



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2019-07

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Table of contents

- 1 Administration..... 5**
 - 1.1 Projekt export/import, external Synchronization, ContentTransport: Behavior of self-referencing remote connections..... 5

- 2 General..... 5**
 - 2.1 Code signing certificate updated..... 5

- 3 Input components..... 5**
 - 3.1 FS_LIST will be removed as of 01/01/2020..... 5

- 4 FirstSpirit Content Experience Tools (CXT)..... 5**
 - 4.1 Latest module versions..... 5
 - 4.2 Release of FragmentCreator and availability in the cloud / SaaS..... 6
 - 4.3 Markdown editor "Quill" ist now default..... 7
 - 4.4 Access to tags and IDs of variants..... 8

- 5 Module Development, Scripts, API..... 9**
 - 5.1 Interface "ModuleAdminAgent": Extended methods for installing/updating/ deploying..... 9

- 6 SiteArchitect / ServerManager..... 10**
 - 6.1 Connection settings: Optional parameter "connectionValidationMillis"..... 10

- 7 System..... 10**
 - 7.1 Update of internally used software..... 10

- 8 Deprecations..... 11**



- 9 Overview..... 12**
- 10 Categories..... 16**
 - 10.1 Clustering..... 16
 - 10.2 Content Transport..... 16
 - 10.3 ContentCreator..... 17
 - 10.4 Database..... 17
 - 10.5 Content Store..... 17
 - 10.6 Dynamic Forms..... 18
 - 10.7 Input Components..... 18
 - 10.8 Developer..... 18
 - 10.9 External synchronization..... 19
 - 10.10 FirstSpirit Content as a Service (CaaS)..... 19
 - 10.11 FirstSpirit Content Experience Tools (CXT)..... 20
 - 10.12 FirstSpirit home page..... 21
 - 10.13 FirstSpirit Administrator..... 21
 - 10.14 FirstSpirit API..... 22
 - 10.15 FragmentCreator..... 23
 - 10.16 Generation..... 23
 - 10.17 Integrated software..... 24
 - 10.18 Module development..... 24
 - 10.19 Modules..... 24



10.20	Performance.....	25
10.21	Editor.....	25
10.22	Remote access.....	26
10.23	Reports.....	26
10.24	Server Administrator.....	26
10.25	ServerManager.....	26
10.26	SiteArchitect.....	27
10.27	Sessions.....	27
10.28	Template Development.....	27
10.29	Web server.....	28
10.30	Webstart.....	28



1 Administration

1.1 Projekt export/import, external Synchronization, ContentTransport: Behavior of self-referencing remote connections

If a project has remote connections to itself (“self-referencing”), these are now automatically adapted during a project export and import so that they continue to point to the same project (= the project that was imported) after the import. They are therefore still self-referencing.

This behavior also applies when using external synchronization or ContentTransport.

2 General

2.1 Code signing certificate updated

The content of FirstSpirit JAR files is signed with a certificate. This procedure is also called “code signing”. In the current FirstSpirit release, the content is signed with a new certificate that is valid until 08/23/2021.

3 Input components

3.1 FS_LIST will be removed as of 01/01/2020

The input component for creating and managing lists FS_LIST was deprecated with FirstSpirit 5.2R3.

It will be removed as of 01/01/2020.

The input components FS_CATALOG and FS_INDEX can be used as replacements.

4 FirstSpirit Content Experience Tools (CXT)

4.1 Latest module versions

FirstSpirit 2019-07 supports the following module versions for “FirstSpirit Content Experience Tools”:

Module / file name	Version number
FirstSpirit DAP Bridge	1.18
<code>dataservice-[version].fsm</code>	



FirstSpirit FragmentCreator	1.23
<code>fragment-creator-[version].fsm</code>	
FirstSpirit Fragment DAP	1.15
<code>fragmentdap-[version].fsm</code>	
FirstSpirit Media DAP	1.14
<code>mediadap-[version].fsm</code>	
FirstSpirit Markdown	1.12
<code>markdown-editor-[version].fsm</code>	
FirstSpirit Tagging Editor	1.12
<code>tagging-editor-[version].fsm</code>	
FirstSpirit FragmentCreator - Caas Integration	1.9
<code>caas-integration-[version].fsm</code>	

4.2 Release of FragmentCreator and availability in the cloud / SaaS

Release

FragmentCreator is now officially released, the ramp-up- / EAP-phase has been finished.

