FirstSpirit™
Unlock Your Content

Release Notes
FirstSpirit™ 2019-03

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e-Spirit

First **Spirit**™
Unlock Your Content

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1 Administration

1.1 Modification in the Java environment (wrapper configuration)

The FirstSpirit Server `conf` subdirectory contains files which in turn contain important configuration settings for server startup and the FirstSpirit Server's Java system: `fs-wrapper.conf` or `fs-wrapper*.conf` (or "wrapper" for short).

The `com.sun.awt` package contains Java 11, which is the most recent Java version. Therefore, the wrapper configuration has been modified accordingly. The associated option

```
--add-exports=java.desktop/com.sun.awt=ALL-UNNAMED
```

has been restricted accordingly:

```
wrapper.java.additional.61=--add-exports=java.desktop/com.sun.awt=ALL-UNNAMED
wrapper.java.additional.61.java_version.min=9
wrapper.java.additional.61.java_version.max=11
```

New installations as of FirstSpirit 2019-03 already feature these modifications.

We recommend making the modification manually on installations with the current Java service wrapper (indicated by the ".min" and ".max" fields).

For more information about configuration and changes in the context of wrapper files, see also CORE-9323 (release notes for FirstSpirit 2018-11).

1.2 "Rebuild search index" schedule: Logging errors

Errors that occur when indexing a project are now included in the schedule log when using the "Rebuild search index" schedule.
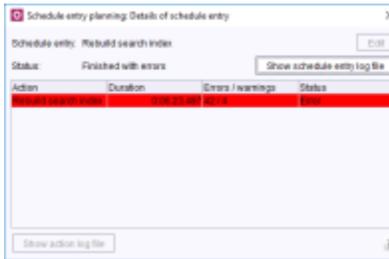
Note: It is not usually necessary to execute this schedule entry. The FirstSpirit Server is placed under significant load during the runtime of this schedule entry.

If you need to execute this schedule entry regularly, please contact our Technical Support so that a solution can be found to avoid executing this schedule entry.

For more information, see *FirstSpirit Manual for Administrators*, "FirstSpirit ServerManager / Schedule entry planning / Project-based actions / Rebuild search index".

1.3 Handling of incomplete display names for metadata in ContentCreator

The object types for which metadata can be entered is defined in the project properties under the "ContentCreator" menu item (see *FirstSpirit Manual for Administrators*, "FirstSpirit ServerManager / Project properties / ContentCreator").

A display name must always be specified for all editorial languages when adding or editing an object type for metadata.

It is now also possible to specify a "fallback value" for an object type. The fallback value is used if a display name has not been specified for an editorial language.

Error message if display name and fallback value are missing

An object type can only be saved if a display name has been specified for all languages. If a display name is missing and a fallback value has not been entered in the "Fallback" field, it will not be possible to save the object type and a corresponding message will be displayed in the edit window: "At least one fallback must be entered."

If an editorial language is added subsequently, an object type for which a fallback value has not been specified is displayed in red in the list of metadata.
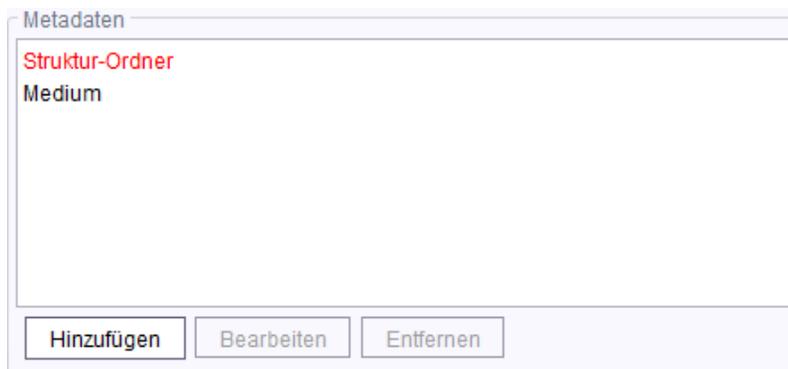
Invalid object type displayed in red

1.4   Generation: Files without content

Up to now, files without content could be created during generation. This behavior has been adjusted so that no files are generated in this case and the standard behavior of the delivery system can therefore be used (for example, 404 errors in Web servers

A corresponding `INFO` message is recorded in the log:

```
page produced no output, no output file has been created!
```

Note: For example, if the file contains a space, it will be created normally.

