



# FirstSpirit™

*Unlock Your Content*

## Release Notes

### FirstSpirit™ 2022.4

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Department	FS-Core
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## 1 Administration

### 1.1 Update of internally used software

As of the current release, the following internally used software for FirstSpirit Content Experience Tools (CXT) has been updated:

- **Spring Boot**  
Update to version 2.5.12

### 1.2 ServerMonitoring: information concerning statistics can now be downloaded in ZIP format

Information concerning some statistics that could be downloaded individually as CSV files in the FirstSpirit ServerMonitoring can now be downloaded conveniently at the same time in a ZIP file that contains the CSV files.

FirstSpirit ServerMonitoring:

- Overview/Activities
- FirstSpirit/Monitoring/Codes

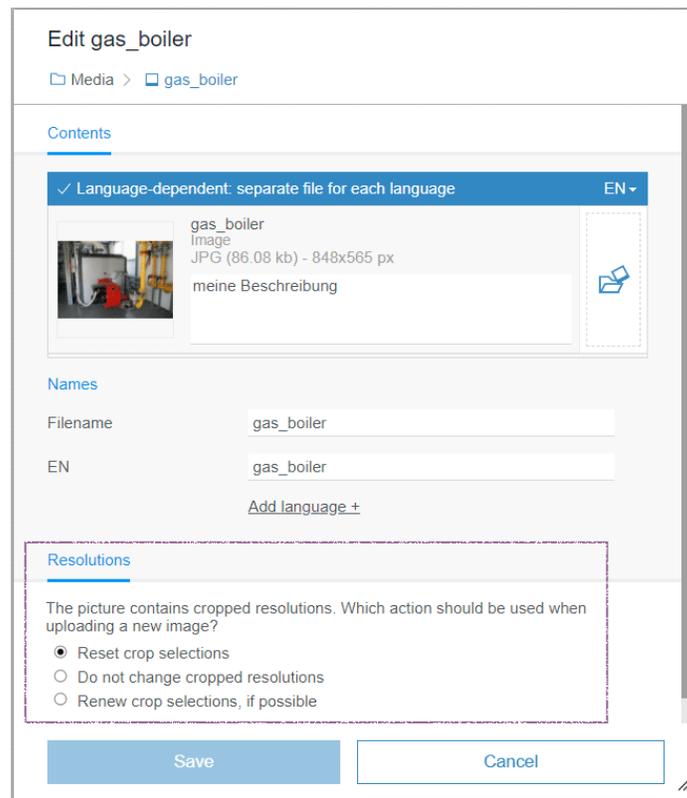
## 2 ContentCreator

### 2.1 Image cutout after replacing the original image

If there are crops for an image and if the original image is replaced later, the details have remained unchanged in the past. The completed crops could potentially no longer match the new image and should therefore be checked and adjusted as needed.

With the most recent release, the editor can now choose in the “Edit” dialog in the FirstSpirit ContentCreator how to proceed in this case with existing crops.





- **Reset crop selections**

Existing image crops are removed and must be created new. This option is initially selected.

- **Do not change cropped resolutions**

Existing image crops are kept. They may potentially no longer match the original image. This is the current standard behavior.

- **Renew crop selections, if possible**

Image crops are recalculated and applied. For example, this is practical when the motive and size of the original image remained unchanged.

In the crop dialog of the FirstSpirit ContentCreator, a corresponding note is now displayed when crops exist and the original image was replaced:

Some resolutions have a deprecated crop selection!

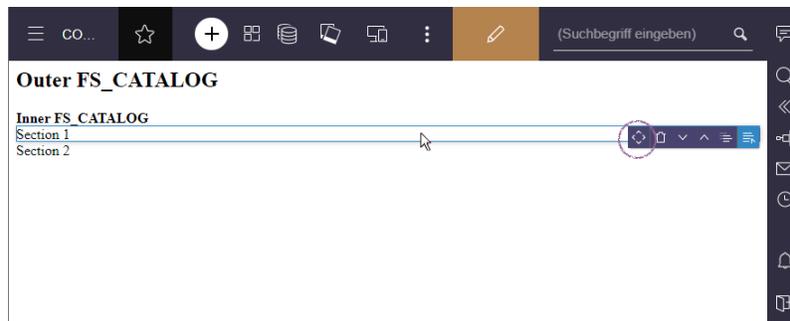


## 2.2 FS\_CATALOG: moving entries in the preview

In the FS\_CATALOG input component (“Catalog List”), lists of sections or links can be created and maintained.

If such component in turn contains an FS\_CATALOG, the order of the internal elements could previously only be changed in the form itself with drag-and-drop.

