



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2023.3

Status	RELEASED
Department	FS-Core
Copyright	2023 Crownpeak Technology GmbH

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1 Administration

1.1 Update of internally used software

As of the release 2023.3, the following internally used software has been updated.

- **Java Service Wrapper** (configuration and monitoring of FirstSpirit Java VM, 3.5.46 --> 3.5.50)
Note: When the FirstSpirit server is updated (auto-update, in-place upgrade), the Java Service Wrapper files are not automatically updated. The Java Service Wrapper can be updated via the tar gzip update archive (file fs-update-[version].tar.gz) as described in the FirstSpirit installation instructions.
Additional documentation:
 - on [Java Service Wrapper \(manual for administrators\)](#)
 - on [Updating the Java Service Wrapper \(installation instructions\)](#)
- **Log4j** (2.17.2 --> 2.19.0)
- **Google Web Toolkit** (“GWT”, used for the ContentCreator, 2.9.0 --> 2.10.0)
- **Gson** (2.8.0 --> 2.10)
- **metadata-extractor** (2.11.0 --> 2.18.0)
- **Apache POI** (3.7 --> 5.2.2)
- **commons-codec** (1.11 --> 1.15)
- **commons-collections** (4.1 --> 4.4)
- **commons-math** (3.6.1, new)
- **xmlbeans** (2.5.0 --> 5.0.3)
- **dom4j** (1.6.1 --> no longer used)





Modules that still use Legacy Mode and the library accessible (in this mode) via FirstSpirit may need to be adapted accordingly.

Note: Since “Legacy Mode” is no longer supported, affected modules should be switched to “Isolated Mode” if possible (see [Module development](#)).

1.2 FirstSpirit on Apple M1 or Linux AArch64

If FirstSpirit is installed locally on a device with an Apple M1 or Linux AArch64 processor, it is now possible to use a Java version designed specifically for this architecture.

Note: For productive FirstSpirit servers, you still can only use a Linux or Windows operating system (see *Technical requirements and recommendations* (→*Documentation for Administrators*)).

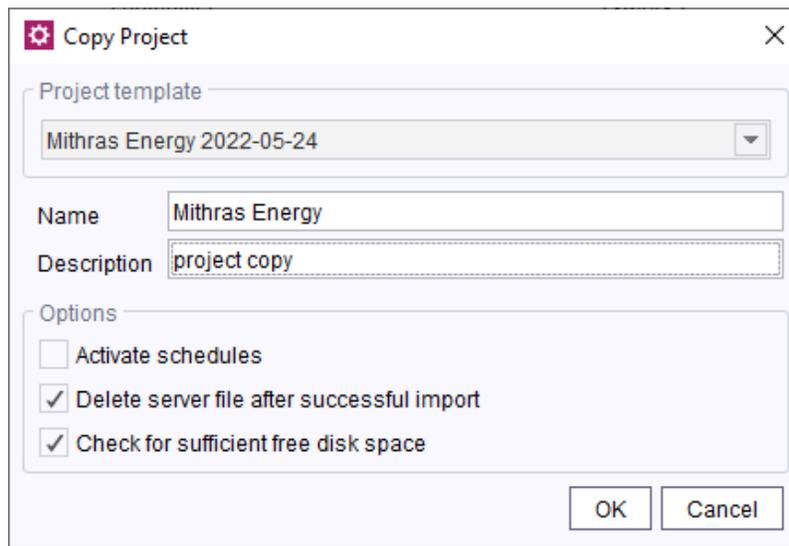
1.3 Create project per copy

Using this function, projects located on the server can be copied directly without using the “Export” and “Import” functions separately.

This function is only available to server administrators.

