# FirstSpirit™
## Unlock Your Content

# Release Notes
## FirstSpirit™ 2024.3

| | |
|---|---|
| **Status** | **RELEASED** |
| Department | FS-Core |
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First Spirit™
*Unlock Your Content*

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# 1    Administration

## 1.1    Discontinuation of the logging configuration in Log4j1 format

Since FirstSpirit 2023.6, it is possible to create the configuration of the logging framework using the XML syntax of Log4j2. At the same time, the old configuration in the style of Log4j1 is still supported.

With FirstSpirit **2024.6**, this support will be discontinued.

Crownpeak recommends migrating to the new syntax early. Further details can be found in the release notes of FirstSpirit 2023.6.

Please also pay attention to Logging Best Practices in FirstSpirit.

# 2    Administration / Modules

## 2.1    Discontinuation: Automatic Jakarta EE Migrator for WebApps

The Jakarta EE Migrator for web applications introduced with FirstSpirit 2023.9 is planned to be removed with version **2024.9**.

As preparation, web app components that have not been manually migrated yet are now being noted in the `fs-server.log`.

Example:

```
WARN 07.02.2024 10:50:34.465
   (de.espirit.firstspirit.server.module.WebServerManagerImpl):
    Web-app component '[...] WebApp' packaged in module '[...]'
    does not define an XML schema version of 5.0 or later.
    This causes the web-app 'global_test' to be migrated by FirstSpirit automatically.
    The migration will not be availabe in FirstSpirit 2024.9 or later,
    so please contact the developers of this component about an updated version.
```

More information and updates can be found in the Crownpeak Community.
Contact Customer Support Team if you have questions or feedback regarding the migration.

# 3    External Synchronization

## 3.1    FSDevTools: Execute Beanshell scripts

The command line tool FSDevTools simplifies export and import operations between a FirstSpirit project and the file system via predefined commands. With the current FSDevTools release 4.7.1, the execution of Beanshell scripts is supported.

The `fs-cli` has now been expanded with the following commands:

*script parse:* compiles the script with the specified ScriptEngine (default: `beanshell`)

```
script parse [--scriptEngine|-se <NAME>]
             --scriptFile|-sf <NAME>
           [-- optional string parameterlist in form key=value]
```

*script run:* compiles the script with the specified ScriptEngine (default: `beanshell`) and executes it

```
script run [--scriptEngine|-se <NAME>]
            --scriptFile|-sf <NAME>
          [-- optional string parameterlist in form key=value]
```

The documentation of the individual commands and their parameters can be found as usual in HTML format in the release under *docs/index.html*  or can be called up via the command line (`fs-cli help script`).

# 4    FirstSpirit Content Experience Tools (CXT)

## 4.1    Latest module versions

FirstSpirit 2024.3 supports the following module versions for FirstSpirit Content Experience Tools.

| Module / file name | Version number |
| --- | --- |
| FirstSpirit CXT Plattform<br>`platform-[version].fsm` | 6.1.1 |
| FirstSpirit CXT DAP Bridge | 1.44.19 |

```
dataservice-[version].fsm
```
FirstSpirit CXT FragmentCreator         5.0.6
```
fragment-creator-[version].fsm
```
FirstSpirit Fragment DAP         1.40.28
```
fragmentdap-[version].fsm
```
FirstSpirit Media DAP         1.31.18
```
mediadap-[version].fsm
```
FirstSpirit PageRef DAP         1.9.18
```
pageref-[version].fsm
```
FirstSpirit Markdown Editor         1.29.17
```
markdown-editor-[version].fsm
```
FirstSpirit Tagging Editor         1.29.17
```
tagging-editor-[version].fsm
```
FirstSpirit CXT FragmentCreator - CaaS         1.31.17
Integration
```
caas-integration-[version].fsm
```

# 5  SiteArchitect / ServerManager

## 5.1  Java version update

The FirstSpirit desktop apps (FirstSpirit SiteArchitect and ServerManager) are started and updated (rolled out) via the **FirstSpirit Launcher**.

The "FirstSpirit Launcher JRE" module  enables customers and partners to easily switch between different Java versions for the operation of Java-based applications. The desired Java version can be selected server-wide for Microsoft Windows and macOS separately.

The included Java versions have been updated with the current release.

- 17.0.9+9 --> 17.0.10+7 (Default - the version delivered with the FirstSpirit Launcher)

- 21+35 --> 21.0.2+13

# 6    System

## 6.1    Updates to integrated third-party software

As of the current release, the following internally used software has been updated:

- **Spring Boot**
  Update from version 3.1.2 to version 3.2.2

- **Google Guava**
  Update from version 31.1 to version 33.0.0

- **TinyMCE**
  Update from version 6.7.0 to version 6.8.2

- **Google Web Toolkit** ("GWT")
  Update from version 2.10.0 to version 2.11.0

- **Apache FOP (Formatting Objects Processor)**
  Via the module `fs-fop.fsm` (for the output of FirstSpirit content in PDF format).
  Updated from version 2.8 to version 2.9.

