



# FirstSpirit™

*Unlock Your Content*

## Release Notes

### FirstSpirit™ 2021-11

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## 1 General

### 1.1 Omission of Java Web Start and the “Switch Projects” function

With “Java Web Start”, Java applications can be downloaded from the Internet and executed with a single click. It has been included in Java since version 5.0. However, Java Web Start was omitted in version 11. The discontinuation of support for “Java Web Start” for FirstSpirit occurred with FirstSpirit 2019-10. Since the omission of Java 8 (FirstSpirit 2020-06), “Java Web Start” can no longer be used.

With the latest release, Java Web Start has now been permanently omitted and is no longer included in FirstSpirit.

It is replaced by the FirstSpirit Launcher.

In this context, the “Switch Projects” function is now available again in the FirstSpirit SiteArchitect (menu “Project”). For technical reasons, it was not possible to use this function with the FirstSpirit Launcher.

With this function, the currently open project is closed and a project selection dialog is displayed. The desired project to be opened can then be selected.

A warning is displayed if the opened project still contains objects in Editing mode. Contents that were changed in these objects but have not been saved will be lost when switching projects.



The latest FirstSpirit Launcher Version 1.0.42 is required to use the “Switch Projects” function.

## 2 ContentCreator

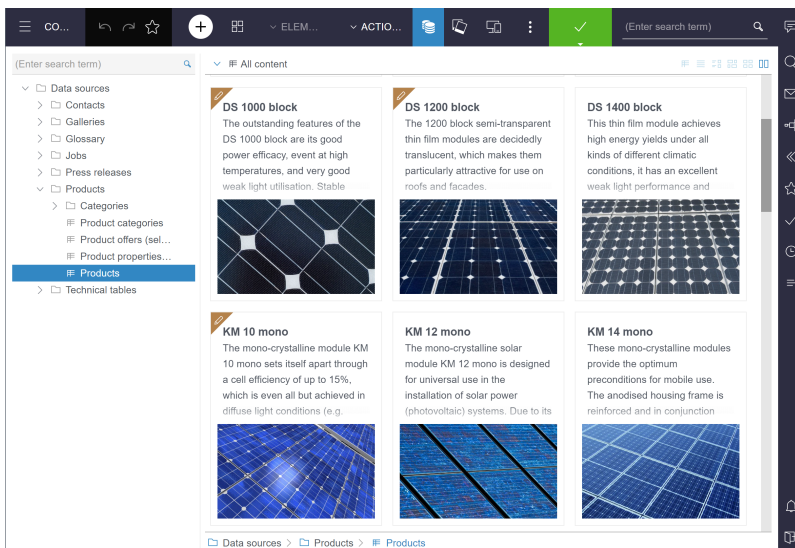
### 2.1 “Data sources” in the FirstSpirit ContentCreator: Official release

The latest release now includes the official release for the use of the “Data sources” (“Content Store”) in the ContentCreator. It provides a clear display of datasets. Datasets can be conveniently created and edited in this view.



Icon in the menu bar for opening the Data sources view in the ContentCreator





During the BETA phase (since FirstSpirit 2021-08), the functionality had to be activated explicitly (via “Tailored UI”). In the latest release, the function is now available in every project as standard.

The latest release also improved the table display, so that media from remote projects that are referenced via an FS\_REFERENCE component as well as contents from FS\_INDEX components that are mapped to an XML column are now also shown.

The existing manual for editors, developers and administrators was adapted as well.

If necessary, the functionality of the “Data sources” in the ContentCreator can be deactivated via “Tailored UI”: either completely (EntityManagement: Enabled, the icon in the menu bar will then be hidden) or only certain functions.

The user guidance for releasing datasets is currently being revised and new handling will be provided with a later FirstSpirit release. Currently, the release of datasets requires a switch to the “Dashboard”. This also applies to media.

## 2.2 Creating pages as reference

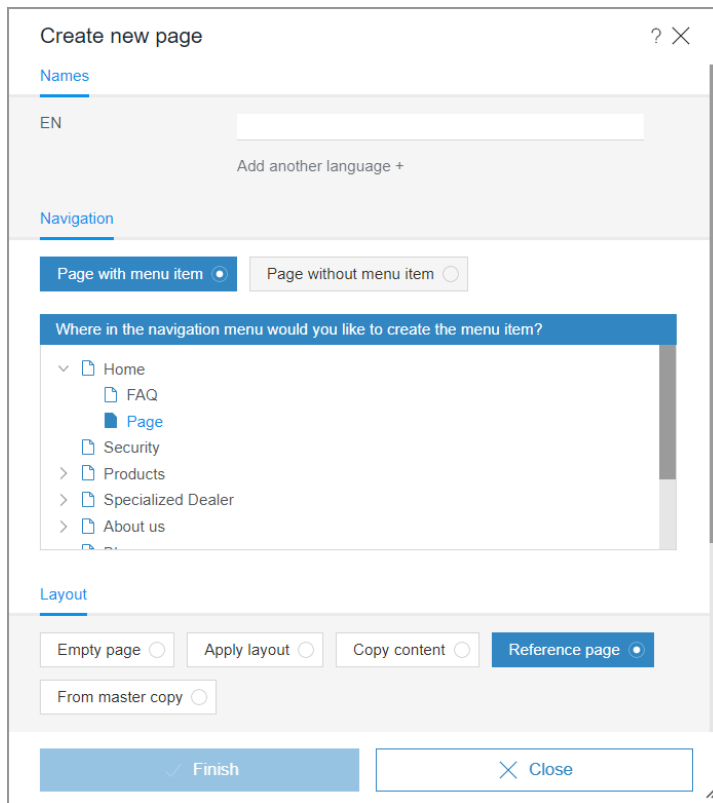
Generate new pages in the ContentCreator using the “Create new page” function in the menu



For example, you can choose if you want to create a copy of a specific page or an empty page with a specific page template.

With the latest release, you can now also create a **Reference** for a specific page (“Reference page” option).

With this method, contents of pages can easily be used again at another place in the project.



