Integer, Float, Boolean defined in package Data Types, the default value NULL does not have to be set explicitly anymore. Those aliases already include NULL as a default value. In addition to that, alias for data types date ("Date_Null") and timestamp ("Timestamp_Null") with set default value of NULL can now be used.

- **Improvements of TAB / SEC Attachments (DAF-10154)**

  It is now possible to access the UI upload element to extend or overwrite common functionality by project specific requirements e.g. set specific permissions to remove attachments, set event Id if a attachment has been removed, etc.. A specific permission to display the UI element read only can now be set as well. If the permission is empty, no check for any permissions will happen. Furthermore accessibility of elements within has been improved by setting name attributes.

- **Workplace Commons available (DAF-8731)**

  Workplace Commons rule model is available. It contains for example flow rules for Exception Handling, Diary and Search.

6.5.2. Improvements

- **Necessity to set a category when creating the Attachment Tab using Common rules (DAF-10090)**

  Improved the TAB Attachments rule in the Commons rule project. It is now required to set a category for the uploaded Attachments. You can use null but it is recommended to use a specific category. A constant is provided "ATTACHMENT_CAT_ALL" which can be used to set the category. Setting the category takes ensures that images inserted into RichTextElement are not shown on the Attachment tab and makes future enhancements (e.g. adding an additional attachment section with a different category) easier. See the screenshot below for how the rule call could look like:

  ![Definition of layout elements within Tab Attachments](image)

- **Remove save functionality from "Upgrade Rule Model Version" rule in Commons (DAF-10078)**

  It is now possible to decide whether the document shall be saved after a rule model upgrade or not. The rule "Upgrade Rule Model Version" has been renamed to "Upgrade Rule Model Version Common" and does not execute a transition (previously for event "save") anymore. If a document shall be saved or publishing is needed it has to be modeled by the project. Please find
an example in rule "Upgrade Rule Model Version" modeled within rule project EURent Stateflow.

6.6. Documentation

6.6.1. Improvements

- **LDAP baseDN documented** (DAF-10251)
  
  Documented how the LDAP baseDN can be appended to the LDAP Url in the configuration.

- **Workplace requires a persistent file system** (DAF-10076)
  
  The requirement to have a persistent file system was added to the system requirements.
Chapter 7. Version 3.2.0

7.1. Runtime API

7.1.1. New Features

• **New Batch Rule Service to be used in Application Rule Models** (DAF-9860)

  New Rules Services **Delete Batch Run**, **Load Batch Run Details** and **Search Batch Runs** are available.

• **Document Export and Import** (DAF-5398)

  Documents can be exported to the file system and imported again into another environment. The example rule model **Workplace Example Export Import** shows the usage of the two new services.

  ![Export Document Example](image)

  ![Import Document Example](image)

• **Support for overriding localized messages** (DAF-5056)

  To make it easier to split up application into multiple common modules, a new set of property files has been defined. For more information, see the User Guide, chapter "Internationalizing the Layout".

7.1.2. Improvements

• **Usage of identity management functions now possible within configuration rule models** (DAF-9803)

  The identity management functions are included in the `workplace-configuration-runtime-api`. This allows to for example to check for permissions of the current user.

• **Improved help message for localize function** (DAF-9570)

  The help message within the tooltip for the localize function is improved. It now contains an example message with placeholders for message parameters.

• **Message parameters of platform messages can be retrieved** (DAF-5258)

  It is now possible to retrieve the message parameters of a platform message. The syntax is `Message.messageParametersAsObject` and returns a List of type Any.

7.1.3. Fixed Bugs

• **Function getAllUsersOfGroup throws RuntimeException for empty groups** (DAF-9613)
Fixed a bug where the function `getAllUsersOfGroup` threw an error if the group was empty (i.e. includes no users).

## 7.2. Core

### 7.2.1. Improvements

- **Creation and last update information for User** (DAF-9766)
  The IM_USER table was extended with additional columns for creation and last update.

- **ACTICO Rules Upgrade** (DAF-3817)
  Upgraded ACTICO Rules from 6.7.0-R130 to 6.7.1-R013

### 7.2.2. Fixed Bugs

- **Bug in ID handling for SQL batch updates for MS SQL** (DAF-9961)
  Fixed a bug where ID handling for SQL batch updates did not work for Microsoft SQL server database.

