



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2021-10

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1 Administration

1.1 MBean 'HealthManager' was enhanced with additional information

The MBean `HealthManager` now also transmits information to the **web applications** that are included in the delivery of FirstSpirit as standard.

The file `server-incidents.log` (downloadable in FirstSpirit ServerMonitoring under "FirstSpirit / Monitoring / Codes" via the envelope icon) now also contains the following information:

- registrations of the standard web applications
- complete failure of one or more of the standard web applications

Example log messages:

```
WEBAPP INFO 15.09.2021 14:43:59.037 (de.espirit.firstspirit.server.ServerManagerImpl)
  Web application started: fs5root
RUN_LEVEL INFO 27.09.2021 09:09:44.091 (de.espirit.firstspirit.server.RunLevelHolder)
  Reached run level: CORE_WEBAPPS_STARTED(080)
```

Further, the MBean `HealthManager` now also considers the free **hard drive space** for the calculation of the server status.

For all writable and file systems involved on the FirstSpirit server, there are now separate MBeans that can be shown below `HealthManager` MBeans. The relative path in the server directory is used as the name.

If the free space in one of the file systems involved falls below 5% of the file system size or 640 MB (depending on which value is smaller), the server is deemed to be *degraded*, and a warning is issued for the respective file system.

If a warning e-mail is configured in the FirstSpirit ServerManager in case of insufficient available hard drive space (under Server properties / Global server properties / "Warning at"), the percentage is used as a warning limit for the MBeans instead.



If the free space falls below 512 MB, the BerkeleyDB will suspend the write operation.



Insufficient hard drive space is also recorded in the file `server-incidents.log`, e.g.

```
Insufficient free space on '/home/fsserver/Daten/CMSServer4/work
(name=tmpfs, type=tmpfs)' detected, 185.801 MB left on file store.
```

Additionally, the MBean `HealthManager` now also checks the **load** on the server: if it is too high (e.g., as long as more than 5% of the processor time is used for garbage collections), the server is also deemed to be *degraded*. The exceeding and then dropping below the limit is recorded in the file `server-incidents.log`, e.g.

```
High Java VM garbage collection overhead detected: 5.30 %
```

The status of the MBean `HealthManager` of the server is now also visualized in the **FirstSpirit Health Center** (in FirstSpirit ServerMonitoring). There, it is possible to read directly in the status bar above the respective server name in the “FirstSpirit landscape” whether the server is in a problematic state. The color and symbol coding is now as follows:



The checkmark on a green background means that the server is not reporting any current problems.



The exclamation mark on a yellow background means that the server is not reporting any current problems. However, the license will expire in the next 30 days and should be renewed.



The exclamation mark on a red background means that the server is in the *degraded* state.

2 General

2.1 Java-Support: Eclipse Temurin and Java 17

To reduce dependency on Oracle's Java development and also so that longer-term plans can be made for the benefit of our customers, e-Spirit has increased its focus on the use of OpenJDK for some time,



especially from manufacturer [AdoptOpenJDK](#). All AdoptOpenJDK binaries and scripts are licensed in Open Source and available free of charge.

In approx. April 2021, the project “AdoptOpenJDK” switched to the “Eclipse Foundation” and is now called [Eclipse Adoptium](#). The JDK has the name “Temurin”.

The latest releases can be downloaded from <https://adoptium.net>.

See also [AdoptOpenJDK-Blog](#).

Further, Java 17 was published in mid September. JDK 17 is offered by most providers as Long-Term-Support (LTS) version. It follows Java 11, which currently has LTS status.

Internally, the first preparations were made for the test phase for the use of Java 17 (Temurin) with FirstSpirit. The objective is to release Java 17 in a future FirstSpirit release for use with FirstSpirit.

3 ContentCreator

3.1 “FirstSpirit Image Recognition” supports now images in “WebP” format

The “FirstSpirit Image Recognition” module now supports, in addition to the “JPEG” and “PNG” formats, images in “WebP” format:

During the upload, the images are now analyzed, the corresponding metadata is set (if configured) and the focus is set or automatically cropped.

3.2 Function "editorId": Opening forms in a specific language

When using the `editorId` function, forms in ContentCreator are opened in the current language by default (`#global.language`).

The new parameter

```
language
```

can be used to specify a language in which a form should be opened.

The parameter expects the abbreviation of the language or the language object, e.g.




```
<div$CMS_VALUE(editorId(editorName:"st_text", language:"FR"))$>  
<div$CMS_VALUE(editorId(editorName:"st_text", language:#global.getLanguage("FR")))$>
```

For more information about the `editorId` function please see

- <https://docs.e-spirit.com/odfs/template-develo/content-highlig/use-projects/index.html>
- <https://docs.e-spirit.com/odfs/template-develo/template-syntax/functions/instructions/editorid/index.html>

3.3 Improvements in data source management in ContentCreator (BETA)

Currently, the functionality of the “Data source management” in ContentCreator is still in **Beta phase**.