The new client passed extensive internal quality assurance tests and was tested in real customer scenarios. With the release the FragmentCreator officially becomes another product of the FirstSpirit family. It can be operated stably and is subject to the general maintenance regulations of e-Spirit. Bugs can - as with other e-Spirit software products - be reported regularly to e-Spirit Technical Support (<https://help.e-spirit.com>).

The associated **documentation** can be accessed via the left navigation column in the *FirstSpirit Online Documentation* ("ODFS", menu item "Documentation 'Content Experience Tools'"). The online documentation is available on every local server (on the FirstSpirit startpage: "Help" icon, in the clients: "Help" menus) or at docs.e-spirit.com.

The underlying CXT platform, on which FragmentCreator is based, is currently being further developed. The release of this platform is planned for a future release.

Availability in the cloud

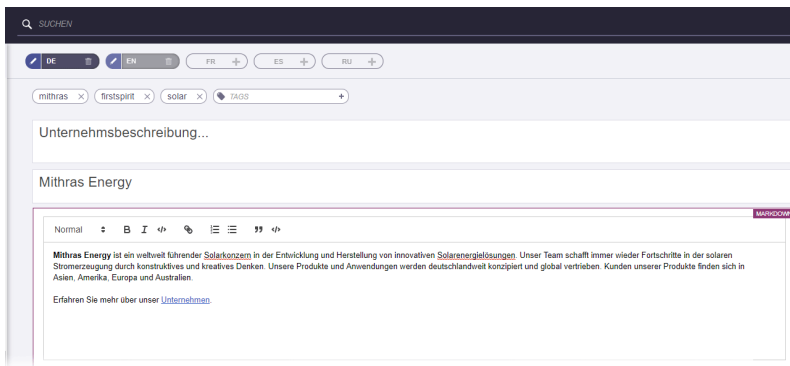
FirstSpirit is also increasingly being hosted in a SaaS model. The costs and responsibility for providing and updating the infrastructure lie with an external service provider. (More information on this topic can be found in the blog entry [FirstSpirit in the Cloud](#).)

FragmentCreator is now also available in the FirstSpirit cloud and can then be used by customers who use FirstSpirit Cloud.



4.3 Markdown editor "Quill" ist now default

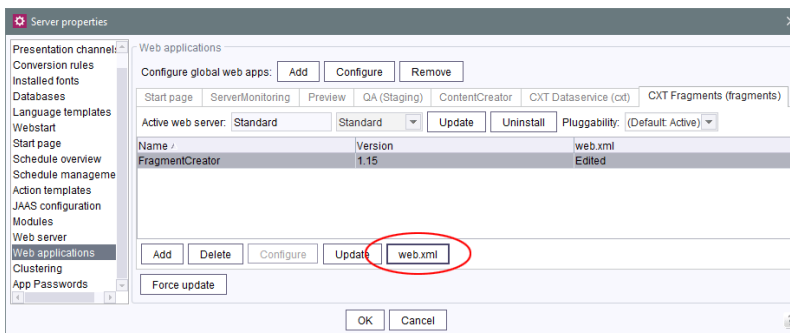
The Markdown editor "Quill" (<https://quilljs.com>) introduced with FirstSpirit 2019-03 is now used by default for the input component FS_MARKDOWN and thus replaces "SimpleMDE" as the default:



"Quill" offers more WYSIWYG comfort and thus a better user experience for the editor. The more technical "SimpleMDE" editor can still be used if required. An evaluation of other suitable editors is also planned.

