

# First Spirit TM Unlock Your Content

# Release Notes FirstSpirit™ 2021-09

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## 1 Administration

## **1.1 Configuring ContentCreator logging**

In the context of refactoring and as part of a fundamental review of the technical basis, FirstSpirit ContentCreator has been using the "Spring Boot" open source framework for some time now. Its default logging framework is "Logback". Logback is faster than the "Log4j" framework and offers more configuration options.

Similar to the CXT platform and FragmentCreator, an optional file

~/config/cxt-cc.properties

is now supported in the class path.

Logging can be configured in this file.

ContentCreator logs to the console by default. To activate logging to a file as well, in the Properties file, set the

logging.file.name

parameter. The path and the name of a file to which logs are to be written must be defined in this parameter, e.g.,

logging.file.name=/home/tomcat/logs/firstspirit-cc.log

The default log level is INFO; this means that errors in the ERROR, WARN, and INFO will be recorded. The available properties Properties logging.file.name) (incl. are the corresponding The default spring boot properties. logging configuration be customized can further if required: https://docs.spring.io/spring-boot/docs/2.4.2/reference/html/appendix-applicationproperties.html#common-application-properties-core.

A log file is not generated by default.

If "Log4j" has previously been used for logging in ContentCreator, logging must now be configured in the way described here.

<u>Notice:</u> The configuration via ~/config/cxt-cc.properties is valid for all ContentCreator instances, both for the global ContentCreator and for any "project local" ContentCreator instances that might have been configured (= a web server is configured on the "ContentCreator" tab under "Project properties/Web components").

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## **1.2** Conversion rules: Upload now also in non-hexadecimal notation

In FirstSpirit, conversion rules are used to convert characters that are input.

To use a customer-specific conversion rule, a corresponding text file must first have been created. This file can then be uploaded to the server in the FirstSpirit ServerManager under "Server Properties / Conversion Rules" ("Add" button).

The character to be replaced in this case can now be entered directly using the keyboard, e.g.,

ä = "ae"

Previously, the hexadecimal unicode value had to be entered.

When using non-hexadecimal notation, an error message such as ERROR 03.08.2021 09:17:11.228 (de.espirit.firstspirit.admin.gui.ConversionTablePanel): Error creating conversion table ... de.espirit.firstspirit.access.AccessRuntimeException: Error parsing line 2... was displayed

For more information, see <a href="https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/server-eigensch/konvertierungs/index.html">https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/server-eigensch/konvertierungs/index.html</a>.

# 1.3 MBeans and ServerMonitoring: New information about the health state and the server's current load

With "ServerMonitoring" and the JMX console, FirstSpirit offers options to monitor and manage the FirstSpirit server during runtime, for example with regard to memory usage and load.

For the JMX console, all values and actions are provided by what are known as managed beans ("MBeans").

New MBeans information about the health state and the current load of the server is available with the current release:



HealthManager

- runlevel of the server
- last log message of level FATAL
- number of loggings of level FATAL per day
- last "Out of memory" log message
- number of open connections
- ...

ScheduleManager

- number of schedule entries currently running / by type
- number of schedule entries currently running
- ...

#### RepositoryManager

- number of repositories currently open
- number of write operations currently in progress in all repositories
- write operations per minute
- revisions generated per minute
- ...

#### MediaManager

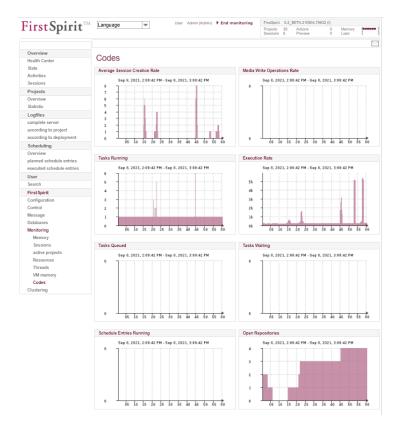
- number of media uploaded, scaled media, and preview calculation
- number of currently uploaded and scaled media plus preview calculations / by type
- actions with regard to upload, scaling, and preview calculation per minute



• …

Moreover, the history of some of theses values can now be downloaded as a file in CSV format via the JMX console (the last 14 days by default unless a different value is specified).

New statistical values have also been added to "ServerMonitoring" under "FirstSpirit / Monitoring / Codes":



Some of the values can now also be downloaded here as a CSV file or sent as an e-mail attachment. Icon:

 $\geq$ 

Data for schedule entries can also be downloaded/sent in ServerMonitoring under "Overview / Activities". By default, data is available for the last 21 days or since the last server restart.

For more information, see

MBeans: https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-jmx/index-2.html



 ServerMonitoring / Key data: https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/firstspirit/ monitoring/key-data/index.html

#### 1.4 New configuration file for server settings: "fs-server-aux.conf"

The fs-server.conf file enables the FirstSpirit server to be adapted to customer-specific requirements. The configuration is done via parameters that are described in the "Documentation for administrators".

As of the current release, there is another configuration option for the server: the

fs-server-aux.conf

configuration file.

This can be used to overwrite the configuration made by the fs-server.conf file.

Parameters for the server configuration are now evaluated in the following order (if used):

- 1. -D Java properties
- 2. environment variables of the operating system
- 3. fs-server-aux.conf
- 4. fs-server.conf
- 5. default values

The use of the fs-server-aux.conf file is intended for scenarios where the fs-server.conf file is generated automatically. Manual adjustments to this file are overwritten or removed by automatic updates. The fs-server-aux.conf file, in contrast, is not overwritten or modified.