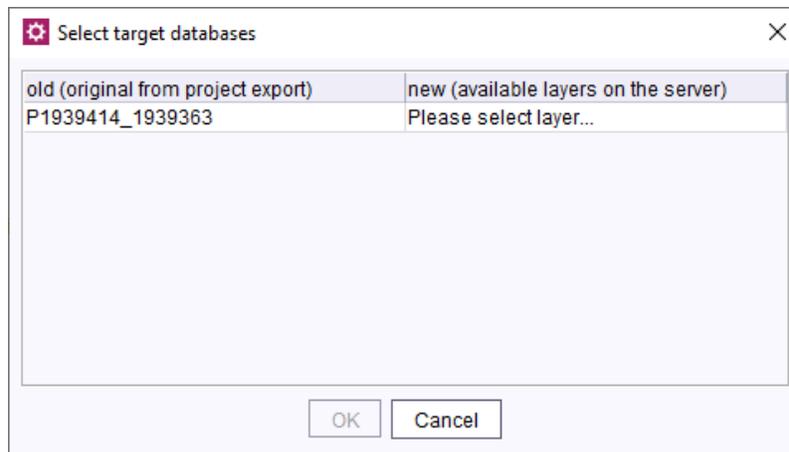
In the **Project template** field, the desired project that should be copied can be selected. The options can be freely defined (similar to import).





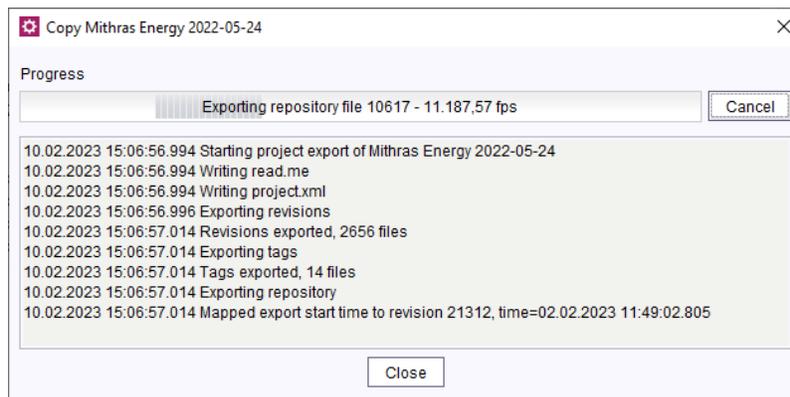
Project copy

If database contents are used within the project to be copied, these contents must be mapped to a new database layer. A new database layer or one that already exists on the server must be assigned to each individual schema of the project.



Closing the progress window and the ServerManager have no effect on the process.





For more information, see *FirstSpirit Manual for Administrators*, chapter “Project”.

1.4 Disk space check during project export

In the course of a project export, the remaining disk space is continuously being checked.

If the remaining disk space reaches the set warning limit, the export is aborted and the incomplete export file is deleted. More information on [setting warning and shutdown limits](#) (*FirstSpirit ServerManager / Server properties / Global server properties* (→*Documentation for Administrators*)).

2 FirstSpirit Content Experience Tools (CXT)

2.1 Latest module versions

FirstSpirit 2023.3 supports the following module versions for “FirstSpirit Content Experience Tools”.

Module / file name	Version number
FirstSpirit CXT Plattform	3.0.3
platform-[version].fsm	
FirstSpirit CXT DAP Bridge	1.44.10
dataservice-[version].fsm	
FirstSpirit CXT FragmentCreator	4.0.3
fragment-creator-[version].fsm	
FirstSpirit Fragment DAP	1.40.16
fragmentdap-[version].fsm	
FirstSpirit Media DAP	1.31.9*



mediadap-[version].fsm	
FirstSpirit PageRef DAP	1.9.9
pagerefdap-[version].fsm	
FirstSpirit Markdown Editor	1.29.8*
markdown-editor-[version].fsm	
FirstSpirit Tagging Editor	1.29.8
tagging-editor-[version].fsm	
FirstSpirit CXT FragmentCreator - CaaS	1.31.9
Integration	
caas-integration-[version].fsm	

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

2.2 Extension of the MicroApp JavaScript API

When opening MicroApp modal windows via the MicroApp JavaScript API of the CXT platform, it is possible to set the `z-index` of the modal window (interface `CxtMicroAppConfig`, optional field `frameZIndex`).

3 Media

3.1 Enhanced SVG processing

The processing of SVG files that have been wrongly configured has been improved. In many cases, the files can be uploaded and used despite an unsupported configuration.

Note: In case of problems with an image file, the reasons will be listed in the log file. Wrong configurations can cause displaying problems of thumbnails inside FirstSpirit.

4 Module Development, Scripts, API

4.1 Recursion identification in JSON output via inline JSON function

! With FirstSpirit version 2023.4, enhancements were made to the identification of recursions in JSON output via the inline JSON function which lead to a change in behavior.