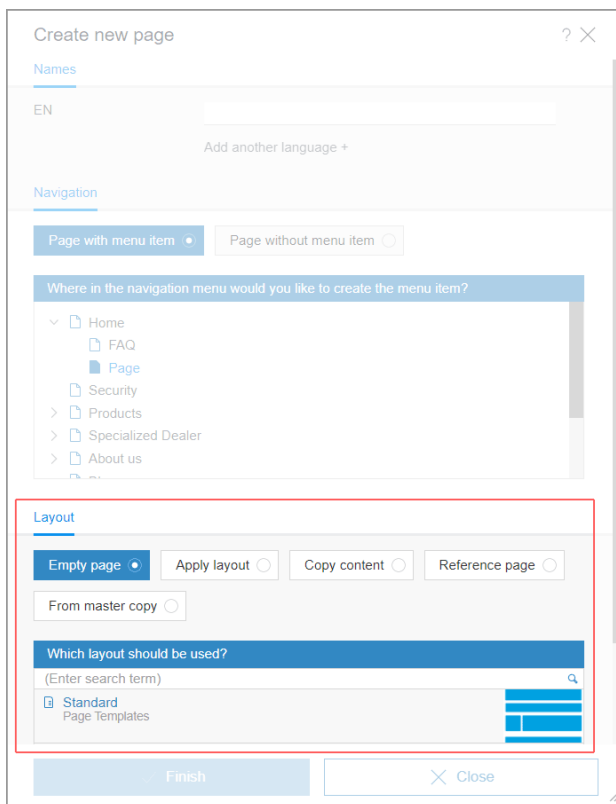
The selected page is inserted as a “reference” in the position you define in the “Navigation” area. The selected page then exists in both positions in the project with the same content. Changes to the content of one of the two pages are generally also reflected in the respective reference.

If a page is referenced in this way elsewhere on the website, this is visualized in the title bar of dialogs (“References”).



## 2.3 Creating pages: search for templates

When creating a new page in the ContentCreator, the editor can select a page template using the “Empty page” option as the basis for the creation of the new page.



The desired page template can be determined by searching.

The latest release now only takes the following elements of page templates into account for the search:

- Display name
- Reference name
- “Comment” field

Upper and lower case will thereby be ignored (as before). The behavior is thereby the same as with the search for section and link templates.





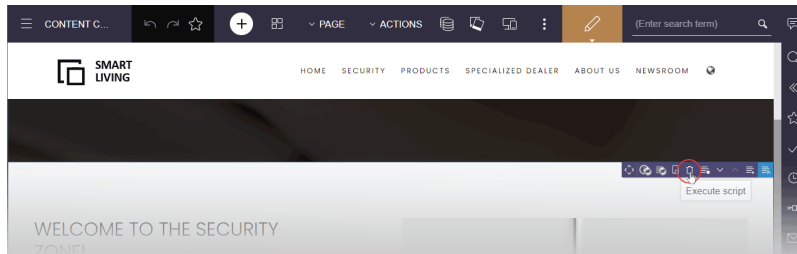
In the past, a full-text search of the entire page template was carried out. This included a search through texts on all tabs of a page template. This resulted in too many hits with little relevance.

## 2.4 Scripts in ContentCreator

Scripts allow functions that are not yet present in FirstSpirit to be implemented quickly. In the ContentCreator, these functions can currently be accessed via the “Actions” menu.

With the latest release, functions that are implemented with FirstSpirit scripts can now also be provided in the following places:

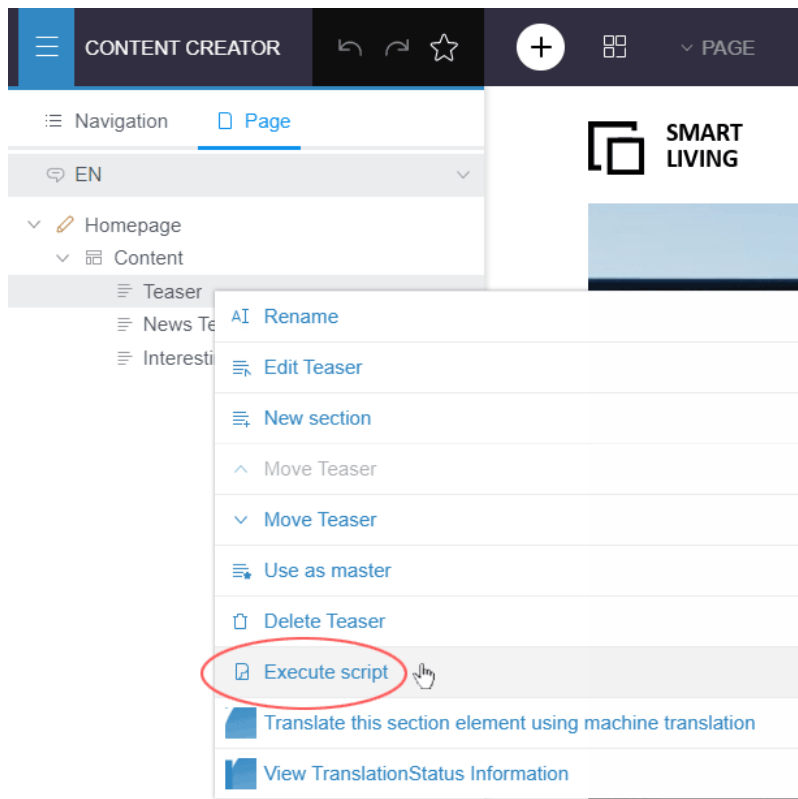
### EasyEdit Toolbar



### Navigation View

On pages, “Page” tab, menu item “Execute script”

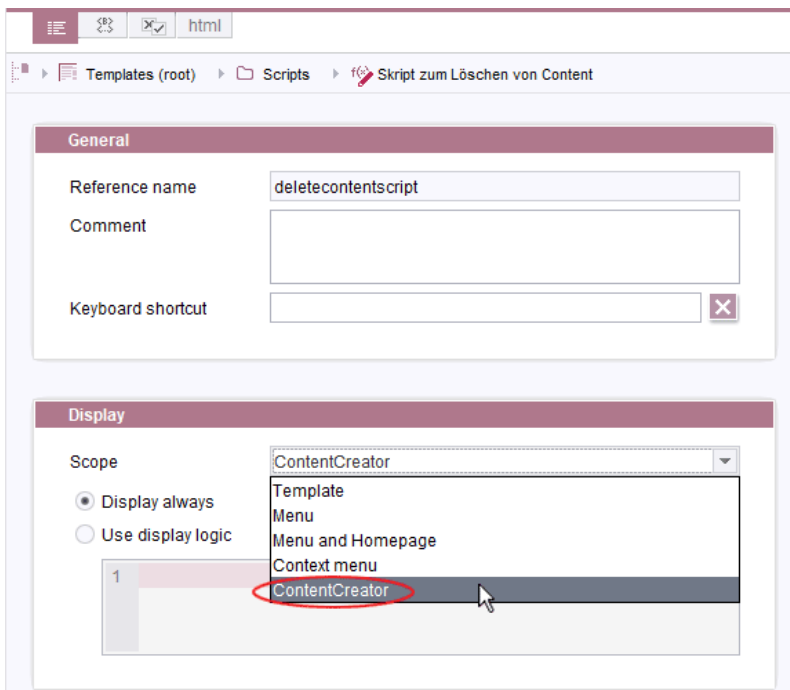




For this purpose, a new scope was introduced for scripts:

```
ContentCreator
```





Script template, “Scope” menu

If there are several scripts for which this new scope has been configured, they will be displayed in alphabetical order of their list name in a list. Folders are thereby ignored.