The file can be created and edited in "FirstSpirit – Configuration – Server":

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<sup>r</sup> irstSpirit <sup>**</sup>	M Language v User Admin (Admin) Find monitoring	Projects 35 Action Sessions 5 Previe		Memory Load	D C
Overview	Ormun				
Health Center	Server				
State	fs-server.conf				
Activities			*		
Sessions	#FirstSpirit configuration info				
Projects	#last changed 08.09.2021 02:05:39, 5.2_BETA.210904 (don't	edit this line)			
Overview	****				
Statistic	# communication				
Logfiles					
complete server	HTTP_PORT=5270 SOCKET HOST=localhost				
according to project	SOCKET_PORT=5271				
according to deployment	internalDB.port=5272				
Scheduling	INTERNAL_SERVLET_ENGINE=0 WEBAPP_ROOT_TITLE=\${SYMBOLIC_HOSTNAME} (\${URL})				
Overview	SYMBOLIC_HOSTNAME=FirstSpirit 2021-06 (QS)				
planned schedule entries	URL=http://\${fs.url.hostname}:\${fs.url.httpport}\${WEBAPP_	ROOT_URL }			
executed schedule entries	<pre>fs.url.hostname=\${HOSTNAME}.e-spirit.de fs.url.httpport=5250</pre>				
User	allowedRedirectHosts=\${HOSTNAME},\${fs.url.hostname}				
	servletSessionCookieName=FS52R2QS_SESSION				
Search	bootstrap.isolated=true				
FirstSpirit	*****				
Configuration	<pre># ThreadPool limitation (2 #cores)</pre>				
Server	######################################				
Licence	<pre># minimum number of concurrent threads, if left empty the</pre>	value is set to #	#cores (=		
Logging	#				
System	<pre># ThreadPool.maxSize: # maximum number of concurrent threads, if left empty the</pre>	walue is set to i	(#conor *		
Start options	#	value is set to i	(#cores		
Web applications	# Thread Queues:				
Services	# - LOW Queue for resource-intensive tasks.		*		
Login configuration	•		► //		
Control	fo conver our conf			٦	
Message	fs-server-aux.conf			1	
Databases	#FirstSpirit auxiliary configuration properties				
Monitoring	#properties included in this file overwrite fs-server.com	of properties			
Clustering					
				1	
				1	
	Restart server			-	

The file is then located in the ~fs5\conf directory.

If the file exists and contains parameters, it is read out when the server is started. The following message can be found in the log file fs-server.log:

```
INFO 01.09.2021 12:18:23.348 (de.espirit.firstspirit.server.ServerManagerImpl):
Loaded auxiliary ini file '~/firstspirit/conf/fs-server-aux.conf'
```

<u>Note:</u> Not all parameters are suitable for use in the fs-server-aux.conf file (e.g. services). Documentation of unsuitable parameters will be provided with one of the upcoming releases.

## 1.5 Deleting a project including databases

When a project is deleted (via FirstSpirit ServerManager / Project / Delete) all databases managed by the project are now also deleted with it. As well as easily freeing up memory space that is no longer required, for example, this also makes managing databases and projects easier.

As a general rule, databases are only deleted if a schema exists for the database and none of the "Writeprotected" and "No schema sync" options are activated for the layer (in FirstSpirit ServerManager / Project Properties / Databases).

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If these databases should not be deleted, uncheck the "Delete project related databases" box:

Delete project(s)	×
Which projects should be deleted?	
Workflow_Test Mithras Energy Smart Living	
Delete project related databases (Attention: This is not reversible!)	

## 2 ContentCreator

## 2.1 Beta phase: Data source management in ContentCreator

The functionality of the "Datenquellen-Verwaltung" in FirstSpirit ContentCreator is still in **Beta phase**. It is recommended to test it in a development environment first. Potential problems should be reported to e-Spirit in a timely manner.

For more information please see Release Notes for FirstSpirit 2021-08 (https://docs.e-spirit.com/odfs/ releasenotes/2021-08/FirstSpirit\_Releasenotes\_EN.pdf).

## 2.2 Preferred display language

By default, labels for input elements and tooltips in forms are displayed in the language that is currently being edited.

In the FirstSpirit world, this language is also referred to as the "display language" (or: "editorial language". The project developer defines which label is used in which language.

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Edit con	
Main text	Picture Jumbo text Button
Kicker	
Headline	Format ♥ Styles ♥ ⊘ ∞ ∽ ~ UNSER »ANSATZ«
Text	— Format      ✓ B / ∞ ∽ ⊂  Unsere Philosophie ist es, sinnvoll die verschiedenen Teile unserer Umgebung miteinander zu vernetzen und eine reibungslose Kommunikation untereinander
	✓ Save X Close

Previously, the preview language or the client language (via the FirstSpirit start page) had to be changed in order to change the display language. Changing the language in the form only affected the language used for content.

With the current release, the language to be used as the display language can be configured:



		:	
P Change project			
🗘 Help			
Open Documentation		?	
Start Guided Tour		?	
Enable all hints			
aA Scaling		?	
Small font size			
✓ Normal font size			
Large font size			
ଚ Language			
Preferred display language	s (hr)	>	Always use in fo
			<ul> <li>Automatic</li> </ul>
			English
			German
			French
			Spanish

(menu "Further functions" / "Preferred display language")

In this menu all languages defined as "Editorial languages" in the ServerManager are offered for selection.

Language selection:

- Either a preferred display language can be selected, in which content is displayed, or
- Automatic: The display language is determined, as before, on the basis of the language selected on the FirstSpirit start page.

This language selection generally affects the content of the Media management (as well as the Data source management that has not yet been released).

If the language is changed (incl. "Automatic"), a dialog is displayed with corresponding information. The "Reload browser" button triggers the reload of the browser content.

**Always use in forms:** By activating this option the display language selected in this submenu will also be used for the labeling in forms.

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In the navigation bar and the reports, the language is still based on the selected preview language.

The "preferred display language" settings made in the submenu are saved for the entire project.

For more information, see:

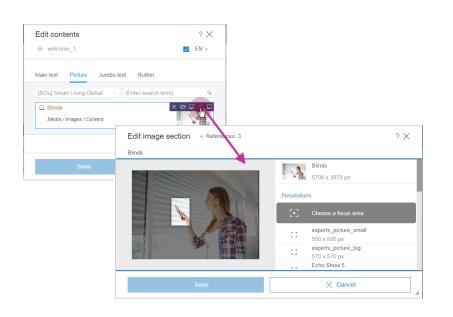
- Languages in ContentCreator: https://docs.e-spirit.com/contentcreator/introduction/usemultiple-la/index.html
- "Further functions" menu: https://docs.e-spirit.com/contentcreator/menu-functions/furtherfunctio/index.html

#### 2.3 Image cropping directly in FS\_REFERENCE

The FS\_REFERENCE input element is used to record any reference. It can be used to display references to other pages or images on the website, for example.

With the current release, users can now conveniently crop the image they are using directly from within an FS\_REFERENCE input element in FirstSpirit ContentCreator. Users now no longer have to switch to the Media management first.

