FirstSpirit™
Unlock Your Content

Release Notes
FirstSpirit™ 2023.5

Status   **RELEASED**

Department   FS-Core
Copyright   2023 Crownpeak Technology GmbH

crownpeak

Table of contents

1 Administration

1.1 Update of internally used software

As of the release 2023.5, the following internally used software has been updated.

- **Apache FOP (Formatting Objects Processor)**
  Via the module `fs-fop.fsm` (for the output of FirstSpirit content in PDF format).
  Updated from version 2.5 to version 2.8.
  Furthermore, **Apache Batik** was updated to version 1.16 in the module.
  Note: Besides closing several security holes, this also results in a better display of SVG graphics in the generated PDF files.

- **Commons FileUpload**
  Updated from version 1.3.1 to version 1.5

2 General

2.1 JSON size limit for JSON generation with json() function

In the JSON output configuration, the `json.outputLengthLimit` parameter can be used to set a size limit in bytes for the JSON file to be generated. If the set value is exceeded, the generation of the JSON file is aborted with an error message, the non-valid file is not deleted. Without setting the value, the file size will be limited to 2GB.

Example (size limit at 15MB):

```
$CMS_SET(#global.json.outputLengthLimit, 15728640)$
```

3 FirstSpirit Content Experience Tools (CXT)

3.1 Latest module versions

FirstSpirit 2023.5 supports the following module versions for "FirstSpirit Content Experience Tools".

Module / file name	Version number

FirstSpirit CXT Plattform	3.0.7
`platform-[version].fsm`	
FirstSpirit CXT DAP Bridge	1.44.11
`dataservice-[version].fsm`	
FirstSpirit CXT FragmentCreator	4.0.5
`fragment-creator-[version].fsm`	
FirstSpirit Fragment DAP	1.40.18
`fragmentdap-[version].fsm`	
FirstSpirit Media DAP	1.31.10*
`mediadap-[version].fsm`	
FirstSpirit PageRef DAP	1.9.910
`pagerefdap-[version].fsm`	
FirstSpirit Markdown Editor	1.29.9*
`markdown-editor-[version].fsm`	
FirstSpirit Tagging Editor	1.29.9
`tagging-editor-[version].fsm`	
FirstSpirit CXT FragmentCreator - CaaS Integration	1.31.10
`caas-integration-[version].fsm`	

* These modules require FirstSpirit 2020-03 or higher from this version.

3.2 MicroApp connection logic

The CXT MicroApp API URL configuration was moved from the "FirstSpirit FragmentDAP" module (Web component "Fragment DAP for ContentCreator") to the "FirstSpirit CXT Platform" module ("CXT Platform | Configuration Service") starting with version 3.0.6.
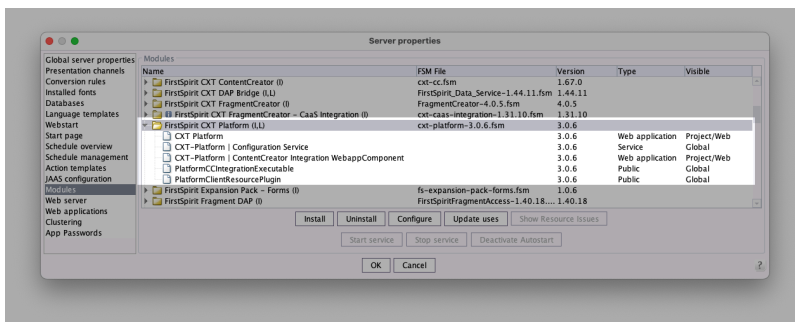
CXT-Platform Configuration Service

The "CXT-Platform | Configuration Service" provides a configuration interface that can be opened by clicking on "Configure" or by double-clicking on the service. Here, the URL to the MicroApp is configured. In this case, the URL is used to integrate the CXT MicroApp API into a website.