1.5   Java 12

For the FirstSpirit product, e-Spirit supports the current, released Java version as well as the latest LTS variant (long-term support). This applies to both the FirstSpirit server and the FirstSpirit desktop applications.

These are for the current FirstSpirit version:

- Oracle Java 11 (in the current version)

- Oracle Java 8 (in the current version)

- OpenJDK 11 (in the current version)

- OpenJDK 8 (in the current version)

Oracle Java 12 will be released (GA) in March 2019. The test phase for the use of Java 12 with FirstSpirit is currently starting. The FirstSpirit desktop applications (SiteArchitect, ServerManager) and the FirstSpirit server will be subject to intensive internal tests. The goal is to release Java 12 for use with FirstSpirit in a future FirstSpirit release.

2 FragmentCreator

2.1 Configuring categories

Fragments (and their variants) can have very different structures. For example, a press release requires different information than a product description

For this reason, each of these fragment types (also "Category") is based on its own page template in the FirstSpirit template store. These can be selected when creating a fragment in FragmentCreator:
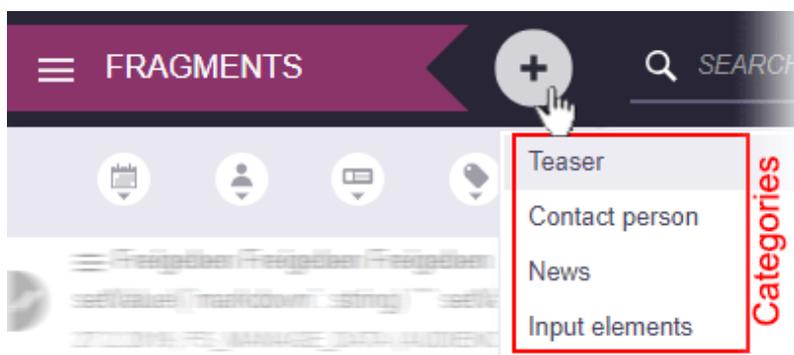
Fragments that are based on the same page template are combined in a folder in the "Page content" area of the respective FirstSpirit project. There is therefore a folder in the content management for each category, e.g.
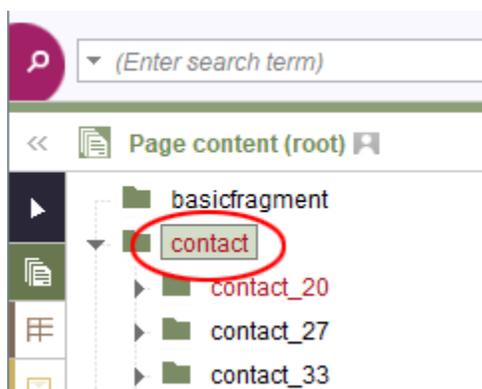
Each of these folders must be created manually in the project via the FirstSpirit SiteArchitect. The folder must have the same reference name as the corresponding page template.
Only then does the category become visible in the menu shown above and in the search.

