



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2023.11

Status	RELEASED
Department	FS-Core
Copyright	2023 Crownpeak Technology GmbH

Crownpeak Technology GmbH

Stockholmer Allee 24
44269 Dortmund | Germany

T +49 231 . 477 77-0
F +49 231 . 477 77-499

info-dach@crowpeak.com
www.e-Spirit.com

crowpeak^k

Table of contents

1	Administration.....	4
1.1	Update of internally used software.....	4
1.2	Critical security vulnerability: "Heap Buffer Overflow" in WebP - JxBrowser update.....	4
2	External Synchronization / Content Transport.....	5
2.1	Content Transport: Feature Model Transport.....	5
3	FirstSpirit Content Experience Tools (CXT).....	6
3.1	Latest module versions.....	6
4	Module Development, Scripts, API.....	6
4.1	Switchover of the FirstSpirit byte code level from Java 11 to Java 17.....	6
5	Deprecations.....	7
6	Overview.....	9
7	Categories.....	11
7.1	Archiving.....	11
7.2	Content Transport.....	11
7.3	ContentCreator.....	12
7.4	Input Components.....	12
7.5	FirstSpirit Content Experience Tools (CXT).....	12
7.6	FirstSpirit Administrator.....	13



7.7	FirstSpirit API.....	13
7.8	FSDevTools.....	13
7.9	Generation.....	13
7.10	Integrated software.....	13
7.11	Java.....	14
7.12	Module development.....	14
7.13	Modules.....	14
7.14	Server Administrator.....	14
7.15	ServerManager.....	15
7.16	Security.....	15
7.17	SiteArchitect.....	16
7.18	Preview.....	16



1 Administration

1.1 Update of internally used software

As of the release 2023.11, the following internally used software has been updated.

- **Eclipse Jetty** (contained in the module `fs-jetty.fsm` / “FirstSpirit Jetty Service”) Update to **version 12.0.1**
As before, use of Eclipse Jetty for production purposes is not recommended!
- **JxBrowser** (Chrome browser engine for displaying the integrated preview in FirstSpirit SiteArchitect)
Update to version 7.35.1 (Chromium 117.0.5938.62) --> Security update due to [CVE-2023-4863](#)

1.2 Critical security vulnerability: "Heap Buffer Overflow" in WebP - JxBrowser update

Due to [CVE-2023-4863](#), the bundled JxBrowser has been updated to the version 7.35.1 (Chromium 117.0.5938.62). The JxBrowser is used for the integrated preview in the SiteArchitect.

A “heap buffer overflow” in WebP allowed a remote attacker to perform an out-of-bounds memory-write, and thus possibly inject malicious code. A manipulated WebP image can therefore lead to code injection.



FirstSpirit versions since 2019.11 are affected.

How can the vulnerability be exploited?

- An editor adds a manipulated WebP image to a project.

What do you have to do?

- (Server) Update to 5.2.230817 (Non-Jakarta) or 5.2.231106 (Jakarta)
- (Client) Update the local browsers



Mitigation without FS Update

- (Server) Prevent uploading of WebP (set appropriate restrictions in the project) or
- (Server) Configure WebP as media type `file`
- (Client) Disable the **integrated preview** in SA (JxBrowser)
- (Client) Update the local browsers

2 External Synchronization / Content Transport

2.1 Content Transport: Feature Model Transport

The current release supports the transport of the feature model.

A feature model contains information about which FirstSpirit store nodes and entities belong to the content of the feature package. This information is stored in the `feature.xml` file, which is contained in the ZIP feature file.

The feature model can now also be installed in the target project.

- per FirstSpirit API: Method `installFeature` from the interface `FeatureInstallAgent`
- per “fs-cli” (FSDevTools from version 4.5.0): Command `feature install` with parameter `--include-feature-model`

It should be mentioned that the feature model can be installed exactly when all FirstSpirit store nodes from `feature.xml` can be found in the target project after the feature has been installed. If at least one object from `feature.xml` cannot be found, the feature model installation will fail with an exception.



The Content2 source has to be transported explicitly when transporting data sets.



3 FirstSpirit Content Experience Tools (CXT)

3.1 Latest module versions

FirstSpirit 2023.11 supports the following module versions for FirstSpirit Content Experience Tools.

Module / file name	Version number
FirstSpirit CXT Plattform platform-[version].fsm	5.0.2
FirstSpirit CXT DAP Bridge dataservice-[version].fsm	1.44.15
FirstSpirit CXT FragmentCreator fragment-creator-[version].fsm	5.0.1
FirstSpirit Fragment DAP fragmentdap-[version].fsm	1.40.23
FirstSpirit Media DAP mediadap-[version].fsm	1.31.14
FirstSpirit PageRef DAP pageref-[version].fsm	1.9.14
FirstSpirit Markdown Editor markdown-editor-[version].fsm	1.29.13
FirstSpirit Tagging Editor tagging-editor-[version].fsm	1.29.13
FirstSpirit CXT FragmentCreator - CaaS Integration caas-integration-[version].fsm	1.31.13

4 Module Development, Scripts, API

4.1 Switchover of the FirstSpirit byte code level from Java 11 to Java 17

The Java dependencies provided by Crownpeak, such as the `fs-isolated-runtime.jar`, now require at least Java 17 during the compile process.