The following improvements have been made with the current release based on customer feedback:

- Columns containing the input component `CMS_INPUT_DATE` are now also displayed in the table view.
When mapping to the data types *Date* or *Long*, sorting is also possible.
- In the data source management of ContentCreator, for media of type “File”, the name is now displayed in the table view (instead of a type icon as before).
“Broken references” are visualized in red font.

For common information about the Beta phase of the “Data source management” in ContentCreator, please see the release notes for FirstSpirit 2021-08 (https://docs.e-spirit.com/odfs/releasenotes/2021-08/FirstSpirit_Releasenotes_EN.pdf).

4 FirstSpirit Content Experience Tools (CXT)

4.1 Latest module versions

FirstSpirit 2021-10 supports the following module versions for “FirstSpirit Content Experience Tools”.

Module / file name	Version number
FirstSpirit CXT Plattform	2.5.0



platform-[version].fsm	
FirstSpirit CXT DAP Bridge	1.44.1
dataservice-[version].fsm	
FirstSpirit CXT FragmentCreator	3.4.2
fragment-creator-[version].fsm	
FirstSpirit Fragment DAP	1.40.2
fragmentdap-[version].fsm	
FirstSpirit Media DAP	1.31.2*
mediadap-[version].fsm	
FirstSpirit PageRef DAP	1.9.2
pagerefdap-[version].fsm	
FirstSpirit Markdown Editor	1.29.1*
markdown-editor-[version].fsm	
FirstSpirit Tagging Editor	1.29.1
tagging-editor-[version].fsm	
FirstSpirit CXT FragmentCreator - CaaS Integration	1.31.2
caas-integration-[version].fsm	

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

4.2 Checking status pages "allowedRedirectHosts"

Via the parameter

```
allowedRedirectHosts
```

URLs to which redirecting is allowed can be defined.

The status pages that can be set up for the CXT platform and the FragmentCreator (each under ~/status) now also check the configuration of this parameter.

The parameter can be configured in FirstSpirit, e.g. in the file `fs-server.conf`.

If the configuration is incorrect (which means the current host is not configured with the parameter `allowedRedirectHosts`), an error message is recorded in the log and a corresponding error message is displayed in the browser console.



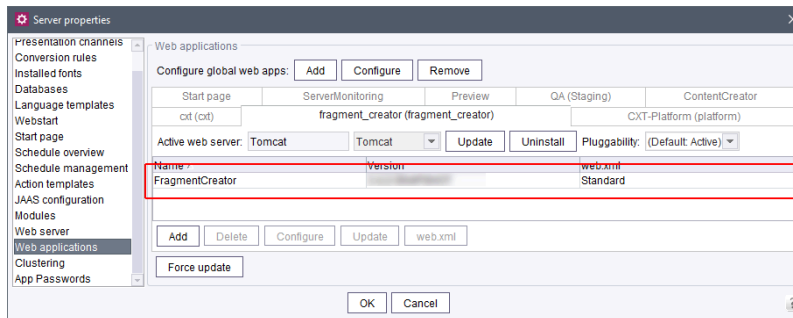
Note on the status page in the event of an error:

External hostname is not allowed as a redirect host in the FirstSpirit server configuration.

4.3 Configuring the time limit for connections to FirstSpirit

With the new parameter `cxt.platform.firstspirit.connection-timeout`, a time limit (in seconds) can be defined for the FragmentCreator, after which the FirstSpirit connections are disconnected automatically again when they are no longer in use.

The parameter can be defined in the file `web.xml` of the WebApp component “FragmentCreator”, which is configured in the matching global web application for the FragmentCreator (“FirstSpirit ServerManager / Server properties / Web applications”):



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

A value that is too low can result in that users are unexpectedly logged out. However, a high value maintains multiple connections when users close their browser without logging out.

The default setting provides that connections are automatically disconnected after 12 hours when they are no longer in use.