2.2   New markdown editor: "Quill"

As an alternative to the markdown editor "SimpleMDE" (https://simplemde.com) so far used in FragmentCreator, "Quill" (https://quilljs.com) can now also be used optionally.
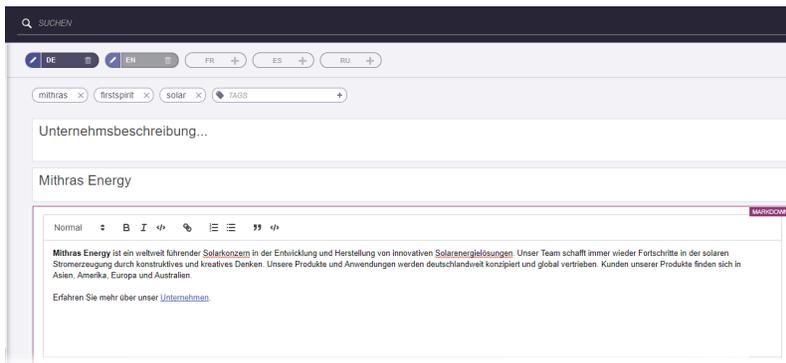
"Quill" offers more WYSIWYG convenience and thus a better user experience for the editor than "SimpleMDE", which is more technically oriented.

The "Quill" integration is currently in the EAP status ("Early Access-Programm"), but has already undergone intensive quality assurance. However, it should first be used on test systems and potential problems reported to e-Spirit promptly.

"Quill" can be activated by adding the following code snippet to the `web.xml` file of the WebApp "FragmentCreator", which is configured in the appropriate global WebApp for FragmentCreator ("FirstSpirit ServerManager / Server properties / Web applications"):
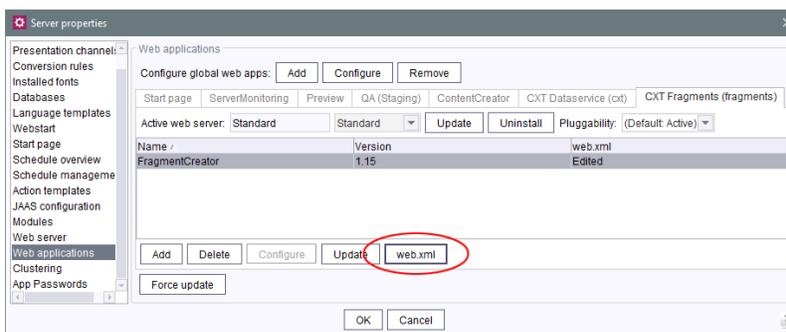
```
<!--
 The markdown editor to be used in this FragmentCreator instance.
 Set to "quill" to enable experimental Quill.js markdown editor.
-->
<context-param>
 <param-name>markdownEditorType</param-name>
 <param-value>default</param-value>
</context-param>
```

To use "Quill", the value `default` must be replaced by `quill`.

3 Module Development, Scripts, API

3.1 Version comparison via API (ContentCreator)

In ContentCreator via "Display all changes" / "Display differences" it is possible to open a dialog in the page status in which all content to which changes have been made since the last release is displayed:
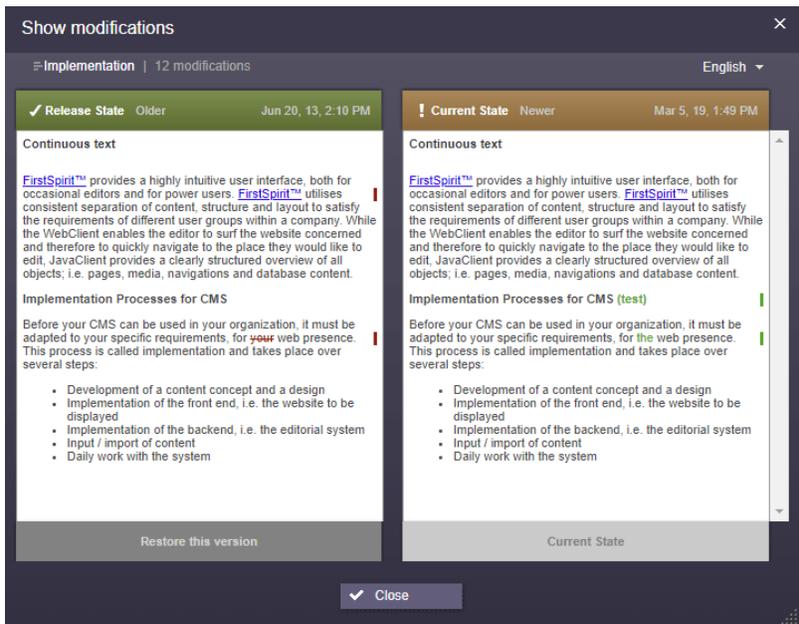
With the new `ComparisonDialogOperation` interface (`de.espirit.firstspirit.webedit.server` package, FirstSpirit Developer API), this dialog can now also be opened with an API and then used in other applications (e.g., "FirstSpirit Omnichannel Manager" or "TPP").