The JSON function can be called up multiple times recursively during the rendering process. When paragraphs and data records were called up recursively, this could lead either to missing output or to a FirstSpirit server's `OutOfMemoryException` – depending on the FirstSpirit server's configuration.

The identification of recursions during a JSON function's call up has been improved. If a reference is detected, the reference to the paragraph or data record is output as a placeholder and the recursion is cancelled for that place.

! The behavior for direct rendering of data records via `RenderingAgent` will change with the FirstSpirit version 2023.4.

- So far, the data record was output despite the `dataRenderDepth=0` parameter.
- After the change, only the reference to the data record will be output for the place.

If `dataRenderDepth=1` (default value) is specified, the behavior remains unchanged. The data record is output, connected data records are output as references.

For more information, see *Enhanced JSON support / Configuration* (→*FirstSpirit Online Documentation*), chapter “Configuration”.

5 SiteArchitect / ServerManager

5.1 Cleaning up <FirstSpiritROOT>/data/schedule

When a schedule entry is deleted, the directory `<FirstSpiritROOT>/data/schedule` is being cleaned up, as well.

Note: Old data in this directory can be deleted following the path: `ServerManager > Server > Clean-up`

6 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.MaintenanceModelInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModelInfo)	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	
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	



7 Overview

ID	Description	Categories
CORE-7708	Use <code>Ctrl</code> + <code>LEFT MOUSE CLICK</code> to be taken to the script which is directly referenced within a <code>CMS_RENDER</code> call.	Template Development
CORE-12153	Cleaning up of <code><FirstSpiritROOT>/data/schedule</code> when a schedule entry is deleted. Further information can be found in chapter “SiteArchitect / ServerManager: Cleaning up <code><FirstSpiritROOT>/data/schedule</code> ”.	Server Administrator, ServerManager
CORE-14494	A unique identifier (UUID) can now be set as a constant for <code>contentSelect</code> functions.	Template Development
CORE-14704	Using an <code>FS_BUTTON</code> to fill a <code>FS_CATALOG</code> input component is now also possible within another <code>FS_CATALOG</code> input component.	ContentCreator, Input Components
CORE-14812	As of the current FirstSpirit version, projects located on the server can be copied directly without using the “Export” and “Import” functions separately. Further information can be found in chapter “Administration: Create project per copy”.	Server Administrator
CORE-14914	Recursion identification enhancements in the JSON output via the inline JSON function (FirstSpirit 2023.4) Further information can be found in chapter “Module Development, Scripts, API: Recursion identification in JSON output via inline JSON function”.	Support for JSON
CORE-14955	Project export: checking of remaining disk space to prevent server shutdown Further information can be found in chapter “Administration: Disk space check during project export”.	Server Administrator
CORE-14959	If modules were implemented incorrectly, this could lead to reports not being displayed in the SiteArchitect if they were created in other modules. The problem has been resolved.	Reports, SiteArchitect



ID	Description	Categories
CORE-15003	Update of internally used software	Integrated software
CORE-14945	Further information can be found in chapter “Administration: Update of internally used software”.	
CORE-15029		
CORE-15090		
CXT-2759		
CORE-15028	When a CloudFront invalidation was used with the AWS S3 deployment module, this could lead to the invalidation being executed incorrectly. The problem has been resolved.	AWS S3 Deployment
CORE-15031	Operating a local FirstSpirit server on Apple M1 or Linux AArch64 with Java version designed directly for this architecture. Further information can be found in chapter “Administration: FirstSpirit on Apple M1 or Linux AArch64”.	Web server
CORE-15042	Processing enhancement for wrongly configured SVG image files Further information can be found in chapter “Media: Enhanced SVG processing”.	Media Store
CORE-15104	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-15106	For rules, the presence of properties (e.g. <PROPERTY name="GID" source="#global"/>) can now be checked within NULL and NOT_NULL conditions.	Dynamic Forms
CORE-15110	Schedule entries that do not react to a termination within 15 minutes no longer cause the server to receive the “degraded” status. In these cases, a FATAL message is logged in the <code>fs-server.log</code> and in the server's Incident log (<code>SCHEDULE_CANCEL_TIMEOUT</code>).	Server Administrator
CORE-15121	In very rare cases, a continuous increase in unauthenticated socket connections and proportionally high memory usage on the FirstSpirit server could occur.	Server Administrator