This is the value of the `cxt.platform.external-url` parameter configured for the CXT platform (see *Installation / Modules / Installing modules / Platform* ($\rightarrow$*Documentation "Content Experience Tools"*)):

```
https://external/cxt-platform/microapps/api.js
```

4   Module Development, Scripts, API

4.1   RenderingAgent: rendering result for processing

The interface `RenderingAgent` (package `de.espirit.firstspirit.agency`, FirstSpirit Developer API) allows to manage the generating process for certain dynamic FirstSpirit content directly via the API.

With the new method `getResult(@NotNull Writer contentWriter, @Nullable Writer logWriter)`, the rendering results are written directly into the transferred writers.

5   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 CMS_INPUT_CONTENTAREALIST	5.2R3	
Input component CMS_INPUT_CONTENTLIST	5.2R3	
Input component CMS_INPUT_FILE	5.2R3	
Input component CMS_INPUT_LINKLIST	5.2R3	
Input component CMS_INPUT_OBJECTCHOOSER	5.2R3	
Input component CMS_INPUT_PAGEREF	5.2R3	
Input component CMS_INPUT_PICTURE	5.2R3	
Input component CMS_INPUT_TABLIST	5.2R3	
FirstSpirit Developer API: de.espirit.firstspirit.agency.GroupsAgent	5.2R15	
FirstSpirit Access API: delete (de.espirit.firstspirit.access.AccessUtil)	5.2R18	
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	
FirstSpirit Access API: getSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: setSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	

Functionality	Deprecated as of	Will be removed/ Was removed as of
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	
WebSphere Application Server support for FirstSpirit	2019-05	
Control files for Windows and Linux operating systems (old)	2020-08	
Database layer for Oracle Database 11g/12c	2020-12	
FirstSpirit Developer API: redirectTemplateLogToDefaultLog() (Interface RenderingAgent.Renderer)	2021-05	
Support for Log4j 1	2022-05	

6 Overview

ID	Description	Categories
CORE-15200 CORE-15182	Update of internally used software Further information can be found in chapter "Administration: Update of internally used software".	Integrated software, Media, Modules
CORE-15217	The handling of bookmarks created with very old FirstSpirit versions has been improved.	Bookmarks, Project export / import

ID	Description	Categories
CORE-15223	A security issue allowed to access user credentials from connected third-party systems. The issue has been fixed.	Security
CORE-15224	In very rare cases, a permanently high CPU utilisation could occur when processing images.	Media Store, Server Administrator
CORE-15247	It could happen that datasets which were never released prevented the creation of features that used the release status. The problem has been resolved.	Content Transport
CORE-15253	When generating JSON with the json() function, a size limit can be set. Further information can be found in chapter "General: JSON size limit for JSON generation with json() function".	Support for JSON
CORE-15255	In very rare cases, a problem with accessing a Berkeley database competitively could occur. The problem has been resolved.	Repository
CORE-15259	The FirstSpirit server could change to the `degraded` status when the search index was recalculated ("Rebuild Search Index" schedule). The high utilisation on the server caused by this schedule is as expected. It will not lead to a change in the status of the server in the future.	ServerMonitoring
CORE-15261	When content is output using the JSON function and a circular dependency is detected, the log file will contain additional information. A render stack of the processed elements will be included in which the first occurrence of the duplicate element is highlighted.	Developer, Support for JSON
CORE-15280	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".	FirstSpirit Content Experience Tools (CXT)

ID	Description	Categories
CORE-15283	In the `RenderingAgent` interface (package `de.espirit.firstspirit.agency`, FirstSpirit Developer API), a new method `getResult(...)` has been added. With the new method, the rendering results are written directly into the transferred writers. Further information can be found in chapter "Module Development, Scripts, API: RenderingAgent: rendering result for processing".	Developer, FirstSpirit API
CXT-1485	The CXT platform now supports closing modal MicroApp dialogs with ESC.	FirstSpirit Content Experience Tools (CXT)
CXT-1710	Moving the configuration for the CXT MicroApp API URL from the "FirstSpirit FragmentDAP" module (version 1.40.18) to the "FirstSpirit CXT Platform" module (version 3.0.6). Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): MicroApp connection logic".	FirstSpirit Content Experience Tools (CXT)
CXT-2871	Under certain circumstances it could happen that some actions, e.g. displaying of references or the history of an element, were not executed. The problem has been resolved.	ContentCreator

7 Categories

7.1 Content Transport

ID	Description
CORE-15247	It could happen that datasets which were never released prevented the creation of features that used the release status. The problem has been resolved.