Excerpt from the default `web.xml`:

```
<context-param>
  <param-name>cxt.platform.firstspirit.connection-timeout</param-name>
  <param-value>43200</param-value>
</context-param>
```



5 Compatibility

5.1 Modules and extensions for FirstSpirit 2021-10

The following modules and extensions are compatible with FirstSpirit 2021-10:

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	1.0.41	as of FirstSpirit 2018-08
FirstSpirit Launcher JRE module fs-launcher-jre- [version].fsm	1.19	as of FirstSpirit 2020-11
FirstSpirit SAML Login module fs-saml-login- [version].fsm	1.3	as of FirstSpirit 2019-02
FSDevTools fs-cli-[version].tar.gz fs-cli-[version].zip	3.0.2	as of FirstSpirit 2021-07
FirstSpirit Module Gradle Plugin firstspirit-module- gradle-plugin- [version].jar	2.3.2	as of FirstSpirit 2019-06

6 Module Development, Scripts, API

6.1 Workflows: Determination of permissions via 'isTransitionAllowed'

The interface `WorkflowAgent` (FirstSpirit Developer-API, Package `de.espirit.firstspirit.workflow`) was expanded with the method



```
isTransitionAllowed
```

This method determines if a transition can be executed by a specific user on a specific store element.

In contrast, the method `getTransitionPermission (Transition transition)` in the interface `WorkflowPermission (FirstSpirit Access-API, Package de.espirit.firstspirit.access.store.templatestore)` determines the authorization of a transition, but potentially modifies the permission model and generates a new `WorkflowTransitionPermission`, when no permissions have been defined for the respective transition yet. The API documentation has now been clarified with the current release at this point. Instead, the new method `isTransitionAllowed` should now be used.

The method

```
isWorkflowAllowed
```

of the interface `StoreElement (FirstSpirit Access-API, Package de.espirit.firstspirit.access.store)` can be used prior to starting a workflow to test if starting is categorically permitted for the respective workflow and the respective store element.

6.2 `getPageRefs()`: Determining page references of a page

With API, the page references of a page can now be determined with the convenience method

```
<page>.getPageRefs()
```

(FirstSpirit Access-API, Package `de.espirit.firstspirit.access.store.pagestore`, Interface `Page`)

7 System

7.1 Updates to integrated third-party software

As of the current release, the following internally used software has been updated:



- **Spring Boot** (used for MicroApp Framework)
Update to version 2.5.4

8 Template development

8.1 Receiving "Dataset" instead of "Entity"

The current release now includes a new method that makes it possible in a template from an `Entity` (which, for example, is generated by the “contentSelect” function) to receive a `Dataset`:

```
getDataset
```

This method expects the input of a reference name of the respective table template in quotation marks, e.g.

```
getDataset("products.product")
```

If the `Dataset` cannot be determined, `null` is returned.

Example:

```
$CMS_FOR(_entity, cs_press_releases)$  
  $CMS_SET(_dataset, _entity.getDataset("products.product"))$  
  $-- ... --$  
$CMS_END_FOR$
```

Here `cs_press_releases` is the variable / identifier of the `contentSelect` function, `products.product` is the reference name of the table template.

Alternatively, the following notation can be used. In this case, the conversion already takes place when the `FOR` loop is called.

```
$CMS_FOR(_dataset, cs_press_releases.map(entity->entity.getDataset("products.product")))$  
  $-- ... --$  
$CMS_END_FOR$
```



For more information, see:

- <https://docs.e-spirit.com/odfs/template-develo/template-syntax/data-types/entity/index.html>
- <https://docs.e-spirit.com/odfs/template-develo/template-syntax/functions/header/contentselect/index.html>

8.2 JSON: Validity period / lifespan of sections (attribute 'lifespan')

As of the current release, the JSON output now also includes information about section validity periods, if available.

For this purpose the new attribute

```
lifespan
```

has been introduced.

If a certain validity period is set, the additional attribute `lifespan` is output with the section.

This attribute always has a value for the start time:

```
...
"lifespan": {
    "start": "2021-10-15T14:00:00Z",
}
```

For unlimited validity periods, no end time is output.

For validity periods with a time limit, the end time is also output:

```
...
"lifespan": {
    "start": "2021-10-15T14:00:00Z",
    "end": "2021-12-31T23:59:59Z",
}
```

Example output of a section:



```

{
    "fsType": "Section",
    "name": "cms_input_text",
    "displayName": "CMS_INPUT_TEXT",
    "identifier": "1df5eccf-c5ac-40ab-805a-6411c8dc3b69",
    "lifespan": {
        "start": "2021-10-02T11:46:06Z",
        "end": "2021-10-03T11:46:09Z"
    }
}

```

9 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_OBJECTCHOOSE	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	