**Restriction:** This action is currently only available for elements from Page Store, not for elements of the Site, Media or Content Store.

If `true` is returned in the executed script (`return true;`), the respective preview will be updated in this case. Accordingly, if a script makes changes, a preview reload can be triggered as needed.

For further information, see <https://docs.e-spirit.com/odfs/templates-basic/composition-tem/scripts/index.html>

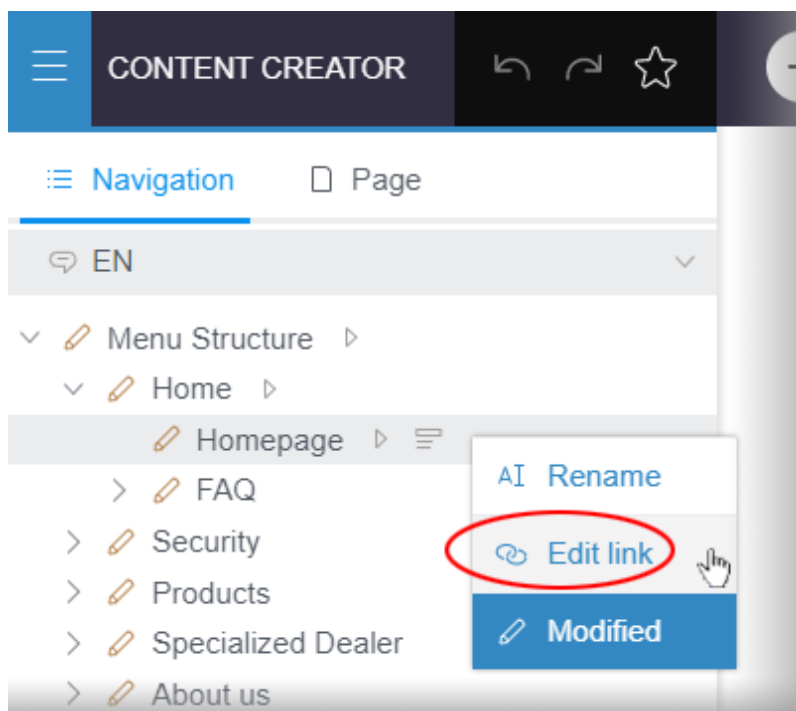
**Note:** FirstSpirit scripts present a lightweight option for the integration of new functions in FirstSpirit. However, for reasons of stability, it is recommended to implement functions that are needed or used long-term as a FirstSpirit module with executable or plug-in.



## 2.5 Forwarding of pages to external URLs or pages from other FirstSpirit projects

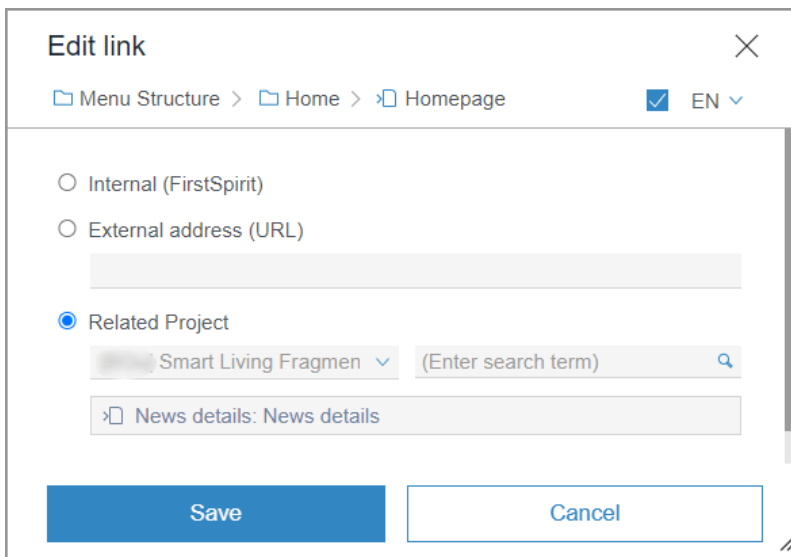
It is also possible to reference external addresses or pages from remote projects instead of a page in the respective FirstSpirit project for navigation points. When navigating to the corresponding menu item on the website, the external URL or the page from the remote project will then be displayed instead of a page from the FirstSpirit project.

Until now, it was only possible to set this up in the FirstSpirit SiteArchitect (with “page references”). With the latest release, the configuration is now also possible in the navigation view in the ContentCreator, “Navigation” tab, context menu entry “Edit link” on “pages”:



The desired link can be set up for each language in the following dialog:





- Internal (FirstSpirit):** This is a default setting: the referenced page (Page Store) in the current FirstSpirit project is used and displayed when the corresponding navigation item is selected.
- External Address (URL):** This option is used to enter a reference to an external address. The address must begin with `http://` (e.g., `http://www.e-spirit.com`). This address is displayed when the corresponding navigation item is selected.
- Related project:** This option is used to reference a page from a “related project”. The selected page from the related project is displayed when the corresponding navigation item is selected. Note: “Related projects” are configured in the project properties in FirstSpirit ServerManager and require a valid license for access to remote projects.

The pages that are displayed in the preview when the “External address (URL)” and “Related project” options are selected cannot be edited.

### 3 External Synchronization / Content Transport

#### 3.1 FSDevTools now includes manuals in HTML format

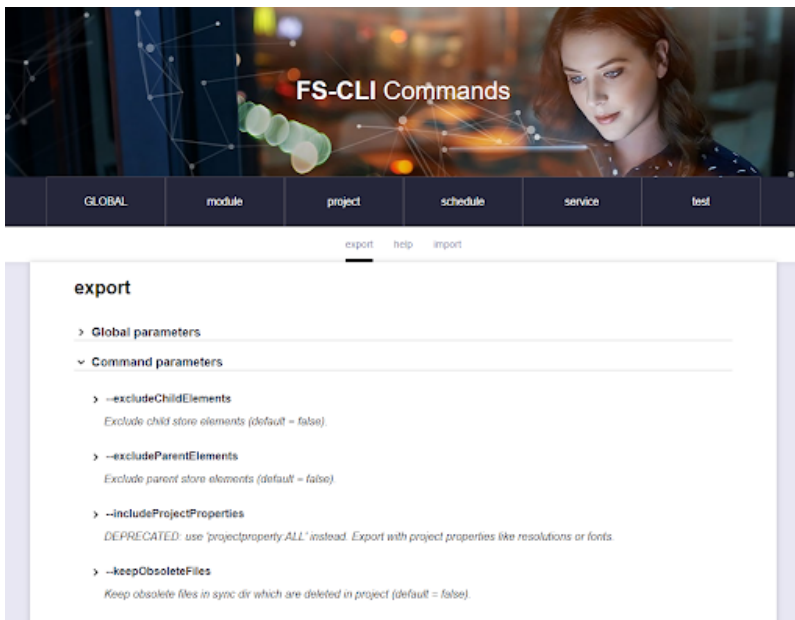
The “FSDevTools” command line tool simplifies export and import operations between a FirstSpirit project and the file system using predefined commands.