- **CSS parser for reports was missing** (DAF-9849)
  Reports including CSS can now be processed. An appropriate parser is added.

- **Workplace datasource is used within reports** (DAF-9801)
  Fixed a bug where the datasource `externalDataSource` defined within Workplace is not used within reports.

- **Search index not immediately up to date when performing mass updates** (DAF-9673)
  Fixed a bug where the search index was not immediately up to date when performing mass updates. This happened for example in batch creation of documents. Although a nightly repair job recognized those missing documents, this bug fix now takes care that those are marked to be indexed immediately.

- **Quartz scheduler not started when Admin user is missing** (DAF-9652)
  Fixed a bug where the schedulers did not start when no user with username 'Admin' exists. The username of the Admin user can now be configured.

### 7.2.3. Other Changes

- **Support for SQL Server 2008 is dropped** (DAF-9876)
  The support for SQL Server 2008 is dropped.

- **Upgrade Spring Security Library to 3.2.9** (DAF-9872)
  Upgrade Spring Security Library to 3.2.9.

- **Upgraded Spring LDAP Library to 2.2.1** (DAF-9871)
  Upgraded Spring LDAP Library to 2.2.1.

- **Upgraded Spring Framework to 4.3.5** (DAF-9754)
  Upgraded Spring Framework to 4.3.5.
7.3. Web Application

7.3.1. New Features

- **Pagination Support in GridElement** (DAF-3846)
  
  Rule model pagination is supported in GridElement.

- **GridElement - Rule model columns Sorting** (DAF-3643)
  
  Rule model based column sorting is supported in GridElement.

7.3.2. Improvements

- **Locked users can be hidden within User Administration** (DAF-9717)
  
  Locked users can be hidden within User Administration.

- **Removed unnecessary hint "SNAPSHOTs allowed" from page header** (DAF-9650)
  
  The unnecessary hint "SNAPSHOTs allowed" was removed from the page header.

- **Error message for modeling errors in SimpleTable** (DAF-9564)
  
  When the SimpleTable model contains pagination modeling errors the Application shows a message describing the problem.

- **Save button on RichTextElement removed** (DAF-5798)
  
  The "Save" button was removed from the RichTextElement. The content is saved when the RTE looses the focus. The document containing the RTE is only persisted on document save.

7.3.3. Fixed Bugs

- **Rule Models cannot be uploaded to MSSQL** (DAF-10014)
  
  Fixed a bug where rule models could not be uploaded to MSSQL Database.

- **Invalid Platform Configuration Rule Model when validity of rule model is set** (DAF-9971)
  
  Fixed a bug where the Platform Configuration Rule Model could not be found when the validity of any other rule model is set.
• **Time information not correctly considered on rule model administration screen** (DAF-9934)
  
  Fixed a bug where the time information was not correctly considered on rule model administration screen.

• **Support for BigDecimal values in Grid Label** (DAF-9851)
  
  Fixed a bug where BigDecimal values were not supported in Grid label.

• **Invalid CSS if text color is set to empty value** (DAF-9743)
  
  Fixed a bug where an invalid CSS was generated if the text color was set to an empty string value.

• **Resource resolution within Platform Configuration** (DAF-9646)
  
  Fixed a bug where resources within the Platform Configuration rule model are not resolved properly.

• **Cell names are not unique when VTable has more than 10 rows and more than 10 columns** (DAF-9451)
  
  Fixed a bug in VTable where cell names are not unique. This only happens when VTable has more than 10 rows and more than 10 columns and an explicit unique name is not given.

• **Date picker format pattern** (DAF-2852)
  
  The input field for a DateElement has the correct format pattern.

### 7.3.4. Other Changes

• **Security HTTP Headers activated by default** (DAF-9869)
  
  X-Frame-Options-Header, X-Content-Type-Options-Header and X-XSS-Protection-Header are activated by default to enhance the security in the application.

### 7.4. Batch Application

#### 7.4.1. Improvements

• **Report generation possible within batch application** (DAF-9125)
  
  Reports can also be generated within the batch application. The necessary BIRT libraries are now included.

