



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2019-02

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1 Administration

1.1 Removal of "InternalJetty"

As of FirstSpirit 2018-08, the functionality of the integrated Jetty server ("InternalJetty") is no longer supported.

As announced, this functionality will soon be removed entirely. All uses of "InternalJetty" should be migrated in a timely manner to alternative web server types that are recommended for use in production scenarios if this hasn't been carried out yet.

For further information, see (among others)

- FirstSpirit Community (<https://community.e-spirit.com/docs/DOC-2167>)
- "FirstSpirit Release Notes" for FirstSpirit 5.2R18
 - Chapter "Eclipse Jetty"
- "FirstSpirit Release Notes" for FirstSpirit 2018-09
 - Chapter "Migrating from the InternalJetty to a web server for productive use"
- "FirstSpirit Release Notes" for FirstSpirit 2018-10
 - Chapter "Usage of the 'InternalJetty' web server"

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

1.2 SSL Encryption: Modifications to "fs-server.conf"

For security reasons, the TLS Cipher Suite, which has been intended by FirstSpirit as a standard for internal communications until now, is no longer supported by Java 8u201, 8u202, 11.0.2, and higher.

In existing FirstSpirit installations, if the associated parameter `fs.ssl.cipherSuites` in the file `fs-server.conf` is still set to the value `TLS_DH_anon_WITH_AES_128_CBC_SHA`, this parameter must be removed manually or its value must be adjusted, otherwise FirstSpirit SiteArchitect and web applications may no longer be able to start. To ensure secure encryption, the first step is to install a trustworthy certificate (via a certificate store) and then configure the `DEFAULT` value at this point. See



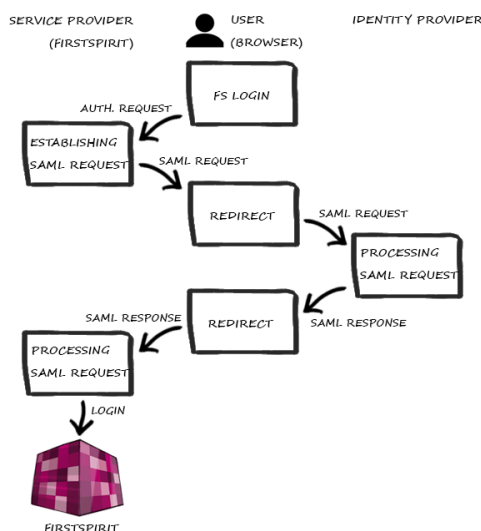
also *FirstSpirit Manual for Administrators*, “FirstSpirit Server configuration / Configuration files (FirstSpirit Server) / FirstSpirit Server (fs-server.conf) / SSL Parameters”.

FirstSpirit-side, the default value of the parameter `fs.ssl.protocols` was updated from `TLSv1` to `TLSv1.2` in this context. For future-proofing, this parameter's value should be adjusted manually in the file `fs-server.conf` in existing FirstSpirit installations if its value is still set to `TLSv1`.

2 Administration / Modules

2.1 The FirstSpirit SAML Login Module is released.

The FirstSpirit SAML Login Module is released with FirstSpirit 2019-02. By using the module it is possible to implement Single sign-on (SSO) via the SAML v2.0 standard in FirstSpirit. The login to the FirstSpirit server is then no longer carried out directly, but indirectly via an identity provider. The module is conceptually capable of communicating with all identity providers that support the SAML V2.0 standard. e-Spirit tested and actively maintains the use with Keycloak version 4.6.0 or higher ([Keycloak Homepage](#)).



Login process when using the SAML module (simplified)

When utilizing the module, some restrictions have to be considered:

- When using the SAML login module, it must be noted that only the process of logging in is implemented. There is no communication between the module and the identity provider about



a user logging out. This means that if the user logs out from the identity provider, this has no direct effect on the login to FirstSpirit. Likewise, when the user logs out of FirstSpirit, he will not be logged out of the identity provider, and the session there will not be rendered invalid.