Until now, the manual of usable parameters was integrated and could be accessed via the command line (`fs-cli help` or `fs-cli help <command>` for a specific command).

The latest FSDevTools release ([Release 3.1.0](#)) also includes the manual in HTML format.

It is available at `docs/index.html`. The manual is generated automatically with each new release so that the release is always delivered with the correct version.



The plan is to also provide the manual with a future release publicly on the central [docs.e-spirit.com](https://docs.e-spirit.com) manual page.

## 4 FirstSpirit Content Experience Tools (CXT)

### 4.1 Latest module versions

FirstSpirit 2021-11 supports the following module versions for “FirstSpirit Content Experience Tools”.

Module / file name	Version number
FirstSpirit CXT Plattform <code>platform-[version].fsm</code>	2.5.1
FirstSpirit CXT DAP Bridge <code>dataservice-[version].fsm</code>	1.44.1



FirstSpirit CXT FragmentCreator fragment-creator-[version].fsm	3.4.3
FirstSpirit Fragment DAP fragmentdap-[version].fsm	1.40.3
FirstSpirit Media DAP mediadap-[version].fsm	1.31.2*
FirstSpirit PageRef DAP pagerefdap-[version].fsm	1.9.2
FirstSpirit Markdown Editor markdown-editor-[version].fsm	1.29.1*
FirstSpirit Tagging Editor tagging-editor-[version].fsm	1.29.1
FirstSpirit CXT FragmentCreator - CaaS Integration caas-integration-[version].fsm	1.31.2

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

## 5 Compatibility

### 5.1 Modules and extensions for FirstSpirit 2021-11

The following modules and extensions are compatible with FirstSpirit 2021-11:

Module name/File name	Version number	Compatibility
FirstSpirit Update Archive fs-update- [version].tar.gz	2.1.0	-
FirstSpirit Install Archiv fs-install- [version].tar.gz	2.1.0	-
FirstSpirit Launcher FSLauncher.exe	1.0.42	as of FirstSpirit 2018-08
FirstSpirit Launcher JRE module fs-launcher-jre- [version].fsm	1.19	as of FirstSpirit 2020-11



<b>FirstSpirit SAML Login module</b>	1.3	as of FirstSpirit 2019-02
<code>fs-saml-login-[version].fsm</code>		
<b>FSDevTools</b>	3.1.0	as of FirstSpirit 2021-07
<code>fs-cli-[version].tar.gz</code>		
<code>fs-cli-[version].zip</code>		
<b>FirstSpirit Module Gradle Plugin</b>	2.3.2	as of FirstSpirit 2019-06
<code>firstspirit-module-gradle-plugin-[version].jar</code>		

## 6 System

### 6.1 Updates to integrated third-party software

The following internal software has been updated in the latest FirstSpirit release:

- **Eclipse Jetty** (included in the `fs-jetty.fsm` “FirstSpirit Jetty Service” module)  
Update from **Version 9.4.39** to **Version 9.4.44**  
This update rectified an error that was preventing the uploading of media in the FirstSpirit SiteArchitect and ContentCreator using drag-and-drop with operation of the Jetty module in HTTPS mode.

! As in the past, the use of Eclipse Jetty for productive purposes is not recommended!  
Eclipse Jetty is **not** supported for operation with FirstSpirit Content Experience Tools (CXT).

## 7 Deprecations

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

However - not least in order to ensure maintainability and to future-proof the software - e-Spirit cannot fully avoid replacing existing functionality with new mechanisms. In the future, functionality that will be





removed from the software will be listed in this section, including the date at which time the functionality will be removed.

Functionality	Deprecated as of	Will be removed/ Was removed as of
Input component CMS_INPUT_CONTENTAREALIST	5.2R3	
Input component CMS_INPUT_CONTENTLIST	5.2R3	
Input component CMS_INPUT_FILE	5.2R3	
Input component CMS_INPUT_LINKLIST	5.2R3	
Input component CMS_INPUT_OBJECTCHOOSER	5.2R3	
Input component CMS_INPUT_PAGEREF	5.2R3	
Input component CMS_INPUT_PICTURE	5.2R3	
Input component CMS_INPUT_TABLIST	5.2R3	
FirstSpirit Developer API: de.espirit.firstspirit.agency.GroupsAgent	5.2R15	
FirstSpirit Access API: delete (de.espirit.firstspirit.access.AccessUtil)	5.2R18	
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	
WebSphere Application Server support for FirstSpirit	2019-05	
Legacy mode for the FirstSpirit server and module development	2019-06	January 2022
Control files for Windows and Linux operating systems (old)	2020-08	February 2021
Database layer for Oracle Database 11g/12c	2020-12	
FirstSpirit Developer API: redirectTemplateLogToDefaultLog() (Interface RenderingAgent.Renderer)	2021-05	



## 8 Overview

ID	Description	Categories
CORE-12358	Omission of Java Web Start and the “Switch Projects” function  Further information can be found in chapter “General: Omission of Java Web Start and the “Switch Projects” function”.	Developer, Editor, FirstSpirit Administrator, Java, Project switch, SiteArchitect, Webstart
CORE-13245	In rare cases, schedules that were set up for a specific day of the week per month were not executed at the right time.	Developer, FirstSpirit Administrator, Tasks
CORE-13699 CORE-13699	Internal software has been updated in the latest FirstSpirit release.  Further information can be found in chapter “System: Updates to integrated third-party software”.	Developer, FirstSpirit Administrator
CORE-13904	An error that could cause incorrectly generated links to a page that was defined with SEO-URL as project start page (e.g., “/index.html”) has been eliminated.	Advanced URL
CORE-13926	An error has been fixed which, in very rare cases, could result in that contents were incorrectly displayed for short periods of time with the use of SSO after the user session had expired.	Editor, Media, Sessions
CORE-13930	In very rare cases, the Downstream Manager may behave erroneously when the FirstSpirit Server is started.	Server Administrator
CORE-13942	In rare cases, a 500 error could occur when starting the FirstSpirit ContentCreator.	ContentCreator, Editor
CORE-13953	An error has been fixed which, in very rare cases, could cause the closing of a repository or a registry database even though it was still in use.	FirstSpirit Administrator, Repository
CORE-13959	With the latest release, functions that are implemented with FirstSpirit scripts can now be provided in other places in the FirstSpirit ContentCreator.  Further information can be found in chapter “ContentCreator: Scripts in ContentCreator”.	ContentCreator, Developer, Template Development, Template Store