#### 7.4.2. Fixed Bugs

• **Classloader for batch executions** (DAF-9817)
  
  Fixed a bug where a different classloader was used for batch executions.

### 7.5. Example Rule Models

#### 7.5.1. Fixed Bugs

• **Missing label keys on Common rule project** (DAF-9864)
  
  Added missing resource file entries for missing labelKeys in Common rule project.
7.6. Remote API

7.6.1. Improvements

- **Disable WS Security** (DAF-6211)

  WS Security for Remote API calls is enabled per default. It can be disabled by setting the property daf.remoteapi.wssecurity.enabled=false. In this case, only basic authentication protects the Remote API.

7.7. Documentation

7.7.1. Fixed Bugs

- **Upgrade Guides does not contain all database scripts** (DAF-9955)

  Fixed a bug where the reference to a database script was missing in the upgrade guide.

7.7.2. Documentation

- **Document the JVM Option ReservedCodeCacheSize** (DAF-9718)

  The JVM ReservedCodeCacheSize Option is added to the Operations Guide.

7.8. Workplace Plugins

7.8.1. New Features

- **Plugins now available on download site** (DAF-9657)

  The Workplace Plugins are now available on http://download.actico.com/workplace/updates/.
Chapter 8. Version 3.1.0

8.1. Runtime API

8.1.1. New Features

- **New function getAllUsersOfGroup is available** (DAF-9217)
  The function `getAllUsersOfGroup(groupname)` returns all users that are assigned to the given group name.

- **Allow browser icon and title definition in platform configuration rule model** (DAF-9051)
  A webbrowser displays a browser icon (favicon) next to every open browser tab. From now on this icon can be configured in the Platform Configuration Rule Model:
  `PlatformConfigurationPage.browserIconPathKey=path_to_favicon`.
  The browser title can also be defined.

- **Workplace Runtime API** (DAF-8984)
  The rule model dependencies `daf-rule-model` and `daf-batch-rulemodel` are merged and renamed to `workplace-runtime-api`. Additionally, the number of dependencies are reduced.

- **Rule service and standard rule model to list compare result of raw data** (DAF-8258)
  A new service for Raw Data compare and a standard rule model demonstrating the functionality is available.

8.1.2. Other Changes

- **Rename attributes pointing to resources** (DAF-9357)
  The properties regarding login html, browser icon and application logo in Configuration rule models have been renamed. They now reference the (localized) resources directly, instead of a key in the `Language.properties`.

8.2. Core

8.2.1. New Features

- **Limit embedded database system updates to H2 databases only** (DAF-9536)
  The System Update feature to automatically install database scripts for Oracle and Microsoft SQL Server has been dropped due to instability. However, database scripts for demo purpose (H2 database) can still be installed automatically. Please read the Operations Guide on how those are setup in this version.

- **Add stateflow version to the search index** (DAF-9230)
  The `DOCUMENT_STATEFLOW_VERSION` was added as new static field to the search index. To use the field in search queries, a reindex of the search index is required.

- **Add stateflow name to the search index** (DAF-9198)
  The `DOCUMENT_STATEFLOW_NAME` was added as new static field to the search index. To use the field in search queries, a reindex of the search index is required.

- **Permission logic of navigation nodes changed** (DAF-8621)
  The permission logic of navigation nodes changed for cases where multiple permissions are defined. That is, to access a navigation node or rule model a user has to have all of the required permissions instead of only one of the required permissions.
• **Upgrade to ACTICO Rules 6.7.0** (DAF-8564)
  ACTICO Rules 6.7 is required.

• **Java 8** (DAF-6108)
  Java 8 is required.

• **Build and deployment changed** (DAF-4362)
  The Workplace specific FatJar build was dropped. Workplaces relies on the build and deploy process of ACTICO Rules, mainly the new Execution Core feature handling Revisions.
  The main changes are:
  • Each uploaded artifact version (rule model or library) is appended with a revision during runtime. E.g. Version 1.0.0 is appended with revision 1.
  • Revisions numbers might start with an other value and are not necessarily a sequence.
  • No differentiation between SNAPSHOT and RELEASE versions.
  • Workplace does not contain any whitelists or ignore lists that need to be customized.
  • Library dependencies should be marked with "Skip deployment to execution environment" unless there is a reason to deploy.
  • Revision is dependant on environment (as it is a runtime information), e.g. `0.0.1-SNAPSHOT;rev=22` on test can be the same as `0.0.1-SNAPSHOT;rev=1`.