With the most recent release, the order can now also be changed directly in the preview with drag-and-drop:



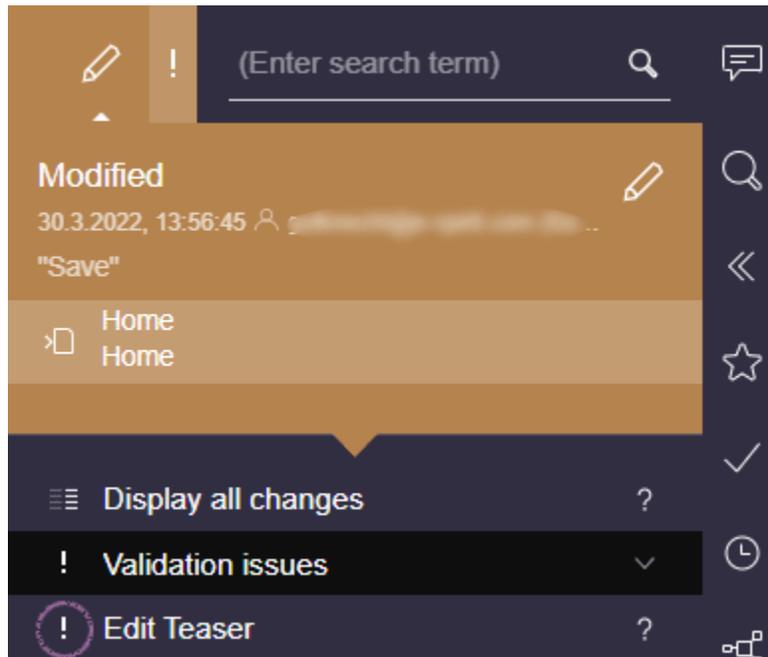
## 2.3 Optimizations concerning UI and UX

The most recent release includes some minor optimizations concerning the design and user guidance (UI and UX) in the FirstSpirit ContentCreator:

- After creating a new medium or dataset, it will now be selected accordingly and can therefore be found better.
- When saving changes for media elements, an indicator now shows the loading process.
- The standard size of forms has been marginally increased.
- The scaling of the font size now also affects the Rich-Text Editor.
- The display of thumbnails in the reports has been improved with an additional space.
- A security questions is now displayed when deleting entries of an FS\_CATALOG component in the preview (“Do you really want to delete the element ...?”).



- The display of tasks now also shows the comments since the last non-automatic transition.
- Element Status entries are now visualized with the ! Icon (instead of the previous Edit icon) in case of validation problems:



### 3 FirstSpirit Content Experience Tools (CXT)

#### 3.1 Latest module versions

FirstSpirit 2022.4 supports the following module versions for “FirstSpirit Content Experience Tools”.

Module / file name	Version number
FirstSpirit CXT Plattform platform-[version].fsm	2.5.4
FirstSpirit CXT DAP Bridge dataservice-[version].fsm	1.44.4
FirstSpirit CXT FragmentCreator fragment-creator-[version].fsm	3.4.8
FirstSpirit Fragment DAP fragmentdap-[version].fsm	1.40.9



FirstSpirit Media DAP	1.31.4*
mediadap-[version].fsm	
FirstSpirit PageRef DAP	1.9.4
pagerefdap-[version].fsm	
FirstSpirit Markdown Editor	1.29.3*
markdown-editor-[version].fsm	
FirstSpirit Tagging Editor	1.29.3
tagging-editor-[version].fsm	
FirstSpirit CXT FragmentCreator - CaaS Integration	1.31.4
caas-integration-[version].fsm	

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

## 3.2 Timeout for the registration of MicroApps

The registration of MicroApps can take some time, especially in the case of the restart of a FirstSpirit-Server or the Tomcat web server.

In the past, an error message was displayed while starting the FragmentCreator after a timeout of 5 minutes.

```
x MicroApps could not be registered in a reasonable amount of time.
```

when the existing MicroApps could not be registered during this time and the FragmentCreator was not started.

With the most recent release, the default value for the timeout was increased to 10 minutes.

If necessary, you can now also adjust it individually for the requirements of your installation by using the new parameter

```
cxt.fragmentcreator.microAppRegistration.timeoutInMinutes
```

in the properties file `cxt-fragment-creator.properties`.

Excerpt from the properties file:



```
<context-param>
  <param-name>cxt.fragmentcreator.microAppRegistration.timeoutInMinutes</param-name>
  <param-value>10</param-value>
</context-param>
```

For more information about `cxt-fragment-creator.properties`, see [https://docs.e-spirit.com/odfs/edocs/cxt/installation-mo/installing-modu/fragmentcreator/index.html#web\\_xml](https://docs.e-spirit.com/odfs/edocs/cxt/installation-mo/installing-modu/fragmentcreator/index.html#web_xml).