ID	Description	Categories
CORE-13969	The MBean <code>RepositoryManager</code> was enhanced with additional information.	Debugging, Developer, FirstSpirit Administrator, Repository
CORE-13973	An error that could cause the unavailability of CSV files that can be downloaded or sent via the Mail icon in the “Codes” area in <code>ServerMonitoring</code> has been corrected.	Debugging, FirstSpirit Administrator, Server Administrator, ServerMonitoring
CORE-13988	FirstSpirit Content Experience Tools: Latest module versions  Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Modules
CORE-13992	Errors when using an LDAP link may now lead to that, in addition to a <code>WARN</code> message, the stacktrace of the corresponding exception will be shown to simplify the error analysis.	Debugging, FirstSpirit Administrator
CORE-13993	An error has been corrected, which could lead to the incorrect transport of permissions when transporting workflow permissions using “fs-cli” ( <code>FSDevTools</code> ).  <u>Note:</u> If the transport of the permissions did not work correctly, delete the transport directory in the file system and restart the transport. If the directory cannot be deleted, change the respective nodes in the source and restart the transport.	Developer, FSDevTools, FirstSpirit Administrator, Permissions, Workflow
CORE-13998	The behavior of FirstSpirit in certain high-load situations has been improved so that the server exhibits a better response behavior in these cases.	Performance, Server Administrator
CORE-14007	When determining the Health status of the FirstSpirit Server (“ <code>ServerMonitoring</code> ”/“ <code>Health Center</code> ”), <code>OutOfMemoryExceptions</code> that were generated on the client side (e.g., in the <code>SiteArchitect</code> ) were erroneously taken into account. This has been corrected so that the server now only takes <code>OutOfMemoryExceptions</code> into account that occur in the Java VM of the server.	Debugging, FirstSpirit Administrator, ServerMonitoring



ID	Description	Categories
CORE-14015	<p>A new attribute has been added to the MBean <code>HealthManager:DownStreamWarnings</code>. In this, a warning is issued if a web application was not started.</p> <p>This warning is now also included in the <code>server-incident.log</code> file (downloadable in FirstSpirit ServerMonitoring under “FirstSpirit / Monitoring / Codes” via the envelope icon).</p>	Debugging, FirstSpirit Administrator, ServerMonitoring
CORE-14018	<p>Modules and extensions for FirstSpirit 2021-11</p> <p>Further information can be found in chapter “Compatibility: Modules and extensions for FirstSpirit 2021-11”.</p>	Developer, FSDevTools, Launcher, Modules
CXT-1365	<p>An error has been fixed which, in very rare cases, could cause the detail page of a dataset not to be displayed in the ContentCreator after a Refresh (F5).</p>	ContentCreator, Database, Editor
CXT-1614	<p>Forwarding of pages to external URLs or pages from other FirstSpirit projects</p> <p>Further information can be found in chapter “ContentCreator: Forwarding of pages to external URLs or pages from other FirstSpirit projects”.</p>	ContentCreator, Editor, Navigation view
CXT-2421	<p>The search for page templates when creating pages has been improved to exclude fewer relevant page templates from search hits.</p> <p>Further information can be found in chapter “ContentCreator: Creating pages: search for templates”.</p>	ContentCreator, Editor, Search
CXT-2436	<p>Creating pages as reference</p> <p>Further information can be found in chapter “ContentCreator: Creating pages as reference”.</p>	ContentCreator, Editor
CXT-2438	<p>The user guidance of <code>FS_DATASET</code> and <code>FS_REFERENCE</code> has been aligned: You can now click in the area in <code>FS_REFERENCE</code> components in which the selected element is shown and open the selection dialog as long as no element is selected yet.</p>	ContentCreator, Editor, Input Components



ID	Description	Categories
CXT-2440	<p>If a page reference is linked with a “Related project”, an error message appeared in the browser console when the page is selected in the ContentCreator.</p> <p>No status will be displayed for such a page because no context element is available.</p>	ContentCreator, Editor, Remote access
CXT-2450	Clicking on a link that does not lead to another page ( <code>href</code> attribute, e.g., linked e-mail addresses via <code>mailto</code> ), could result in that the preview was no longer responding and the continuous display of a loading symbol.	ContentCreator, Editor
CXT-2451	In the InEdit mode, the size of editing windows is now restricted to the size of the preview again, so that the toolbar with the InEdit icons is visible again at all times.	ContentCreator, Editor
CXT-2459	<p>In some cases, the “Last modification” display in the Element status of a Preview page in the FirstSpirit ContentCreator only took changes to page references (Site Store) into account: if the last change was made to the referenced page (Page Store), it was not listed under “Last modification”, instead, only the last change to the page reference was listed.</p> <p>The latest release visualizes the last change to the page reference or the page, depending on which of the two was changed last.</p>	ContentCreator, Editor, Version history
CXT-2460 CORE-2442	<p>The latest FirstSpirit release includes the official release for the use of the “Data Store” in the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: “Data sources” in the FirstSpirit ContentCreator: Official release”.</p>	Content Store, ContentCreator, Database, Editor
CXT-2461	<p>Depending on the project configuration, the EasyEdit icons of multiple elements (e.g., nested sections) are summarized in a toolbar. The area for which the respective action is carried out can then be selected from a pop-up menu.</p> <p>In rare cases, actions for internal elements were not possible. Summarized toolbars are now shown on the innermost element again.</p>	ContentCreator, Editor, Input Components



ID	Description	Categories
DEVEX-457	The latest FSDevTools release includes the manual of the usable parameters in HTML format.  Further information can be found in chapter “External Synchronization / Content Transport: FSDevTools now includes manuals in HTML format”.	Developer, Documentation, External synchronization, FSDevTools, FirstSpirit API

## 9 Categories

### 9.1 Advanced URL

ID	Description
CORE-13904	An error that could cause incorrectly generated links to a page that was defined with SEO-URL as project start page (e.g., “/index.html”) has been eliminated.