### 8.2.2. Improvements

• **Upgraded POI library from version 3.13 to 3.15** (DAF-9494)
  Upgraded POI library from version 3.13 to 3.15.

• **Upgraded commons-fileupload from 1.3.1 to 1.3.2** (DAF-9443)
  Upgraded commons-fileupload from 1.3.1 to 1.3.2 (Security Fix)

• **Upgraded libraries commons-dbcp and commons-pool** (DAF-8897)
  The libraries *commons-dbcp* and *commons-pool* are upgraded to a newer version.

### 8.2.3. Fixed Bugs

• **Documented possible pitfall with nested rule model calls using ExecuteBusinessRuleService with a specific rule name and restoring the Platform Context** (DAF-9399)
  The user guide has been extended to describe the logic and best practice in this case of Execute Business Rule, Execute Layout Rule, Change RuleModel Version, Historicize Platform Context and Restore Platform Context.

• **Improved Error Logging of System Update** (DAF-9194)
  Exceptions during system update of rule models are now logged.

• **Fixed a bug where database script DAF-oracle.ddl could not be executed in PLSQL developer** (DAF-9190)
  Fixed a typo in the database script *DAF-oracle.ddl*.

• **Fixed oracle script for adding user rights** (DAF-9182)
  Fixed a bug in the oracle database script *041_Migration_v3_0-M1-addUserMenuRights.dml* that adds user rights.

• **Removed Xerces Library from Web Application** (DAF-9112)
Xerces Library is removed that caused side effects with other web applications running on same application server. E.g. running Workplace and Execution Server on the same Tomcat Application Server was not possible.

- **Plain Rule Models handling within System Update** (DAF-9032)
  System Update is now able to handle non-Workplace specific Rule Models. Please note that until 3.0.3 we log an ERROR if the Rule Model is non-Workplace specific. Anyhow, the Rule Model will be uploaded and can be used. In version 3.0.3 we changed the log message to INFO.

- **Upgrade xstream library** (DAF-8425)
  Upgraded xstream library to a newer version

8.2.4. Other Changes

- **Rule models are now journalized in the execution core** (DAF-9283)
  With the upgrade to Actico Execution Core 6.7, models are no longer archived by Workplace itself.

- **Upgrade Spring Security Library** (DAF-9113)
  Spring Security Framework is upgraded to version 3.2.9

- **Remove JAXB Library** (DAF-9070)
  Remove JAXB Libraries as those are now part of the Java Platform

- **Classloading Order** (DAF-8631)
  The order of class and resource loading was changed to the default order of Execution Core. Now the order is "child first".

8.3. Web Application

8.3.1. New Features

- **Allow configuration of eventId for ExecuteRuleModelNavigationElement and ShowDocumentNavigationElement** (DAF-9330)
  It is now possible to specify the eventId when defining navigation elements in a Configuration rule model. If no eventId is specified the default event id will be "open.rating" and "create.rating" as before.

- **Rebrand DAF to ACTICO Workplace** (DAF-9207)
  DAF was renamed to ACTICO Workplace

- **Added support for styling GridElement column and row headers** (DAF-8966)
  Enhanced GridElement with the possibility to define styleAttributes for the row and column headers.

- **Create a possibility to disable moving columns in grid** (DAF-8940)
  A new attribute columnsReorder in GridElement can be used to define if the columns of the GridElement can be reordered or not. The default value is true.

- **Improved auto correction of date elements within GridElement** (DAF-8297)
  The auto correction of date elements within GridElement was improved.

- **Highcharts** (DAF-5685)
  A new chart API is available to model chart elements within the application rule models. This enables you to e.g. provide nice dashboards including chart diagrams. Highcharts is used as the technical framework.
8.3.2. Improvements

- **SimpleTableElement** - all columns should have the same size (DAF-9429)
  All columns in SimpleTableElement have the same size.