- The used API, OneLogin's SAML Java Toolkit, provides only "Single Group/Role Attributes".
- Only one identity provider can be set up per FirstSpirit Server. It is not possible to configure different identity providers on a project basis.

3 General

3.1 New Technical Datasheet for FirstSpirit

FirstSpirit is operated successfully by customers and partners with a wide range of different third-party components (operating systems, JDKs, servlet engines, application servers, databases).

The Technical Datasheet provides:

- an overview of recommended reference system configurations for operation with FirstSpirit,
- an extended list of further compatible system configurations that have been checked by e-Spirit and deemed functional, and
- under the item "Not supported" a list of system configurations that are known to cause problems or are highly likely to cause problems.

The Technical Datasheet for FirstSpirit has been revised. It is available under the chapter "Technical Requirements and Recommendations" as part of the documentation for administrators (HTML): <https://docs.e-spirit.com/odfs/edocs/admi/introduction/index.html>

A PDF version of the Technical Datasheet can be obtained from the start page of the FirstSpirit documentation: <https://docs.e-spirit.com/odfs/documentation/technical-docum/index.html>.

3.2 Release notes: chapter sorting

FirstSpirit release notes are provided in German and English for



- individual releases (file name: Releasenotes_<Release>.pdf or Releasenotes_<Release>_EN.pdf)
- combined for all releases (file name: Releasenotes_<Release>_combined.pdf or Releasenotes_<Release>_EN_combined.pdf)

e.g., Releasenotes_2019_01_EN.pdf or Releasenotes_2019_01_EN_combined.pdf.

Entries in the FirstSpirit release notes are categorized in different ways to enable quick access to relevant topics:

- The **first chapters** contain descriptions of new features, generally set out according to target user group/FirstSpirit component.
- The **“Deprecations” chapter** provides a clear list of functions that are being discontinued with the date of their withdrawal.
- The **“Overview” chapter** lists the functions implemented in the current release and relevant rectified errors in table format, sorted by their ID in the internal bug tracking system and labeled with categories.
- In the release-specific editions it is possible to jump from a category to the last part of the document (**“Categories” chapter**) which lists all entries by category, also in table format.

The entries are sorted alphabetically in the current release. Furthermore, the sorting / chapter numbering of the entries in the English release notes has been aligned with the sorting of the entries in the German release notes. This means that the entries can be found under the same chapter number in both languages.

4 ContentCreator

4.1 ContentCreator: New options for editing content

FirstSpirit 2018-12 implemented a basic functionality which allows fragments and variants from a CXT project to not only be referenced in FirstSpirit projects, but also to be edited from ContentCreator (CORE-8101).



The current release continues this development: With the new `externalReference` parameter in `editorId()` calls, external references of the relevant FS_INDEX component can now be marked for use in ContentCreator.

The parameter expects the identifier of references that are saved in the FS_INDEX component.

Example:

```
<div$CMS_VALUE(editorId(editorName:"fs_index"))$>
  $CMS_FOR(i, [0..fs_index.identifiers.size-1])$
  $CMS_SET(objectId, fs_index.identifiers[i])$
  <div$CMS_VALUE(editorId(editorName:"fs_index", externalReference: objectId))$>
  </div>
  $CMS_END_FOR$
</div>
```

In this case, `fs_index` is the identifier of the relevant FS_INDEX component.