The corresponding icon is then only displayed once an image has been selected.



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The function is, of course, only available for images, not for other object types.

## 2.4 Navigation bar: New functions

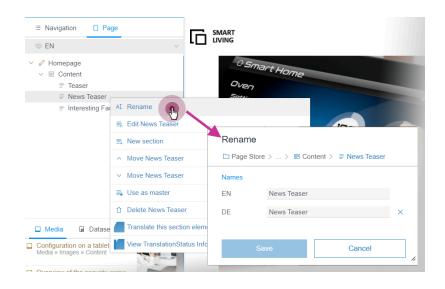
The navigation bar, which can be opened on the left-hand side of the screen, maps the hierarchical structure of the site ("Navigation" tab) or the page currently selected ("Page" tab) in a clear tree structure. The latest release features new functions:

#### **Rename sections**

The "Rename" menu item for sections ("Page" tab) can now be used to change the (display) name of a section.

Notice: To rename a **Page**, use the "Rename" function on the "Navigation" tab.



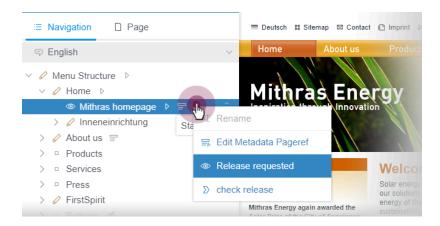


#### **Executing workflows on elements**

If an element is set to the "released" state, changes recently made to an object usually only become visible the next time the page is deployed. If a page has not been released, the most recent changes are not visible even when it is deployed.

A workflow is required to release elements. Previously, workflows could be started and advanced in the report area or by changing the status of the element.

Now, workflows are also available on elements of the tree structure in the navigation bar, on the "Navigation" tab:



The available workflows or workflow steps are displayed in the submenu underneath the state of the element. Click a workflow or a workflow step to select it.

The error message



The object is marked as "read only" in the workflow.

indicates that a higher-level element is currently write-protected in a workflow. The element can then only be advanced in the workflow if the higher-level element is advanced.

<u>Notice:</u> The workflow state and the available workflows for an element sometimes depend on the selected "Element Status Provider". If the "Page based" provider is selected, the corresponding page from the page store will be visualized in the workflow dialog, for example.

## 3 External Synchronization / Content Transport

# 3.1 Transport of database schemata and content between projects with different language quantities

The FirstSpirit "External Synchronization" and FirstSpirit "Content Transport" functionalities can be used to export project content and properties of a FirstSpirit project (source project) and import them in other FirstSpirit projects (target projects).

The behavior particularly during the transport of database content with different language quantities in target and source project has now been improved:

#### During the transport of database schemata

when importing languages that only exist in the target project, the corresponding language-dependent columns are now assigned in the table templates accordingly ("Mapping") and created in the schema. Language-dependent columns included in the export from languages that do not exist in the target project, are also created in the schema and will not be modified there.

The structure and content of **external databases** cannot be changed: Therefore, mapping does not occur in the case of external databases.

<u>Important:</u> If necessary, potentially existing project solutions that imitate the functionality of this feature must be adapted or removed. Otherwise, unexpected behavior may occur (e.g., loss of data or failed scripts).

The functionality utilizes the FirstSpirit Name Schema as the basis for language-dependent columns (which means "Column\_EN", "Column\_DE", "Column\_FR", etc.). In the case of projects that do not use this schema, this can potentially lead to unexpected behavior.

#### During the transport of datasets

language-dependent content that has been maintained in the target project in languages, but does not exist in the source project, will now remain unchanged.

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In contrast, content of languages that exist in the source project and the target project is always overwritten with the content from the source project.

<u>Important</u>: This applies to input components that are **language-dependent** and mapped to separate columns.

In the case of **language-independent** input components for which language-dependent forms have been configured, the content of the source project is applied. In this case, content that is maintained in languages that only exist in the target project will continue to be lost during transport.

This is especially the case with the FS\_CATALOG input component: in case of configuration with uselanguages="no" and <TEMPLATES type="section">, language-dependent content in the input components of the internal sections is updated with the data from the source project during transport.

#### Activation

In order to use the functionality, it must first be activated. This is done in the FirstSpirit ServerManager under "Project properties – Compatibility":

🔯 Edit Project, Smart Livir	ng Global (id=334560)	×
Project	Compatibility	
Options	These settings affect the behavior of FirstSpirit. Changing a compatibility setting may cause data loss. Please	
Compatibility	read the FirstSpirit documentation for detailed information.	
Substitutions		
Fonts	FS_CATALOG: Nesting of language-dependent input components	
Languages	Disabled: Language-dependent input components used inside of a language-dependent	1
Resolutions	Disabled: Language-dependent input components used inside of a language-dependent FS_CATALOG are forced into language-independent mode. (Recommended)	
Users		_
Groups	ExternalSync/ContentTransport: use mapping based schema merge	
Schedule overview		
Schedule management Action templates	Disabled: The intelligent mapping based schema merge during the import of table templates Enable	Н
Databases	and schemas via ExternalSync or ContentTransport is disabled. (Default, not recommended)	1
Template sets		4
ContentCreator settings	Detect images as a file	
Quota	The file name extensions specified here are detected by FirstSpirit as a file and not as a picture.	
Permissions		1
Project components		4
Web components		
Remote projects		
Media constraints		
Client applications		
Applications		
Repository		
	OK Cancel	?

Option "ExternalSync/ContentTransport: use mapping based schema merge" The current status can be checked in the text on the left. Enabled: (recommended) If this option is activated, when importing a database schema in the target, missing language-dependent database columns are added and language-dependent column contents that only exist in the target are **not** overwritten.

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Disabled: (not recommended) This is the default setting. If this option is activated, missing, language-dependent database columns will not be added and language-dependent column contents that only exist in the target will be overwritten when importing a database schema in the target.

Switching is possible by clicking on the button ("Disable" or "Enable") and must be verified by a confirmation prompt.

Although the new behavior is an improvement, it is also a significant change in software behavior compared to previous releases. A change to the new behavior should be executed and tested on a test system beforehand, if possible. Potentially existing project solutions that imitate the functionality of this feature may have to be adapted or removed.