- **Remove the restriction that GridElement Header Text is limited to 20 characters** (DAF-9237)
  Text exceeding this length has been truncated and displayed as a tooltip instead. A user defined tooltip was not shown in this case. Now the header text and tooltip is show as defined in the rule model.

- **Show a bigger range of years in an option list** (DAF-8904)
  The new attribute `yearRange` in DateElement allows to define how many years will be displayed at once in the datepicker.

- **Upgrade Servlet API** (DAF-8854)
  The servlet API was upgraded to 3.0. The application server needs to support this version.

- **Confirmation dialog when changing language** (DAF-8299)
  A confirmation dialog is shown when a user tries to switch the language. The confirmation dialog asks the user whether it is ok to switch the language as all not persisted data will be lost in this case.

- **Replace JFreeChart with Highcharts** (DAF-6214)
  Support for JFreeChart API is dropped.

8.3.3. Fixed Bugs

- **Button container is now fully visible when position is set to right** (DAF-9373)
  The right aligned ButtonContainer is now properly displayed in Sections.

- **Empty SimpleTable causes error when pagination mode is off** (DAF-9134)
  The SimpleTable Element caused an IllegalArgumentException when the pagination mode is set to `Paging.OFF` in combination with an empty data set.

- **Button Container looks different if modeled in tab than in section** (DAF-9092)
  The ButtonContainer has the same appearance in all containers.

- **Sorting of SimpleTable within rule model did not work properly** (DAF-9042)
  Sorting of SimpleTable within rule model had no effect on the web interface.

- **Fixed a bug where new users which changed the password could not login** (DAF-9026)
  New Users with flag "User must change password" could change their password, but still not login afterwards.

- **Improved error message for invalid customer logo resource path** (DAF-9005)
  Improved error message for invalid customer logo resource path defined within Platform Configuration Rule Model

- **BlockwiseDocumentIndexService should stop indexing upon shutdown** (DAF-8908)
  BlockwiseDocumentIndexService is aware of application shutdown and stops instead of throwing exceptions.

- **Feedback message pointed to the wrong GridElement row** (DAF-8902)
  When entering an invalid value (e.g. invalid number) into a GridElement Cell, the error message pointed to the wrong row
8.3.4. Other Changes

- **Rename customer specific java script file** (DAF-9458)
  
  jquery.customerSpecificJavascript-default.js to customer-specific-javascript.js

- **Same Web Application runs on all Application Server Types** (DAF-9139)
  
  There is no need to have Application Server specific Web Applications (war-files) anymore. The Web Application detects the Application Server type automatically and adjusts its configuration accordingly.

- **Migrate from AntiSamy to JSoup** (DAF-9067)
  
  Input elements like RichTextElement can contain HTML. This is a potential security issue with HTML and JavaScript code injection. Therefore, the content is parsed before further processing is done. The parser was replaced with JSoup. The parser is configured to use the relaxed whitelist provided by JSoup.

8.4. Example Rule Models

8.4.1. New Features

- **View Raw Data** (DAF-9395)
  
  The standard rule model **View Raw Data** is available to view the raw data of any stored document revision. The existing hard coded UI screen was removed.

- **Demonstrate Master/Detail Mechanism in GridElement Example** (DAF-8471)
  
  The GridExample Rule Model is extended with a second GridElement that shows details of a selected entry (row) of the Master GridElement.

- **Compare Raw Data** (DAF-2627)
  
  The standard rule model **Compare Raw Data** is available to compare the raw data of two stored documents revisions. This feature can be used to e.g. view the revision history of one specific document. It can also used to compare two documents with each other.

8.4.2. Improvements

- **Move EU Rent parameters from package level to rule level** (DAF-9238)
  
  Improved EU Rent rule models according to rule modeling best practises

8.4.3. Other Changes

- **Extend diary for parameters and user description** (DAF-9371)
  
  the Commons rule project now allows to add additional parameters to the description column within the diary tab. E.g. an additional user or any other additional information. Those parameters are used within the localize function and need to be set within the corresponding localized message. In addition to that the user column of the diary has been extended to include the description of the user if it is not empty and the order of the columns was changed.
• Replace START_Search with START_Business (DAF-9334)

  - Changes to Commons rule project
    - Removed constant RULE_NAME_START_SEARCH and rule Execute Search. If you were using them it is suggested to apply the same changes as applied to the EU Rent rule projects
  
  - Changes to EU Rent rule projects
    - Renamed START_Search to START_Business for EU Rent search models
    - Changed START_Default to trigger Execute Business Common and Execute Layout for rule models of type search

• Improve update rule model functionality in commons (DAF-9282)

  The "Update rule model version" functionality in the "Commons" project was improved.

