First Spirit™
Unlock Your Content

Release Notes
FirstSpirit™ 2023.6

Status	**RELEASED**
Department	FS-Core
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Table of contents

1 Administration

1.1 Update of internally used software

As of the release 2023.6, the following internally used software has been updated.

- **ASM** (library for analyzing and modifying Java byte code)
  Updated from version 9.3 to version 9.5

- **Google Guava**
  Updated from version 27.0 to version 31.1

1.2 Logging: Log4j2 XML configuration files

In FirstSpirit logging, the "Log4j 2" version branch of the "Apache Log4j" logging framework is used starting with the FirstSpirit version 2022.5.

With the current FirstSpirit release, "Log4j 2" configuration files in XML format are supported, as well. The sample configurations are located in the `<FirstSpiritROOT>/conf/conf-all` folder (`fs-logging*.xml.default.txt`) after the FirstSpirit server is updated.

The new "Log4j 2" configuration has priority over the old "Log4j 1" configuration.

For FirstSpirit servers with the FirstSpirit version 2023.6 or newer, "Log4j 2" is used by default. For FirstSpirit servers with an older FirstSpirit version, the configurations must be adjusted to switch from "Log4j 1" to "Log4j 2".

Note: Mixed configurations are possible. For example, DEBUG logging can be configured with "Log4J 1" and INFO logging with "Log4j 2".

Important: In a future release, support for "Log4j 1" will be permanently discontinued. Crownpeak recommends changing the configuration to "Log4j 2" early.

For more information, see Log4j 2 Configuration.

1.3 Repository compression with LZ4

For better server performance, the current FirstSpirit version compresses the repository of new projects with the LZ4 compression algorithm by default. The smaller size of the compressed repository database requires fewer filehandles and more data can be cached in the compressed database cache.

The default value can be configured with the new `repository.defaultCompressor` parameter in the `fs-server.conf` configuration file.

Possible values are:

`LZ4` (default value):

```
repository.defaultCompressor=de.espirit.firstspirit.storage.backend.LZ4Compressor
```

`Deflate`

```
repository.defaultCompressor=de.espirit.firstspirit.storage.backend.DeflaterCompressor
```

`[none]`

```
repository.defaultCompressor=
```
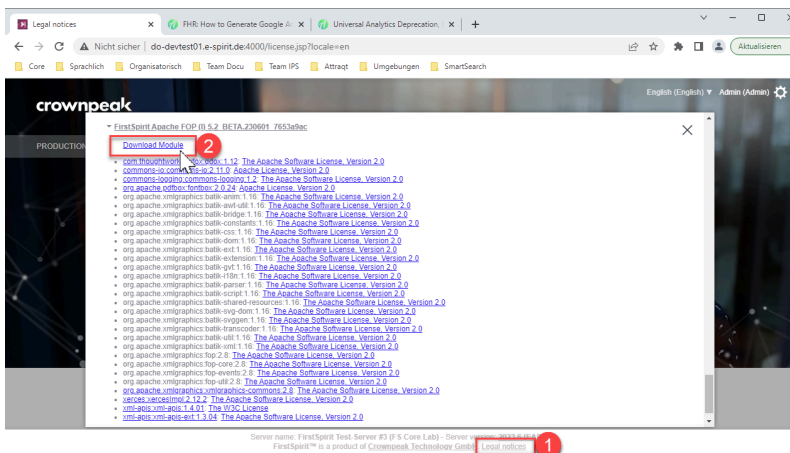
> **!** Parameter changes will only affect new projects.

2 Administration / Modules

2.1 Downloading modules installed on FirstSpirit server

Server administrators now can download modules that are installed on the FirstSpirit server under "Legal notices" on the homepage:

First Spirit™
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Note: It is not possible to download system modules here.

3 FirstSpirit Content Experience Tools (CXT)

3.1 Latest module versions

FirstSpirit 2023.6 supports the following module versions for "FirstSpirit Content Experience Tools".

Module / file name	Version number
FirstSpirit CXT Plattform	3.0.9
platform-[version].fsm	
FirstSpirit CXT DAP Bridge	1.44.12
dataservice-[version].fsm	
FirstSpirit CXT FragmentCreator	4.0.6
fragment-creator-[version].fsm	
FirstSpirit Fragment DAP	1.40.19
fragmentdap-[version].fsm	
FirstSpirit Media DAP	1.31.11
mediadap-[version].fsm	
FirstSpirit PageRef DAP	1.9.11
pagerefdap-[version].fsm	
FirstSpirit Markdown Editor	1.29.10
markdown-editor-[version].fsm	
FirstSpirit Tagging Editor	1.29.10
tagging-editor-[version].fsm	

| FirstSpirit CXT FragmentCreator - CaaS Integration | 1.31.11 |

`caas-integration-[version].fsm`

4 Template development

4.1 Images: Discard the metadata of the original image for automatically generated image files.

During an upload to FirstSpirit, images are initially stored in the project without changes concerning the format and resolution (resolution "Original"). However, for certain actions (based on the original image data), new image files are automatically generated by FirstSpirit, for example:

- when generating a preview image

- when generating new resolutions

- when using an automatically generated resolution

- in case of an image crop (in the FirstSpirit ContentCreator or SiteArchitect)

This generation can be influenced via the user-defined project property

```
ImageWriteParams
```

(FirstSpirit Access API, package `de.espirit.firstspirit.access.project`, interface `Project`, Method `setCustomProperties`). For example, you can configure the compression rate of images to generate a better image quality or smaller file size.

With the current release, it is now also possible to discard the metadata of the original image (e.g. EXIF information) using the `discardMetadata` parameter. By default, these are taken over.

In the following example, the property is configured to discard metadata for all images expect for PNG files.

```
project = context.getProject();
project.lock();
properties = new java.util.LinkedHashMap();
properties.put("default.discardMetadata", "true");
properties.put("default.png.discardMetadata", "false");
project.setCustomProperties("ImageWriteParam", properties);
project.save();
project.unlock();
```

For more information, see documentation to `ImageWriteParam`.

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	

Functionality	Deprecated as of	Will be removed/ Was removed as of
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	
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	

Functionality	Deprecated as of	Will be removed/ Was removed as of
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-14888	In projects, FormData objects of StoreElements are used in preview generation in certain cases. This is now supported for identifying such data structures in the `editorId` function.	Generation, Template Development
CORE-14921	Starting with the current FirstSpirit release, XML Log4j 2 configuration files are supported. Further information can be found in chapter "Administration: Logging: Log4j2 XML configuration files".	FirstSpirit Administrator, Logging
CORE-15101	The default values for the integrated media preview have been adjusted. The image format *SVG* is now included in the file extension list for the browser engine. The image format *WebP* is now included in the file extension list for the integrated image view. The default values only apply to new projects or after restoring the default settings (see *FirstSpirit ServerManager / Project properties / Client applications* ($\rightarrow$*Documentation for Administrators*)).	Media, Preview, SiteArchitect
CORE-15113	A problem in the preview display was occurring if the preview was based on a remote project or contained remote media. The issue has been fixed.	ContentCreator, Preview, Remote access

ID	Description	Categories
CORE-15149	Starting with the current FirstSpirit version, the "FirstSpirit Agency Support" module ceases to be a system module and can thus be uninstalled.	Server Administrator
CORE-15151	In the JxBrowser integration, limitations to the use of the `JC_API` existed (Interface `JavaClientApi`, package `de.espirit.firstspirit.client.gui`). The limitations have been removed.	FirstSpirit API
CORE-15257	The project property `ImageWriteParam` can be used to discard metadata of the original image (e.g., EXIF information) when generating images. By default, these are taken over. Further information can be found in chapter "Template development: Images: Discard the metadata of the original image for automatically generated image files.".	Developer, Media
CORE-15267	In very rare cases it was possible that entries in `fs-server-aux.conf` were not taken into account after a server restart. The problem has been resolved.	Server Administrator
CORE-15273 CORE-15179	Update of internally used software Further information can be found in chapter "Administration: Update of internally used software".	Integrated software
CORE-15285	Server administrators can now download modules installed on the FirstSpirit server in "Legal notices" on the homepage. Further information can be found in chapter "Administration / Modules: Downloading modules installed on FirstSpirit server".	Modules
CORE-15298	When using SiteArchitect with certain versions of third-party libraries (e.g. `Apache commons-lang3`), problems on the server scope could occur, e.g. when search results were listed. The error susceptibility has been reduced. Module developers are still advised to avoid dependencies in the server scope if possible.	Developer, Module development

ID	Description	Categories
CORE-15326	The repository of new projects is compressed by default using the LZ4 algorithm. Further information can be found in chapter "Administration: Repository compression with LZ4".	Repository, Server Administrator
CORE-15337	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)
CORE-15354	The `BerkeleyUtil.jar` is no longer signed.	Database
CXT-2870	Open script forms can now also be saved with the initially displayed values.	ContentCreator
CXT-2881	The project homepage is opened in the project master language again. For this, the UI language setting is no longer relevant.	ContentCreator

7   Categories

7.1   ContentCreator

ID	Description
CORE-15113	A problem in the preview display was occurring if the preview was based on a remote project or contained remote media. The issue has been fixed.
CXT-2870	Open script forms can now also be saved with the initially displayed values.
CXT-2881	The project homepage is opened in the project master language again. For this, the UI language setting is no longer relevant.

