



# FirstSpirit™

*Unlock Your Content*

## Release Notes

### FirstSpirit™ 2019-04

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e-Spirit

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## 1 Administration / Modules

### 1.1 Changed directory for the FirstSpirit Template Debugger

The FirstSpirit Template Debugger both supports software-based troubleshooting in the HTML code and helps the developer when new templates are being developed or existing templates are being expanded.

Due to user access rights the data generated by the Debugger is no longer saved in the user profile directory `.fsdebugger`:

```
C:\Users\USERNAME\.fsdebugger
```

Instead, the data is now saved in the directory which is configured via the parameter `CLIENT_HOME_DIR` in the file `fs-server.conf`. By default this is the subdirectory

```
.firstspirit_5.2R<Version>
```

in the user home directory.

If the debugger was used **before an update to FirstSpirit 2019-04** and the data it generated is still required, the corresponding directory must be moved to the new location.

#### Example:

For the project with the ID 12345, the directory

```
~/fsdebugger/p12345
```

must be moved to

```
~/firstspirit_5.2R1904/fsdebugger/p12345
```

If the standard user home directory of FirstSpirit is used (`.firstspirit_*`), this changes with each FirstSpirit release. If corresponding configurations are required beyond a FirstSpirit version change, either a separate user home directory should be defined (e.g. via the parameter `CLIENT_HOME_DIR_WINDOWS=C:/fstemp`), or the corresponding configuration directory must be moved each time.



If the data generated by the Debugger is no longer needed, the directory `~/ .fsdebugger` can be deleted.

Each time SiteArchitect or ServerManager are started, all `.firstspirit_*` directories in which no file has been changed for 30 days are deleted. As of FirstSpirit 2019-04, this also applies to the `.fsdebugger` directories.

## 2 External Synchronization / Content Transport

### 2.1 New export format (version 3.2)

“External synchronization” is used to export substructures from FirstSpirit (e.g., templates, project properties) to a file system structure with a folder hierarchy. This functionality is used for distributed project development with several team members. Each team member works in their own local FirstSpirit development environment (with a local server and their own database). An export format which identifies project content by means of unique identifiers (UUIDs) is used for exchanging and synchronizing data.

The export format for the “External synchronization” and “Feature transport” functionalities has been improved with the latest FirstSpirit release.

#### Previous behavior

Database content was previously identified using a unique identifier for the database during synchronization.

This could cause problems during the transportation of schemata and/or entities if different database systems (e.g., Oracle and MySQL) were used during the distributed development process and there were different restrictions relating to the maximum length of designations (particularly column names) for these databases. This meant that the unique identifiers could change during synchronization and that synchronization was no longer possible without issues.

#### New behavior

Tables and column names are no longer assigned internally using the unique database identifiers. Instead, separate unique identifiers (UUIDs) which are specific to FirstSpirit are used (similar to FirstSpirit templates). This guarantees a unique assignment during synchronization, even across different database systems.



! After an update or upgrade to FirstSpirit 2019-04, the project in question must be fully exported so that the format changes take effect. The method `setDeleteObsoleteFiles` must be set to `true` in the process. (This is the default setting when using FSDevTools.)

! Downgrading FirstSpirit versions which use the new export format (to versions which use the old export format) is not supported. In such cases, please contact e-Spirit directly.

If you attempt to use the new export format (from version 3.2 onwards) with an older version of FirstSpirit, an error will be recorded:

```
ERROR Import operation not successful
de.espirit.firstspirit.store.access.nexport.exceptions.SyncOperationException:
  [ExternalSync - Import] failed: Unsupported export version '3.2' for element:
  ContentStore
```

### 3 FragmentCreator

#### 3.1 Duplicating fragments

With the new release, fragments can now be duplicated.

To do this, you can use the new icon in the flyout menu of the fragment in question in the fragment list:



Clicking on the icon directly creates a copy of the fragment with all variants. It can be edited directly.

The previous icons in the flyout menu for “Request deletion” and “New Fragment” had no function and have been removed in this context.

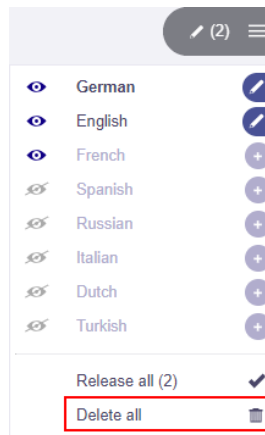
Fragments are created using the



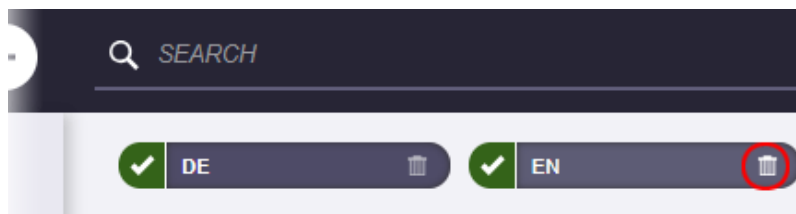
icon in the title bar.