#### 4 FirstSpirit Content Experience Tools (CXT)

#### 4.1 Latest module versions

FirstSpirit 2021-09 supports the following module versions for "FirstSpirit Content Experience Tools".

Module / file name	Version number
FirstSpirit CXT Plattform	2.4.1
platform-[version].fsm	
FirstSpirit CXT DAP Bridge	1.44.0
dataservice-[version].fsm	
FirstSpirit CXT FragmentCreator	3.4.1
fragment-creator-[version].fsm	
FirstSpirit Fragment DAP	1.40.1
fragmentdap-[version].fsm	
FirstSpirit Media DAP	1.31.0*
mediadap-[version].fsm	
FirstSpirit PageRef DAP	1.9.0
pagerefdap-[version].fsm	



FirstSpirit Markdown Editor	1.29.0*
markdown-editor-[version].fsm	
FirstSpirit Tagging Editor	1.29.0
tagging-editor-[version].fsm	
FirstSpirit CXT FragmentCreator - CaaS	1.31.0
Integration	
caas-integration-[version].fsm	

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

## 5 Compatibility

#### 5.1 Announcement: Final removal of some deprecated components

As is the case with the FirstSpirit core, the use of third-party components will be subject to intensive quality assurance processes. With such a multitude of operating systems being supported, as well as Java versions, interfaces with third-party components, and the various possibilities for combining and configuring all these systems, the test environment will naturally be extremely complex. In order to ensure good maintainability and sustainability in the further development of FirstSpirit in the long term, support for components that are no longer supported and/or used is deprecated at regular intervals. During a transition period, customers and partners will have sufficient time to switch operations to alternative solutions - also with the assistance of e-Spirit Technical Support. In a final step, the code for the components that are no longer supported will then be removed on the software side.

For some components that have been deprecated by e-Spirit for some time and are no longer supported, this final step will be taken in the next FirstSpirit releases.

Migration only affects on-premises customers and should already have been completed. Corresponding migration paths have already been communicated in detail.

#### Java Web Start (removal with FirstSpirit 2021-10)

"Java Web Start" allows Java applications to be downloaded from the Internet and executed with one click. It has been included in Java since version 5.0. However, "Java Web Start" dropped with version 11. "Java Web Start" support for FirstSpirit was deprecated with FirstSpirit 2019-10, and it can no longer be used since Java 8 was dropped (FirstSpirit 2020-06).

With FirstSpirit 2021-10, "Java Web Start" will no longer be included in FirstSpirit.

The FirstSpirit Launcher is available as a replacement.



For more information on the FirstSpirit Launcher, see https://docs.e-spirit.com/odfs/edocs/admi/ firstspirit-sta/areas-the-start/firstspirit-lau/index.html.

#### Legacy mode for FirstSpirit Server and module development (removal with FirstSpirit 2022-01)

The main goal of the FirstSpirit server's "Isolated mode" is to give module developers greater freedom in selecting the libraries they use. Especially the potential conflicts with libraries supplied by the FirstSpirit core should be hereby minimised.

"Isolated mode" was released in **February 2019** (2019-02). Since then, "Isolated mode" has been the standard for newly installed servers. "Legacy mode" has been deprecated since FirstSpirit 2019-06. As of FirstSpirit 2022-01, the components for "Legacy mode" will no longer be included in FirstSpirit.

An indication that a server is running in "Isolated mode" is the use of the fs-isolated-server.jar file in the ~/server/lib-isolated directory (instead of fs-server.jar in the ~/server/lib directory in "Legacy mode").

Server and custom modules that have not yet been migrated to "Isolated mode" should be modified appropriately.

If you require assistance with the changeover, please contact e-Spirit Technical Support.

For information on migrating FirstSpirit servers and customer-specific modules to "Isolated mode" please see https://docs.e-spirit.com/odfs/edocs/modd/index.en.html.

#### InternalJetty (removal with FirstSpirit 2022-01)

#### (Web server of type Internal)

The functionality of this internal Jetty web server was deprecated in February 2018 (5.2R18) and is no longer supported since **August 2018** (2018-08).

As of FirstSpirit 2022-01, the components for the "InternalJetty" will no longer be included in FirstSpirit. If the "InternalJetty" on a FirstSpirit server is still configured for one or more web applications, FirstSpirit administrators will see a corresponding note on the start page of the FirstSpirit server ("Use(s) of internal Jetty detected...").

As a substitute, the use of an external web server (e.g. "Apache Tomcat") is recommended.

For information please see https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/server-properti/web-server/index.html.

#### 5.2 Modules and extensions for FirstSpirit 2021-09

The following modules and extensions are compatible with FirstSpirit 2021-09:



Module name/File name FirstSpirit Update Archive fs-update- [version].tar.gz	Version number 2.1.0	Compatibility -
FirstSpirit Install Archiv fs-install- [version].tar.gz	2.1.0	-
FirstSpirit Launcher FSLauncher.exe	1.0.41	as of FirstSpirit 2018-08
FirstSpirit Launcher JRE module fs-launcher-jre-	1.19	as of FirstSpirit 2020-11
[version].fsm FirstSpirit SAML Login module fs-saml-login- [version].fsm	1.3	as of FirstSpirit 2019-02
<pre>FSDevTools fs-cli-[version].tar.gz fs-cli-[version].zip</pre>	3.0.2	as of FirstSpirit 2021-07
FirstSpirit Module Gradle Plugin firstspirit-module- gradle-plugin- [version].jar	2.3.2	as of FirstSpirit 2019-06

## 6 Module Development, Scripts, API

## 6.1 IDProviderEventAgent: Filtering events based on revision

In the context of eventing (e.g., change to objects), the new getRevision(); method can now be used to also identify the revision (FirstSpirit Access-API, de.espirit.firstspirit.event package, EventInfo interface).

This method can be used to decide whether or not the event should be filtered out.

Example:

```
eventFilter = new Predicate<EventInfo>() {
    boolean test(info) {
        eventrevision = info.getRevision();
        ...
        return ...
    }
};
```

## 6.2 Implementing validation for customer-specific input components

An option to support the reporting of validation errors has been created for the JavaScript implementation of a WebPluginGadget.