Configuration

Which Markdown editor is to be used can be defined via the `web.xml` file of the WebApp component "FragmentCreator", which is configured in the appropriate global WebApp for the FragmentCreator ("FirstSpirit ServerManager / Server properties / Web applications"):



As of the current release, the following code snippet is contained in the `web.xml` file by default:



```
<!--  
  The markdown editor to be used in this FragmentCreator instance.  
  Set to "simplemde" or "quill" to use respective editor. Set to "default"  
  to use the default markdown editor.  
-->  
<context-param>  
  <param-name>markdownEditorType</param-name>  
  <param-value>default</param-value>  
</context-param>
```

This means that the standard markdown editor is used (currently “Quill”).

If this section is missing in the relevant `web.xml` file in existing FirstSpirit installations, the standard markdown editor is now used, too.

If the value `quill` is specified, “Quill” will be used explicitly in case of a potential future system-side change of the `web.xml` file.

If “SimpleMDE” is to be used, the value `default` must be replaced by the value `simplemde`.

4.4 Access to tags and IDs of variants

The `Variant` interface, which can be used to determine information from variants, has been enhanced by the following methods:

- `getId()` (in Beany syntax: `.id`): returns the ID of a variant
- `getTags()` (in Bean syntax: `.tags`): returns the tags of a variant as a `Collection`

Example:

```
$CMS_FOR(_fragments, fragments.values)$  
$CMS_FOR(variant, _fragments.variants({:}))$  
$CMS_VALUE("Title: " + variant.title)$<br />  
$CMS_VALUE("Id: " + variant.id)$<br />  
$CMS_VALUE("Tags: " + variant.tags)$<br />  
$CMS_END_FOR$  
$CMS_END_FOR$
```

where `fragments` is the identifier of the `FS_INDEX` component via which the fragments / variants are selected.



Exemplary output:

```
Title: Hans Energie (CEO)
Id. 98d06f9f_6f40_4f80_8084_9c0fe25b1cd8
Tags: [#ceo, #teaser]
```

For more information please see Documentation for “FirstSpirit Content Experience Tools (CXT)”, “Templates / Defining fragments / Outputting content”.

5 Module Development, Scripts, API

5.1 Interface "ModuleAdminAgent": Extended methods for installing/ updating/deploying

The interface `ModuleAdminAgent` (package `de.espirit.firstspirit.agency`, FirstSpirit Developer API) has been extended with the current FirstSpirit release:

- `install(stream, updateUsages, deployWebApps)`:
Installs a module or updates it when it is already on the FirstSpirit server.
The new parameter **deployWebApps** can be used to define whether dependent web and / or project components should be rolled out (`true`) or not (`false`).
 - The existing method `install(stream, updateUsages)` delegates its call to the new method `install(stream, updateUsages, updateUsages)`
- `installWebApp(moduleName, webAppComponent, webAppId, deploy)`:
Installs a web / project component to a web application or updates it, and deploys it to the web server if the value of `deploy` is set to `true`.
 - The existing method `installWebapp(moduleName, webAppComponent, webAppId)` delegates its call to the new method `installWebApp(moduleName, webAppComponent, webAppId, true)`
- `deployWebApps(webAppIds)`:
Deploys a set of web applications on the relevant web servers.

Sample syntax for the method `install`:



```
import de.espirit.firstspirit.agency.UserServiceDelegatingSpecialistsBroker;  
import de.espirit.firstspirit.agency.*;  
moduleAdminAgent = context.requireSpecialist(ModuleAdminAgent.TYPE);  
file = new File("path/to/module.fsm");  
stream = new FileInputStream(file);  
moduleAdminAgent.install(stream, true, true);
```

Note: The corresponding API documentation (see e.g. *Online Documentation for FirstSpirit (ODFS)*, “Template development / FirstSpirit API / API documentation”) will be published with the next release of FirstSpirit, however, the new functionality may already be used as of the current FirstSpirit release.