You can delete fragments or variants using the “Delete all” function in the variant selection



or you can delete variants individually:



### 3.2 Behaviour in multi-user operation, locking forms

Variants cannot be edited by several editors at the same time.

If a variant was edited by an editor A while it is displayed to an editor B in the editing area, changes made by editor B may not be displayed directly.

In order to prevent data loss and to ensure that each editor always works with the latest version of the variant, all input elements of the variant are locked in the editing area (also known as “forms”) if changes have been made by another editor and the view has not yet been updated.

The following message is output:

```
The changes can not be saved - the element was modified on server.
```

Clicking on



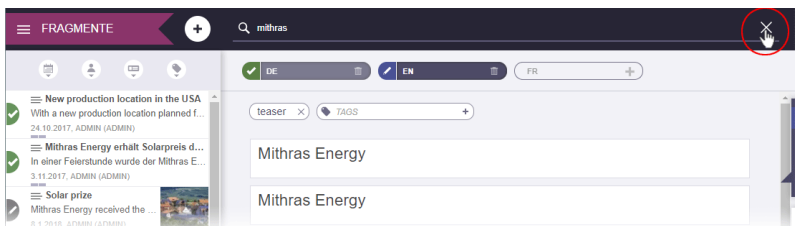
CONFLICTING CHANGES! Click here to reload.

updates the view and the variant can be edited again.

### 3.3 Resetting the search

You can carry out a full-text search for existing fragments/variants using the search field of the FirstSpirit FragmentCreator in the title bar.

With the latest release, the process of resetting the search has been simplified – this can now be done using the X icon:



Click to display all fragments/variants in the list again. Existing filter settings remain in place.

## 4 SiteArchitect / ServerManager

### 4.1 GUI changes for the Integrated Preview in SiteArchitect

The option to select different browser or graphics engines has been removed. In the project settings, the administrator can only specify whether or not an editor should have access to the Integrated Preview for content and/or media.

#### Changes in FirstSpirit ServerManager

The administrator can define in the project settings under “Client applications”, which view options should be available to a SiteArchitect editor.

#### Integrated Preview tab: Content

Activate option for integrated preview for content:





If this option is **enabled** (default setting), the menu function “View” / “Integrated Preview - use for content” can be selected in SiteArchitect for the active project, which means that editors can select individually whether or not they want to work with the integrated preview or not.

If this option is **disabled**, the menu function “View” / “Integrated Preview - use for content” is not available in SiteArchitect for this project.

### **Integrated Preview tab: Media**

#### Activate option for integrated preview for media:

If this option is **enabled** (default setting), the menu function “View” / “Integrated Preview - use for media” can be selected in SiteArchitect for the active project, which means that editors can select individually whether they want to work with the integrated preview or not.

If this option is **disabled**, the menu function “View” / “Integrated Preview - use for content” is not available in SiteArchitect for this project.

#### Activate advanced media editing:

If the option “Integrated Preview for Media” is **enabled** (default setting), the option “Activate advanced media editing” can be enabled additionally (default setting). Activating this option allows editors to edit media displayed in Integrated Preview using the “Advanced Image Editing” function.

If this option is **disabled**, “Advanced Image Editing for Media” is not available in Integrated Preview.

### **Changes in FirstSpirit SiteArchitect**

In the “View” menu the options for using the Integrated Preview have been changed. The editor can only select whether or not to use the Integrated Preview for content and/or media.

- **Integrated Preview**
  - use for content

If this option is enabled, the Integrated Preview is used for objects from the Page Store and the Site Store.
  - use for media

If this option is enabled, the Integrated Preview is used for media. Depending on the project properties configuration, Advanced Image Editing is also available in the Integrated Preview.