Example code:

```
import de.espirit.firstspirit.webedit.server.ComparisonDialogOperation;
import de.espirit.firstspirit.agency.OperationAgent;
import de.espirit.firstspirit.agency.StoreAgent;
import de.espirit.firstspirit.access.store.Store;
import de.espirit.firstspirit.access.store.pagestore.Page;
storeAgent = context.requireSpecialist(StoreAgent.TYPE);
pagestore = storeAgent.getStore(Store.Type.PAGESTORE);
element = pagestore.getStoreElement("mithras_home", Page.UID_TYPE);
operations = context.requireSpecialist(OperationAgent.TYPE);
operation = operations.getOperation(ComparisonDialogOperation.TYPE);
// (Optional) Base revision, by default the given elements revision
//operation.baseRevision(Revision);
// (Optional) Revision to compare to, by default the previous release revision
//operation.compareToRevision(Revision);
// (Optional) Languages to show in the dialog, by default all persistency languages
//operation.languages(List<Language>);
// Perform operation for the given element
operation.perform(element);
```

3.2 Preview URLs for media from remote projects

Preview URLs for media and page references can be implemented via the `PreviewUrlAgent` interface (FirstSpirit Developer API, Package `de.espirit.firstspirit.agency`).
With the current release, this is now also possible for media from remote projects.

New API was created for this purpose:

- Package `de.espirit.firstspirit.access` (FirstSpirit Access API), Interface `UrlCreatorProvider`: method `getUrlCreatorProvider`

- Package `de.espirit.firstspirit.agency` (FirstSpirit Developer API), Interface `PreviewUrlAgent`: method `pageParams`

- Package `de.espirit.firstspirit.generate` (FirstSpirit Developer API):
  - Interface `UrlFactoryContext`

  - Interface `UrlFactory`: method `setUp`

- Interface `UrlCreatorSpecification`: method `createUrlFactory`

4 Deprecations

For e-Spirit, an important goal in software development is to avoid introducing incompatibilities and migration expenditures related to updating from one FirstSpirit release to the next as much as possible or to compensate for these within the software. FirstSpirit updates should generally be deployable with little effort or able to be carried out in a fully automated fashion.

However - not least in order to ensure maintainability and to future-proof the software - e-Spirit cannot fully avoid replacing existing functionality with new mechanisms. In the future, functionality that will be removed from the software will be listed in this section, including the date at which time the functionality will be removed.

Functionality	Deprecated as of	Will be removed/ Was removed as of
Input component FS_LIST	5.2R3	
FirstSpirit Developer API: de.espirit.firstspirit.agency.GroupsAgent	5.2R15	
FirstSpirit Access API: delete (de.espirit.firstspirit.access.AccessUtil)	5.2R18	
Windows installation program	2018-06	
FirstSpirit Access API: release (de.espirit.firstspirit.access.AccessUtil)	2018-06	
FirstSpirit Developer API: getLastLoginAsDate (de.espirit.firstspirit.agency.UserStatisticsAgent)	2018-07	
FirstSpirit Developer API: remainingDurationOfCurrentStageInMillis (de.espirit.firstspirit.server.MaintenanceModeInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModeInfo)	2018-07	

Functionality	Deprecated as of	Will be removed/ Was removed as of
FirstSpirit Access API: getSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: setSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: getSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Access API: setSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Developer API: getLostAndFoundStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Developer API: getDeletedStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Access API: de.espirit.firstspirit.access.store.Previewable	2019-01	