## 4 Template development

### 4.1 Images: defining format of automatically generated image files

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

- when generating a preview image
- when generating new resolutions
- when using an automatically generated resolution
- in case of an image crop (in the FirstSpirit ContentCreator or SiteArchitect)

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

```
ImageWriteParams
```

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

With the most recent release, it is now also possible to specify the image format of automatically generated images (`targetType`).

**Example script**, which was used to generate all automatically generated image files in the *WebP* format:



```
project = context.getProject();
project.lock();
properties = new java.util.LinkedHashMap();
properties.put("default.targetType", "webp");
project.setCustomProperties("ImageWriteParam", properties);
project.save();
project.unlock();
```

This script must be executed once with Administrator permissions in the project.

The change applies to all images that are automatically generated after executing the script. For instructions on how you can remove already calculated resolutions from the project, please contact e-Spirit Technical Support.

**Important:** ImageWriteParams, that are already configured for the respective project must also be included in the script because they will otherwise be overwritten.

Find out if and what parameters are already configured via

```
context.project.getCustomProperties("ImageWriteParam");
```

In addition, you can define definitions for individual image formats and/or resolutions.

The setting for the currently specified image type will thereby be used. If it does not exist, the global setting will be used for the resolution as a fallback.

**Example script**, that maintains the type for *PNG* images, for the “Icon” resolution uses the *JPG* type and applies the *WebP* type for all other scalable images:

```
project = context.getProject();
project.lock();
properties = new java.util.LinkedHashMap();
properties.put("default.targetType", "webp");
properties.put("default.png.targetType", "png");
properties.put("resolution.Icon.targetType", "jpg");
project.setCustomProperties("ImageWriteParam", properties);
project.save();
project.unlock();
```



If images that are generated by the `font(...)` function must be output in the *WebP* format, the `filetyp` to be transferred must be *webp*.

For more information, see:

- `ImageWriteParam`: [https://docs.e-spirit.com/odfs/template-develo/template-syntax/functions/instructions/ref/index.html#hinweis\\_zu\\_automatisch\\_erzeugten\\_bilddateien](https://docs.e-spirit.com/odfs/template-develo/template-syntax/functions/instructions/ref/index.html#hinweis_zu_automatisch_erzeugten_bilddateien)
- `font(...)` function: <https://docs.e-spirit.com/odfs/template-develo/template-syntax/functions/instructions/font/index.html#filetype>

## 5 Deprecations

For e-Spirit, an important goal in software development is to avoid introducing incompatibilities and migration expenditures related to updating from one FirstSpirit release to the next as much as possible or to compensate for these within the software. FirstSpirit updates should generally be deployable with little effort or able to be carried out in a fully automated fashion.

However - not least in order to ensure maintainability and to future-proof the software - e-Spirit cannot fully avoid replacing existing functionality with new mechanisms. In the future, functionality that will be removed from the software will be listed in this section, including the date at which time the functionality will be removed.

Functionality	Deprecated as of	Will be removed/ Was removed as of
Input component CMS_INPUT_CONTENTAREALIST	5.2R3	
Input component CMS_INPUT_CONTENTLIST	5.2R3	
Input component CMS_INPUT_FILE	5.2R3	
Input component CMS_INPUT_LINKLIST	5.2R3	
Input component CMS_INPUT_OBJECTCHOOSER	5.2R3	
Input component CMS_INPUT_PAGEREF	5.2R3	
Input component CMS_INPUT_PICTURE	5.2R3	
Input component CMS_INPUT_TABLIST	5.2R3	



Functionality	Deprecated as of	Will be removed/ Was removed as of
FirstSpirit Developer API: de.espirit.firstspirit.agency.GroupsAgent	5.2R15	
FirstSpirit Access API: delete (de.espirit.firstspirit.access.AccessUtil)	5.2R18	
FirstSpirit Access API: release (de.espirit.firstspirit.access.AccessUtil)	2018-06	
FirstSpirit Developer API: getLastLoginAsDate (de.espirit.firstspirit.agency.UserStatisticsAgent)	2018-07	
FirstSpirit Developer API: remainingDurationOfCurrentStageInMillis (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Access API: getSelectedWebserverConfiguration (de.espirit.firstspirit.access.server.Configuration)	2018-10	
FirstSpirit Access API: setSelectedWebserverConfiguration (de.espirit.firstspirit.access.server.Configuration)	2018-10	
FirstSpirit Access API: getSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Access API: setSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Developer API: getLostAndFoundStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Developer API: getDeletedStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Access API: de.espirit.firstspirit.access.store.Previewable	2019-01	