6 SiteArchitect / ServerManager

6.1 Connection settings: Optional parameter "connectionValidationMillis"

In the connection settings, the optional parameter `connectionValidationMillis` can be used to define after which inactivity time in milliseconds the connection to SiteArchitect and ServerManager is to be checked before it is used again. Default value is `5000` (= 5 seconds).

Setting this parameter can make sense when you encounter frequent connection losses.

7 System

7.1 Update of internally used software

With the current FirstSpirit release, the following, internally used software has been updated:

- **Eclipse Jetty** (contained in the module `fs-jetty.fsm` / “FirstSpirit Jetty Service”) Update from version 9.4.18 to version 9.4.19



As before, use of Eclipse Jetty for production purposes is not recommended!



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 FS_LIST	5.2R3	January 2020
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	
Java 8 support for FirstSpirit	2019-05	
WebSphere Application Server support for FirstSpirit	2019-05	
Solaris support for FirstSpirit	2019-06	October 2019
AIX support for FirstSpirit	2019-06	October 2019
Legacy mode for the FirstSpirit server and module development	2019-06	

9 Overview

ID	Description	Categories
CORE-9545	The visualisation of the component for hierarchically structured data in FirstSpirit ContentCreator has been improved.	ContentCreator, Developer, Editor, Input Components, Modules



ID	Description	Categories
CORE-10637	<p>The interface <code>ModuleAdminAgent</code> (package <code>de.espirit.firstspirit.agency</code>, FirstSpirit Developer API) has been extended with the current FirstSpirit release.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Interface “ModuleAdminAgent”: Extended methods for installing/updating/deploying”.</p>	Developer, FirstSpirit API, Module development, Modules
CORE-10697	<p>In rare cases, session terminations could occur when editing dialogs in ContentCreator were open (error message: <code>Failed to save this form. Reason: unknown form session: 1031063268</code>).</p> <p>The editor will now be informed about this in the editing dialog.</p>	ContentCreator, Editor, FirstSpirit Administrator
CORE-10744	A problem has been solved which could cause an unneeded Derby layer to be created in the target project when using external synchronization.	External synchronization
CORE-10746	Fixed a bug that in very rare cases could cause items added to the folder to disappear when restoring items.	Editor, SiteArchitect
CORE-10769	<p>Self-referencing remote connections are now adjusted when a project is exported or imported so that they continue to point to the same project after the import.</p> <p>Further information can be found in chapter “Administration: Projekt export/import, external Synchronization, ContentTransport: Behavior of self-referencing remote connections”.</p>	Content Transport, External synchronization, FirstSpirit Administrator, Remote access, ServerManager
CORE-10796	Using the class <code>CsvReader</code> (FirstSpirit Developer API, Package <code>de.espirit.common.util</code>) could result in a malfunction when reading a non-valid file.	FirstSpirit API
CORE-10798	A bug has been fixed that in rare cases could cause the release status of a linked dataset to be deleted when deleting a dataset.	Content Store, Database
CORE-10884	Historical versions can now be displayed again in FirstSpirit ContentCreator.	ContentCreator, Editor, Reports
CORE-10935	The file permissions of some files in the installation archive have been changed.	FirstSpirit Administrator



ID	Description	Categories
CORE-10947	<p>The optional parameter <code>connectionValidationMillis</code> can be used within the connection settings to define in which interval a connection from an application (SiteArchitect, ServerManager) to the server should be validated, before being used again.</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: Connection settings: Optional parameter “connectionValidationMillis””.</p>	FirstSpirit Administrator, FirstSpirit home page
CORE-10949	<p>In the current FirstSpirit release, updated internally used software.</p> <p>Further information can be found in chapter “System: Update of internally used software”.</p>	Integrated software
CORE-10958	Temporarily, Clustering potentially did not work correctly.	Clustering, FirstSpirit Administrator, Generation
CORE-10964	<p>The content of FirstSpirit JAR files is signed with a certificate. In the current FirstSpirit version, the content is signed with a new certificate that is valid until 2021-08-23 (23 August 2021).</p> <p>Further information can be found in chapter “General: Code signing certificate updated”.</p>	Webstart
CORE-10970	<p>FS_LIST will be removed as of 01/01/2020.</p> <p>Further information can be found in chapter “Input components: FS_LIST will be removed as of 01/01/2020”.</p>	ContentCreator, Developer, Input Components, SiteArchitect, Template Development
CXT-572	<p>Access to tags and IDs of variants</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Access to tags and IDs of variants”.</p>	Developer, FirstSpirit API, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-609	The referential integrity of cross-project media references using FirstSpirit MediaDAP was optimized.	FirstSpirit Content Experience Tools (CXT)