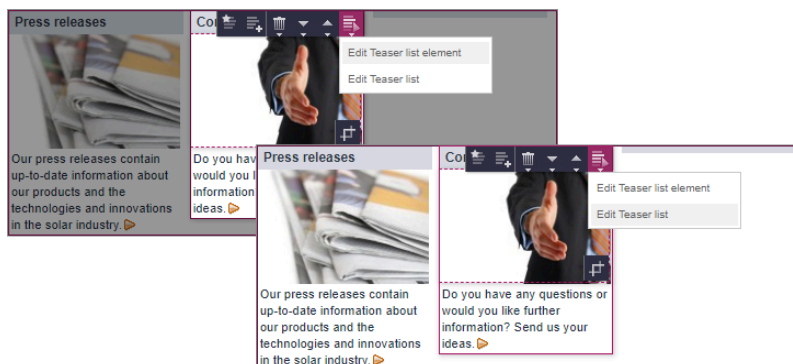
`objectId` represents a fragment entry of the FS_INDEX component.

Effects in ContentCreator

As part of this new development, the EasyEdit icon bar in ContentCreator for cases where input forms allow inputs on multiple levels has also been redesigned.

In the case of multiple overlapping levels, the corresponding icon bars are grouped into a single bar. The actions for the different levels are displayed from inside (on the right in the toolbar) to outside (on the left in the icon bar).

If the mouse pointer is hovered over an icon in the icon bar, highlighting is used to visualize which level the relevant action relates to.

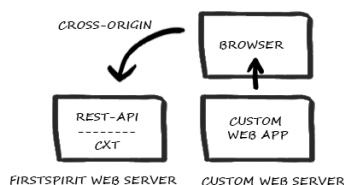


As soon as an action appears multiple times in a consolidated icon bar, the instances of the same action are grouped together and displayed as an icon with an arrow symbol. The user can click on the icon and use a popup menu to select the actual action or the level for which the action is to be performed. The relevant level is highlighted in the same way as for the individual actions.

5 FirstSpirit Content Experience Tools (CXT)

5.1 Global CORS configuration for CXT MicroApps and for CXT REST calls

The CXT platform's integration interface provides various functionality of the CXT world in the form of MicroApps and via CXT REST calls. This functionality may then be used in other environments, e.g. classic CRUD access to fragments and variants as well as from within (corporate) web apps which are not executed on the FirstSpirit web server (Cross-Origin Resource Sharing (CORS)).



Cross-Origin Resource Sharing (CORS)

If the caller (e.g. a custom web app) and the CXT platform are not located on the same web server (“same-origin”), but on different web servers (“cross-origin”), access from the browser of the external web app is denied by default (due to the Same-Origin Policy (SOP)). This restriction may be lifted for specific URLs.

`corsAllowedOrigins`: The parameter `corsAllowedOrigins` may be used to define a global CORS configuration for CXT MicroApps and for CXT REST calls. Possible values are:

- empty (no access allowed)
- * (all access allowed)
- comma-separated list of URLs (access for individual origins allowed)

The default value is the `FIRST_SPIRIT_URL`.



Detail of the web.xml (FragmentCreator web app):

```
<context-param>
  <param-name>corsAllowedOrigins</param-name>
  <param-value>${FIRST_SPIRIT_URL}</param-value>
</context-param>
```

5.2 Preselecting a variant for editing ("documentId")

When using the MicroApp “Edit fragment”, the favorited variant of a fragment will be opened for editing by default (*fragmentId*). As of the current release, it is possible to specify which variant should be shown initially. This is done by using the parameter *documentId*.

Example:

```
function setFCMicroApp(row, fragmentId, docId, index){
  const context = {
    dataAccessPlugin: "FirstSpiritFragmentAccess/FSFAConnector",
    documentId: docId,
    projectId: prjId
  }
}
```

6 Module Development, Scripts, API

6.1 "Isolated mode" is released

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

With the current release the “Isolated mode” is released.

- As of this release, **new** FirstSpirit servers should be installed using the installation archive `fs-install-[version].tar.gz`. When using this archive, the server is installed in “Isolated mode” by default. If modules are used, they should be Isolated-capable in order to ensure smooth operation.



- **Existing** FirstSpirit modules that have not yet been converted to “Isolated mode” are still executable.