7.2   Database

ID	Description
CORE-15354	The `BerkeleyUtil.jar` is no longer signed.

7.3   Developer

ID	Description
CORE-15257	The project property `ImageWriteParam` can be used to discard metadata of the original image (e.g., EXIF information) when generating images. By default, these are taken over. Further information can be found in chapter "Template development: Images: Discard the metadata of the original image for automatically generated image files.".
CORE-15298	When using SiteArchitect with certain versions of third-party libraries (e.g. `Apache commons-lang3`), problems on the server scope could occur, e.g. when search results were listed. The error susceptibility has been reduced. Module developers are still advised to avoid dependencies in the server scope if possible.

7.4   FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-15337	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".

7.5   FirstSpirit Administrator

ID	Description
CORE-14921	Starting with the current FirstSpirit release, XML Log4j 2 configuration files are supported. Further information can be found in chapter "Administration: Logging: Log4j2 XML configuration files".

7.6   FirstSpirit API

ID	Description
CORE-15151	In the JxBrowser integration, limitations to the use of the `JC_API` existed (Interface `JavaClientApi`, package `de.espirit.firstspirit.client.gui`). The limitations have been removed.

7.7   Generation

ID	Description
CORE-14888	In projects, FormData objects of StoreElements are used in preview generation in certain cases. This is now supported for identifying such data structures in the `editorId` function.

7.8   Integrated software

ID	Description
CORE-15273 CORE-15179	Update of internally used software Further information can be found in chapter "Administration: Update of internally used software".

7.9   Logging

ID	Description
CORE-14921	Starting with the current FirstSpirit release, XML Log4j 2 configuration files are supported. Further information can be found in chapter "Administration: Logging: Log4j2 XML configuration files".

7.10   Media

ID	Description
CORE-15101	The default values for the integrated media preview have been adjusted. The image format *SVG* is now included in the file extension list for the browser engine. The image format *WebP* is now included in the file extension list for the integrated image view. The default values only apply to new projects or after restoring the default settings (see *FirstSpirit ServerManager / Project properties / Client applications* ($\rightarrow$*Documentation for Administrators*)).
CORE-15257	The project property `ImageWriteParam` can be used to discard metadata of the original image (e.g., EXIF information) when generating images. By default, these are taken over. Further information can be found in chapter "Template development: Images: Discard the metadata of the original image for automatically generated image files.".

7.11   Module development

ID	Description
CORE-15298	When using SiteArchitect with certain versions of third-party libraries (e.g. `Apache commons-lang3`), problems on the server scope could occur, e.g. when search results were listed. The error susceptibility has been reduced. Module developers are still advised to avoid dependencies in the server scope if possible.

7.12   Modules

ID	Description
CORE-15285	Server administrators can now download modules installed on the FirstSpirit server in "Legal notices" on the homepage. Further information can be found in chapter "Administration / Modules: Downloading modules installed on FirstSpirit server".

7.13   Remote access

ID	Description
CORE-15113	A problem in the preview display was occurring if the preview was based on a remote project or contained remote media. The issue has been fixed.

7.14   Repository

ID	Description
CORE-15326	The repository of new projects is compressed by default using the LZ4 algorithm. Further information can be found in chapter "Administration: Repository compression with LZ4".

7.15   Server Administrator

ID	Description
CORE-15149	Starting with the current FirstSpirit version, the "FirstSpirit Agency Support" module ceases to be a system module and can thus be uninstalled.
CORE-15267	In very rare cases it was possible that entries in `fs-server-aux.conf` were not taken into account after a server restart. The problem has been resolved.
CORE-15326	The repository of new projects is compressed by default using the LZ4 algorithm. Further information can be found in chapter "Administration: Repository compression with LZ4".

7.16   SiteArchitect

ID	Description
CORE-15101	The default values for the integrated media preview have been adjusted. The image format *SVG* is now included in the file extension list for the browser engine. The image format *WebP* is now included in the file extension list for the integrated image view. The default values only apply

ID	Description
	to new projects or after restoring the default settings (see *FirstSpirit ServerManager / Project properties / Client applications* (→*Documentation for Administrators*)).

7.17   Template Development

ID	Description
CORE-14888	In projects, FormData objects of StoreElements are used in preview generation in certain cases. This is now supported for identifying such data structures in the `editorId` function.

7.18   Preview

ID	Description
CORE-15101	The default values for the integrated media preview have been adjusted. The image format *SVG* is now included in the file extension list for the browser engine. The image format *WebP* is now included in the file extension list for the integrated image view. The default values only apply to new projects or after restoring the default settings (see *FirstSpirit ServerManager / Project properties / Client applications* (→*Documentation for Administrators*)).
CORE-15113	A problem in the preview display was occurring if the preview was based on a remote project or contained remote media. The issue has been fixed.