Functionality	Deprecated as of	Will be removed/ Was removed as of
WebSphere Application Server support for FirstSpirit	2019-05	
Control files for Windows and Linux operating systems (old)	2020-08	
Database layer for Oracle Database 11g/12c	2020-12	
FirstSpirit Developer API: redirectTemplateLogToDefaultLog() (Interface RenderingAgent.Renderer)	2021-05	

## 6 Overview

ID	Description	Categories
CORE-10584	<p>In the project properties (FirstSpirit ServerManager), a <b>Substitution medium</b> can be defined (section: “Substitutions”). For example, this is displayed when the originally selected medium is not released or the referenced image has been deleted.</p> <p>The most recent release now takes additional cases into account where the substitution medium is used. If a medium cannot be found, attempts to access this medium (URL, size, etc.) are now diverted to the substitution medium as long as it has been configured.</p>	Developer, FirstSpirit Administrator, Media, Media Store
CORE-11435	<p>With use of the “Accept template changes” function, possible rule violations are now ignored on the pages to be updated. In the past, the process stopped with an <code>ElementValidationReportsException</code> when a relevant page indicated a rule violation.</p>	Developer, SiteArchitect, Template Development, Template Store
CORE-12206	<p>It is now possible to specify the image format of automatically generated images (<code>targetType</code>) Furthermore, you can define corresponding definitions for individual image types and/or resolutions.</p> <p>Further information can be found in chapter “Template development: Images: defining format of automatically generated image files”.</p>	Developer, FirstSpirit Administrator, Media, Media Store



ID	Description	Categories
CORE-13700	<p>When a database schema is implicitly added to a Content Transport Feature (i.e. the folder containing the schema, not the schema itself), it was possible that the name of the database incorrectly changed in the schema after the installation of the feature (parameter <i>dbname</i>). In this case, no datasets of the schema were displayed in the target project.</p> <p>The <i>dbname</i> of the schema is now no longer changed in the target for an import.</p>	Content Transport, Database, Developer, FirstSpirit Administrator
CORE-13891	<p>A bug was fixed that prevented that the contexts in the preview were not closed correctly (<code>GenerationContext#addCloseable(Closeable)</code>).</p>	FirstSpirit API
CORE-14208	<p>Multiple problems concerning the use of cluster generation have been eliminated.</p> <p>(For further information on using cluster generation, refer to <a href="https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/server-property/clustering/index.html">https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/server-property/clustering/index.html</a>.)</p>	Clustering, FirstSpirit Administrator, Generation
CORE-14221	<p>The memory management of the Berkeley databases used by FirstSpirit has been improved so that storage made available for them can be better divided between them.</p>	FirstSpirit Administrator, Performance, Repository
CORE-14234	<p>An error has been fixed which could cause the thumbnails of WebP images not to be displayed in some places in the FirstSpirit SiteArchitect.</p>	Editor, Input Components, Media
CORE-14235	<p>When transporting database schemata (using “External Synchronization” or “Content Transport”), columns with names that are identical except for the upper and lower case spelling can now also be transported.</p>	Content Store, Content Transport, Database, Developer, External synchronization
CORE-14253	<p>An error has been fixed which, in very rare cases, could cause the FirstSpirit Server to become unusable due to an exception in the <code>NIOSocketServer (writeSelector)</code>.</p>	FirstSpirit Administrator
CORE-14265	<p>An error was fixed that could lead to that additional sessions subject to licensing remained open when using the FirstSpirit ContentCreator.</p>	ContentCreator, FirstSpirit Administrator, Sessions



ID	Description	Categories
CORE-14276	Empty 1:1 columns are now exported correctly via ContentTransport or External Synchronization and the column in the target project is cleared during import accordingly.	Content Store, Content Transport, Database, Developer, External synchronization, FSDevTools, FirstSpirit Administrator
CORE-14283	<p>Information concerning some statistics can now be downloaded conveniently at the same time in the FirstSpirit ServerMonitoring.</p> <p>Further information can be found in chapter “Administration: ServerMonitoring: information concerning statistics can now be downloaded in ZIP format”.</p>	Debugging, FirstSpirit Administrator, Monitoring, ServerMonitoring
CORE-14285	<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>	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Modules
CORE-14303	An error has been eliminated that, in rare cases, could result in that a FirstSpirit Server was deemed to be <i>degraded</i> after starting even though there was no problem. The cause for this was that corresponding recent status changes (up to 24 hours) were incorrectly taken into account.	FirstSpirit Administrator, Health Center, Monitoring
CORE-14326	<p>Update of internally used software</p> <p>Further information can be found in chapter “Administration: Update of internally used software”.</p>	FirstSpirit Content Experience Tools (CXT), Integrated software
CXT-2264	For the selection of elements in the ContentCreator, the behavior of the search dialog was corrected, so that pressing X now only removes the search term that was entered.	ContentCreator, Editor, Input Components