7.2   ContentCreator

ID	Description
CXT-2871	Under certain circumstances it could happen that some actions, e.g. displaying of references or the history of an element, were not executed. The problem has been resolved.

7.3   Developer

ID	Description
CORE-15261	When content is output using the JSON function and a circular dependency is detected, the log file will contain additional information. A render stack of the processed elements will be included in which the first occurrence of the duplicate element is highlighted.
CORE-15283	In the `RenderingAgent` interface (package `de.espirit.firstspirit.agency`, FirstSpirit Developer API), a new method `getResult(...)` has been added. With the new method, the rendering results are written directly into the transferred writers. Further information can be found in chapter "Module Development, Scripts, API: RenderingAgent: rendering result for processing".

7.4   FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-15280	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".
CXT-1485	The CXT platform now supports closing modal MicroApp dialogs with ESC.
CXT-1710	Moving the configuration for the CXT MicroApp API URL from the "FirstSpirit FragmentDAP" module (version 1.40.18) to the "FirstSpirit CXT Platform" module (version 3.0.6). Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): MicroApp connection logic".

7.5 FirstSpirit API

ID	Description
CORE-15283	In the `RenderingAgent` interface (package `de.espirit.firstspirit.agency`, FirstSpirit Developer API), a new method `getResult(...)` has been added. With the new method, the rendering results are written directly into the transferred writers. Further information can be found in chapter "Module Development, Scripts, API: RenderingAgent: rendering result for processing".

7.6 Integrated software

ID	Description
CORE-15200 CORE-15182	Update of internally used software Further information can be found in chapter "Administration: Update of internally used software".

7.7 Support for JSON

ID	Description
CORE-15253	When generating JSON with the json() function, a size limit can be set. Further information can be found in chapter "General: JSON size limit for JSON generation with json() function".
CORE-15261	When content is output using the JSON function and a circular dependency is detected, the log file will contain additional information. A render stack of the processed elements will be included in which the first occurrence of the duplicate element is highlighted.

7.8 Bookmarks

ID	Description
CORE-15217	The handling of bookmarks created with very old FirstSpirit versions has been improved.

7.9 Media

ID	Description
CORE-15200 CORE-15182	Update of internally used software Further information can be found in chapter "Administration: Update of internally used software".

7.10 Media Store

ID	Description
CORE-15224	In very rare cases, a permanently high CPU utilisation could occur when processing images.

7.11 Modules

ID	Description
CORE-15200 CORE-15182	Update of internally used software Further information can be found in chapter "Administration: Update of internally used software".

7.12 Project export / import

ID	Description
CORE-15217	The handling of bookmarks created with very old FirstSpirit versions has been improved.

7.13 Repository

ID	Description
CORE-15255	In very rare cases, a problem with accessing a Berkeley database competitively could occur. The problem has been resolved.

7.14   Server Administrator

ID	Description
CORE-15224	In very rare cases, a permanently high CPU utilisation could occur when processing images.

7.15   ServerMonitoring

ID	Description
CORE-15259	The FirstSpirit server could change to the `degraded` status when the search index was recalculated ("Rebuild Search Index" schedule). The high utilisation on the server caused by this schedule is as expected. It will not lead to a change in the status of the server in the future.

7.16   Security

ID	Description
CORE-15223	A security issue allowed to access user credentials from connected third-party systems. The issue has been fixed.