If these contain a web component that uses libraries that are not available in the module, it may be necessary to use the **Compatibility module** until the module is migrated to “Isolated mode”. No other adjustments are necessary in the short term. In the medium term, however, all resources in modules should be adapted to the new conditions in order to benefit from the advantages of “Isolated mode”.

“Legacy mode” will be dropped in the medium term, all modules and servers should be converted by then. Before the “Legacy mode” is dropped, this will be announced at an early stage.

For more information please see **FirstSpirit Manual for Module Developers**, Chapter “Isolated mode” (or on local FirstSpirit servers in the online help in the left-hand navigation bar under “Manual for Module Developers (Beta)”).

If you require assistance with the migration, please contact e-Spirit Technical Support. There you will also get access to the “FSM Dependency Checker” tool, which can be used to analyse internal and external dependencies of existing FirstSpirit modules.

6.2 Improved detection of duplicate resources in modules

Modules with identical web resource definitions (tag `<resource>`) but different scopes (attribute `scope`) will no longer be reported as incompatible. In the past, an error message was displayed, e.g.: “The application 'xyz' could not be installed because of a resource conflict: ...”

Note: It is meaningless to specify a scope for web resources because they are always available within the web application.

7 SiteArchitect

7.1 JSON: Improved validation

The new JSON validator no longer aborts at the first error, but outputs the complete generated JSON document. Errors are clearly marked at the corresponding positions in the output, e.g.

```
"hidden":false,"newRow":true,"text":"<h3> <----- INVALID JSON: expected ', ' or '}'  
- got '>'
```



For more information please see *FirstSpirit Manual for Administrators*, “FirstSpirit ServerManager / Support for JSON”.

7.2 Search syntax: Masking special characters by using backslashes (\)

In SiteArchitect, it is now possible to use special characters in search words of full-text search which are of special meaning in FSQL.

Through the use of a backslash (\), a special character can be used as a normal search character. For example, this allows exclusion of a period from interpretation as a name space delimiter.

A search for a search word without quotation marks thus corresponds to a search with quotation marks, it will however be interpreted as a partial word search.

Example:

2 possible search results:

- abc.def.ghi
- abc.def.xyz

The number of returned search results depends upon the search query used:

Search query	Number of results	Search procedure
abc	2 hits	Finds everything which contains abc
"abc.def"	0 hits	Searches for the exact sequence abc.def
abc\def	2 hits	The period is used as a normal search character - finds everything which contains abc.def

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	
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	
FirstSpirit Access API: setSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	



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

9 Overview

ID	Description	Categories
CORE-8770	In rare cases, the temporary FirstSpirit folder was cleared away during SiteArchitect use. This could lead to erroneous behavior.	SiteArchitect
CORE-9619	New sorting system for entries in the FirstSpirit release notes Further information can be found in chapter “General: Release notes: chapter sorting”.	Developer, Editor, FirstSpirit Administrator
CORE-9708	With the new <code>externalReference</code> parameter in <code>editorId()</code> calls, external references of the relevant FS_INDEX component can now be marked for use in ContentCreator. As part of this new development, the EasyEdit icon bar for cases where input forms allow inputs on multiple levels has also been redesigned. Further information can be found in chapter “ContentCreator: ContentCreator: New options for editing content”.	ContentCreator, Data Access Plug-In, Developer, Editor, Input Components
CORE-9769	After updating a module with a service, erroneous behavior could occur when removing a project-related web component.	FirstSpirit Administrator