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



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

10 Overview

ID	Description	Categories
CORE-12664	<p>With the new method <code>getDataset</code> it is possible in templates from an <code>Entity</code> (which, for example, is generated by a “contentSelect” function) to determine a <code>Dataset</code>.</p> <p>Further information can be found in chapter “Template development: Receiving “Dataset” instead of “Entity””.</p>	Content Store, Database, Developer, FirstSpirit API, Template Development
CORE-12673	<p>The new parameter <code>language</code> can be used to submit a language to the <code>editorId</code> function in which a form should be opened.</p> <p>Further information can be found in chapter “ContentCreator: Function “editorId”: Opening forms in a specific language”.</p>	ContentCreator, Developer, Input Components, Languages, Template Development
CORE-13127	<p>With API, the page references of a page can now be determined with convenience method.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: <code>getPageRefs()</code>: Determining page references of a page”.</p>	Developer, Module development



ID	Description	Categories
CORE-13657	<p>Thanks to a workaround that bypasses a problem in the current Microsoft SQL Server JDBC drivers, they can now also be used in FirstSpirit.</p> <p>In this context, a general operability of Version 2019 with FirstSpirit was determined.</p>	Content Store, Database, Developer, FirstSpirit Administrator
CORE-13759	<p>In the project component “FirstSpirit AdvancedUrlFactory Configuration”, the project-specific conversion rule <i>-CUSTOM-</i> is now persistent: Changing the rule from <i>-CUSTOM-</i> to another no longer resets the rule <i>-CUSTOM-</i>.</p>	Advanced URL, Developer, FirstSpirit Administrator, Generation
CORE-13784	<p>An error has been eliminated that, in very rare cases, could result in that a <code>java.lang.IllegalStateException: failed to load Entity type: error message</code> was displayed when accessing an entity.</p>	Database, Developer
CORE-13837	<p>Fixed an error that could cause the schedule to create a Content Transport feature to fail if the archiving feature was used in the project.</p>	Archiving, Content Transport, FirstSpirit Administrator, Tasks
CORE-13860	<p>Some texts of the interface of the <code>DatasetDataAccessPlugin</code> (for referencing of datasets) in the ContentCreator were displayed in the incorrect client language.</p>	ContentCreator, Editor
CORE-13870	<p>Links from the FirstSpirit Online Documentation to the API Documentation (FirstSpirit Access-API, FirstSpirit Developer-API, Java SE Core-API) are working again after converting the design of the API Documentation of Oracle, Version 11+.</p>	Developer, Documentation, FirstSpirit API
CORE-13877	<p>The new <code>isTransitionAllowed</code> method determines if a transition can be executed by a specific user on a specific store element.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Workflows: Determination of permissions via 'isTransitionAllowed'”.</p>	Developer, FirstSpirit API, Workflow



ID	Description	Categories
CORE-13880 CORE-13832 CORE-13859 CORE-13867 CORE-13895	<p>The MBean <code>HealthManager</code> was enhanced with additional information.</p> <p>Further information can be found in chapter “Administration: MBean ‘HealthManager’ was enhanced with additional information”.</p>	Debugging, FirstSpirit Administrator, Monitoring, Performance, ServerMonitoring
CORE-13901	<p>FirstSpirit Content Experience Tools: Latest module versions</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.</p>	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Modules
CORE-13910	<p>Update of internally used software.</p> <p>Further information can be found in chapter “System: Updates to integrated third-party software”.</p>	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT)
CORE-13916	<p>Searching in the online help in the FirstSpirit ContentCreator now returns search results again.</p>	ContentCreator, Documentation, Editor, Search
CORE-13932	<p>AdoptOpenJDK is now called “Temurin” and Java 17 was published</p> <p>Further information can be found in chapter “General: Java-Support: Eclipse Temurin and Java 17”.</p>	Developer, FirstSpirit Administrator, Java
CORE-13946	<p>As of the current release, the JSON output now also includes information about section validity periods, if available.</p> <p>Further information can be found in chapter “Template development: JSON: Validity period / lifespan of sections (attribute 'lifespan)’”.</p>	Developer, Page Store, Support for JSON
CORE-13966	<p>Modules and extensions for FirstSpirit 2021-10</p> <p>Further information can be found in chapter “Compatibility: Modules and extensions for FirstSpirit 2021-10”.</p>	Developer, FSDevTools, Launcher, Modules



ID	Description	Categories
CXT-1935	It is not possible to move a section in the navigation bar to a content area that is not approved for the section type. The corresponding information will now be displayed. In the past, only an error was shown in the console in this case.	ContentCreator, Editor
CXT-2096	<p>The “FirstSpirit Image Recognition” module now also supports “WebP” format images.</p> <p>Further information can be found in chapter “ContentCreator: “FirstSpirit Image Recognition” supports now images in “WebP” format”.</p>	ContentCreator, Editor, Media
CXT-2295	<p>The status pages of the CXT platform and the FragmentCreator now also check the configuration of <code>allowedRedirectHosts</code>.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Checking status pages “allowedRedirectHosts””.</p>	Debugging, Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-2341	<p>With the new parameter <code>cxt.platform.firstspirit.connection-timeout</code>, a time limit can be defined for the FragmentCreator, after which the FirstSpirit connections will be disconnected automatically again when they are no longer in use.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Configuring the time limit for connections to FirstSpirit”.</p>	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT)
CXT-2409	In rare cases, a display problem occurred during the creation of sections in ContentCreator: Only a white page was shown. A reload was required to display the page correctly again.	ContentCreator, Editor
CXT-2417 CXT-2425	<p>Improvements in data source management in ContentCreator (BETA)</p> <p>Further information can be found in chapter “ContentCreator: Improvements in data source management in ContentCreator (BETA)”.</p>	Content Store, ContentCreator, Editor, Input Components, Media