5 Overview

ID	Description	Categories
CORE-9203	When using the "FirstSpirit OfficeConnect" module, erroneous behavior could occur when using certain rule configurations.	Developer, FirstSpirit Administrator, Modules
CORE-9259	When using the FirstSpirit Omnichannel Manager (also "TPP"), users are no longer redirected to the application root URL when making changes to the preview parameters in "Multi Perspective Preview" mode (MPP).	ContentCreator, Developer, FirstSpirit API, Module development, Multi Perspective Preview, Third Party Preview (TPP)
CORE-9379	The loading of context menu entries has been optimized.	SiteArchitect

ID	Description	Categories
CORE-9419	The identification of errors when creating queries has been improved.	SiteArchitect, Template Development
CORE-9607	Errors that occur when indexing a project are now included in the schedule log when using the "Rebuild search index" schedule. Further information can be found in chapter "Administration: "Rebuild search index" schedule: Logging errors".	FirstSpirit Administrator, Indexing, Search, ServerManager, Tasks
CORE-9910	No more empty files are created during generation. Further information can be found in chapter "Administration: Generation: Files without content".	Generation
CORE-10045	Erroneous behavior could occur in very rare instances when archiving a project.	Server Administrator
CORE-10054	New API was created to implement preview URLs for media from remote projects. Further information can be found in chapter "Module Development, Scripts, API: Preview URLs for media from remote projects".	Developer, FirstSpirit API, Media Store, Third Party Preview (TPP)
CORE-10087	With the current release, the version comparison dialog in ContentCreator can now also be accessed using an API. Further information can be found in chapter "Module Development, Scripts, API: Version comparison via API (ContentCreator)".	Developer, FirstSpirit API
CORE-10179	Erroneous behavior could occur when reading out metadata while uploading images containing Exif data.	Media Store
CORE-10180	While an administrator was editing a CorporateContent package in the source project, it was not possible to add new elements to the target project in the meantime.	Corporate Content
CORE-10271	Rule evaluation in the input component FS_REFERENCE has been optimized	SiteArchitect
CORE-10274	Optimized performance of the method `getComponents(Class)` of the interface `ModuleAgent` (FirstSpirit Developer API, package `de.espirit.firstspirit.access`).	Isolated mode (BETA)

ID	Description	Categories
CORE-10326	The use of user-specific libraries in the executable has been improved.	Module development
CORE-10338 CORE-9323	Modification in the Java environment (wrapper configuration) Further information can be found in chapter "Administration: Modification in the Java environment (wrapper configuration)".	FirstSpirit Administrator, Java
CORE-10343	Class loading performance has been improved.	Performance
CORE-10357	Behavior when resizing the FS_CATALOG input component has been improved.	ContentCreator
CORE-10365	Handling of incomplete display names of metadata in ContentCreator Further information can be found in chapter "Administration: Handling of incomplete display names for metadata in ContentCreator".	ServerManager
CORE-10375	Import/Export could in rare cases cause the file `Entities.xml` to be changed unnecessarily.	External synchronization
CORE-10397	Erroneous behavior could occur when deactivating HTTPS mode for the "JettyService" service (FirstSpirit Jetty module).	FirstSpirit Administrator, Services
CORE-10488	Oracle Java 12 will be released in March 2019. The internal test phase for the use of Java 12 with FirstSpirit is currently starting. Further information can be found in chapter "Administration: Java 12".	FirstSpirit Administrator, Java, Server Administrator
CXT-1	The selection of references (fragments, media) in FragmentCreator has been improved.	FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-2	After changing a fragment in the MicroApp, an outdated state could be returned when data is called via the REST API.	FirstSpirit Content Experience Tools (CXT)
CXT-132	Categories require an appropriate folder in the "Page content" area. Further information can be found in chapter "FragmentCreator: Configuring categories".	Developer, Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator

ID	Description	Categories
CXT-146	"Quill" can now be used as an alternative to the markdown editor "SimpleMDE". Further information can be found in chapter "FragmentCreator: New markdown editor: "Quill"".	Developer, Editor, FirstSpirit Administrator, FragmentCreator, Input Components
CXT-148	The parameter for the communication of internal REST services `webServiceBaseUrl` now also supports HTTPS.	FirstSpirit Content Experience Tools (CXT)
CXT-217	The presentation of variant selection in the middle area of the FragmentCreator has been improved.	Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-297	In the FS_MARKDOWN input component, HTML entities are now escaped if the `toHtml()` method is used for output.	Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Input Components
CXT-378	Error handling has been improved.	FragmentCreator
CXT-389	When using the FirstSpirit Jetty Web Server, the correct version of the "FirstSpirit FragmentCreator" module is now displayed in the info dialog of the FragmentCreator.	FirstSpirit Content Experience Tools (CXT), FragmentCreator, Web server
CXT-419	Handling of user sessions when using FragmentCreator has been optimized.	FirstSpirit Content Experience Tools (CXT), Sessions
CXT-531	The MIME type check has been improved for media uploaded via FirstSpirit ContentCreator.	ContentCreator, Editor, Media Store

6   Categories

6.1   Tasks

ID	Description
CORE-9607	Errors that occur when indexing a project are now included in the schedule log when using the "Rebuild search index" schedule.

ID	Description
	Further information can be found in chapter "Administration: "Rebuild search index" schedule: Logging errors".

6.2   ContentCreator

ID	Description
CORE-9259	When using the FirstSpirit Omnichannel Manager (also "TPP"), users are no longer redirected to the application root URL when making changes to the preview parameters in "Multi Perspective Preview" mode (MPP).
CORE-10357	Behavior when resizing the FS_CATALOG input component has been improved.
CXT-531	The MIME type check has been improved for media uploaded via FirstSpirit ContentCreator.

6.3   Corporate Content

ID	Description
CORE-10180	While an administrator was editing a CorporateContent package in the source project, it was not possible to add new elements to the target project in the meantime.

6.4   Services

ID	Description
CORE-10397	Erroneous behavior could occur when deactivating HTTPS mode for the "JettyService" service (FirstSpirit Jetty module).

6.5   Input Components

ID	Description
CXT-146	"Quill" can now be used as an alternative to the markdown editor "SimpleMDE".

ID	Description
	Further information can be found in chapter "FragmentCreator: New markdown editor: "Quill"".
CXT-297	In the FS_MARKDOWN input component, HTML entities are now escaped if the `toHtml()` method is used for output.

6.6   Developer

ID	Description
CORE-9203	When using the "FirstSpirit OfficeConnect" module, erroneous behavior could occur when using certain rule configurations.
CORE-9259	When using the FirstSpirit Omnichannel Manager (also "TPP"), users are no longer redirected to the application root URL when making changes to the preview parameters in "Multi Perspective Preview" mode (MPP).
CORE-10054	New API was created to implement preview URLs for media from remote projects. Further information can be found in chapter "Module Development, Scripts, API: Preview URLs for media from remote projects".
CORE-10087	With the current release, the version comparison dialog in ContentCreator can now also be accessed using an API. Further information can be found in chapter "Module Development, Scripts, API: Version comparison via API (ContentCreator)".
CXT-132	Categories require an appropriate folder in the "Page content" area. Further information can be found in chapter "FragmentCreator: Configuring categories".
CXT-146	"Quill" can now be used as an alternative to the markdown editor "SimpleMDE". Further information can be found in chapter "FragmentCreator: New markdown editor: "Quill"".

6.7 External synchronization

ID	Description
CORE-10375	Import/Export could in rare cases cause the file `Entities.xml` to be changed unnecessarily.