ID	Description	Categories
CXT-2372	<p>The default value of the timeout for the registration of MicroApps has been increased and can now be configured specific to the customer.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Timeout for the registration of MicroApps”.</p>	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Performance
CXT-2538	<p>With the most recent release, the editor can now choose in the FirstSpirit ContentCreator how to proceed in case of a replaced original image with existing crops.</p> <p>Furthermore, a corresponding note is shown in the Crop dialog of the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Image cutout after replacing the original image”.</p>	ContentCreator, Editor, Media, Media Store
CXT-2549	<p>The most recent release includes some minor optimizations concerning the design and user guidance (UI and UX) in the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Optimizations concerning UI and UX”.</p>	ContentCreator, Editor
CXT-2551	<p>In the FirstSpirit ContentCreator, new tasks are now displayed promptly in the “Tasks” and “Dashboard” reports.</p>	ContentCreator, Editor, Reports, Workflow
CXT-2563	<p>With the most recent release, the order of internal entries of an FS_CATALOG component can now also be changed directly in the preview with drag-and-drop.</p> <p>Further information can be found in chapter “ContentCreator: FS_CATALOG: moving entries in the preview”.</p>	ContentCreator, Editor, Input Components
CXT-2565	<p>In rare cases, the content was not directly visible in the “Page” section of the navigation bar in the FirstSpirit ContentCreator.</p>	ContentCreator, Editor, Navigation view



## 7 Categories

### 7.1 Workflow

ID	Description
CXT-2551	In the FirstSpirit ContentCreator, new tasks are now displayed promptly in the “Tasks” and “Dashboard” reports.

### 7.2 Clustering

ID	Description
CORE-14208	Multiple problems concerning the use of cluster generation have been eliminated. (For further information on using cluster generation, refer to <a href="https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/server-properti/clustering/index.html">https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/server-properti/clustering/index.html</a> .)

### 7.3 Content Transport

ID	Description
CORE-13700	When a database schema is implicitly added to a Content Transport Feature (i.e. the folder containing the schema, not the schema itself), it was possible that the name of the database incorrectly changed in the schema after the installation of the feature (parameter <i>dbname</i> ). In this case, no datasets of the schema were displayed in the target project.  The <i>dbname</i> of the schema is now no longer changed in the target for an import.
CORE-14235	When transporting database schemata (using “External Synchronization ”or “Content Transport”), columns with names that are identical except for the upper and lower case spelling can now also be transported.
CORE-14276	Empty 1:1 columns are now exported correctly via ContentTransport or External Synchronization and the column in the target project is cleared during import accordingly.



## 7.4 ContentCreator

ID	Description
CORE-14265	An error was fixed that could lead to that additional sessions subject to licensing remained open when using the FirstSpirit ContentCreator.
CXT-2264	For the selection of elements in the ContentCreator, the behavior of the search dialog was corrected, so that pressing X now only removes the search term that was entered.
CXT-2538	<p>With the most recent release, the editor can now choose in the FirstSpirit ContentCreator how to proceed in case of a replaced original image with existing crops.</p> <p>Furthermore, a corresponding note is shown in the Crop dialog of the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Image cutout after replacing the original image”.</p>
CXT-2549	<p>The most recent release includes some minor optimizations concerning the design and user guidance (UI and UX) in the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Optimizations concerning UI and UX”.</p>
CXT-2551	In the FirstSpirit ContentCreator, new tasks are now displayed promptly in the “Tasks” and “Dashboard” reports.
CXT-2563	<p>With the most recent release, the order of internal entries of an FS_CATALOG component can now also be changed directly in the preview with drag-and-drop.</p> <p>Further information can be found in chapter “ContentCreator: FS_CATALOG: moving entries in the preview”.</p>
CXT-2565	In rare cases, the content was not directly visible in the “Page” section of the navigation bar in the FirstSpirit ContentCreator.

## 7.5 Database

ID	Description
CORE-13700	When a database schema is implicitly added to a Content Transport Feature (i.e. the folder containing the schema, not the schema itself), it was possible that the name of the database



ID	Description
	<p>incorrectly changed in the schema after the installation of the feature (parameter <i>dbname</i>). In this case, no datasets of the schema were displayed in the target project.</p> <p>The <i>dbname</i> of the schema is now no longer changed in the target for an import.</p>
CORE-14235	When transporting database schemata (using “External Synchronization ”or “Content Transport”), columns with names that are identical except for the upper and lower case spelling can now also be transported.
CORE-14276	Empty 1:1 columns are now exported correctly via ContentTransport or External Synchronization and the column in the target project is cleared during import accordingly.