ID	Description	Categories
CORE-15136	Log4j classes are not stored any longer in the classpath of web apps. If you need to access Log4j classes, integrate the automatically provided web component “Log4j Libraries” in the web app.	Logging, Server Administrator
CXT-2756	Changes to media elements were not properly taken into account by a media folder's filter settings.	ContentCreator
CXT-2769	The availability of MicroApps can be configured via the management page. With the current version it is now possible to exit the management page with the help of the “Quit” button. The user is then redirected to the FirstSpirit start page.	FirstSpirit Content Experience Tools (CXT)
CXT-2775	Folders in the filter settings of the search dialog were unsorted.	ContentCreator
CXT-2785	In ContentCreator, the selected media view for the media management is now being saved. the settings refer to the current server and is stored in the browser cache.	ContentCreator, Media Store
CXT-2799	In ContentCreator, bookmarks to data records were not displayed if no preview page was configured for their data source. The problem has been resolved: the referenced data record can be called-up directly in the data source management using the bookmark.	Content Store, ContentCreator
CXT-2812	The <code>OpenElementDataFormOperation</code> (FirstSpirit developer API, <code>de.espirit.firstspirit.ui.operations</code> package) optionally allows to define an initial persistence language (<code>setLanguage</code>). Without this information, an error occurred. The problem has been resolved: the master language is being used.	ContentCreator, FirstSpirit API
CXT-2814	<p>When opening MicroApp modal windows via the MicroApp JavaScript API of the CXT platform it is now possible to set the <code>z-index</code> of the modal window.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Extension of the MicroApp JavaScript API”.</p>	Developer, FirstSpirit Content Experience Tools (CXT), Module development



8 Categories

8.1 AWS S3 Deployment

ID	Description
CORE-15028	When a CloudFront invalidation was used with the AWS S3 deployment module, this could lead to the invalidation being executed incorrectly. The problem has been resolved.

8.2 ContentCreator

ID	Description
CORE-14704	Using an FS_BUTTON to fill a FS_CATALOG input component is now also possible within another FS_CATALOG input component.
CXT-2756	Changes to media elements were not properly taken into account by a media folder's filter settings.
CXT-2775	Folders in the filter settings of the search dialog were unsorted.
CXT-2785	In ContentCreator, the selected media view for the media management is now being saved. the settings refer to the current server and is stored in the browser cache.
CXT-2799	In ContentCreator, bookmarks to data records were not displayed if no preview page was configured for their data source. The problem has been resolved: the referenced data record can be called-up directly in the data source management using the bookmark.
CXT-2812	The <code>OpenElementDataFormOperation</code> (FirstSpirit developer API, <code>de.espirit.firstspirit.ui.operations</code> package) optionally allows to define an initial persistence language (<code>setLanguage</code>). Without this information, an error occurred. The problem has been resolved: the master language is being used.

8.3 Content Store

ID	Description
CXT-2799	In ContentCreator, bookmarks to data records were not displayed if no preview page was configured for their data source. The problem has been resolved: the referenced data record can be called-up directly in the data source management using the bookmark.



8.4 Dynamic Forms

ID	Description
CORE-15106	For rules, the presence of properties (e.g. <PROPERTY name="GID" source="#global"/>) can now be checked within NULL and NOT_NULL conditions.

8.5 Input Components

ID	Description
CORE-14704	Using an FS_BUTTON to fill a FS_CATALOG input component is now also possible within another FS_CATALOG input component.

8.6 Developer

ID	Description
CXT-2814	<p>When opening MicroApp modal windows via the MicroApp JavaScript API of the CXT platform it is now possible to set the z-index of the modal window.</p> <p>Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Extension of the MicroApp JavaScript API".</p>

8.7 FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-15104	<p>FirstSpirit Content Experience Tools: Latest module versions</p> <p>Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".</p>
CXT-2769	The availability of MicroApps can be configured via the management page. With the current version it is now possible to exit the management page with the help of the "Quit" button. The user is then redirected to the FirstSpirit start page.