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	



Functionality	Deprecated as of	Will be removed/ Was removed as of
FirstSpirit Developer API: remainingDurationOfCurrentStageInMillis (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModelInfo)	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	
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	



Functionality	Deprecated as of	Will be removed/ Was removed as of
Support for Log4j 1	2022-05	

6 Overview

ID	Description	Categories
CORE-5663	The time information for ongoing maintenance work is now output in the user's local time zone.	Server Administrator
CORE-14898	The installation of the “FS INTEGRATION” web component from the “FirstSpirit Dynamic Database Access” module (<code>fs-integration.fsm</code>) in the ContentCreator led to an exception.	ContentCreator, Modules, Server Administrator
CORE-14953	Switchover of the FirstSpirit byte code level from Java 11 to Java 17 Further information can be found in chapter “Module Development, Scripts, API: Switchover of the FirstSpirit byte code level from Java 11 to Java 17”.	Java, Module development
CORE-15332	Checks on deployed web applications, for example in the ServerManager, now result in less logging in the FirstSpirit server log.	Server Administrator
CORE-15376	When configuring archiving tasks, the option “Maintain version history completely (no archiving)” has been removed.	ServerManager
CORE-15475 DEVEX-622	The current release supports the transport of the feature model. Further information can be found in chapter “External Synchronization / Content Transport: Content Transport: Feature Model Transport”.	Content Transport, FSDevTools, FirstSpirit API
CORE-15523	Fixed rare cases during site generation where the fallback language was not correctly chosen for FS_CATALOG components.	Generation, Input Components
CORE-15589	A possible incorrect output of the user of a task in the audit logging has been fixed.	Server Administrator
CORE-15594	Fixed an error in archiving that could cause the initial repository revision to be archived.	Archiving, FirstSpirit Administrator



ID	Description	Categories
CORE-15626	Fixed a display problem in the schedule task edit dialog that could occur when adding or deleting actions.	Server Administrator, ServerManager
CORE-15630	Improved behaviour when network transfer is blocked or interrupted.	ContentCreator, ServerManager, SiteArchitect
CORE-15637	A problem with archiving was fixed that could lead to a large number of error messages in the archiving log (e.g. <code>Ambiguous store type for id XY</code>).	Archiving
CORE-15654	Updating the FirstSpirit web applications <code>fs5root</code> (start page) in the ServerManager now no longer causes it to have to be closed during the process. Instead, the connection is automatically reconnected in most cases.	Server Administrator, ServerManager
CORE-15672	Update of internally used software Further information can be found in chapter “Administration: Update of internally used software”.	Integrated software
CORE-15689	A vulnerability has been discovered in the WebP library <code>libwebp</code> (CVE-2023-4863). The vulnerability is classified as critical. Crownpeak therefore recommends a prompt update to a secured FirstSpirit version (current build of 2023.8 or 2023.11). Due to CVE-2023-4863, the JxBrowser used by FirstSpirit for the integrated preview in SiteArchitect has been updated to the version 7.35.1 (Chromium 117.0.5938.62). Further information can be found in chapter “Administration: Critical security vulnerability: “Heap Buffer Overflow” in WebP - JxBrowser update”.	Preview, Security, SiteArchitect
CORE-15700	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
CXT-2999	The display and use of default and fallback values in the ContentCreator has been improved. However, the existing restrictions are still valid (see <i>Template development / ContentCreator / Restrictions</i> (→ <i>FirstSpirit Online Documentation</i>)).	ContentCreator
CXT-2728		
CXT-3009	Within forms there were display problems for the FS_BUTTON input component.	ContentCreator
CXT-3027	In case of misconfiguration, it could happen that non-visible SEO URLs of the element were reset.	ContentCreator

7 Categories

7.1 Archiving

ID	Description
CORE-15594	Fixed an error in archiving that could cause the initial repository revision to be archived.
CORE-15637	A problem with archiving was fixed that could lead to a large number of error messages in the archiving log (e.g. <code>Ambiguous store type for id XY</code>).

7.2 Content Transport

ID	Description
CORE-15475	The current release supports the transport of the feature model. Further information can be found in chapter “External Synchronization / Content Transport: Content Transport: Feature Model Transport”.
DEVEX-622	



7.3 ContentCreator

ID	Description
CORE-14898	The installation of the “FS INTEGRATION” web component from the “FirstSpirit Dynamic Database Access” module (<code>fs-integration.fsm</code>) in the ContentCreator led to an exception.
CORE-15630	Improved behaviour when network transfer is blocked or interrupted.
CXT-2999 CXT-2728	The display and use of default and fallback values in the ContentCreator has been improved. However, the existing restrictions are still valid (see <i>Template development / ContentCreator / Restrictions</i> (→ <i>FirstSpirit Online Documentation</i>)).
CXT-3009	Within forms there were display problems for the FS_BUTTON input component.
CXT-3027	In case of misconfiguration, it could happen that non-visible SEO URLs of the element were reset.