### 9.2 Workflow

ID	Description
CORE-13993	An error has been corrected, which could lead to the incorrect transport of permissions when transporting workflow permissions using “fs-cli” (FSDevTools).  <u>Note:</u> If the transport of the permissions did not work correctly, delete the transport directory in the file system and restart the transport. If the directory cannot be deleted, change the respective nodes in the source and restart the transport.

### 9.3 Tasks

ID	Description
CORE-13245	In rare cases, schedules that were set up for a specific day of the week per month were not executed at the right time.



## 9.4 ContentCreator

ID	Description
CORE-13942	In rare cases, a 500 error could occur when starting the FirstSpirit ContentCreator.
CORE-13959	<p>With the latest release, functions that are implemented with FirstSpirit scripts can now be provided in other places in the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Scripts in ContentCreator”.</p>
CXT-1365	An error has been fixed which, in very rare cases, could cause the detail page of a dataset not to be displayed in the ContentCreator after a Refresh (F5).
CXT-1614	<p>Forwarding of pages to external URLs or pages from other FirstSpirit projects</p> <p>Further information can be found in chapter “ContentCreator: Forwarding of pages to external URLs or pages from other FirstSpirit projects”.</p>
CXT-2421	<p>The search for page templates when creating pages has been improved to exclude fewer relevant page templates from search hits.</p> <p>Further information can be found in chapter “ContentCreator: Creating pages: search for templates”.</p>
CXT-2436	<p>Creating pages as reference</p> <p>Further information can be found in chapter “ContentCreator: Creating pages as reference”.</p>
CXT-2438	The user guidance of FS_DATASET and FS_REFERENCE has been aligned: You can now click in the area in FS_REFERENCE components in which the selected element is shown and open the selection dialog as long as no element is selected yet.
CXT-2440	<p>If a page reference is linked with a “Related project”, an error message appeared in the browser console when the page is selected in the ContentCreator.</p> <p>No status will be displayed for such a page because no context element is available.</p>
CXT-2450	Clicking on a link that does not lead to another page ( <code>href</code> attribute, e.g., linked e-mail addresses via <code>mailto</code> ), could result in that the preview was no longer responding and the continuous display of a loading symbol.
CXT-2451	In the InEdit mode, the size of editing windows is now restricted to the size of the preview again, so that the toolbar with the InEdit icons is visible again at all times.





ID	Description
CXT-2459	In some cases, the “Last modification” display in the Element status of a Preview page in the FirstSpirit ContentCreator only took changes to page references (Site Store) into account: if the last change was made to the referenced page (Page Store), it was not listed under “Last modification”, instead, only the last change to the page reference was listed. The latest release visualizes the last change to the page reference or the page, depending on which of the two was changed last.
CXT-2460 CORE-2442	The latest FirstSpirit release includes the official release for the use of the “Data Store” in the FirstSpirit ContentCreator.  Further information can be found in chapter “ContentCreator: “Data sources” in the FirstSpirit ContentCreator: Official release”.
CXT-2461	Depending on the project configuration, the EasyEdit icons of multiple elements (e.g., nested sections) are summarized in a toolbar. The area for which the respective action is carried out can then be selected from a pop-up menu. In rare cases, actions for internal elements were not possible. Summarized toolbars are now shown on the innermost element again.

## 9.5 Database

ID	Description
CXT-1365	An error has been fixed which, in very rare cases, could cause the detail page of a dataset not to be displayed in the ContentCreator after a Refresh (F5).
CXT-2460 CORE-2442	The latest FirstSpirit release includes the official release for the use of the “Data Store” in the FirstSpirit ContentCreator.  Further information can be found in chapter “ContentCreator: “Data sources” in the FirstSpirit ContentCreator: Official release”.

## 9.6 Content Store

ID	Description
CXT-2460 CORE-2442	The latest FirstSpirit release includes the official release for the use of the “Data Store” in the FirstSpirit ContentCreator.



ID	Description
	Further information can be found in chapter “ContentCreator: “Data sources” in the FirstSpirit ContentCreator: Official release”.

## 9.7 Debugging

ID	Description
CORE-13969	The MBean <code>RepositoryManager</code> was enhanced with additional information.
CORE-13973	An error that could cause the unavailability of CSV files that can be downloaded or sent via the Mail icon in the “Codes” area in ServerMonitoring has been corrected.
CORE-13992	Errors when using an LDAP link may now lead to that, in addition to a <code>WARN</code> message, the stacktrace of the corresponding exception will be shown to simplify the error analysis.
CORE-14007	When determining the Health status of the FirstSpirit Server (“ServerMonitoring”/“Health Center”), <code>OutOfMemoryExceptions</code> that were generated on the client side (e.g., in the <code>SiteArchitect</code> ) were erroneously taken into account. This has been corrected so that the server now only takes <code>OutOfMemoryExceptions</code> into account that occur in the Java VM of the server.
CORE-14015	A new attribute has been added to the MBean <code>HealthManager: DownStreamWarnings</code> . In this, a warning is issued if a web application was not started. This warning is now also included in the <code>server-incidents.log</code> file (downloadable in FirstSpirit ServerMonitoring under “FirstSpirit / Monitoring / Codes” via the envelope icon).

## 9.8 Documentation

ID	Description
DEVEX-457	The latest FSDevTools release includes the manual of the usable parameters in HTML format.  Further information can be found in chapter “External Synchronization / Content Transport: FSDevTools now includes manuals in HTML format”.



## 9.9 Input Components

ID	Description
CXT-2438	The user guidance of FS_DATASET and FS_REFERENCE has been aligned: You can now click in the area in FS_REFERENCE components in which the selected element is shown and open the selection dialog as long as no element is selected yet.
CXT-2461	Depending on the project configuration, the EasyEdit icons of multiple elements (e.g., nested sections) are summarized in a toolbar. The area for which the respective action is carried out can then be selected from a pop-up menu. In rare cases, actions for internal elements were not possible. Summarized toolbars are now shown on the innermost element again.

## 9.10 Developer

ID	Description
CORE-12358	Omission of Java Web Start and the “Switch Projects” function  Further information can be found in chapter “General: Omission of Java Web Start and the “Switch Projects” function”.
CORE-13245	In rare cases, schedules that were set up for a specific day of the week per month were not executed at the right time.
CORE-13699	Internal software has been updated in the latest FirstSpirit release.
CORE-13699	Further information can be found in chapter “System: Updates to integrated third-party software”.
CORE-13959	With the latest release, functions that are implemented with FirstSpirit scripts can now be provided in other places in the FirstSpirit ContentCreator.  Further information can be found in chapter “ContentCreator: Scripts in ContentCreator”.
CORE-13969	The MBean <code>RepositoryManager</code> was enhanced with additional information.
CORE-13988	FirstSpirit Content Experience Tools: Latest module versions  Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.