ID	Description	Categories
CXT-674	Threads started by FragmentCreator are now terminated correctly when terminating the web application. In this way, resource problems during multiple re-deployment without restarting the application server could be resolved.	FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), Sessions, Web server
CXT-683	Users with server admin rights, who are not registered as a project user in a Fragment project, cannot open such projects in FragmentCreator anymore.	FirstSpirit Content Experience Tools (CXT), FragmentCreator, Server Administrator
CXT-699	With the current release the session handling for FirstSpirit CXT has been improved. Previously, actions in FragmentCreator could lead to the creation of unnecessary sessions and thus possibly to performance losses.	FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), Performance, Sessions
CXT-701 CXT-691	Improved visualization and evaluation of rules (“Dynamic forms”) in FragmentCreator.	Developer, Dynamic Forms, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Template Development
CXT-731	Incorrect behavior could occur when displaying icons for editing referenced fragments.	ContentCreator, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-739	A problem has been solved which could prevent the editing of fragments using MicroApp.	FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-749	Release of FragmentCreator and availability in the cloud Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Release of FragmentCreator and availability in the cloud / SaaS”.	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Template Development



ID	Description	Categories
CXT-751	Temporarily, variants in FragmentCreator and ContentCreator could not be deleted using the corresponding icon in the MicroApp dialog.	ContentCreator, Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-752	The previously optional Markdown editor “Quill” is now default. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Markdown editor "Quill" ist now default”.	Editor, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Input Components, Modules
CXT-776	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.	FirstSpirit Administrator, FirstSpirit Content as a Service (CaaS), Modules

10 Categories

10.1 Clustering

ID	Description
CORE-10958	Temporarily, Clustering potentially did not work correctly.

10.2 Content Transport

ID	Description
CORE-10769	Self-referencing remote connections are now adjusted when a project is exported or imported so that they continue to point to the same project after the import. Further information can be found in chapter “Administration: Projekt export/import, external Synchronization, ContentTransport: Behavior of self-referencing remote connections”.



10.3 ContentCreator

ID	Description
CORE-9545	The visualisation of the component for hierarchically structured data in FirstSpirit ContentCreator has been improved.
CORE-10697	In rare cases, session terminations could occur when editing dialogs in ContentCreator were open (error message: Failed to save this form. Reason: unknown form session: 1031063268). The editor will now be informed about this in the editing dialog.
CORE-10884	Historical versions can now be displayed again in FirstSpirit ContentCreator.
CORE-10970	FS_LIST will be removed as of 01/01/2020. Further information can be found in chapter "Input components: FS_LIST will be removed as of 01/01/2020".
CXT-731	Incorrect behavior could occur when displaying icons for editing referenced fragments.
CXT-751	Temporarily, variants in FragmentCreator and ContentCreator could not be deleted using the corresponding icon in the MicroApp dialog.

10.4 Database

ID	Description
CORE-10798	A bug has been fixed that in rare cases could cause the release status of a linked dataset to be deleted when deleting a dataset.

10.5 Content Store

ID	Description
CORE-10798	A bug has been fixed that in rare cases could cause the release status of a linked dataset to be deleted when deleting a dataset.