ID	Description	Categories
CXT-2422	Lists in the input component FS_MARKDOWN (type “Quill”) in the FragmentCreator were not always stored correctly.	Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator

11 Categories

11.1 Advanced URL

ID	Description
CORE-13759	In the project component “FirstSpirit AdvancedUrlFactory Configuration”, the project-specific conversion rule <i>-CUSTOM-</i> is now persistent: Changing the rule from <i>-CUSTOM-</i> to another no longer resets the rule <i>-CUSTOM-</i> .

11.2 Workflow

ID	Description
CORE-13877	<p>The new <code>isTransitionAllowed</code> method determines if a transition can be executed by a specific user on a specific store element.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Workflows: Determination of permissions via 'isTransitionAllowed'”.</p>

11.3 Archiving

ID	Description
CORE-13837	Fixed an error that could cause the schedule to create a Content Transport feature to fail if the archiving feature was used in the project.



11.4 Tasks

ID	Description
CORE-13837	Fixed an error that could cause the schedule to create a Content Transport feature to fail if the archiving feature was used in the project.

11.5 Content Transport

ID	Description
CORE-13837	Fixed an error that could cause the schedule to create a Content Transport feature to fail if the archiving feature was used in the project.

11.6 ContentCreator

ID	Description
CORE-12673	<p>The new parameter <code>language</code> can be used to submit a language to the <code>editorId</code> function in which a form should be opened.</p> <p>Further information can be found in chapter “ContentCreator: Function "editorId": Opening forms in a specific language”.</p>
CORE-13860	Some texts of the interface of the <code>DatasetDataAccessPlugin</code> (for referencing of datasets) in the ContentCreator were displayed in the incorrect client language.
CORE-13916	Searching in the online help in the FirstSpirit ContentCreator now returns search results again.
CXT-1935	It is not possible to move a section in the navigation bar to a content area that is not approved for the section type. The corresponding information will now be displayed. In the past, only an error was shown in the console in this case.
CXT-2096	<p>The “FirstSpirit Image Recognition” module now also supports “WebP” format images.</p> <p>Further information can be found in chapter “ContentCreator: “FirstSpirit Image Recognition” supports now images in “WebP” format”.</p>
CXT-2409	In rare cases, a display problem occurred during the creation of sections in ContentCreator: Only a white page was shown. A reload was required to display the page correctly again.



ID	Description
CXT-2417	Improvements in data source management in ContentCreator (BETA)
CXT-2425	Further information can be found in chapter "ContentCreator: Improvements in data source management in ContentCreator (BETA)".

11.7 Database

ID	Description
CORE-12664	<p>With the new method <code>getDataset</code> it is possible in templates from an <code>Entity</code> (which, for example, is generated by a "contentSelect" function) to determine a <code>Dataset</code>.</p> <p>Further information can be found in chapter "Template development: Receiving "Dataset" instead of "Entity"".</p>
CORE-13657	<p>Thanks to a workaround that bypasses a problem in the current Microsoft SQL Server JDBC drivers, they can now also be used in FirstSpirit.</p> <p>In this context, a general operability of Version 2019 with FirstSpirit was determined.</p>
CORE-13784	<p>An error has been eliminated that, in very rare cases, could result in that a <code>java.lang.IllegalStateException: failed to load Entity type: error message</code> was displayed when accessing an entity.</p>

11.8 Content Store

ID	Description
CORE-12664	<p>With the new method <code>getDataset</code> it is possible in templates from an <code>Entity</code> (which, for example, is generated by a "contentSelect" function) to determine a <code>Dataset</code>.</p> <p>Further information can be found in chapter "Template development: Receiving "Dataset" instead of "Entity"".</p>
CORE-13657	<p>Thanks to a workaround that bypasses a problem in the current Microsoft SQL Server JDBC drivers, they can now also be used in FirstSpirit.</p> <p>In this context, a general operability of Version 2019 with FirstSpirit was determined.</p>
CXT-2417	Improvements in data source management in ContentCreator (BETA)



ID	Description
CXT-2425	Further information can be found in chapter “ContentCreator: Improvements in data source management in ContentCreator (BETA)”.