6.8 FirstSpirit Content Experience Tools (CXT)

ID	Description
CXT-1	The selection of references (fragments, media) in FragmentCreator has been improved.
CXT-2	After changing a fragment in the MicroApp, an outdated state could be returned when data is called via the REST API.
CXT-132	Categories require an appropriate folder in the "Page content" area. Further information can be found in chapter "FragmentCreator: Configuring categories".
CXT-148	The parameter for the communication of internal REST services `webServiceBaseUrl` now also supports HTTPS.
CXT-217	The presentation of variant selection in the middle area of the FragmentCreator has been improved.
CXT-297	In the FS_MARKDOWN input component, HTML entities are now escaped if the `toHtml()` method is used for output.
CXT-389	When using the FirstSpirit Jetty Web Server, the correct version of the "FirstSpirit FragmentCreator" module is now displayed in the info dialog of the FragmentCreator.
CXT-419	Handling of user sessions when using FragmentCreator has been optimized.

6.9 FirstSpirit Administrator

ID	Description
CORE-9203	When using the "FirstSpirit OfficeConnect" module, erroneous behavior could occur when using certain rule configurations.
CORE-9607	Errors that occur when indexing a project are now included in the schedule log when using the "Rebuild search index" schedule.

ID	Description
	Further information can be found in chapter "Administration: "Rebuild search index" schedule: Logging errors".
CORE-10338 CORE-9323	Modification in the Java environment (wrapper configuration) Further information can be found in chapter "Administration: Modification in the Java environment (wrapper configuration)".
CORE-10397	Erroneous behavior could occur when deactivating HTTPS mode for the "JettyService" service (FirstSpirit Jetty module).
CORE-10488	Oracle Java 12 will be released in March 2019. The internal test phase for the use of Java 12 with FirstSpirit is currently starting. Further information can be found in chapter "Administration: Java 12".
CXT-146	"Quill" can now be used as an alternative to the markdown editor "SimpleMDE". Further information can be found in chapter "FragmentCreator: New markdown editor: "Quill"".

6.10 FirstSpirit API

ID	Description
CORE-9259	When using the FirstSpirit Omnichannel Manager (also "TPP"), users are no longer redirected to the application root URL when making changes to the preview parameters in "Multi Perspective Preview" mode (MPP).
CORE-10054	New API was created to implement preview URLs for media from remote projects. Further information can be found in chapter "Module Development, Scripts, API: Preview URLs for media from remote projects".
CORE-10087	With the current release, the version comparison dialog in ContentCreator can now also be accessed using an API. Further information can be found in chapter "Module Development, Scripts, API: Version comparison via API (ContentCreator)".

6.11 FragmentCreator

ID	Description
CXT-1	The selection of references (fragments, media) in FragmentCreator has been improved.
CXT-132	Categories require an appropriate folder in the "Page content" area. Further information can be found in chapter "FragmentCreator: Configuring categories".
CXT-146	"Quill" can now be used as an alternative to the markdown editor "SimpleMDE". Further information can be found in chapter "FragmentCreator: New markdown editor: "Quill"".
CXT-217	The presentation of variant selection in the middle area of the FragmentCreator has been improved.
CXT-297	In the FS_MARKDOWN input component, HTML entities are now escaped if the `toHtml()` method is used for output.
CXT-378	Error handling has been improved.
CXT-389	When using the FirstSpirit Jetty Web Server, the correct version of the "FirstSpirit FragmentCreator" module is now displayed in the info dialog of the FragmentCreator.

6.12 Generation

ID	Description
CORE-9910	No more empty files are created during generation. Further information can be found in chapter "Administration: Generation: Files without content".

6.13 Indexing

ID	Description
CORE-9607	Errors that occur when indexing a project are now included in the schedule log when using the "Rebuild search index" schedule.

ID	Description
	Further information can be found in chapter "Administration: "Rebuild search index" schedule: Logging errors".

6.14   Isolated mode (BETA)

ID	Description
CORE-10274	Optimized performance of the method `getComponents(Class)` of the interface `ModuleAgent` (FirstSpirit Developer API, package `de.espirit.firstspirit.access`).

6.15   Java

ID	Description
CORE-10338 CORE-9323	Modification in the Java environment (wrapper configuration) Further information can be found in chapter "Administration: Modification in the Java environment (wrapper configuration)".
CORE-10488	Oracle Java 12 will be released in March 2019. The internal test phase for the use of Java 12 with FirstSpirit is currently starting. Further information can be found in chapter "Administration: Java 12".