- **Log4j**
  Updated from version 2.19.0 to version 2.22.1

# 7    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 | |

# 8 Overview

| ID | Description | Categories |
|---|---|---|
| CORE-9816 | When defining default values, a `CMS_COMMENT` form component was shown as an error if it was defined as a standalone `CMS_GROUP` tab. | SiteArchitect, Template Development |
| CORE-15734 | When editing rules in SiteArchitect, additional checks are now performed when saving, such as checking for missing editor elements. Previously, such errors only became visible during rule evaluation. | Dynamic Forms, Template Development |

| ID | Description | Categories |
|---|---|---|
| CORE-15830 | The `Log4j` version has been updated from 2.19.0 to 2.22.1. Please note the deprecation of the logging configuration in `Log4j1` format.<br><br>Further information can be found in chapter "Administration: Discontinuation of the logging configuration in Log4j1 format". | Server Administrator |
| CORE-15852 | During the configuration of a SAML Identity Provider, the setting "Single Group/Role Attribute" is no longer required for the use of the SAML login module. | Server Administrator |
| CORE-15907 | When outputting pages using the JSON function, the order of the content areas within the page is now correctly taken into account. | Developer |
| CORE-15955 | The "AWS S3 Deployment" module now sets the correct MIME type for `.webp` and `.webm` files. | AWS S3 Deployment |
| CORE-15970 | A problem with displaying outdated URLs of a page reference after an update has been fixed. | SiteArchitect |
| CORE-15977 | A modified configuration of a web app component in the ServerManager now automatically activates the "Update" button, allowing for the web app to be reinstalled. | Server Administrator |
| CORE-15980 | External images that were embedded in an output channel using Apache FOP and accessed through HTTP(S) were not displayed correctly. This issue has been resolved. | Modules |
| CORE-15986 | The issue with loading the CorporateContent packages on a server has been resolved. | Corporate Content |
| CORE-15989 | With the current release, the Java versions have been updated.<br><br>Further information can be found in chapter "SiteArchitect / ServerManager: Java version update". | Launcher |
| CORE-16011 | The Jakarta EE Migrator for web applications introduced with FirstSpirit 2023.9 will no longer be available with version 2024.9.<br><br>Further information can be found in chapter "Administration / Modules: Discontinuation: Automatic Jakarta EE Migrator for WebApps". | Modules, Server Administrator |

| ID | Description | Categories |
|---|---|---|
| CORE-16013 | The installation of the "FS INTEGRATION" web component from the "FirstSpirit Dynamic Database Access" module (`fs-integration.fsm`) in the ContentCreator or the preview web app led to an exception. | Server Administrator |
| CORE-16028 | FirstSpirit Content Experience Tools: Latest module versions<br><br>Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions". | FirstSpirit Content Experience Tools (CXT) |
| CORE-16029 | The use of websockets was temporarily disabled in FirstSpirit version 2024.2 because there were very rare cases of issues with their use. With the current version of FirstSpirit, websockets can be used again. | Server Administrator |
| CXT-3149 | A misbehavior in the data source management has been corrected when the current user did not have read permissions for a part of the data sources. | ContentCreator |
| CXT-3153<br>CORE-15984 | Updates to integrated third-party software<br><br>Further information can be found in chapter "System: Updates to integrated third-party software". | Integrated software |
| CXT-3156 | Rule violations in forms were not highlighted correctly. | ContentCreator |
| CXT-3170 | In the DOM editor, it was not possible to position the text cursor behind a link at the end of a line with a single mouse click. | ContentCreator |
| CXT-3173 | The `<CONTAINS>` condition in the rule definition is now also supported for `FS_CATALOG` in ContentCreator. | ContentCreator |
| CXT-3174 | The current preview language is now retained for the preview of datasets within the data source management. | ContentCreator |
| CXT-3175 | Under certain circumstances, `CMS_INPUT_DATE` input components could display an incorrect value in the form where the date was off by one month. | ContentCreator |
| CXT-3176 | In the snippet view within the data source management, remote media thumbnails were not displayed. | ContentCreator |

| ID | Description | Categories |
|---|---|---|
| CXT-3186 | When creating datasets, there could be cases where `CMS_INPUT_DATE` input components would result in a incorrectly stored timestamp. | ContentCreator |
| DEVEX-632 | With the FSDevTools release 4.7.1, it is possible to execute Beanshell scripts in the FirstSpirit context. Further information can be found in chapter "External Synchronization: FSDevTools: Execute Beanshell scripts". | FSDevTools |

# 9 Categories

## 9.1 AWS S3 Deployment

| ID | Description |
|---|---|
| CORE-15955 | The "AWS S3 Deployment" module now sets the correct MIME type for `.webp` and `.webm` files. |