The JavaScript controller might look like this, for example:

```
// method to be implemented by the JavaScript controller
validateIntegrity: function(integrity) {
    // add methods for each value state
    integrity.addInfo('info message');
    integrity.addWarning('warning message');
    integrity.addError('error message');
}
```

#### See also

- JavaScript controller: https://docs.e-spirit.com/odfs/plug-developmen/universal-exten/inputcomponent/contentcreator/javascript-cont/index.html
- Validation / Rules / Dynamic forms: https://docs.e-spirit.com/odfs/template-develo/rules/ index.html

## 7 Template development

#### 7.1 JSON: New format version

A new version of the JSON output format is being deployed with the latest FirstSpirit release: **1.2**. This new format version 1.2 is being used as standard from FirstSpirit 2021-09, unless a different version is defined via the formatVersion parameter (system object #global.json).

When using "CaaSConnect", information for list elements and table cells from CMS\_INPUT\_DOM and CMS\_INPUT\_DOMTABLE will be (in an upcoming version) also output with this JSON format version (listConfig and propertyConfig attributes).

**FirstSpi** 

ock Your Content

This change does not affect JSON output when using an output channel.

## 8 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	



Functionality	Deprecated as of	Will be removed/ Was removed as of
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	
WebSphere Application Server support for FirstSpirit	2019-05	
Legacy mode for the FirstSpirit server and module development	2019-06	January 2022



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

## 9 Overview

ID	Description	Categories
CORE-7379	Configuration of the preferred display language	ContentCreator, Editor, Languages
	Further information can be found in chapter "ContentCreator: Preferred display language".	
CORE-11755	When using macOS, several individual elements can now be	Developer, Editor,
CXT-2382	selected again in FirstSpirit SiteArchitect and ServerManager using the Command key.	FirstSpirit Administrator, ServerManager, SiteArchitect
CORE-11954	Filtering events based on revision.	Developer, FirstSpirit API
	Further information can be found in chapter "Module Development, Scripts, API: IDProviderEventAgent: Filtering events based on revision".	
CORE-12099	The layout of the file selection dialog in FirstSpirit SiteArchitect has been adapted to significantly accelerate the display of directories whose content the user might not have full access to.	Editor, SiteArchitect
CORE-12410	When a project is deleted, all databases managed by the project are now also deleted along with it.	Database, FirstSpirit Administrator, Performance,
	Further information can be found in chapter "Administration: Deleting a project including databases".	ServerManager



ID	Description	Categories
CORE-13031	New version of JSON output format (1.2). Further information can be found in chapter "Template development: JSON: New format version".	Developer, Input Components, Support for JSON
CORE-13305	<pre>dmp files in the <userhome>/.firstspirit-<version>/ jxbrowser4/bin/data/Dump directory that are more than 30 days old are now deleted when the FirstSpirit SiteArchitect starts up.</version></userhome></pre>	
CORE-13555	Querying the use of a remote reference via API (getUsages()) always returned an empty list. This error has been fixed.	Developer, FirstSpirit API
CORE-13698	Configuring ContentCreator logging Further information can be found in chapter "Administration: Configuring ContentCreator logging".	ContentCreator, Debugging, Developer, FirstSpirit Administrator
CORE-13718 CORE-13832	New information about the health state and the server's current load (MBeans and ServerMonitoring) Further information can be found in chapter "Administration: MBeans and ServerMonitoring: New information about the health state and the server's current load".	Debugging, Server Administrator, ServerMonitoring
CORE-13724	New configuration file for server settings: "fs-server-aux.conf" Further information can be found in chapter "Administration: New configuration file for server settings: "fs-server-aux.conf"".	FirstSpirit Administrator, ServerMonitoring
CORE-13758	Conversion rules: Upload now also in non-hexadecimal notation Further information can be found in chapter "Administration: Conversion rules: Upload now also in non-hexadecimal notation".	FirstSpirit Administrator, Server Administrator, ServerManager
CORE-13787	If a page contains a section reference, when the page is copied, the section reference is now also retained in FirstSpirit ContentCreator. Previously, a copy of the section was created and the reference to the source section was lost.	ContentCreator, Editor

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ID	Description	Categories
CORE-13789 CORE-7823 CORE-12076 CORE-13868	The behavior during the transport of database contents via FirstSpirit "External Synchronization" and FirstSpirit "Content Transport" with different language quantities in the target and source project has been improved. Further information can be found in chapter "External Synchronization / Content Transport: Transport of database schemata and content between projects with different language quantities".	Transport, Database,
CORE-13798 CORE-12358 CORE-13799	Announcement: Final removal of some deprecated components ("Legacy mode", "InternalJetty", "Java Web Start" support) Further information can be found in chapter "Compatibility: Announcement: Final removal of some deprecated components".	Developer, FirstSpirit Administrator, Integrated software, Java, Module development, Web server, Webstart
CORE-13803	The state of the current element was not always being updated in the "Dashboard" report in FirstSpirit ContentCreator.	ContentCreator, Editor, Workflow
CORE-13817	Fixed an error that could cause a Circular service dependency error message to be erroneously issued at FirstSpirit startup in very rare cases when automatically starting all services (services=* in the fs-server.conf file).	FirstSpirit Administrator, Modules
CORE-13863	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".	FirstSpirit Administrator, Modules
CORE-13869	Modules and extensions for FirstSpirit 2021-09 Further information can be found in chapter "Compatibility: Modules and extensions for FirstSpirit 2021-09".	Developer, FSDevTools, Launcher, Modules
CXT-1232	Implementing validation for customer-specific input components Further information can be found in chapter "Module Development, Scripts, API: Implementing validation for customer-specific input components".	ContentCreator, Developer, Dynamic Forms, FirstSpirit API, Input Components



	Description	Categories
CXT-2137 S	New functions have been added to the navigation bar (rename sections, release elements). Further information can be found in chapter "ContentCreator: Navigation bar: New functions".	ContentCreator, Editor, Navigation view, Release
C	The display of the CMS_INPUT_TOGGLE, CMS_INPUT_RADIOBUTTON and CMS_INPUT_CHECKBOX nput components in ContentCreator has been improved, in particular where long labels are used (label attribute).	ContentCreator, Editor
F	FS_REFERENCE now also supports (smart) image cropping. Further information can be found in chapter "ContentCreator: Image cropping directly in FS_REFERENCE".	ContentCreator, Editor, Input Components, Media
	n rare cases, an incorrect character format was being applied to a selection in ContentCreator. This error has been fixed.	ContentCreator, Editor, Input Components
v	Metadata can now be edited again in the FirstSpirit ContentCreator via InEdit (error message before: "500 The call failed on the server").	
C	Fixed a bug that could cause the status displayed in the ContentCreator "Dashboard" to not match the element status in rare cases.	
C F	The functionality of the "Data source management" in the FirstSpirit ContentCreator is still in the beta phase. Further information can be found in chapter "ContentCreator: Beta phase: Data source management in ContentCreator".	ContentCreator, Developer, Editor,



# 10 Categories

#### 10.1 Workflow

ID	Description
CORE-13803	The state of the current element was not always being updated in the "Dashboard" report in FirstSpirit ContentCreator.
CXT-2408	Fixed a bug that could cause the status displayed in the ContentCreator "Dashboard" to not match the element status in rare cases.