6.16   Media Store

ID	Description
CORE-10054	New API was created to implement preview URLs for media from remote projects. Further information can be found in chapter "Module Development, Scripts, API: Preview URLs for media from remote projects".
CORE-10179	Erroneous behavior could occur when reading out metadata while uploading images containing Exif data.
CXT-531	The MIME type check has been improved for media uploaded via FirstSpirit ContentCreator.

6.17 Module development

ID	Description
CORE-9259	When using the FirstSpirit Omnichannel Manager (also "TPP"), users are no longer redirected to the application root URL when making changes to the preview parameters in "Multi Perspective Preview" mode (MPP).
CORE-10326	The use of user-specific libraries in the executable has been improved.

6.18 Modules

ID	Description
CORE-9203	When using the "FirstSpirit OfficeConnect" module, erroneous behavior could occur when using certain rule configurations.

6.19 Multi Perspective Preview

ID	Description
CORE-9259	When using the FirstSpirit Omnichannel Manager (also "TPP"), users are no longer redirected to the application root URL when making changes to the preview parameters in "Multi Perspective Preview" mode (MPP).

6.20 Performance

ID	Description
CORE-10343	Class loading performance has been improved.

6.21 Editor

ID	Description
CXT-132	Categories require an appropriate folder in the "Page content" area.

ID	Description
	Further information can be found in chapter "FragmentCreator: Configuring categories".
CXT-146	"Quill" can now be used as an alternative to the markdown editor "SimpleMDE". Further information can be found in chapter "FragmentCreator: New markdown editor: "Quill"".
CXT-217	The presentation of variant selection in the middle area of the FragmentCreator has been improved.
CXT-297	In the FS_MARKDOWN input component, HTML entities are now escaped if the `toHtml()` method is used for output.
CXT-531	The MIME type check has been improved for media uploaded via FirstSpirit ContentCreator.

6.22   Server Administrator

ID	Description
CORE-10045	Erroneous behavior could occur in very rare instances when archiving a project.
CORE-10488	Oracle Java 12 will be released in March 2019. The internal test phase for the use of Java 12 with FirstSpirit is currently starting. Further information can be found in chapter "Administration: Java 12".

6.23   ServerManager

ID	Description
CORE-9607	Errors that occur when indexing a project are now included in the schedule log when using the "Rebuild search index" schedule. Further information can be found in chapter "Administration: "Rebuild search index" schedule: Logging errors".
CORE-10365	Handling of incomplete display names of metadata in ContentCreator Further information can be found in chapter "Administration: Handling of incomplete display names for metadata in ContentCreator".

6.24   SiteArchitect

ID	Description
CORE-9379	The loading of context menu entries has been optimized.
CORE-9419	The identification of errors when creating queries has been improved.
CORE-10271	Rule evaluation in the input component FS_REFERENCE has been optimized

6.25   Sessions

ID	Description
CXT-419	Handling of user sessions when using FragmentCreator has been optimized.

6.26   Search

ID	Description
CORE-9607	Errors that occur when indexing a project are now included in the schedule log when using the "Rebuild search index" schedule. Further information can be found in chapter "Administration: "Rebuild search index" schedule: Logging errors".

6.27   Third Party Preview (TPP)

ID	Description
CORE-9259	When using the FirstSpirit Omnichannel Manager (also "TPP"), users are no longer redirected to the application root URL when making changes to the preview parameters in "Multi Perspective Preview" mode (MPP).
CORE-10054	New API was created to implement preview URLs for media from remote projects. Further information can be found in chapter "Module Development, Scripts, API: Preview URLs for media from remote projects".

6.28   Template Development

ID	Description
CORE-9419	The identification of errors when creating queries has been improved.

6.29   Web server

ID	Description
CXT-389	When using the FirstSpirit Jetty Web Server, the correct version of the "FirstSpirit FragmentCreator" module is now displayed in the info dialog of the FragmentCreator.