## 9.2 ContentCreator

| ID | Description |
|---|---|
| CXT-3149 | A misbehavior in the data source management has been corrected when the current user did not have read permissions for a part of the data sources. |
| CXT-3156 | Rule violations in forms were not highlighted correctly. |
| CXT-3170 | In the DOM editor, it was not possible to position the text cursor behind a link at the end of a line with a single mouse click. |
| CXT-3173 | The `<CONTAINS>` condition in the rule definition is now also supported for `FS_CATALOG` in ContentCreator. |
| CXT-3174 | The current preview language is now retained for the preview of datasets within the data source management. |
| CXT-3175 | Under certain circumstances, `CMS_INPUT_DATE` input components could display an incorrect value in the form where the date was off by one month. |

| ID | Description |
|---|---|
| CXT-3176 | In the snippet view within the data source management, remote media thumbnails were not displayed. |
| CXT-3186 | When creating datasets, there could be cases where `CMS_INPUT_DATE` input components would result in a incorrectly stored timestamp. |

## 9.3    Corporate Content

| ID | Description |
|---|---|
| CORE-15986 | The issue with loading the CorporateContent packages on a server has been resolved. |

## 9.4    Dynamic Forms

| ID | Description |
|---|---|
| CORE-15734 | When editing rules in SiteArchitect, additional checks are now performed when saving, such as checking for missing editor elements. Previously, such errors only became visible during rule evaluation. |

## 9.5    Developer

| ID | Description |
|---|---|
| CORE-15907 | When outputting pages using the JSON function, the order of the content areas within the page is now correctly taken into account. |

## 9.6    FirstSpirit Content Experience Tools (CXT)

| ID | Description |
|---|---|
| CORE-16028 | FirstSpirit Content Experience Tools: Latest module versions |

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

## 9.7    FSDevTools

| ID | Description |
|---|---|
| DEVEX-632 | With the FSDevTools release 4.7.1, it is possible to execute Beanshell scripts in the FirstSpirit context.<br><br>Further information can be found in chapter "External Synchronization: FSDevTools: Execute Beanshell scripts". |

## 9.8    Integrated software

| ID | Description |
|---|---|
| CXT-3153<br>CORE-15984 | Updates to integrated third-party software<br><br>Further information can be found in chapter "System: Updates to integrated third-party software". |

## 9.9    Launcher

| ID | Description |
|---|---|
| CORE-15989 | With the current release, the Java versions have been updated.<br><br>Further information can be found in chapter "SiteArchitect / ServerManager: Java version update". |

## 9.10   Modules

| ID | Description |
|---|---|
| CORE-15980 | External images that were embedded in an output channel using Apache FOP and accessed through HTTP(S) were not displayed correctly. This issue has been resolved. |
| CORE-16011 | The Jakarta EE Migrator for web applications introduced with FirstSpirit 2023.9 will no longer be available with version 2024.9.<br><br>Further information can be found in chapter "Administration / Modules: Discontinuation: Automatic Jakarta EE Migrator for WebApps". |

## 9.11   Server Administrator

| ID | Description |
|---|---|
| CORE-15830 | The `Log4j` version has been updated from 2.19.0 to 2.22.1. Please note the deprecation of the logging configuration in `Log4j1` format.<br><br>Further information can be found in chapter "Administration: Discontinuation of the logging configuration in Log4j1 format". |
| CORE-15852 | During the configuration of a SAML Identity Provider, the setting "Single Group/Role Attribute" is no longer required for the use of the SAML login module. |
| CORE-15977 | A modified configuration of a web app component in the ServerManager now automatically activates the "Update" button, allowing for the web app to be reinstalled. |
| CORE-16011 | The Jakarta EE Migrator for web applications introduced with FirstSpirit 2023.9 will no longer be available with version 2024.9.<br><br>Further information can be found in chapter "Administration / Modules: Discontinuation: Automatic Jakarta EE Migrator for WebApps". |
| CORE-16013 | The installation of the "FS INTEGRATION" web component from the "FirstSpirit Dynamic Database Access" module (`fs-integration.fsm`) in the ContentCreator or the preview web app led to an exception. |
| CORE-16029 | The use of websockets was temporarily disabled in FirstSpirit version 2024.2 because there were very rare cases of issues with their use. With the current version of FirstSpirit, websockets can be used again. |

## 9.12   SiteArchitect

| ID | Description |
|---|---|
| CORE-9816 | When defining default values, a `CMS_COMMENT` form component was shown as an error if it was defined as a standalone `CMS_GROUP` tab. |
| CORE-15970 | A problem with displaying outdated URLs of a page reference after an update has been fixed. |

## 9.13   Template Development

| ID | Description |
|---|---|
| CORE-9816 | When defining default values, a `CMS_COMMENT` form component was shown as an error if it was defined as a standalone `CMS_GROUP` tab. |
| CORE-15734 | When editing rules in SiteArchitect, additional checks are now performed when saving, such as checking for missing editor elements. Previously, such errors only became visible during rule evaluation. |