  - Errors that occur during update of a rule model version are now shown in a more detailed way
  
  - If a newer rule model version is available
    - The Upgrade rule model version dialog is shown if no permission was handed over to the rule "Upgrade Rule Model Version Layout" the is shown
    
    - If a permission was handed over that is not assigned to the current user an information message is shown.

• Eurent & Commons Improvements (DAF-9276)

  - Changes to Commons rule project
    - The rule "Define Link To Document Parameters" is now correctly handling the revision number as a revision number instead a revision id
    
    - Changed EU Rent Customer datatype to inherit from Customer_Basic and introduced "Map Customer To Customer Basic" rule to follow modeling best practises.
    
    - English translation for message keys used in the Commons rule project were moved to the LanguageDAFCommon.properties which resides in the Commons rule project. If you defined those properties in other Visual Rules projects you can remove them
    
    - The Execute Layout Common rule will now set the layout to readonly if the current database transaction is marked as rollback only. This ensures consistency of the business data displayed on the user interface with the database
    
    - Added rule Convert Option To Layout String that allows to convert an Option to a string (handling the case where the option is set to the OP_NO_SELECTION constant). This can be used when displaying an Option in a LabelElement
    
    - Constants Event.OPEN_SEARCH (value "create.search"), Events.OPEN_DOC (value "open.rating"), Events.SEARCH (value "event.search") were moved from common to EU Rent rule models. If you were using them you'll need to create your own project specific constants.
    
    - Changes in rule Execute Layout Common: parameter states_readonly was renamed to readonly_status, parameter element_ignore_list was renamed to not_readonly_element_names

  - Changes to EU Rent rule projects
    
    - Sorting and Pagination in the EU Rent search projects are now performed in the search service
    
    - The dropdowns in the Search EU Rent rule models were not filled as the Initialization rule was never triggered
    
    - A new EU Rent specific common rule project EURent Commons Rules was added. This project includes datatypes (e.g. Permissions and Navigation IDs constants) that should to be shared between the EU Rent Platform Configuration rule project and other rule projects.
8.5. Documentation

8.5.1. Fixed Bugs

- **Permission for Login is still required** (DAF-9029)
  
  Corrected migration hint about permission for login. This permission is still required.

8.6. Workplace Plugins

8.6.1. New Features

- **Templates for Configuration Rule Projects** (DAF-8840)
  
  Two rule project templates to create new User Management Configuration and Platform Configuration are now available within the Workplace Plugins.

8.6.2. Other Changes

- **Rebrand MAP Plugins to ACTICO Workplace Plugins** (DAF-9254)
  
  The MAP Plugins are renamed to ACTICO Workplace Plugins

- **Remove JAR Button to build and deploy Rule Models** (DAF-9244)
  
  The JAR Button to build and deploy rule models is removed. Use the Publish Rule Services... functionality instead.
Chapter 9. Version 3.0.0

9.1. Changes

- Visual Rules Action to rollback the current technical transaction is now available
- Batch application does not run if there are pending database migration steps
- ClearPlatformMessagesActionType is now available in the Rule Model API
- Log level of message ‘Found x users’ is changed to ‘debug’

9.2. Bugfixes

- Improved performance of Lucene Index Verification Job
- Fixed a bug where batch application caches are flushed too often
- Fixed a bug where document printout did not work with unicode null values
- Removed ‘Reset’ button from preference administration page
Chapter 10. Version 3.0.0-M1