10.6 Dynamic Forms

ID	Description
CXT-701	Improved visualization and evaluation of rules ("Dynamic forms") in FragmentCreator.
CXT-691	

10.7 Input Components

ID	Description
CORE-9545	The visualisation of the component for hierarchically structured data in FirstSpirit ContentCreator has been improved.
CORE-10970	FS_LIST will be removed as of 01/01/2020. Further information can be found in chapter "Input components: FS_LIST will be removed as of 01/01/2020".
CXT-752	The previously optional Markdown editor "Quill" is now default. Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Markdown editor "Quill" ist now default".

10.8 Developer

ID	Description
CORE-9545	The visualisation of the component for hierarchically structured data in FirstSpirit ContentCreator has been improved.
CORE-10637	The interface <code>ModuleAdminAgent</code> (package <code>de.espirit.firstspirit.agency</code> , FirstSpirit Developer API) has been extended with the current FirstSpirit release. Further information can be found in chapter "Module Development, Scripts, API: Interface "ModuleAdminAgent": Extended methods for installing/updating/deploying".
CORE-10970	FS_LIST will be removed as of 01/01/2020.



ID	Description
	Further information can be found in chapter “Input components: FS_LIST will be removed as of 01/01/2020”.
CXT-572	Access to tags and IDs of variants Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Access to tags and IDs of variants”.
CXT-701 CXT-691	Improved visualization and evaluation of rules (“Dynamic forms”) in FragmentCreator.
CXT-749	Release of FragmentCreator and availability in the cloud Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Release of FragmentCreator and availability in the cloud / SaaS”.

10.9 External synchronization

ID	Description
CORE-10744	A problem has been solved which could cause an unneeded Derby layer to be created in the target project when using external synchronization.
CORE-10769	Self-referencing remote connections are now adjusted when a project is exported or imported so that they continue to point to the same project after the import. Further information can be found in chapter “Administration: Projekt export/import, external Synchronization, ContentTransport: Behavior of self-referencing remote connections”.

10.10 FirstSpirit Content as a Service (CaaS)

ID	Description
CXT-776	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.



10.11 FirstSpirit Content Experience Tools (CXT)

ID	Description
CXT-572	<p>Access to tags and IDs of variants</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Access to tags and IDs of variants”.</p>
CXT-609	The referential integrity of cross-project media references using FirstSpirit MediaDAP was optimized.
CXT-674	Threads started by FragmentCreator are now terminated correctly when terminating the web application. In this way, resource problems during multiple re-deployment without restarting the application server could be resolved.
CXT-683	Users with server admin rights, who are not registered as a project user in a Fragment project, cannot open such projects in FragmentCreator anymore.
CXT-699	With the current release the session handling for FirstSpirit CXT has been improved. Previously, actions in FragmentCreator could lead to the creation of unnecessary sessions and thus possibly to performance losses.
CXT-701 CXT-691	Improved visualization and evaluation of rules (“Dynamic forms”) in FragmentCreator.
CXT-731	Incorrect behavior could occur when displaying icons for editing referenced fragments.
CXT-739	A problem has been solved which could prevent the editing of fragments using MicroApp.
CXT-749	<p>Release of FragmentCreator and availability in the cloud</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Release of FragmentCreator and availability in the cloud / SaaS”.</p>
CXT-751	Temporarily, variants in FragmentCreator and ContentCreator could not be deleted using the corresponding icon in the MicroApp dialog.
CXT-752	<p>The previously optional Markdown editor “Quill” is now default.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Markdown editor "Quill" ist now default”.</p>



10.12 FirstSpirit home page

ID	Description
CORE-10947	<p>The optional parameter <code>connectionValidationMillis</code> can be used within the connection settings to define in which interval a connection from an application (SiteArchitect, ServerManager) to the server should be validated, before being used again.</p> <p>Further information can be found in chapter "SiteArchitect / ServerManager: Connection settings: Optional parameter "connectionValidationMillis"".</p>