ID	Description
CXT-2814	<p>When opening MicroApp modal windows via the MicroApp JavaScript API of the CXT platform it is now possible to set the <code>z-index</code> of the modal window.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Extension of the MicroApp JavaScript API”.</p>

8.8 FirstSpirit API

ID	Description
CXT-2812	<p>The <code>OpenElementDataFormOperation</code> (FirstSpirit developer API, <code>de.espirit.firstspirit.ui.operations</code> package) optionally allows to define an initial persistence language (<code>setLanguage</code>). Without this information, an error occurred. The problem has been resolved: the master language is being used.</p>

8.9 Integrated software

ID	Description
CORE-15003	Update of internally used software
CORE-14945	Further information can be found in chapter “Administration: Update of internally used software”.
CORE-15029	
CORE-15090	
CXT-2759	

8.10 Support for JSON

ID	Description
CORE-14914	<p>Recursion identification enhancements in the JSON output via the inline JSON function (FirstSpirit 2023.4)</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Recursion identification in JSON output via inline JSON function”.</p>



8.11 Logging

ID	Description
CORE-15136	Log4j classes are not stored any longer in the classpath of web apps. If you need to access Log4j classes, integrate the automatically provided web component “Log4j Libraries” in the web app.

8.12 Media Store

ID	Description
CORE-15042	Processing enhancement for wrongly configured SVG image files Further information can be found in chapter “Media: Enhanced SVG processing”.
CXT-2785	In ContentCreator, the selected media view for the media management is now being saved. the settings refer to the current server and is stored in the browser cache.

8.13 Module development

ID	Description
CXT-2814	When opening MicroApp modal windows via the MicroApp JavaScript API of the CXT platform it is now possible to set the <code>z-index</code> of the modal window. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Extension of the MicroApp JavaScript API”.

8.14 Reports

ID	Description
CORE-14959	If modules were implemented incorrectly, this could lead to reports not being displayed in the SiteArchitect if they were created in other modules. The problem has been resolved.



8.15 Server Administrator

ID	Description
CORE-12153	<p>Cleaning up of <FirstSpiritROOT>/data/schedule when a schedule entry is deleted.</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: Cleaning up <FirstSpiritROOT>/data/schedule”.</p>
CORE-14812	<p>As of the current FirstSpirit version, projects located on the server can be copied directly without using the “Export” and “Import” functions separately.</p> <p>Further information can be found in chapter “Administration: Create project per copy”.</p>
CORE-14955	<p>Project export: checking of remaining disk space to prevent server shutdown</p> <p>Further information can be found in chapter “Administration: Disk space check during project export”.</p>
CORE-15110	<p>Schedule entries that do not react to a termination within 15 minutes no longer cause the server to receive the “degraded” status. In these cases, a FATAL message is logged in the <code>fs-server.log</code> and in the server's Incident log (<code>SCHEDULE_CANCEL_TIMEOUT</code>).</p>
CORE-15121	<p>In very rare cases, a continuous increase in unauthenticated socket connections and proportionally high memory usage on the FirstSpirit server could occur.</p>
CORE-15136	<p>Log4j classes are not stored any longer in the classpath of web apps. If you need to access Log4j classes, integrate the automatically provided web component “Log4j Libraries” in the web app.</p>

8.16 ServerManager

ID	Description
CORE-12153	<p>Cleaning up of <FirstSpiritROOT>/data/schedule when a schedule entry is deleted.</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: Cleaning up <FirstSpiritROOT>/data/schedule”.</p>



8.17 SiteArchitect

ID	Description
CORE-14959	If modules were implemented incorrectly, this could lead to reports not being displayed in the SiteArchitect if they were created in other modules. The problem has been resolved.

8.18 Template Development

ID	Description
CORE-7708	Use <code>Ctrl</code> + <code>LEFT MOUSE CLICK</code> to be taken to the script which is directly referenced within a <code>CMS_RENDER</code> call.
CORE-14494	A unique identifier (UUID) can now be set as a constant for <code>contentSelect</code> functions.

8.19 Web server

ID	Description
CORE-15031	Operating a local FirstSpirit server on Apple M1 or Linux AArch64 with Java version designed directly for this architecture. Further information can be found in chapter “Administration: FirstSpirit on Apple M1 or Linux AArch64”.