# **10.2 Content Transport**

ID	Description
CORE-13789 CORE-7823 CORE-12076 CORE-13868	The behavior during the transport of database contents via FirstSpirit "External Synchronization" and FirstSpirit "Content Transport" with different language quantities in the target and source project has been improved.
	Further information can be found in chapter "External Synchronization / Content Transport: Transport of database schemata and content between projects with different language quantities".

## 10.3 ContentCreator

ID	Description
CORE-7379	Configuration of the preferred display language
	Further information can be found in chapter "ContentCreator: Preferred display language".
CORE-13698	Configuring ContentCreator logging
	Further information can be found in chapter "Administration: Configuring ContentCreator logging".

First Spirit

ID	Description
CORE-13787	If a page contains a section reference, when the page is copied, the section reference is now also retained in FirstSpirit ContentCreator. Previously, a copy of the section was created and the reference to the source section was lost.
CORE-13803	The state of the current element was not always being updated in the "Dashboard" report in FirstSpirit ContentCreator.
CXT-1232	Implementing validation for customer-specific input components Further information can be found in chapter "Module Development, Scripts, API: Implementing
	validation for customer-specific input components".
CXT-1664	New functions have been added to the navigation bar (rename sections, release elements).
CXT-2137	Further information can be found in chapter "ContentCreator: Navigation bar: New functions".
CXT-1894	The display of the CMS_INPUT_TOGGLE, CMS_INPUT_RADIOBUTTON and CMS_INPUT_CHECKBOX input components in ContentCreator has been improved, in particular where long labels are used (label attribute).
CXT-2303	<ul><li>FS_REFERENCE now also supports (smart) image cropping.</li><li>Further information can be found in chapter "ContentCreator: Image cropping directly in FS_REFERENCE".</li></ul>
CXT-2375	In rare cases, an incorrect character format was being applied to a selection in ContentCreator. This error has been fixed.
CXT-2396	Metadata can now be edited again in the FirstSpirit ContentCreator via InEdit (error message before: "500 The call failed on the server").
CXT-2408	Fixed a bug that could cause the status displayed in the ContentCreator "Dashboard" to not match the element status in rare cases.
CXT-2413	The functionality of the "Data source management" in the FirstSpirit ContentCreator is still in the beta phase. Further information can be found in chapter "ContentCreator: Beta phase: Data source
	management in ContentCreator".



## 10.4 Database

ID	Description
CORE-12410	When a project is deleted, all databases managed by the project are now also deleted along with it.
	Further information can be found in chapter "Administration: Deleting a project including databases".
CORE-13789 CORE-7823 CORE-12076 CORE-13868	The behavior during the transport of database contents via FirstSpirit "External Synchronization" and FirstSpirit "Content Transport" with different language quantities in the target and source project has been improved.
	Further information can be found in chapter "External Synchronization / Content Transport: Transport of database schemata and content between projects with different language quantities".

## 10.5 Content Store

ID	Description
CORE-13789 CORE-7823 CORE-12076 CORE-13868	The behavior during the transport of database contents via FirstSpirit "External Synchronization" and FirstSpirit "Content Transport" with different language quantities in the target and source project has been improved. Further information can be found in chapter "External Synchronization / Content Transport: Transport of database schemata and content between projects with different language quantities".
CXT-2413	The functionality of the "Data source management" in the FirstSpirit ContentCreator is still in the beta phase. Further information can be found in chapter "ContentCreator: Beta phase: Data source management in ContentCreator".



# 10.6 Debugging

ID	Description
CORE-13698	Configuring ContentCreator logging Further information can be found in chapter "Administration: Configuring ContentCreator logging".
CORE-13718 CORE-13832	New information about the health state and the server's current load (MBeans and ServerMonitoring) Further information can be found in chapter "Administration: MBeans and ServerMonitoring: New information about the health state and the server's current load".

# 10.7 Dynamic Forms

ID	Description
CXT-1232	Implementing validation for customer-specific input components
	Further information can be found in chapter "Module Development, Scripts, API: Implementing validation for customer-specific input components".

# 10.8 Input Components

ID	Description
CORE-13031	New version of JSON output format (1.2).
	Further information can be found in chapter "Template development: JSON: New format version".
CXT-1232	Implementing validation for customer-specific input components
	Further information can be found in chapter "Module Development, Scripts, API: Implementing validation for customer-specific input components".
CXT-2303	FS_REFERENCE now also supports (smart) image cropping.

First Spirit

ID	Description
	Further information can be found in chapter "ContentCreator: Image cropping directly in FS_REFERENCE".
CXT-2375	In rare cases, an incorrect character format was being applied to a selection in ContentCreator. This error has been fixed.