10.1. Changes

- Added a hint about code cache size JVM setting in operations guide
- Improved performance of GridElement
- Removed unnecessary calls building up the navigation bar
- It is now also possible to perform a document printout for current document revision. The document revision does not need to be persisted before.
- Maven Plugin to publish rule models (beta) is available
- Improved performance by adding database indices
- Lock reasons on User Administration Page are cleaned up
- Rule Models can already be configured to use a predefined datasource by creating a resource with a predefined name. This same mechanism can now also be used for BIRT reports
- Enable browser-based spellchecking for Rich Text Element
- Added filename suffix '_DocumentPrintout' when downloading an example document printout project
- Documented that DAF documents should not be locked when performing a document printout or setting to read only
- Documented that XA Transactions are not supported
- Improved caching of identity information
- Adjusted documentation about user disabling
- Disabled EHCache internal update against an external site
- Synchronous data compression is not the default anymore
- Removed JDK Version restriction during modeling time
- Administrator can set the 'is initial password' indicator
- Uncaught exceptions in rule models can be logged
- Upgraded to apache commons-collections 4.1
- The log4j configuration file name is now configurable
- Passwords can be encrypted in property files
- Improved Rich Text Element to support additional languages besides German or English
- Improved rendering of GridElement to fill the entire screen only if necessary
- The event handling is extended by optional event parameters (type Map<String, String>). Moreover, DAF itself fires specific events. E.g. an event (type EventSimpleTable) is fired when the user paginates or sorts in a SimpleTable.

Example of an evaluation of a parameterized event:
• Improved technical synchronization when loading preferences
• Upgraded library Apache POI to 3.13.
• Improved style of disabled buttons in a button container
• Improved look & feel of buttons in button containers
• Improved technical implementation of IdentityService
• Improved documentation of SimpleTableElement
• Tooltips in GridElement stay as long as the mouse is over it
• Report upload dialog was replaced. It is now possible to upload complete BIRT projects instead of just the design file only.
• Upgraded to Birt 4.4.2 runtime
• The new Visual Rules Service ‘Raw Data Service’ was introduced to list the raw data of one document revision. More information can be found in the User Guide.
• The User Notification was replaced by a DAF Standard Rule Model. It can now be easily adapted if required.
• The SimpleTableElement is extended by several new features:
  • The rule modeler can choose between a client-based and rule model-based pagination/sorting. Rule model-based pagination/sorting allows to trigger the rule model upon pagination/sorting. Each time the user paginates/sorts, the event EventSimpleTable is fired. Note, when using the rule model-based sorting, you can resolve the current problem that sorting is String-based only.
  • The rule modeler can change the visibility of the pagination links (e.g., first page, last page, previous page, next page etc.). For example, firstAndLastPageLinkVisible = false.
  • The rule modeler can change the number of the pagination links. For example, numberOfVisiblePageLinks = 3.
  • The rule modeler can specify if a specific column is sortable or not. Therefore, a list of unsortable column headers (attribute unsortableColumnHeader) have to be provided.
- Remove client administration as only one client is supported anyways

- Two new actions are available to create Excel Reports. Both Actions are configured with a query known from the Search Query API.

Overview

They are stream-based and allow to send large data sets back to the browser without consuming too much memory on the server side:


- Scheduled background jobs do not run until application is ready
- JBoss EAP 6.4 is now supported. Removed support for JBoss AS 7.1
- Upgrade to VR 6.6.0-R133 Runtime
- Maven archetype exists for Tomcat and JBoss Application Servers for easier customization
- Blockwise Document Indexer is fault tolerant if a document can not be indexed to the lucene search index. The error will be reported into the log file.
- Added EURent Example Use Case Rule Models
- Documented that static fields are not allowed within rule models
- Information about the maximum upload size is shown for the Rich Text Element
- Improved translation of audit log entries
- The new Platform Configuration Rule Model defines the navigation and content of the application itself. It is possible to define the logo, the applications title and other content.
• Providing a database script to clean up documents with missing revision state
• The flag 'Initial Password' in the user administration is persisted although the administrator did not set a new password for the user
• New functionality to mark a user notification as read action available
• Improved documentation of Delete User Notification Service
• Added information to user guide to prefer use of SimpleTableElement or GridElement instead of VTableElement
• Added a few missing labels for preferences screen
• The new Visual Rules Function 'getWorkItemsByDocumentIds()' was introduced
• Specific columns in the SimpleTableElement can be defined to be not sortable.