ID	Description	Categories
CORE-9802	The distribution of content between projects with different language sets was optimized.	Content Transport
CORE-9826	Selecting a dataset from a DB scheme with read access using the input component FS_DATASET may have resulted in a malfunction.	ContentCreator
CORE-9827	Optimized behavior related to module updates during server update.	FirstSpirit Administrator, Modules
CORE-9834	Optimized abortion conditions during generation.	Generation
CORE-9837	Creating a dataset in a multiply nested input component FS_LIST (type DATABASE) could lead to erroneous behavior.	SiteArchitect
CORE-9861	The evaluation and display of changes within the version comparison was improved for the FS_CATALOG input component.	SiteArchitect
CORE-9863	Using Java 11, display issues could occur in the input component CMS_INPUT_DOM concerning blanks in connection with certain fonts.	SiteArchitect
CORE-9917	User interface for the conversion from language-independent to language-dependent media has been improved	ContentCreator
CORE-9962	In the input component FS_INDEX, malfunction may have occurred after the exchange of a selected entry.	SiteArchitect
CORE-10012	<p>The parameter <code>corsAllowedOrigins</code> may be used to define a global CORS configuration for CXT MicroApps and for CXT REST calls (default value is the <code>FIRST_SPIRIT_URL</code>).</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Global CORS configuration for CXT MicroApps and for CXT REST calls”.</p>	Developer, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CORE-10019	In the target project, adding an element could cause erroneous behavior if the parent node belonged to a package and the user did not have access to the source project.	Corporate Content
CORE-10031 CORE-9542 CORE-10024	<p>Improved detection of duplicate resources in modules</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Improved detection of duplicate resources in modules”.</p>	Developer, Isolated mode (BETA), Module development



ID	Description	Categories
CORE-10073	Improved JSON Validation Further information can be found in chapter "SiteArchitect: JSON: Improved validation".	Developer, Preview, SiteArchitect, Template Development, Template Store
CORE-10089	Erroneous behavior could arise when using periods in search.	FragmentCreator
CORE-10095	In the dialog for uploading media, the labeling of the drop area has been improved in Russian.	ContentCreator
CORE-10104	A special character can be used as a normal search character by using a backslash (\). Further information can be found in chapter "SiteArchitect: Search syntax: Masking special characters by using backslashes (\)".	SiteArchitect
CORE-10106 CORE-8365	The FirstSpirit SAML Login Module is released. Further information can be found in chapter "Administration / Modules: The FirstSpirit SAML Login Module is released.".	Advanced URL
CORE-10121	Optimized adoption of form examples via drag-and-drop directly from within FirstSpirit Online Documentation shown in the preview area onto the tab "Form" in a template.	SiteArchitect, Template Development
CORE-10122	In the file <code>fs-server.conf</code> , the value <code>TLS_DH_anon_WITH_AES_128_CBC_SHA</code> for the SSL-related parameter <code>fs.ssl.cipherSuites</code> is no longer valid and must be adjusted. Further information can be found in chapter "Administration: SSL Encryption: Modifications to "fs-server.conf"".	FirstSpirit Administrator
CORE-10126	Using macOS operating system, erroneous behavior could arise when starting FirstSpirit ServerManager under Java 11.	FirstSpirit Administrator
CORE-10154	Optimized module "fs-web-compatibility.fsm".	Modules



ID	Description	Categories
CORE-10174	<p>As of the current release, it is possible to specify which variant should be shown initially when using the MicroApp “Edit fragment”.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Preselecting a variant for editing (“documentId”).”.</p>	Developer, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CORE-10189	<p>Removal of “InternalJetty”</p> <p>Further information can be found in chapter “Administration: Removal of “InternalJetty””.</p>	Integrated software, Web server
CORE-10202	<p>Uninstalling web applications will now also cause removal of registered ServiceProviders as long as these were loaded via the context class loader of the web application. This ensures that the old classes are no longer used upon updating the web application.</p>	FirstSpirit Administrator
CORE-10207	<p>“Isolated mode” is released.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: “Isolated mode” is released”.</p>	Developer, Isolated mode (BETA), Module development, Modules
CORE-10222	<p>The Technical Datasheet for FirstSpirit has been revised.</p> <p>Further information can be found in chapter “General: New Technical Datasheet for FirstSpirit”.</p>	ContentCreator, Database, FragmentCreator, Java, ServerManager, ServerMonitoring, SiteArchitect
CORE-10225	<p>Erroneous behavior could arise when using the method <code>executeScriptMethod(String, Object)</code> of the interface <code>BrowserApplication</code> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.client.gui.applications.browser</code>).</p>	FirstSpirit API
CORE-10244	<p>Optimized memory utilization when using bookmarks.</p>	ContentCreator