# 10.9 Developer

ID	Description
CORE-11755 CXT-2382	When using macOS, several individual elements can now be selected again in FirstSpirit SiteArchitect and ServerManager using the Command key.
CORE-11954	Filtering events based on revision.
	Further information can be found in chapter "Module Development, Scripts, API: IDProviderEventAgent: Filtering events based on revision".
CORE-13031	New version of JSON output format (1.2).
	Further information can be found in chapter "Template development: JSON: New format version".
CORE-13555	Querying the use of a remote reference via API (getUsages()) always returned an empty list. This error has been fixed.
CORE-13698	Configuring ContentCreator logging
	Further information can be found in chapter "Administration: Configuring ContentCreator logging".
CORE-13789 CORE-7823 CORE-12076 CORE-13868	The behavior during the transport of database contents via FirstSpirit "External Synchronization" and FirstSpirit "Content Transport" with different language quantities in the target and source project has been improved.
	Further information can be found in chapter "External Synchronization / Content Transport: Transport of database schemata and content between projects with different language quantities".
CORE-13798 CORE-12358	Announcement: Final removal of some deprecated components ("Legacy mode", "InternalJetty", "Java Web Start" support)

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ID	Description
CORE-13799	Further information can be found in chapter "Compatibility: Announcement: Final removal of some deprecated components".
CORE-13869	Modules and extensions for FirstSpirit 2021-09 Further information can be found in chapter "Compatibility: Modules and extensions for FirstSpirit 2021-09".
CXT-1232	Implementing validation for customer-specific input components Further information can be found in chapter "Module Development, Scripts, API: Implementing validation for customer-specific input components".
CXT-2413	The functionality of the "Data source management" in the FirstSpirit ContentCreator is still in the beta phase. Further information can be found in chapter "ContentCreator: Beta phase: Data source management in ContentCreator".

# **10.10 External synchronization**

ID	Description
CORE-13789	The behavior during the transport of database contents via FirstSpirit "External Synchronization"
CORE-7823 CORE-12076	and FirstSpirit "Content Transport" with different language quantities in the target and source project has been improved.
CORE-13868	
	Further information can be found in chapter "External Synchronization / Content Transport:
	Transport of database schemata and content between projects with different language quantities".

# 10.11 FirstSpirit Administrator

ID	Description
CORE-11755	When using macOS, several individual elements can now be selected again in FirstSpirit
CXT-2382	SiteArchitect and ServerManager using the Command key.



ID	Description
CORE-12410	When a project is deleted, all databases managed by the project are now also deleted along with it.
	Further information can be found in chapter "Administration: Deleting a project including databases".
CORE-13698	Configuring ContentCreator logging
	Further information can be found in chapter "Administration: Configuring ContentCreator logging".
CORE-13724	New configuration file for server settings: "fs-server-aux.conf"
	Further information can be found in chapter "Administration: New configuration file for server settings: "fs-server-aux.conf"".
CORE-13758	Conversion rules: Upload now also in non-hexadecimal notation
	Further information can be found in chapter "Administration: Conversion rules: Upload now also in non-hexadecimal notation".
CORE-13798 CORE-12358 CORE-13799	Announcement: Final removal of some deprecated components ("Legacy mode", "InternalJetty", "Java Web Start" support)
CONE IONO	Further information can be found in chapter "Compatibility: Announcement: Final removal of some deprecated components".
CORE-13817	Fixed an error that could cause a Circular service dependency error message to be erroneously issued at FirstSpirit startup in very rare cases when automatically starting all services (services=* in the fs-server.conf file).
CORE-13863	FirstSpirit Content Experience Tools: Latest module versions
	Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".
CXT-2413	The functionality of the "Data source management" in the FirstSpirit ContentCreator is still in the beta phase.
	Further information can be found in chapter "ContentCreator: Beta phase: Data source management in ContentCreator".



# 10.12 FirstSpirit API

ID	Description
CORE-11954	Filtering events based on revision.
	Further information can be found in chapter "Module Development, Scripts, API: IDProviderEventAgent: Filtering events based on revision".
CORE-13555	Querying the use of a remote reference via API (getUsages()) always returned an empty list. This error has been fixed.
CXT-1232	Implementing validation for customer-specific input components
	Further information can be found in chapter "Module Development, Scripts, API: Implementing validation for customer-specific input components".
CXT-1232	Implementing validation for customer-specific input components Further information can be found in chapter "Module Development, Scripts, API: Implem

## 10.13 Release

ID	Description
CXT-1664	New functions have been added to the navigation bar (rename sections, release elements).
CXT-2137	Further information can be found in chapter "ContentCreator: Navigation bar: New functions".

## 10.14 FSDevTools

ID	Description
CORE-13869	Modules and extensions for FirstSpirit 2021-09 Further information can be found in chapter "Compatibility: Modules and extensions for FirstSpirit 2021-09".



# 10.15 Integrated software

ID	Description
CORE-13798	Announcement: Final removal of some deprecated components ("Legacy mode", "InternalJetty",
CORE-12358 CORE-13799	"Java Web Start" support)
	Further information can be found in chapter "Compatibility: Announcement: Final removal of some deprecated components".

## 10.16 Java

ID	Description
CORE-13798	Announcement: Final removal of some deprecated components ("Legacy mode", "InternalJetty",
CORE-12358 CORE-13799	"Java Web Start" support)
	Further information can be found in chapter "Compatibility: Announcement: Final removal of some deprecated components".

# 10.17 Support for JSON

ID	Description
CORE-13031	
	Further information can be found in chapter "Template development: JSON: New format version".

## 10.18 Launcher

ID	Description
CORE-13869	Modules and extensions for FirstSpirit 2021-09
	Further information can be found in chapter "Compatibility: Modules and extensions for FirstSpirit 2021-09".

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## 10.19 Media

ID	Description
CXT-2303	FS_REFERENCE now also supports (smart) image cropping. Further information can be found in chapter "ContentCreator: Image cropping directly in
	FS_REFERENCE".

## 10.20 Metadata

ID	Description
CXT-2396	Metadata can now be edited again in the FirstSpirit ContentCreator via InEdit (error message before: "500 The call failed on the server").

## **10.21 Module development**

ID	Description
CORE-13798	Announcement: Final removal of some deprecated components ("Legacy mode", "InternalJetty",
CORE-12358 CORE-13799	"Java Web Start" support)
	Further information can be found in chapter "Compatibility: Announcement: Final removal of some deprecated components".

## 10.22 Modules

ID	Description
CORE-13817	Fixed an error that could cause a Circular service dependency error message to be erroneously issued at FirstSpirit startup in very rare cases when automatically starting all services (services=* in the fs-server.conf file).
CORE-13863	FirstSpirit Content Experience Tools: Latest module versions



ID	Description
	Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".
CORE-13869	Modules and extensions for FirstSpirit 2021-09 Further information can be found in chapter "Compatibility: Modules and extensions for FirstSpirit 2021-09".

# 10.23 Navigation view

ID	Description
CXT-1664	New functions have been added to the navigation bar (rename sections, release elements).
CXT-2137	
	Further information can be found in chapter "ContentCreator: Navigation bar: New functions".