10.13 FirstSpirit Administrator

ID	Description
CORE-10697	<p>In rare cases, session terminations could occur when editing dialogs in ContentCreator were open (error message: Failed to save this form. Reason: unknown form session: 1031063268).</p> <p>The editor will now be informed about this in the editing dialog.</p>
CORE-10769	<p>Self-referencing remote connections are now adjusted when a project is exported or imported so that they continue to point to the same project after the import.</p> <p>Further information can be found in chapter "Administration: Projekt export/import, external Synchronization, ContentTransport: Behavior of self-referencing remote connections".</p>
CORE-10935	<p>The file permissions of some files in the installation archive have been changed.</p>
CORE-10947	<p>The optional parameter <code>connectionValidationMillis</code> can be used within the connection settings to define in which interval a connection from an application (SiteArchitect, ServerManager) to the server should be validated, before being used again.</p> <p>Further information can be found in chapter "SiteArchitect / ServerManager: Connection settings: Optional parameter "connectionValidationMillis"".</p>
CORE-10958	<p>Temporarily, Clustering potentially did not work correctly.</p>
CXT-674	<p>Threads started by FragmentCreator are now terminated correctly when terminating the web application. In this way, resource problems during multiple re-deployment without restarting the application server could be resolved.</p>



ID	Description
CXT-699	With the current release the session handling for FirstSpirit CXT has been improved. Previously, actions in FragmentCreator could lead to the creation of unnecessary sessions and thus possibly to performance losses.
CXT-749	Release of FragmentCreator and availability in the cloud Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Release of FragmentCreator and availability in the cloud / SaaS”.
CXT-752	The previously optional Markdown editor “Quill” is now default. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Markdown editor "Quill" ist now default”.
CXT-776	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

10.14 FirstSpirit API

ID	Description
CORE-10637	The interface <code>ModuleAdminAgent</code> (package <code>de.espirit.firstspirit.agency</code> , FirstSpirit Developer API) has been extended with the current FirstSpirit release. Further information can be found in chapter “Module Development, Scripts, API: Interface "ModuleAdminAgent": Extended methods for installing/updating/deploying”.
CORE-10796	Using the class <code>CsvReader</code> (FirstSpirit Developer API, Package <code>de.espirit.common.util</code>) could result in a malfunction when reading a non-valid file.
CXT-572	Access to tags and IDs of variants Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Access to tags and IDs of variants”.



10.15 FragmentCreator

ID	Description
CXT-572	Access to tags and IDs of variants Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Access to tags and IDs of variants”.
CXT-683	Users with server admin rights, who are not registered as a project user in a Fragment project, cannot open such projects in FragmentCreator anymore.
CXT-701 CXT-691	Improved visualization and evaluation of rules (“Dynamic forms”) in FragmentCreator.
CXT-731	Incorrect behavior could occur when displaying icons for editing referenced fragments.
CXT-739	A problem has been solved which could prevent the editing of fragments using MicroApp.
CXT-749	Release of FragmentCreator and availability in the cloud Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Release of FragmentCreator and availability in the cloud / SaaS”.
CXT-751	Temporarily, variants in FragmentCreator and ContentCreator could not be deleted using the corresponding icon in the MicroApp dialog.
CXT-752	The previously optional Markdown editor “Quill” is now default. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Markdown editor “Quill” ist now default”.

10.16 Generation

ID	Description
CORE-10958	Temporarily, Clustering potentially did not work correctly.



10.17 Integrated software

ID	Description
CORE-10949	In the current FirstSpirit release, updated internally used software. Further information can be found in chapter “System: Update of internally used software”.

10.18 Module development

ID	Description
CORE-10637	The interface <code>ModuleAdminAgent</code> (package <code>de.espirit.firstspirit.agency</code> , FirstSpirit Developer API) has been extended with the current FirstSpirit release. Further information can be found in chapter “Module Development, Scripts, API: Interface “ModuleAdminAgent”: Extended methods for installing/updating/deploying”.