10 Categories

10.1 Advanced URL

ID	Description
CORE-10106	The FirstSpirit SAML Login Module is released.
CORE-8365	Further information can be found in chapter “Administration / Modules: The FirstSpirit SAML Login Module is released.”.

10.2 Content Transport

ID	Description
CORE-9802	The distribution of content between projects with different language sets was optimized.

10.3 ContentCreator

ID	Description
CORE-9708	<p>With the new <code>externalReference</code> parameter in <code>editorId()</code> calls, external references of the relevant <code>FS_INDEX</code> component can now be marked for use in ContentCreator. As part of this new development, the EasyEdit icon bar for cases where input forms allow inputs on multiple levels has also been redesigned.</p> <p>Further information can be found in chapter “ContentCreator: ContentCreator: New options for editing content”.</p>
CORE-9826	Selecting a dataset from a DB scheme with read access using the input component <code>FS_DATASET</code> may have resulted in a malfunction.
CORE-9917	User interface for the conversion from language-independent to language-dependent media has been improved
CORE-10095	In the dialog for uploading media, the labeling of the drop area has been improved in Russian.
CORE-10222	The Technical Datasheet for FirstSpirit has been revised.



ID	Description
	Further information can be found in chapter “General: New Technical Datasheet for FirstSpirit”.
CORE-10244	Optimized memory utilization when using bookmarks.

10.4 Corporate Content

ID	Description
CORE-10019	In the target project, adding an element could cause erroneous behavior if the parent node belonged to a package and the user did not have access to the source project.

10.5 Data Access Plug-In

ID	Description
CORE-9708	<p>With the new <code>externalReference</code> parameter in <code>editorId()</code> calls, external references of the relevant FS_INDEX component can now be marked for use in ContentCreator. As part of this new development, the EasyEdit icon bar for cases where input forms allow inputs on multiple levels has also been redesigned.</p> <p>Further information can be found in chapter “ContentCreator: ContentCreator: New options for editing content”.</p>

10.6 Database

ID	Description
CORE-10222	<p>The Technical Datasheet for FirstSpirit has been revised.</p> <p>Further information can be found in chapter “General: New Technical Datasheet for FirstSpirit”.</p>



10.7 Input Components

ID	Description
CORE-9708	<p>With the new <code>externalReference</code> parameter in <code>editorId()</code> calls, external references of the relevant <code>FS_INDEX</code> component can now be marked for use in ContentCreator. As part of this new development, the EasyEdit icon bar for cases where input forms allow inputs on multiple levels has also been redesigned.</p> <p>Further information can be found in chapter “ContentCreator: ContentCreator: New options for editing content”.</p>

10.8 Developer

ID	Description
CORE-9619	<p>New sorting system for entries in the FirstSpirit release notes</p> <p>Further information can be found in chapter “General: Release notes: chapter sorting”.</p>
CORE-9708	<p>With the new <code>externalReference</code> parameter in <code>editorId()</code> calls, external references of the relevant <code>FS_INDEX</code> component can now be marked for use in ContentCreator. As part of this new development, the EasyEdit icon bar for cases where input forms allow inputs on multiple levels has also been redesigned.</p> <p>Further information can be found in chapter “ContentCreator: ContentCreator: New options for editing content”.</p>
CORE-10012	<p>The parameter <code>corsAllowedOrigins</code> may be used to define a global CORS configuration for CXT MicroApps and for CXT REST calls (default value is the <code>FIRST_SPIRIT_URL</code>).</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Global CORS configuration for CXT MicroApps and for CXT REST calls”.</p>
CORE-10031	<p>Improved detection of duplicate resources in modules</p>
CORE-9542	<p>Further information can be found in chapter “Module Development, Scripts, API: Improved detection of duplicate resources in modules”.</p>
CORE-10024	
CORE-10073	<p>Improved JSON Validation</p>