## 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 FS_LIST	5.2R3	
FirstSpirit Developer API: de.espirit.firstspirit.agency.GroupsAgent	5.2R15	
FirstSpirit Access API: delete (de.espirit.firstspirit.access.AccessUtil)	5.2R18	
Windows installation program	2018-06	
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.serverConfiguration)	2018-10	



Functionality	Deprecated as of	Will be removed/ Was removed as of
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	

## 6 Overview

ID	Description	Categories
CORE-9108	If a project is exported with a revision limit, the correct date of the revision used is now issued in the log again.	FirstSpirit Administrator, Project export / import
CORE-9425	The export format for external synchronization and feature transport has been changed.  Further information can be found in chapter “External Synchronization / Content Transport: New export format (version 3.2)”.	External synchronization
CORE-9701	How changes are notified within FirstSpirit has been optimized, making the process quicker and more reliable.	ContentCreator, Performance, SiteArchitect



ID	Description	Categories
CORE-10204	GUI changes for the “Integrated Preview” in SiteArchitect  Further information can be found in chapter “SiteArchitect / ServerManager: GUI changes for the Integrated Preview in SiteArchitect”.	Preview, ServerManager, SiteArchitect
CORE-10360	If the spell checker was activated in the input component CMS_INPUT_DOM, a malfunction could occur if the project language used contained a hyphen in the language abbreviation.	ContentCreator
CORE-10377	Problems with the validation of language-independent subforms have been fixed.	ContentCreator, Dynamic Forms, Editor, SiteArchitect
CORE-10443	Changed directory for the FirstSpirit Template Debugger.  Further information can be found in chapter “Administration / Modules: Changed directory for the FirstSpirit Template Debugger”.	FirstSpirit Administrator
CORE-10496	A potential memory leak in FirstSpirit web applications has been rectified.	FirstSpirit Administrator
CORE-10508	When queries were used in the FS_INDEX input component, this could cause erroneous behavior when the value set was modified using rules.	ContentCreator
CORE-10521	Unnecessary <code>Environment</code> is closed Berkeley database warnings could be issued in the <code>fs-server.log</code> file.	FirstSpirit Administrator
CORE-10540	The consideration of existing master copies has been optimized during the creation of a new section if there is just one permitted section template.	ContentCreator
CORE-10553	Classloading has been improved for method calls in templates when the underlying objects originate from modules.	Module development, Template Development
CORE-10568	In rare cases, module log outputs were not recorded if the modules used Apache Commons Logging or included it as a library.	FirstSpirit Administrator, Module development
CORE-10593	After a section had been defined as a master copy, the EasyEdit toolbar could display an error.	ContentCreator



ID	Description	Categories
CORE-10596	The autocompletion of rules has been optimized.	SiteArchitect, Template Development
CXT-87	After having deleted a variant, it was possible that the corresponding fragment was no longer displayed in the fragment list.	Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-94	In CXT projects, referential integrity is now also ensured for cross-project fragment references.	FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-223	The user prompting has been improved for deleting fragments.	FragmentCreator
CXT-228	<p>With the new release, fragments can now be duplicated.</p> <p>Further information can be found in chapter “FragmentCreator: Duplicating fragments”.</p>	Editor, FragmentCreator
CXT-247	<p>Editing variants with several editors was optimized.</p> <p>Further information can be found in chapter “FragmentCreator: Behaviour in multi-user operation, locking forms”.</p>	Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-558	<p>With the latest release, the process of resetting the search has been simplified.</p> <p>Further information can be found in chapter “FragmentCreator: Resetting the search”.</p>	Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Search
CXT-566	After starting a release workflow on a variant, it was erroneously possible to edit the form further. This could lead to a malfunction.	FragmentCreator
CXT-576	<p>Work with the Quill Markdown Editor has been improved.</p> <p>The “Quill” integration is currently in the EAP status (“Early Access Program”).</p>	Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator



## 7 Categories

### 7.1 ContentCreator

ID	Description
CORE-9701	How changes are notified within FirstSpirit has been optimized, making the process quicker and more reliable.
CORE-10360	If the spell checker was activated in the input component CMS_INPUT_DOM, a malfunction could occur if the project language used contained a hyphen in the language abbreviation.
CORE-10377	Problems with the validation of language-independent subforms have been fixed.
CORE-10508	When queries were used in the FS_INDEX input component, this could cause erroneous behavior when the value set was modified using rules.
CORE-10540	The consideration of existing master copies has been optimized during the creation of a new section if there is just one permitted section template.
CORE-10593	After a section had been defined as a master copy, the EasyEdit toolbar could display an error.

### 7.2 Dynamic Forms

ID	Description
CORE-10377	Problems with the validation of language-independent subforms have been fixed.

### 7.3 External synchronization

ID	Description
CORE-9425	<p>The export format for external synchronization and feature transport has been changed.</p> <p>Further information can be found in chapter “External Synchronization / Content Transport: New export format (version 3.2)”.</p>



## 7.4 FirstSpirit Content Experience Tools (CXT)

ID	Description
CXT-87	After having deleted a variant, it was possible that the corresponding fragment was no longer displayed in the fragment list.
CXT-94	In CXT projects, referential integrity is now also ensured for cross-project fragment references.
CXT-247	Editing variants with several editors was optimized.  Further information can be found in chapter “FragmentCreator: Behaviour in multi-user operation, locking forms”.
CXT-558	With the latest release, the process of resetting the search has been simplified.  Further information can be found in chapter “FragmentCreator: Resetting the search”.
CXT-576	Work with the Quill Markdown Editor has been improved.  The “Quill” integration is currently in the EAP status (“Early Access Program”).