11.9 Debugging

ID	Description
CORE-13880	The MBean <code>HealthManager</code> was enhanced with additional information.
CORE-13832	Further information can be found in chapter “Administration: MBean ‘HealthManager’ was enhanced with additional information”.
CORE-13859	
CORE-13867	
CORE-13895	
CXT-2295	The status pages of the CXT platform and the FragmentCreator now also check the configuration of <code>allowedRedirectHosts</code> . Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Checking status pages “allowedRedirectHosts””.

11.10 Documentation

ID	Description
CORE-13870	Links from the FirstSpirit Online Documentation to the API Documentation (FirstSpirit Access-API, FirstSpirit Developer-API, Java SE Core-API) are working again after converting the design of the API Documentation of Oracle, Version 11+.
CORE-13916	Searching in the online help in the FirstSpirit ContentCreator now returns search results again.

11.11 Input Components

ID	Description
CORE-12673	The new parameter <code>language</code> can be used to submit a language to the <code>editorId</code> function in which a form should be opened.



ID	Description
	Further information can be found in chapter “ContentCreator: Function "editorId": Opening forms in a specific language”.
CXT-2417	Improvements in data source management in ContentCreator (BETA)
CXT-2425	Further information can be found in chapter “ContentCreator: Improvements in data source management in ContentCreator (BETA)”.

11.12 Developer

ID	Description
CORE-12664	<p>With the new method <code>getDataset</code> it is possible in templates from an <code>Entity</code> (which, for example, is generated by a “contentSelect” function) to determine a <code>Dataset</code>.</p> <p>Further information can be found in chapter “Template development: Receiving "Dataset" instead of "Entity"”.</p>
CORE-12673	<p>The new parameter <code>language</code> can be used to submit a language to the <code>editorId</code> function in which a form should be opened.</p> <p>Further information can be found in chapter “ContentCreator: Function "editorId": Opening forms in a specific language”.</p>
CORE-13127	<p>With API, the page references of a page can now be determined with convenience method.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: <code>getPageRefs()</code>: Determining page references of a page”.</p>
CORE-13657	<p>Thanks to a workaround that bypasses a problem in the current Microsoft SQL Server JDBC drivers, they can now also be used in FirstSpirit.</p> <p>In this context, a general operability of Version 2019 with FirstSpirit was determined.</p>
CORE-13759	<p>In the project component “FirstSpirit AdvancedUrlFactory Configuration”, the project-specific conversion rule <code>-CUSTOM-</code> is now persistent: Changing the rule from <code>-CUSTOM-</code> to another no longer resets the rule <code>-CUSTOM-</code>.</p>
CORE-13784	<p>An error has been eliminated that, in very rare cases, could result in that a <code>java.lang.IllegalStateException: failed to load Entity type: error message</code> was displayed when accessing an entity.</p>



ID	Description
CORE-13870	Links from the FirstSpirit Online Documentation to the API Documentation (FirstSpirit Access-API, FirstSpirit Developer-API, Java SE Core-API) are working again after converting the design of the API Documentation of Oracle, Version 11+.
CORE-13877	<p>The new <code>isTransitionAllowed</code> method determines if a transition can be executed by a specific user on a specific store element.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Workflows: Determination of permissions via 'isTransitionAllowed'”.</p>
CORE-13901	<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-13910	<p>Update of internally used software.</p> <p>Further information can be found in chapter “System: Updates to integrated third-party software”.</p>
CORE-13932	<p>AdoptOpenJDK is now called “Temurin” and Java 17 was published</p> <p>Further information can be found in chapter “General: Java-Support: Eclipse Temurin and Java 17”.</p>
CORE-13946	<p>As of the current release, the JSON output now also includes information about section validity periods, if available.</p> <p>Further information can be found in chapter “Template development: JSON: Validity period / lifespan of sections (attribute 'lifespan)’”.</p>
CORE-13966	<p>Modules and extensions for FirstSpirit 2021-10</p> <p>Further information can be found in chapter “Compatibility: Modules and extensions for FirstSpirit 2021-10”.</p>
CXT-2295	<p>The status pages of the CXT platform and the FragmentCreator now also check the configuration of <code>allowedRedirectHosts</code>.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Checking status pages "allowedRedirectHosts””.</p>



ID	Description
CXT-2341	<p>With the new parameter <code>cxt.platform.firstspirit.connection-timeout</code>, a time limit can be defined for the FragmentCreator, after which the FirstSpirit connections will be disconnected automatically again when they are no longer in use.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Configuring the time limit for connections to FirstSpirit”.</p>