ID	Description
	Further information can be found in chapter “SiteArchitect: JSON: Improved validation”.
CORE-10174	As of the current release, it is possible to specify which variant should be shown initially when using the MicroApp “Edit fragment”. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Preselecting a variant for editing (“documentId”)”.
CORE-10207	“Isolated mode” is released. Further information can be found in chapter “Module Development, Scripts, API: “Isolated mode” is released”.

10.9 FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-10012	The parameter <code>corsAllowedOrigins</code> may be used to define a global CORS configuration for CXT MicroApps and for CXT REST calls (default value is the <code>FIRST_SPIRIT_URL</code>). Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Global CORS configuration for CXT MicroApps and for CXT REST calls”.
CORE-10174	As of the current release, it is possible to specify which variant should be shown initially when using the MicroApp “Edit fragment”. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Preselecting a variant for editing (“documentId”)”.

10.10 FirstSpirit Administrator

ID	Description
CORE-9619	New sorting system for entries in the FirstSpirit release notes Further information can be found in chapter “General: Release notes: chapter sorting”.



ID	Description
CORE-9769	After updating a module with a service, erroneous behavior could occur when removing a project-related web component.
CORE-9827	Optimized behavior related to module updates during server update.
CORE-10122	In the file <code>fs-server.conf</code> , the value <code>TLS_DH_anon_WITH_AES_128_CBC_SHA</code> for the SSL-related parameter <code>fs.ssl.cipherSuites</code> is no longer valid and must be adjusted. Further information can be found in chapter “Administration: SSL Encryption: Modifications to “fs-server.conf””.
CORE-10126	Using macOS operating system, erroneous behavior could arise when starting FirstSpirit ServerManager under Java 11.
CORE-10202	Uninstalling web applications will now also cause removal of registered ServiceProviders as long as these were loaded via the context class loader of the web application. This ensures that the old classes are no longer used upon updating the web application.

10.11 FirstSpirit API

ID	Description
CORE-10225	Erroneous behavior could arise when using the method <code>executeScriptMethod(String, Object)</code> of the interface <code>BrowserApplication</code> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.client.gui.applications.browser</code>).

10.12 FragmentCreator

ID	Description
CORE-10012	The parameter <code>corsAllowedOrigins</code> may be used to define a global CORS configuration for CXT MicroApps and for CXT REST calls (default value is the <code>FIRST_SPIRIT_URL</code>). Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Global CORS configuration for CXT MicroApps and for CXT REST calls”.
CORE-10089	Erroneous behavior could arise when using periods in search.



ID	Description
CORE-10174	As of the current release, it is possible to specify which variant should be shown initially when using the MicroApp “Edit fragment”. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Preselecting a variant for editing (“documentId”)”.
CORE-10222	The Technical Datasheet for FirstSpirit has been revised. Further information can be found in chapter “General: New Technical Datasheet for FirstSpirit”.

10.13 Generation

ID	Description
CORE-9834	Optimized abortion conditions during generation.

10.14 Integrated software

ID	Description
CORE-10189	Removal of “InternalJetty” Further information can be found in chapter “Administration: Removal of “InternalJetty””.

10.15 Isolated mode (BETA)

ID	Description
CORE-10031	Improved detection of duplicate resources in modules
CORE-9542 CORE-10024	Further information can be found in chapter “Module Development, Scripts, API: Improved detection of duplicate resources in modules”.
CORE-10207	“Isolated mode” is released.



ID	Description
	Further information can be found in chapter “Module Development, Scripts, API: “Isolated mode” is released”.