## 7.6 Content Store

ID	Description
CORE-14235	When transporting database schemata (using “External Synchronization ”or “Content Transport”), columns with names that are identical except for the upper and lower case spelling can now also be transported.
CORE-14276	Empty 1:1 columns are now exported correctly via ContentTransport or External Synchronization and the column in the target project is cleared during import accordingly.

## 7.7 Debugging

ID	Description
CORE-14283	<p>Information concerning some statistics can now be downloaded conveniently at the same time in the FirstSpirit ServerMonitoring.</p> <p>Further information can be found in chapter “Administration: ServerMonitoring: information concerning statistics can now be downloaded in ZIP format”.</p>



## 7.8 Input Components

ID	Description
CORE-14234	An error has been fixed which could cause the thumbnails of WebP images not to be displayed in some places in the FirstSpirit SiteArchitect.
CXT-2264	For the selection of elements in the ContentCreator, the behavior of the search dialog was corrected, so that pressing X now only removes the search term that was entered.
CXT-2563	<p>With the most recent release, the order of internal entries of an FS_CATALOG component can now also be changed directly in the preview with drag-and-drop.</p> <p>Further information can be found in chapter “ContentCreator: FS_CATALOG: moving entries in the preview”.</p>

## 7.9 Developer

ID	Description
CORE-10584	<p>In the project properties (FirstSpirit ServerManager), a <b>Substitution medium</b> can be defined (section: “Substitutions”). For example, this is displayed when the originally selected medium is not released or the referenced image has been deleted.</p> <p>The most recent release now takes additional cases into account where the substitution medium is used. If a medium cannot be found, attempts to access this medium (URL, size, etc.) are now diverted to the substitution medium as long as it has been configured.</p>
CORE-11435	With use of the “Accept template changes” function, possible rule violations are now ignored on the pages to be updated. In the past, the process stopped with an <code>ElementValidationReportsException</code> when a relevant page indicated a rule violation.
CORE-12206	<p>It is now possible to specify the image format of automatically generated images (<code>targetType</code>). Furthermore, you can define corresponding definitions for individual image types and/or resolutions.</p> <p>Further information can be found in chapter “Template development: Images: defining format of automatically generated image files”.</p>
CORE-13700	When a database schema is implicitly added to a Content Transport Feature (i.e. the folder containing the schema, not the schema itself), it was possible that the name of the database



ID	Description
	<p>incorrectly changed in the schema after the installation of the feature (parameter <i>dbname</i>). In this case, no datasets of the schema were displayed in the target project.</p> <p>The <i>dbname</i> of the schema is now no longer changed in the target for an import.</p>
CORE-14235	When transporting database schemata (using “External Synchronization ”or “Content Transport”), columns with names that are identical except for the upper and lower case spelling can now also be transported.
CORE-14276	Empty 1:1 columns are now exported correctly via ContentTransport or External Synchronization and the column in the target project is cleared during import accordingly.
CORE-14285	<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-2372	<p>The default value of the timeout for the registration of MicroApps has been increased and can now be configured specific to the customer.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Timeout for the registration of MicroApps”.</p>

## 7.10 External synchronization

ID	Description
CORE-14235	When transporting database schemata (using “External Synchronization ”or “Content Transport”), columns with names that are identical except for the upper and lower case spelling can now also be transported.
CORE-14276	Empty 1:1 columns are now exported correctly via ContentTransport or External Synchronization and the column in the target project is cleared during import accordingly.

## 7.11 FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-14285	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-14326	Update of internally used software  Further information can be found in chapter “Administration: Update of internally used software”.
CXT-2372	The default value of the timeout for the registration of MicroApps has been increased and can now be configured specific to the customer.  Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Timeout for the registration of MicroApps”.

## 7.12 FirstSpirit Administrator

ID	Description
CORE-10584	In the project properties (FirstSpirit ServerManager), a <b>Substitution medium</b> can be defined (section: “Substitutions”). For example, this is displayed when the originally selected medium is not released or the referenced image has been deleted.  The most recent release now takes additional cases into account where the substitution medium is used. If a medium cannot be found, attempts to access this medium (URL, size, etc.) are now diverted to the substitution medium as long as it has been configured.
CORE-12206	It is now possible to specify the image format of automatically generated images ( <code>targetType</code> ) Furthermore, you can define corresponding definitions for individual image types and/or resolutions.  Further information can be found in chapter “Template development: Images: defining format of automatically generated image files”.
CORE-13700	When a database schema is implicitly added to a Content Transport Feature (i.e. the folder containing the schema, not the schema itself), it was possible that the name of the database incorrectly changed in the schema after the installation of the feature (parameter <code>dbname</code> ). In this case, no datasets of the schema were displayed in the target project.  The <code>dbname</code> of the schema is now no longer changed in the target for an import.
CORE-14208	Multiple problems concerning the use of cluster generation have been eliminated.