11.13 FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-13901	<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-13910	<p>Update of internally used software.</p> <p>Further information can be found in chapter “System: Updates to integrated third-party software”.</p>
CXT-2295	<p>The status pages of the CXT platform and the FragmentCreator now also check the configuration of <code>allowedRedirectHosts</code>.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Checking status pages “allowedRedirectHosts””.</p>
CXT-2341	<p>With the new parameter <code>cxt.platform.firstspirit.connection-timeout</code>, a time limit can be defined for the FragmentCreator, after which the FirstSpirit connections will be disconnected automatically again when they are no longer in use.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Configuring the time limit for connections to FirstSpirit”.</p>
CXT-2422	<p>Lists in the input component FS_MARKDOWN (type “Quill”) in the FragmentCreator were not always stored correctly.</p>



11.14 FirstSpirit Administrator

ID	Description
CORE-13657	Thanks to a workaround that bypasses a problem in the current Microsoft SQL Server JDBC drivers, they can now also be used in FirstSpirit. In this context, a general operability of Version 2019 with FirstSpirit was determined.
CORE-13759	In the project component “FirstSpirit AdvancedUrlFactory Configuration”, the project-specific conversion rule <i>-CUSTOM-</i> is now persistent: Changing the rule from <i>-CUSTOM-</i> to another no longer resets the rule <i>-CUSTOM-</i> .
CORE-13837	Fixed an error that could cause the schedule to create a Content Transport feature to fail if the archiving feature was used in the project.
CORE-13880 CORE-13832 CORE-13859 CORE-13867 CORE-13895	The MBean <code>HealthManager</code> was enhanced with additional information. Further information can be found in chapter “Administration: MBean ‘HealthManager’ was enhanced with additional information”.
CORE-13901	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.
CORE-13910	Update of internally used software. Further information can be found in chapter “System: Updates to integrated third-party software”.
CORE-13932	AdoptOpenJDK is now called “Temurin” and Java 17 was published Further information can be found in chapter “General: Java-Support: Eclipse Temurin and Java 17”.
CXT-2295	The status pages of the CXT platform and the FragmentCreator now also check the configuration of <code>allowedRedirectHosts</code> . Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Checking status pages “allowedRedirectHosts””.
CXT-2341	With the new parameter <code>cxt.platform.firstspirit.connection-timeout</code> , a time limit can be defined for the FragmentCreator, after which the FirstSpirit connections will be disconnected automatically again when they are no longer in use.



ID	Description
	Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Configuring the time limit for connections to FirstSpirit”.

11.15 FirstSpirit API

ID	Description
CORE-12664	<p>With the new method <code>getDataset</code> it is possible in templates from an <code>Entity</code> (which, for example, is generated by a “contentSelect” function) to determine a <code>Dataset</code>.</p> <p>Further information can be found in chapter “Template development: Receiving "Dataset" instead of "Entity"”.</p>
CORE-13870	Links from the FirstSpirit Online Documentation to the API Documentation (FirstSpirit Access-API, FirstSpirit Developer-API, Java SE Core-API) are working again after converting the design of the API Documentation of Oracle, Version 11+.
CORE-13877	<p>The new <code>isTransitionAllowed</code> method determines if a transition can be executed by a specific user on a specific store element.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Workflows: Determination of permissions via 'isTransitionAllowed'”.</p>

11.16 FragmentCreator

ID	Description
CORE-13901	<p>FirstSpirit Content Experience Tools: Latest module versions</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.</p>
CXT-2295	<p>The status pages of the CXT platform and the FragmentCreator now also check the configuration of <code>allowedRedirectHosts</code>.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Checking status pages "allowedRedirectHosts"”.</p>



ID	Description
CXT-2422	Lists in the input component FS_MARKDOWN (type “Quill”) in the FragmentCreator were not always stored correctly.

11.17 FSDevTools

ID	Description
CORE-13966	<p>Modules and extensions for FirstSpirit 2021-10</p> <p>Further information can be found in chapter “Compatibility: Modules and extensions for FirstSpirit 2021-10”.</p>

11.18 Generation

ID	Description
CORE-13759	<p>In the project component “FirstSpirit AdvancedUrlFactory Configuration”, the project-specific conversion rule <i>-CUSTOM-</i> is now persistent: Changing the rule from <i>-CUSTOM-</i> to another no longer resets the rule <i>-CUSTOM-</i>.</p>

11.19 Page Store

ID	Description
CORE-13946	<p>As of the current release, the JSON output now also includes information about section validity periods, if available.</p> <p>Further information can be found in chapter “Template development: JSON: Validity period / lifespan of sections (attribute 'lifespan')”.</p>



11.20 Java

ID	Description
CORE-13932	AdoptOpenJDK is now called “Temurin” and Java 17 was published Further information can be found in chapter “General: Java-Support: Eclipse Temurin and Java 17”.