10.16 Java

ID	Description
CORE-10222	The Technical Datasheet for FirstSpirit has been revised. Further information can be found in chapter “General: New Technical Datasheet for FirstSpirit”.

10.17 Module development

ID	Description
CORE-10031	Improved detection of duplicate resources in modules
CORE-9542 CORE-10024	Further information can be found in chapter “Module Development, Scripts, API: Improved detection of duplicate resources in modules”.
CORE-10207	“Isolated mode” is released. Further information can be found in chapter “Module Development, Scripts, API: “Isolated mode” is released”.

10.18 Modules

ID	Description
CORE-9827	Optimized behavior related to module updates during server update.
CORE-10154	Optimized module “fs-web-compatibility.fsm”.
CORE-10207	“Isolated mode” is released. Further information can be found in chapter “Module Development, Scripts, API: “Isolated mode” is released”.



10.19 Editor

ID	Description
CORE-9619	New sorting system for entries in the FirstSpirit release notes Further information can be found in chapter “General: Release notes: chapter sorting”.
CORE-9708	With the new <code>externalReference</code> parameter in <code>editorId()</code> calls, external references of the relevant FS_INDEX component can now be marked for use in ContentCreator. As part of this new development, the EasyEdit icon bar for cases where input forms allow inputs on multiple levels has also been redesigned. Further information can be found in chapter “ContentCreator: ContentCreator: New options for editing content ”.

10.20 ServerManager

ID	Description
CORE-10222	The Technical Datasheet for FirstSpirit has been revised. Further information can be found in chapter “General: New Technical Datasheet for FirstSpirit”.

10.21 ServerMonitoring

ID	Description
CORE-10222	The Technical Datasheet for FirstSpirit has been revised. Further information can be found in chapter “General: New Technical Datasheet for FirstSpirit”.



10.22 SiteArchitect

ID	Description
CORE-8770	In rare cases, the temporary FirstSpirit folder was cleared away during SiteArchitect use. This could lead to erroneous behavior.
CORE-9837	Creating a dataset in a multiply nested input component FS_LIST (type DATABASE) could lead to erroneous behavior.
CORE-9861	The evaluation and display of changes within the version comparison was improved for the FS_CATALOG input component.
CORE-9863	Using Java 11, display issues could occur in the input component CMS_INPUT_DOM concerning blanks in connection with certain fonts.
CORE-9962	In the input component FS_INDEX, malfunction may have occurred after the exchange of a selected entry.
CORE-10073	Improved JSON Validation Further information can be found in chapter “SiteArchitect: JSON: Improved validation”.
CORE-10104	A special character can be used as a normal search character by using a backslash (\). Further information can be found in chapter “SiteArchitect: Search syntax: Masking special characters by using backslashes (\)”.
CORE-10121	Optimized adoption of form examples via drag-and-drop directly from within FirstSpirit Online Documentation shown in the preview area onto the tab “Form” in a template.
CORE-10222	The Technical Datasheet for FirstSpirit has been revised. Further information can be found in chapter “General: New Technical Datasheet for FirstSpirit”.

10.23 Template Store

ID	Description
CORE-10073	Improved JSON Validation Further information can be found in chapter “SiteArchitect: JSON: Improved validation”.



10.24 Template Development

ID	Description
CORE-10073	Improved JSON Validation Further information can be found in chapter "SiteArchitect: JSON: Improved validation".
CORE-10121	Optimized adoption of form examples via drag-and-drop directly from within FirstSpirit Online Documentation shown in the preview area onto the tab "Form" in a template.

10.25 Preview

ID	Description
CORE-10073	Improved JSON Validation Further information can be found in chapter "SiteArchitect: JSON: Improved validation".

10.26 Web server

ID	Description
CORE-10189	Removal of "InternalJetty" Further information can be found in chapter "Administration: Removal of "InternalJetty"".