## 7.5 FirstSpirit Administrator

ID	Description
CORE-9108	If a project is exported with a revision limit, the correct date of the revision used is now issued in the log again.
CORE-10443	Changed directory for the FirstSpirit Template Debugger.  Further information can be found in chapter “Administration / Modules: Changed directory for the FirstSpirit Template Debugger”.
CORE-10496	A potential memory leak in FirstSpirit web applications has been rectified.
CORE-10521	Unnecessary <code>Environment</code> is closed Berkeley database warnings could be issued in the <code>fs-server.log</code> file.
CORE-10568	In rare cases, module log outputs were not recorded if the modules used Apache Commons Logging or included it as a library.



## 7.6 FragmentCreator

ID	Description
CXT-87	After having deleted a variant, it was possible that the corresponding fragment was no longer displayed in the fragment list.
CXT-94	In CXT projects, referential integrity is now also ensured for cross-project fragment references.
CXT-223	The user prompting has been improved for deleting fragments.
CXT-228	With the new release, fragments can now be duplicated.  Further information can be found in chapter “FragmentCreator: Duplicating fragments”.
CXT-247	Editing variants with several editors was optimized.  Further information can be found in chapter “FragmentCreator: Behaviour in multi-user operation, locking forms”.
CXT-558	With the latest release, the process of resetting the search has been simplified.  Further information can be found in chapter “FragmentCreator: Resetting the search”.
CXT-566	After starting a release workflow on a variant, it was erroneously possible to edit the form further. This could lead to a malfunction.
CXT-576	Work with the Quill Markdown Editor has been improved.  The “Quill” integration is currently in the EAP status (“Early Access Program”).

## 7.7 Module development

ID	Description
CORE-10553	Classloading has been improved for method calls in templates when the underlying objects originate from modules.
CORE-10568	In rare cases, module log outputs were not recorded if the modules used Apache Commons Logging or included it as a library.





## 7.8 Performance

ID	Description
CORE-9701	How changes are notified within FirstSpirit has been optimized, making the process quicker and more reliable.

## 7.9 Project export / import

ID	Description
CORE-9108	If a project is exported with a revision limit, the correct date of the revision used is now issued in the log again.

## 7.10 Editor

ID	Description
CORE-10377	Problems with the validation of language-independent subforms have been fixed.
CXT-87	After having deleted a variant, it was possible that the corresponding fragment was no longer displayed in the fragment list.
CXT-228	With the new release, fragments can now be duplicated.  Further information can be found in chapter "FragmentCreator: Duplicating fragments".
CXT-247	Editing variants with several editors was optimized.  Further information can be found in chapter "FragmentCreator: Behaviour in multi-user operation, locking forms".
CXT-558	With the latest release, the process of resetting the search has been simplified.  Further information can be found in chapter "FragmentCreator: Resetting the search".
CXT-576	Work with the Quill Markdown Editor has been improved.  The "Quill" integration is currently in the EAP status ("Early Access Program").



## 7.11 ServerManager

ID	Description
CORE-10204	<p>GUI changes for the “Integrated Preview” in SiteArchitect</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: GUI changes for the Integrated Preview in SiteArchitect ”.</p>

## 7.12 SiteArchitect

ID	Description
CORE-9701	How changes are notified within FirstSpirit has been optimized, making the process quicker and more reliable.
CORE-10204	<p>GUI changes for the “Integrated Preview” in SiteArchitect</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: GUI changes for the Integrated Preview in SiteArchitect ”.</p>
CORE-10377	Problems with the validation of language-independent subforms have been fixed.
CORE-10596	The autocompletion of rules has been optimized.

## 7.13 Search

ID	Description
CXT-558	<p>With the latest release, the process of resetting the search has been simplified.</p> <p>Further information can be found in chapter “FragmentCreator: Resetting the search”.</p>



## 7.14 Template Development

ID	Description
CORE-10553	Classloading has been improved for method calls in templates when the underlying objects originate from modules.
CORE-10596	The autocompletion of rules has been optimized.

## 7.15 Preview

ID	Description
CORE-10204	GUI changes for the “Integrated Preview” in SiteArchitect  Further information can be found in chapter “SiteArchitect / ServerManager: GUI changes for the Integrated Preview in SiteArchitect ”.