11.21 Support for JSON

ID	Description
CORE-13946	As of the current release, the JSON output now also includes information about section validity periods, if available. Further information can be found in chapter “Template development: JSON: Validity period / lifespan of sections (attribute 'lifespan')”.

11.22 Launcher

ID	Description
CORE-13966	Modules and extensions for FirstSpirit 2021-10 Further information can be found in chapter “Compatibility: Modules and extensions for FirstSpirit 2021-10”.

11.23 Media

ID	Description
CXT-2096	The “FirstSpirit Image Recognition” module now also supports “WebP” format images. Further information can be found in chapter “ContentCreator: “FirstSpirit Image Recognition” supports now images in “WebP” format”.



ID	Description
CXT-2417	Improvements in data source management in ContentCreator (BETA)
CXT-2425	Further information can be found in chapter “ContentCreator: Improvements in data source management in ContentCreator (BETA)”.

11.24 Module development

ID	Description
CORE-13127	With API, the page references of a page can now be determined with convenience method. Further information can be found in chapter “Module Development, Scripts, API: getPageRefs(): Determining page references of a page”.

11.25 Modules

ID	Description
CORE-13901	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.
CORE-13966	Modules and extensions for FirstSpirit 2021-10 Further information can be found in chapter “Compatibility: Modules and extensions for FirstSpirit 2021-10”.

11.26 Monitoring

ID	Description
CORE-13880	The MBean <code>HealthManager</code> was enhanced with additional information.
CORE-13832	Further information can be found in chapter “Administration: MBean ‘HealthManager’ was enhanced with additional information”.
CORE-13859	
CORE-13867	
CORE-13867	



ID	Description
CORE-13895	

11.27 Performance

ID	Description
CORE-13880	The MBean <code>HealthManager</code> was enhanced with additional information.
CORE-13832	
CORE-13859	Further information can be found in chapter “Administration: MBean ‘HealthManager’ was enhanced with additional information”.
CORE-13867	
CORE-13895	

11.28 Editor

ID	Description
CORE-13860	Some texts of the interface of the <code>DatasetDataAccessPlugin</code> (for referencing of datasets) in the ContentCreator were displayed in the incorrect client language.
CORE-13916	Searching in the online help in the FirstSpirit ContentCreator now returns search results again.
CXT-1935	It is not possible to move a section in the navigation bar to a content area that is not approved for the section type. The corresponding information will now be displayed. In the past, only an error was shown in the console in this case.
CXT-2096	The “FirstSpirit Image Recognition” module now also supports “WebP” format images. Further information can be found in chapter “ContentCreator: “FirstSpirit Image Recognition” supports now images in “WebP” format”.
CXT-2409	In rare cases, a display problem occurred during the creation of sections in ContentCreator: Only a white page was shown. A reload was required to display the page correctly again.
CXT-2417	Improvements in data source management in ContentCreator (BETA) Further information can be found in chapter “ContentCreator: Improvements in data source management in ContentCreator (BETA)”.
CXT-2425	



ID	Description
CXT-2422	Lists in the input component FS_MARKDOWN (type "Quill") in the FragmentCreator were not always stored correctly.

11.29 ServerMonitoring

ID	Description
CORE-13880	The MBean <code>HealthManager</code> was enhanced with additional information.
CORE-13832	Further information can be found in chapter "Administration: MBean 'HealthManager' was enhanced with additional information".
CORE-13859	
CORE-13867	
CORE-13895	

11.30 Languages

ID	Description
CORE-12673	<p>The new parameter <code>language</code> can be used to submit a language to the <code>editorId</code> function in which a form should be opened.</p> <p>Further information can be found in chapter "ContentCreator: Function "editorId": Opening forms in a specific language".</p>

11.31 Search

ID	Description
CORE-13916	Searching in the online help in the FirstSpirit ContentCreator now returns search results again.



11.32 Template Development

ID	Description
CORE-12664	<p>With the new method <code>getDataset</code> it is possible in templates from an <code>Entity</code> (which, for example, is generated by a “contentSelect” function) to determine a <code>Dataset</code>.</p> <p>Further information can be found in chapter “Template development: Receiving "Dataset" instead of "Entity"”.</p>
CORE-12673	<p>The new parameter <code>language</code> can be used to submit a language to the <code>editorId</code> function in which a form should be opened.</p> <p>Further information can be found in chapter “ContentCreator: Function "editorId": Opening forms in a specific language”.</p>