7.4 Input Components

ID	Description
CORE-15523	Fixed rare cases during site generation where the fallback language was not correctly chosen for FS_CATALOG components.

7.5 FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-15700	<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>



7.6 FirstSpirit Administrator

ID	Description
CORE-15594	Fixed an error in archiving that could cause the initial repository revision to be archived.

7.7 FirstSpirit API

ID	Description
CORE-15475	The current release supports the transport of the feature model.
DEVEX-622	Further information can be found in chapter “External Synchronization / Content Transport: Content Transport: Feature Model Transport”.

7.8 FSDevTools

ID	Description
CORE-15475	The current release supports the transport of the feature model.
DEVEX-622	Further information can be found in chapter “External Synchronization / Content Transport: Content Transport: Feature Model Transport”.

7.9 Generation

ID	Description
CORE-15523	Fixed rare cases during site generation where the fallback language was not correctly chosen for FS_CATALOG components.

7.10 Integrated software

ID	Description
CORE-15672	Update of internally used software



ID	Description
	Further information can be found in chapter “Administration: Update of internally used software”.

7.11 Java

ID	Description
CORE-14953	Switchover of the FirstSpirit byte code level from Java 11 to Java 17
	Further information can be found in chapter “Module Development, Scripts, API: Switchover of the FirstSpirit byte code level from Java 11 to Java 17”.

7.12 Module development

ID	Description
CORE-14953	Switchover of the FirstSpirit byte code level from Java 11 to Java 17
	Further information can be found in chapter “Module Development, Scripts, API: Switchover of the FirstSpirit byte code level from Java 11 to Java 17”.

7.13 Modules

ID	Description
CORE-14898	The installation of the “FS INTEGRATION” web component from the “FirstSpirit Dynamic Database Access” module (<code>fs-integration.fsm</code>) in the ContentCreator led to an exception.

7.14 Server Administrator

ID	Description
CORE-5663	The time information for ongoing maintenance work is now output in the user's local time zone.
CORE-14898	The installation of the “FS INTEGRATION” web component from the “FirstSpirit Dynamic Database Access” module (<code>fs-integration.fsm</code>) in the ContentCreator led to an exception.



ID	Description
CORE-15332	Checks on deployed web applications, for example in the ServerManager, now result in less logging in the FirstSpirit server log.
CORE-15589	A possible incorrect output of the user of a task in the audit logging has been fixed.
CORE-15626	Fixed a display problem in the schedule task edit dialog that could occur when adding or deleting actions.
CORE-15654	Updating the FirstSpirit web applications <code>fs5root</code> (start page) in the ServerManager now no longer causes it to have to be closed during the process. Instead, the connection is automatically reconnected in most cases.

7.15 ServerManager

ID	Description
CORE-15376	When configuring archiving tasks, the option “Maintain version history completely (no archiving)” has been removed.
CORE-15626	Fixed a display problem in the schedule task edit dialog that could occur when adding or deleting actions.
CORE-15630	Improved behaviour when network transfer is blocked or interrupted.
CORE-15654	Updating the FirstSpirit web applications <code>fs5root</code> (start page) in the ServerManager now no longer causes it to have to be closed during the process. Instead, the connection is automatically reconnected in most cases.

7.16 Security

ID	Description
CORE-15689	A vulnerability has been discovered in the WebP library <code>libwebp</code> (CVE-2023-4863). The vulnerability is classified as critical. Crownpeak therefore recommends a prompt update to a secured FirstSpirit version (current build of 2023.8 or 2023.11). Due to CVE-2023-4863, the JxBrowser used by FirstSpirit for the integrated preview in SiteArchitect has been updated to the version 7.35.1 (Chromium 117.0.5938.62).



ID	Description
	Further information can be found in chapter “Administration: Critical security vulnerability: "Heap Buffer Overflow" in WebP - JxBrowser update”.

7.17 SiteArchitect

ID	Description
CORE-15630	Improved behaviour when network transfer is blocked or interrupted.
CORE-15689	<p>A vulnerability has been discovered in the WebP library libwebp (CVE-2023-4863). The vulnerability is classified as critical. Crownpeak therefore recommends a prompt update to a secured FirstSpirit version (current build of 2023.8 or 2023.11). Due to CVE-2023-4863, the JxBrowser used by FirstSpirit for the integrated preview in SiteArchitect has been updated to the version 7.35.1 (Chromium 117.0.5938.62).</p> <p>Further information can be found in chapter “Administration: Critical security vulnerability: "Heap Buffer Overflow" in WebP - JxBrowser update”.</p>

7.18 Preview

ID	Description
CORE-15689	<p>A vulnerability has been discovered in the WebP library libwebp (CVE-2023-4863). The vulnerability is classified as critical. Crownpeak therefore recommends a prompt update to a secured FirstSpirit version (current build of 2023.8 or 2023.11). Due to CVE-2023-4863, the JxBrowser used by FirstSpirit for the integrated preview in SiteArchitect has been updated to the version 7.35.1 (Chromium 117.0.5938.62).</p> <p>Further information can be found in chapter “Administration: Critical security vulnerability: "Heap Buffer Overflow" in WebP - JxBrowser update”.</p>