ID	Description
	(For further information on using cluster generation, refer to <a href="https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/server-property/clustering/index.html">https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/server-property/clustering/index.html</a> .)
CORE-14221	The memory management of the Berkeley databases used by FirstSpirit has been improved so that storage made available for them can be better divided between them.
CORE-14253	An error has been fixed which, in very rare cases, could cause the FirstSpirit Server to become unusable due to an exception in the <code>NIOSocketServer (WriteSelector)</code> .
CORE-14265	An error was fixed that could lead to that additional sessions subject to licensing remained open when using the FirstSpirit ContentCreator.
CORE-14276	Empty 1:1 columns are now exported correctly via ContentTransport or External Synchronization and the column in the target project is cleared during import accordingly.
CORE-14283	<p>Information concerning some statistics can now be downloaded conveniently at the same time in the FirstSpirit ServerMonitoring.</p> <p>Further information can be found in chapter “Administration: ServerMonitoring: information concerning statistics can now be downloaded in ZIP format”.</p>
CORE-14285	<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>
CORE-14303	An error has been eliminated that, in rare cases, could result in that a FirstSpirit Server was deemed to be <i>degraded</i> after starting even though there was no problem. The cause for this was that corresponding recent status changes (up to 24 hours) were incorrectly taken into account.
CXT-2372	<p>The default value of the timeout for the registration of MicroApps has been increased and can now be configured specific to the customer.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Timeout for the registration of MicroApps”.</p>



## 7.13 FirstSpirit API

ID	Description
CORE-13891	A bug was fixed that prevented that the contexts in the preview were not closed correctly ( <code>GenerationContext#addCloseable(Closeable)</code> ).

## 7.14 FragmentCreator

ID	Description
CORE-14285	<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-2372	<p>The default value of the timeout for the registration of MicroApps has been increased and can now be configured specific to the customer.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Timeout for the registration of MicroApps”.</p>

## 7.15 FSDevTools

ID	Description
CORE-14276	Empty 1:1 columns are now exported correctly via ContentTransport or External Synchronization and the column in the target project is cleared during import accordingly.

## 7.16 Generation

ID	Description
CORE-14208	<p>Multiple problems concerning the use of cluster generation have been eliminated.</p> <p>(For further information on using cluster generation, refer to <a href="https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/server-property/clustering/index.html">https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-ser/server-property/clustering/index.html</a>.)</p>



## 7.17 Health Center

ID	Description
CORE-14303	An error has been eliminated that, in rare cases, could result in that a FirstSpirit Server was deemed to be <i>degraded</i> after starting even though there was no problem. The cause for this was that corresponding recent status changes (up to 24 hours) were incorrectly taken into account.

## 7.18 Integrated software

ID	Description
CORE-14326	Update of internally used software  Further information can be found in chapter “Administration: Update of internally used software”.

## 7.19 Media

ID	Description
CORE-10584	<p>In the project properties (FirstSpirit ServerManager), a <b>Substitution medium</b> can be defined (section: “Substitutions”). For example, this is displayed when the originally selected medium is not released or the referenced image has been deleted.</p> <p>The most recent release now takes additional cases into account where the substitution medium is used. If a medium cannot be found, attempts to access this medium (URL, size, etc.) are now diverted to the substitution medium as long as it has been configured.</p>
CORE-12206	<p>It is now possible to specify the image format of automatically generated images (<code>targetType</code>). Furthermore, you can define corresponding definitions for individual image types and/or resolutions.</p> <p>Further information can be found in chapter “Template development: Images: defining format of automatically generated image files”.</p>
CORE-14234	An error has been fixed which could cause the thumbnails of WebP images not to be displayed in some places in the FirstSpirit SiteArchitect.