ID	Description
CORE-13993	<p>An error has been corrected, which could lead to the incorrect transport of permissions when transporting workflow permissions using “fs-cli” (FSDevTools).</p> <p><u>Note:</u> If the transport of the permissions did not work correctly, delete the transport directory in the file system and restart the transport. If the directory cannot be deleted, change the respective nodes in the source and restart the transport.</p>
CORE-14018	<p>Modules and extensions for FirstSpirit 2021-11</p> <p>Further information can be found in chapter “Compatibility: Modules and extensions for FirstSpirit 2021-11”.</p>
DEVEX-457	<p>The latest FSDevTools release includes the manual of the usable parameters in HTML format.</p> <p>Further information can be found in chapter “External Synchronization / Content Transport: FSDevTools now includes manuals in HTML format”.</p>

## 9.11 External synchronization

ID	Description
DEVEX-457	<p>The latest FSDevTools release includes the manual of the usable parameters in HTML format.</p> <p>Further information can be found in chapter “External Synchronization / Content Transport: FSDevTools now includes manuals in HTML format”.</p>

## 9.12 FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-13988	<p>FirstSpirit Content Experience Tools: Latest module versions</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.</p>



## 9.13 FirstSpirit Administrator

ID	Description
CORE-12358	<p>Omission of Java Web Start and the “Switch Projects” function</p> <p>Further information can be found in chapter “General: Omission of Java Web Start and the “Switch Projects” function”.</p>
CORE-13245	<p>In rare cases, schedules that were set up for a specific day of the week per month were not executed at the right time.</p>
CORE-13699	<p>Internal software has been updated in the latest FirstSpirit release.</p> <p>Further information can be found in chapter “System: Updates to integrated third-party software”.</p>
CORE-13953	<p>An error has been fixed which, in very rare cases, could cause the closing of a repository or a registry database even though it was still in use.</p>
CORE-13969	<p>The MBean <code>RepositoryManager</code> was enhanced with additional information.</p>
CORE-13973	<p>An error that could cause the unavailability of CSV files that can be downloaded or sent via the Mail icon in the “Codes” area in ServerMonitoring has been corrected.</p>
CORE-13988	<p>FirstSpirit Content Experience Tools: Latest module versions</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.</p>
CORE-13992	<p>Errors when using an LDAP link may now lead to that, in addition to a <code>WARN</code> message, the stacktrace of the corresponding exception will be shown to simplify the error analysis.</p>
CORE-13993	<p>An error has been corrected, which could lead to the incorrect transport of permissions when transporting workflow permissions using “fs-cli” (FSDevTools).</p> <p><b>Note:</b> If the transport of the permissions did not work correctly, delete the transport directory in the file system and restart the transport. If the directory cannot be deleted, change the respective nodes in the source and restart the transport.</p>
CORE-14007	<p>When determining the Health status of the FirstSpirit Server (“ServerMonitoring”/“Health Center”), <code>OutOfMemoryExceptions</code> that were generated on the client side (e.g., in the SiteArchitect) were erroneously taken into account. This has been corrected so that the server now only takes <code>OutOfMemoryExceptions</code> into account that occur in the Java VM of the server.</p>



ID	Description
CORE-14015	<p>A new attribute has been added to the MBean <code>HealthManager: DownStreamWarnings</code>. In this, a warning is issued if a web application was not started.</p> <p>This warning is now also included in the <code>server-incidents.log</code> file (downloadable in FirstSpirit ServerMonitoring under “FirstSpirit / Monitoring / Codes” via the envelope icon).</p>

## 9.14 FirstSpirit API

ID	Description
DEVEX-457	<p>The latest FSDevTools release includes the manual of the usable parameters in HTML format.</p> <p>Further information can be found in chapter “External Synchronization / Content Transport: FSDevTools now includes manuals in HTML format”.</p>

## 9.15 FragmentCreator

ID	Description
CORE-13988	<p>FirstSpirit Content Experience Tools: Latest module versions</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.</p>

## 9.16 FSDevTools

ID	Description
CORE-13993	<p>An error has been corrected, which could lead to the incorrect transport of permissions when transporting workflow permissions using “fs-cli” (FSDevTools).</p> <p><u>Note:</u> If the transport of the permissions did not work correctly, delete the transport directory in the file system and restart the transport. If the directory cannot be deleted, change the respective nodes in the source and restart the transport.</p>
CORE-14018	Modules and extensions for FirstSpirit 2021-11



ID	Description
	Further information can be found in chapter “Compatibility: Modules and extensions for FirstSpirit 2021-11”.
DEVEX-457	The latest FSDevTools release includes the manual of the usable parameters in HTML format.  Further information can be found in chapter “External Synchronization / Content Transport: FSDevTools now includes manuals in HTML format”.

## 9.17 Java

ID	Description
CORE-12358	Omission of Java Web Start and the “Switch Projects” function  Further information can be found in chapter “General: Omission of Java Web Start and the “Switch Projects” function”.

## 9.18 Launcher

ID	Description
CORE-14018	Modules and extensions for FirstSpirit 2021-11  Further information can be found in chapter “Compatibility: Modules and extensions for FirstSpirit 2021-11”.

## 9.19 Media

ID	Description
CORE-13926	An error has been fixed which, in very rare cases, could result in that contents were incorrectly displayed for short periods of time with the use of SSO after the user session had expired.



## 9.20 Modules

ID	Description
CORE-13988	FirstSpirit Content Experience Tools: Latest module versions  Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.
CORE-14018	Modules and extensions for FirstSpirit 2021-11  Further information can be found in chapter “Compatibility: Modules and extensions for FirstSpirit 2021-11”.

## 9.21 Navigation view

ID	Description
CXT-1614	Forwarding of pages to external URLs or pages from other FirstSpirit projects  Further information can be found in chapter “ContentCreator: Forwarding of pages to external URLs or pages from other FirstSpirit projects”.

## 9.22 Performance

ID	Description
CORE-13998	The behavior of FirstSpirit in certain high-load situations has been improved so that the server exhibits a better response behavior in these cases.

## 9.23 Project switch

ID	Description
CORE-12358	Omission of Java Web Start and the “Switch Projects” function





ID	Description
	Further information can be found in chapter “General: Omission of Java Web Start and the “Switch Projects” function”.