10.2. Bugfixes

• Fixed a bug where cross-frame scripting was possible
• Fixed a bug where temporary Apache Wicket filestores are not cleanup on the server
• Fixed a bug with an incompatible Google Guava version
• Fixed a bug where the language properties of the stateflow overrides the language properties of the application
• Fixed a bug with wrong tab being activated
• Fixed a bug in the Grid Element with time zone handling
• Fixed a bug where usage of SQLMapClientFactory was not the same for batch and web
• Fixed a bug where default format patterns are not used to display values
• Fixed a bug that showed duplicate feedback messages when wrong date element reference is modeled
• Fixed a serialization bug with commons-lang library
• Fixed a bug where the lock administration page showed the wrong id
• Fixed a bug where refreshing locked documents did not work properly
• Fixed a bug where an ComponentNotFoundException was thrown in certain cases
• Fixed a bug where no scrollbar was shown in report input parameter window
• Fixed a bug where the button container is partly hidden by a section
• Fixed a bug where the search filters are not resetted properly
• Fixed a bug where values are not displayed if default event action is triggered in certain cases
• Fixed a bug that removed the Lock Administration Entry from the Navigation
• Fixed a bug in Multirule Execution for long running processes
• Fixed a bug that prevented to perform a document printout for locked documents
• Fixed a bug in Platform Messages
• Fixed a Nullpointer Exception in Document Printout in certain cases
• Fixed a syntax error in MSSQL migration scripts
• Fixed a bug that did not list users in the user administration that need to change their passwords first
• Fixed a bug that prevent document persistence for a parameter containing an empty byte array
• Fixed a bug that inserted whitespaces in publishing tables when publishing RichTextElements
• Fixed a bug with the imprint link
• Fixed a bug in rule model administration screen when number of versions of a rule model is very large
• Fixed a bug that prevented to register external datasources in Publishing Service
• Fixed a bug that prevented a relogin after session timed out
• Fixed a bug where duplicate feedback messages are shown in certain cases
• Fixed a bug where revision number and application version is missing in meta data for Document Printout
• Fixed a bug where sequences are out of order on Oracle RAC database servers
• Fixed a bug where it was not possible to add new users on MS SQL database server
• Fixed a bug where identity columns are missing on MS SQL database servers
• Fixed a bug in Document Printout when simple table cell is an empty string
• Fixed a bug in Document Printout when option values are 'null'
• Fixed a bug with caching in Batch Platform
• Fixed a bug when the name of the web application property file was changed
• Fixed a bug with wrong flow rule name when document is created after historize platform context is called
• Fixed a bug where the activated tab defined in the rule model is overwritten
• Fixed a bug where not all data is persisted in case the requested flow rule name differs from the executed flow rule name
• Fixed a bug where the persisted option value is not displayed
• Fixed a bug where the wrong tab is activated on UI in combination with the Rich Text Element
• Fixed a bug with wrong localizations in an admin view
• Fixed a time zone bug in date element displayed within the Grid Element
• Fixed time zone bug in date element containing time information displayed within the Grid Element
• Fixed a bug where an empty blob prevented document printout
• Fixed a bug where the active tab could not be overwritten by rule model
• Fixed a bug where http redirects are not working as expected
• Fixed a bug where document printout was not possible for infinite numbers
• Fixed a bug where ajax events in the Grid Element prevented to create dialog types for buttons
• Fixed a bug where it was not possible to search for documents based on float conditions
• Fixed a bug where document persistence was not possible when executing business rule was missing
• Fixed a bug in user administration where the initial password indication was not stored in all cases
• Fixed a bug where the content of a multiline StringElement was not visible in the popup dialog when the container is set to read only
• Fixed a bug where the tab is not selected when clicking ‘refresh on tab’ button in GridElement
• Fixed a bug where the ‘nameOfReferencedDataElement’ fails when the last path element is a list entry
• Fixed a bug where read only state is not propagated to button cells in simple tables
• Fixed a bug where the user is logged out when working with multiple browser tabs in a special combination
• Fixed a bug where a dialog is not shown when the dialog button is used within the GridElement