ID	Description
CXT-2538	<p>With the most recent release, the editor can now choose in the FirstSpirit ContentCreator how to proceed in case of a replaced original image with existing crops.</p> <p>Furthermore, a corresponding note is shown in the Crop dialog of the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Image cutout after replacing the original image”.</p>

## 7.20 Media Store

ID	Description
CORE-10584	<p>In the project properties (FirstSpirit ServerManager), a <b>Substitution medium</b> can be defined (section: “Substitutions”). For example, this is displayed when the originally selected medium is not released or the referenced image has been deleted.</p> <p>The most recent release now takes additional cases into account where the substitution medium is used. If a medium cannot be found, attempts to access this medium (URL, size, etc.) are now diverted to the substitution medium as long as it has been configured.</p>
CORE-12206	<p>It is now possible to specify the image format of automatically generated images (<i>targetType</i>) Furthermore, you can define corresponding definitions for individual image types and/or resolutions.</p> <p>Further information can be found in chapter “Template development: Images: defining format of automatically generated image files”.</p>
CXT-2538	<p>With the most recent release, the editor can now choose in the FirstSpirit ContentCreator how to proceed in case of a replaced original image with existing crops.</p> <p>Furthermore, a corresponding note is shown in the Crop dialog of the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Image cutout after replacing the original image”.</p>



## 7.21 Modules

ID	Description
CORE-14285	<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>

## 7.22 Monitoring

ID	Description
CORE-14283	<p>Information concerning some statistics can now be downloaded conveniently at the same time in the FirstSpirit ServerMonitoring.</p> <p>Further information can be found in chapter “Administration: ServerMonitoring: information concerning statistics can now be downloaded in ZIP format”.</p>
CORE-14303	<p>An error has been eliminated that, in rare cases, could result in that a FirstSpirit Server was deemed to be <i>degraded</i> after starting even though there was no problem. The cause for this was that corresponding recent status changes (up to 24 hours) were incorrectly taken into account.</p>

## 7.23 Navigation view

ID	Description
CXT-2565	<p>In rare cases, the content was not directly visible in the “Page” section of the navigation bar in the FirstSpirit ContentCreator.</p>

## 7.24 Performance

ID	Description
CORE-14221	<p>The memory management of the Berkeley databases used by FirstSpirit has been improved so that storage made available for them can be better divided between them.</p>



ID	Description
CXT-2372	<p>The default value of the timeout for the registration of MicroApps has been increased and can now be configured specific to the customer.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Timeout for the registration of MicroApps”.</p>

## 7.25 Editor

ID	Description
CORE-14234	An error has been fixed which could cause the thumbnails of WebP images not to be displayed in some places in the FirstSpirit SiteArchitect.
CXT-2264	For the selection of elements in the ContentCreator, the behavior of the search dialog was corrected, so that pressing X now only removes the search term that was entered.
CXT-2538	<p>With the most recent release, the editor can now choose in the FirstSpirit ContentCreator how to proceed in case of a replaced original image with existing crops.</p> <p>Furthermore, a corresponding note is shown in the Crop dialog of the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Image cutout after replacing the original image”.</p>
CXT-2549	<p>The most recent release includes some minor optimizations concerning the design and user guidance (UI and UX) in the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Optimizations concerning UI and UX”.</p>
CXT-2551	In the FirstSpirit ContentCreator, new tasks are now displayed promptly in the “Tasks” and “Dashboard” reports.
CXT-2563	<p>With the most recent release, the order of internal entries of an FS_CATALOG component can now also be changed directly in the preview with drag-and-drop.</p> <p>Further information can be found in chapter “ContentCreator: FS_CATALOG: moving entries in the preview”.</p>
CXT-2565	In rare cases, the content was not directly visible in the “Page” section of the navigation bar in the FirstSpirit ContentCreator.



## 7.26 Reports

ID	Description
CXT-2551	In the FirstSpirit ContentCreator, new tasks are now displayed promptly in the “Tasks” and “Dashboard” reports.

## 7.27 Repository

ID	Description
CORE-14221	The memory management of the Berkeley databases used by FirstSpirit has been improved so that storage made available for them can be better divided between them.

## 7.28 ServerMonitoring

ID	Description
CORE-14283	Information concerning some statistics can now be downloaded conveniently at the same time in the FirstSpirit ServerMonitoring.  Further information can be found in chapter “Administration: ServerMonitoring: information concerning statistics can now be downloaded in ZIP format”.

## 7.29 SiteArchitect

ID	Description
CORE-11435	With use of the “Accept template changes” function, possible rule violations are now ignored on the pages to be updated. In the past, the process stopped with an <code>ElementValidationReportsException</code> when a relevant page indicated a rule violation.



## 7.30 Sessions

ID	Description
CORE-14265	An error was fixed that could lead to that additional sessions subject to licensing remained open when using the FirstSpirit ContentCreator.

## 7.31 Template Store

ID	Description
CORE-11435	With use of the “Accept template changes” function, possible rule violations are now ignored on the pages to be updated. In the past, the process stopped with an <code>ElementValidationReportsException</code> when a relevant page indicated a rule violation.

## 7.32 Template Development

ID	Description
CORE-11435	With use of the “Accept template changes” function, possible rule violations are now ignored on the pages to be updated. In the past, the process stopped with an <code>ElementValidationReportsException</code> when a relevant page indicated a rule violation.