## **10.24 Performance**

ID	Description
CORE-12410	When a project is deleted, all databases managed by the project are now also deleted along with it.
	Further information can be found in chapter "Administration: Deleting a project including databases".
CORE-13305	<i>dmp</i> files in the <userhome>/.firstspirit-<version>/jxbrowser4/bin/data/Dump directory that are more than 30 days old are now deleted when the FirstSpirit SiteArchitect starts up.</version></userhome>

## 10.25 Editor

18	Description
CORE-7379 Con	nfiguration of the preferred display language



ID	Description
	Further information can be found in chapter "ContentCreator: Preferred display language".
CORE-11755 CXT-2382	When using macOS, several individual elements can now be selected again in FirstSpirit SiteArchitect and ServerManager using the Command key.
CORE-12099	The layout of the file selection dialog in FirstSpirit SiteArchitect has been adapted to significantly accelerate the display of directories whose content the user might not have full access to.
CORE-13305	<i>dmp</i> files in the <userhome>/.firstspirit-<version>/jxbrowser4/bin/data/Dump directory that are more than 30 days old are now deleted when the FirstSpirit SiteArchitect starts up.</version></userhome>
CORE-13787	If a page contains a section reference, when the page is copied, the section reference is now also retained in FirstSpirit ContentCreator. Previously, a copy of the section was created and the reference to the source section was lost.
CORE-13803	The state of the current element was not always being updated in the "Dashboard" report in FirstSpirit ContentCreator.
CXT-1664 CXT-2137	New functions have been added to the navigation bar (rename sections, release elements). Further information can be found in chapter "ContentCreator: Navigation bar: New functions".
CXT-1894	The display of the CMS_INPUT_TOGGLE, CMS_INPUT_RADIOBUTTON and CMS_INPUT_CHECKBOX input components in ContentCreator has been improved, in particular where long labels are used (label attribute).
CXT-2303	<ul><li>FS_REFERENCE now also supports (smart) image cropping.</li><li>Further information can be found in chapter "ContentCreator: Image cropping directly in FS_REFERENCE".</li></ul>
CXT-2375	In rare cases, an incorrect character format was being applied to a selection in ContentCreator. This error has been fixed.
CXT-2396	Metadata can now be edited again in the FirstSpirit ContentCreator via InEdit (error message before: "500 The call failed on the server").
CXT-2408	Fixed a bug that could cause the status displayed in the ContentCreator "Dashboard" to not match the element status in rare cases.
CXT-2413	The functionality of the "Data source management" in the FirstSpirit ContentCreator is still in the beta phase.



ID	Description
	Further information can be found in chapter "ContentCreator: Beta phase: Data source management in ContentCreator".

## 10.26 Reports

ID	Description
CXT-2408	Fixed a bug that could cause the status displayed in the ContentCreator "Dashboard" to not match the element status in rare cases.

## **10.27 Server Administrator**

ID	Description
CORE-13718 CORE-13832	New information about the health state and the server's current load (MBeans and ServerMonitoring) Further information can be found in chapter "Administration: MBeans and ServerMonitoring: New information about the health state and the server's current load".
CORE-13758	Conversion rules: Upload now also in non-hexadecimal notation Further information can be found in chapter "Administration: Conversion rules: Upload now also in non-hexadecimal notation".

# 10.28 ServerManager

ID	Description
CORE-11755 CXT-2382	When using macOS, several individual elements can now be selected again in FirstSpirit SiteArchitect and ServerManager using the Command key.
CORE-12410	When a project is deleted, all databases managed by the project are now also deleted along with it.



ID	Description
	Further information can be found in chapter "Administration: Deleting a project including databases".
CORE-13758	Conversion rules: Upload now also in non-hexadecimal notation Further information can be found in chapter "Administration: Conversion rules: Upload now also in non-hexadecimal notation".

# 10.29 ServerMonitoring

ID	Description
CORE-13718 CORE-13832	New information about the health state and the server's current load (MBeans and ServerMonitoring) Further information can be found in chapter "Administration: MBeans and ServerMonitoring: New information about the health state and the server's current load".
CORE-13724	New configuration file for server settings: "fs-server-aux.conf" Further information can be found in chapter "Administration: New configuration file for server settings: "fs-server-aux.conf"".

## 10.30 SiteArchitect

ID	Description
CORE-11755 CXT-2382	When using macOS, several individual elements can now be selected again in FirstSpirit SiteArchitect and ServerManager using the Command key.
CORE-12099	The layout of the file selection dialog in FirstSpirit SiteArchitect has been adapted to significantly accelerate the display of directories whose content the user might not have full access to.
CORE-13305	<i>dmp</i> files in the <userhome>/.firstspirit-<version>/jxbrowser4/bin/data/Dump directory that are more than 30 days old are now deleted when the FirstSpirit SiteArchitect starts up.</version></userhome>



# 10.31 Languages

ID	Description
CORE-7379	Configuration of the preferred display language Further information can be found in chapter "ContentCreator: Preferred display language".
CORE-13789 CORE-7823 CORE-12076 CORE-13868	The behavior during the transport of database contents via FirstSpirit "External Synchronization" and FirstSpirit "Content Transport" with different language quantities in the target and source project has been improved.
	Further information can be found in chapter "External Synchronization / Content Transport: Transport of database schemata and content between projects with different language quantities".

# 10.32 Table templates

ID	Description
CORE-13789 CORE-7823 CORE-12076 CORE-13868	The behavior during the transport of database contents via FirstSpirit "External Synchronization" and FirstSpirit "Content Transport" with different language quantities in the target and source project has been improved.
	Further information can be found in chapter "External Synchronization / Content Transport: Transport of database schemata and content between projects with different language quantities".

## 10.33 Web server

ID	Description
CORE-13798	Announcement: Final removal of some deprecated components ("Legacy mode", "InternalJetty",
CORE-12358 CORE-13799	"Java Web Start" support)
	Further information can be found in chapter "Compatibility: Announcement: Final removal of some deprecated components".



## 10.34 Webstart

ID	Description
CORE-13798	Announcement: Final removal of some deprecated components ("Legacy mode", "InternalJetty",
CORE-12358 CORE-13799	"Java Web Start" support)
	Further information can be found in chapter "Compatibility: Announcement: Final removal of some deprecated components".