## 9.24 Permissions

ID	Description
CORE-13993	<p>An error has been corrected, which could lead to the incorrect transport of permissions when transporting workflow permissions using “fs-cli” (FSDevTools).</p> <p><u>Note:</u> If the transport of the permissions did not work correctly, delete the transport directory in the file system and restart the transport. If the directory cannot be deleted, change the respective nodes in the source and restart the transport.</p>

## 9.25 Editor

ID	Description
CORE-12358	<p>Omission of Java Web Start and the “Switch Projects” function</p> <p>Further information can be found in chapter “General: Omission of Java Web Start and the “Switch Projects” function”.</p>
CORE-13926	An error has been fixed which, in very rare cases, could result in that contents were incorrectly displayed for short periods of time with the use of SSO after the user session had expired.
CORE-13942	In rare cases, a 500 error could occur when starting the FirstSpirit ContentCreator.
CXT-1365	An error has been fixed which, in very rare cases, could cause the detail page of a dataset not to be displayed in the ContentCreator after a Refresh (F5).
CXT-1614	<p>Forwarding of pages to external URLs or pages from other FirstSpirit projects</p> <p>Further information can be found in chapter “ContentCreator: Forwarding of pages to external URLs or pages from other FirstSpirit projects”.</p>
CXT-2421	The search for page templates when creating pages has been improved to exclude fewer relevant page templates from search hits.



ID	Description
	Further information can be found in chapter “ContentCreator: Creating pages: search for templates”.
CXT-2436	<p>Creating pages as reference</p> <p>Further information can be found in chapter “ContentCreator: Creating pages as reference”.</p>
CXT-2438	The user guidance of FS_DATASET and FS_REFERENCE has been aligned: You can now click in the area in FS_REFERENCE components in which the selected element is shown and open the selection dialog as long as no element is selected yet.
CXT-2440	<p>If a page reference is linked with a “Related project”, an error message appeared in the browser console when the page is selected in the ContentCreator.</p> <p>No status will be displayed for such a page because no context element is available.</p>
CXT-2450	Clicking on a link that does not lead to another page ( <code>href</code> attribute, e.g., linked e-mail addresses via <code>mailto</code> ), could result in that the preview was no longer responding and the continuous display of a loading symbol.
CXT-2451	In the InEdit mode, the size of editing windows is now restricted to the size of the preview again, so that the toolbar with the InEdit icons is visible again at all times.
CXT-2459	<p>In some cases, the “Last modification” display in the Element status of a Preview page in the FirstSpirit ContentCreator only took changes to page references (Site Store) into account: if the last change was made to the referenced page (Page Store), it was not listed under “Last modification”, instead, only the last change to the page reference was listed.</p> <p>The latest release visualizes the last change to the page reference or the page, depending on which of the two was changed last.</p>
CXT-2460 CORE-2442	<p>The latest FirstSpirit release includes the official release for the use of the “Data Store” in the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: “Data sources” in the FirstSpirit ContentCreator: Official release”.</p>
CXT-2461	<p>Depending on the project configuration, the EasyEdit icons of multiple elements (e.g., nested sections) are summarized in a toolbar. The area for which the respective action is carried out can then be selected from a pop-up menu.</p> <p>In rare cases, actions for internal elements were not possible. Summarized toolbars are now shown on the innermost element again.</p>



## 9.26 Remote access

ID	Description
CXT-2440	<p>If a page reference is linked with a “Related project”, an error message appeared in the browser console when the page is selected in the ContentCreator.</p> <p>No status will be displayed for such a page because no context element is available.</p>

## 9.27 Repository

ID	Description
CORE-13953	An error has been fixed which, in very rare cases, could cause the closing of a repository or a registry database even though it was still in use.
CORE-13969	The MBean <code>RepositoryManager</code> was enhanced with additional information.

## 9.28 Server Administrator

ID	Description
CORE-13930	In very rare cases, the Downstream Manager may behave erroneously when the FirstSpirit Server is started.
CORE-13973	An error that could cause the unavailability of CSV files that can be downloaded or sent via the Mail icon in the “Codes” area in ServerMonitoring has been corrected.
CORE-13998	The behavior of FirstSpirit in certain high-load situations has been improved so that the server exhibits a better response behavior in these cases.

## 9.29 ServerMonitoring

ID	Description
CORE-13973	An error that could cause the unavailability of CSV files that can be downloaded or sent via the Mail icon in the “Codes” area in ServerMonitoring has been corrected.



ID	Description
CORE-14007	When determining the Health status of the FirstSpirit Server (“ServerMonitoring”/“Health Center”), <code>OutOfMemoryExceptions</code> that were generated on the client side (e.g., in the <code>SiteArchitect</code> ) were erroneously taken into account. This has been corrected so that the server now only takes <code>OutOfMemoryExceptions</code> into account that occur in the Java VM of the server.
CORE-14015	A new attribute has been added to the MBean <code>HealthManager: DownStreamWarnings</code> . In this, a warning is issued if a web application was not started. This warning is now also included in the <code>server-incidents.log</code> file (downloadable in FirstSpirit ServerMonitoring under “FirstSpirit / Monitoring / Codes” via the envelope icon).

### 9.30 SiteArchitect

ID	Description
CORE-12358	Omission of Java Web Start and the “Switch Projects” function  Further information can be found in chapter “General: Omission of Java Web Start and the “Switch Projects” function”.

### 9.31 Sessions

ID	Description
CORE-13926	An error has been fixed which, in very rare cases, could result in that contents were incorrectly displayed for short periods of time with the use of SSO after the user session had expired.

### 9.32 Search

ID	Description
CXT-2421	The search for page templates when creating pages has been improved to exclude fewer relevant page templates from search hits.  Further information can be found in chapter “ContentCreator: Creating pages: search for templates”.



### 9.33 Version history

ID	Description
CXT-2459	<p>In some cases, the “Last modification” display in the Element status of a Preview page in the FirstSpirit ContentCreator only took changes to page references (Site Store) into account: if the last change was made to the referenced page (Page Store), it was not listed under “Last modification”, instead, only the last change to the page reference was listed.</p> <p>The latest release visualizes the last change to the page reference or the page, depending on which of the two was changed last.</p>

### 9.34 Template Store

ID	Description
CORE-13959	<p>With the latest release, functions that are implemented with FirstSpirit scripts can now be provided in other places in the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Scripts in ContentCreator”.</p>

### 9.35 Template Development

ID	Description
CORE-13959	<p>With the latest release, functions that are implemented with FirstSpirit scripts can now be provided in other places in the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Scripts in ContentCreator”.</p>

### 9.36 Webstart

ID	Description
CORE-12358	<p>Omission of Java Web Start and the “Switch Projects” function</p> <p>Further information can be found in chapter “General: Omission of Java Web Start and the “Switch Projects” function”.</p>