10.19 Modules

ID	Description
CORE-9545	The visualisation of the component for hierarchically structured data in FirstSpirit ContentCreator has been improved.
CORE-10637	The interface <code>ModuleAdminAgent</code> (package <code>de.espirit.firstspirit.agency</code> , FirstSpirit Developer API) has been extended with the current FirstSpirit release. Further information can be found in chapter “Module Development, Scripts, API: Interface “ModuleAdminAgent”: Extended methods for installing/updating/deploying”.
CXT-752	The previously optional Markdown editor “Quill” is now default. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Markdown editor “Quill” ist now default”.
CXT-776	FirstSpirit Content Experience Tools: Latest module versions



ID	Description
	Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

10.20 Performance

ID	Description
CXT-699	With the current release the session handling for FirstSpirit CXT has been improved. Previously, actions in FragmentCreator could lead to the creation of unnecessary sessions and thus possibly to performance losses.

10.21 Editor

ID	Description
CORE-9545	The visualisation of the component for hierarchically structured data in FirstSpirit ContentCreator has been improved.
CORE-10697	In rare cases, session terminations could occur when editing dialogs in ContentCreator were open (error message: Failed to save this form. Reason: unknown form session: 1031063268). The editor will now be informed about this in the editing dialog.
CORE-10746	Fixed a bug that in very rare cases could cause items added to the folder to disappear when restoring items.
CORE-10884	Historical versions can now be displayed again in FirstSpirit ContentCreator.
CXT-751	Temporarily, variants in FragmentCreator and ContentCreator could not be deleted using the corresponding icon in the MicroApp dialog.
CXT-752	The previously optional Markdown editor “Quill” is now default. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Markdown editor "Quill" ist now default”.



10.22 Remote access

ID	Description
CORE-10769	Self-referencing remote connections are now adjusted when a project is exported or imported so that they continue to point to the same project after the import. Further information can be found in chapter “Administration: Projekt export/import, external Synchronization, ContentTransport: Behavior of self-referencing remote connections”.

10.23 Reports

ID	Description
CORE-10884	Historical versions can now be displayed again in FirstSpirit ContentCreator.

10.24 Server Administrator

ID	Description
CXT-683	Users with server admin rights, who are not registered as a project user in a Fragment project, cannot open such projects in FragmentCreator anymore.

10.25 ServerManager

ID	Description
CORE-10769	Self-referencing remote connections are now adjusted when a project is exported or imported so that they continue to point to the same project after the import. Further information can be found in chapter “Administration: Projekt export/import, external Synchronization, ContentTransport: Behavior of self-referencing remote connections”.



10.26 SiteArchitect

ID	Description
CORE-10746	Fixed a bug that in very rare cases could cause items added to the folder to disappear when restoring items.
CORE-10970	FS_LIST will be removed as of 01/01/2020. Further information can be found in chapter “Input components: FS_LIST will be removed as of 01/01/2020”.

10.27 Sessions

ID	Description
CXT-674	Threads started by FragmentCreator are now terminated correctly when terminating the web application. In this way, resource problems during multiple re-deployment without restarting the application server could be resolved.
CXT-699	With the current release the session handling for FirstSpirit CXT has been improved. Previously, actions in FragmentCreator could lead to the creation of unnecessary sessions and thus possibly to performance losses.

10.28 Template Development

ID	Description
CORE-10970	FS_LIST will be removed as of 01/01/2020. Further information can be found in chapter “Input components: FS_LIST will be removed as of 01/01/2020”.
CXT-701 CXT-691	Improved visualization and evaluation of rules (“Dynamic forms”) in FragmentCreator.
CXT-749	Release of FragmentCreator and availability in the cloud Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Release of FragmentCreator and availability in the cloud / SaaS”.



10.29 Web server

ID	Description
CXT-674	Threads started by FragmentCreator are now terminated correctly when terminating the web application. In this way, resource problems during multiple re-deployment without restarting the application server could be resolved.

10.30 Webstart

ID	Description
CORE-10964	The content of FirstSpirit JAR files is signed with a certificate. In the current FirstSpirit version, the content is signed with a new certificate that is valid until 2021-08-23 (23 August 2021). Further information can be found in chapter “General: Code signing certificate updated”.

