



# FirstSpirit™

*Unlock Your Content*

## Release Notes

### FirstSpirit™ 2020-12

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## 1 ContentCreator

### 1.1 Handling of language-independent script-based dialogs and behavior of "ShowFormDialogOperation"

Forms and rules ("Dynamic forms") can be defined for FirstSpirit scripts (like all template types). The form can then be displayed in the desired position via

```
context.showForm();
```

The validation (evaluation of the rules) can be deactivated on a language-specific basis so that rules defined for the form are ignored for the language(s) in question (FirstSpirit ServerManager / Project properties / Languages, "Validate language" checkbox).

Previously, in the case of **language-independent** forms, rules were not evaluated in ContentCreator in some cases as the preview language was taken into account for the form rather than the master language.

With the latest release, the setting in the project properties ("Languages", "Validate language" checkbox) will be taken into account according to the master language in the case of language-independent forms as well (in the same way as in FirstSpirit SiteArchitect).

Furthermore, the use of `ShowFormDialogOperation` (`de.espirit.firstspirit.ui.operations` package, FirstSpirit Developer API) has been adapted to the behavior of SiteArchitect. This interface can be used to create and configure project-specific dialogs.

- Preselection of the language: `setPreselectedLanguage(...)`  
If `setPreselectedLanguage(...)` is not defined, the dialog is opened in the master language.



- Definition of language set: `setMultiLanguage(...)`  
For language-dependent (multilingual) forms, it is necessary to call `setMultiLanguage(true)`. The language set to be edited is transferred to `perform(...)` and can then be selected in the dialog via the menu.  
Alternatively, `setMultiLanguage(false)` (default) can be used if content is only to be changed in one specified language. If multiple languages are transferred with `perform(...)` in this case, only the preselected or first language can be edited and a debug log message will be output.

Example:

```
...
import de.espirit.firstspirit.agency.FormsAgent;
import de.espirit.firstspirit.agency.LanguageAgent;
import de.espirit.firstspirit.agency.OperationAgent;
import de.espirit.firstspirit.ui.operations.ShowFormDialogOperation;
...
formsAgent = context.requireSpecialist(FormsAgent.TYPE);
form = formsAgent.getForm(formdefinition);
la = context.requireSpecialist(LanguageAgent.TYPE);
langs = la.getLanguages();
en = la.getProjectLanguages(false).get("EN");
de = la.getProjectLanguages(false).get("DE");
fr = la.getProjectLanguages(false).get("FR");
sfd = context.requireSpecialist(OperationAgent.TYPE).getOperation
    (ShowFormDialogOperation.TYPE);
sfd.setTitle("My form");
sfd.setMultiLanguage(true);
sfd.setPreselectedLanguage(fr);
sfd.setRuleset(rules);
sfd.setValidation(true);
sfd.perform(form, langs);
```

In this example, the dialog is opened with the predefined language ("FR"). The language can be selected in the dialog via the menu.

## 1.2 Navigation view: New functions

In FirstSpirit ContentCreator, the structure of a site is mapped by means of menu items and pages:  
While every **page**





represents a concrete web page, each **menu item**



corresponds to a menu item in the site navigation.

### Defining start menus/pages

Depending on the site structure, a menu item may comprise not only several sub-menu items, but also several different pages. Equally, there can be menu items which do not have any pages.

Previously, it was only possible to set which specific page or menu item is opened when the user clicks on menu items on the site via FirstSpirit SiteArchitect.

With the latest release, this can now also be controlled via FirstSpirit ContentCreator using the following context menu functions in the navigation view:

- **Set as default start menu**

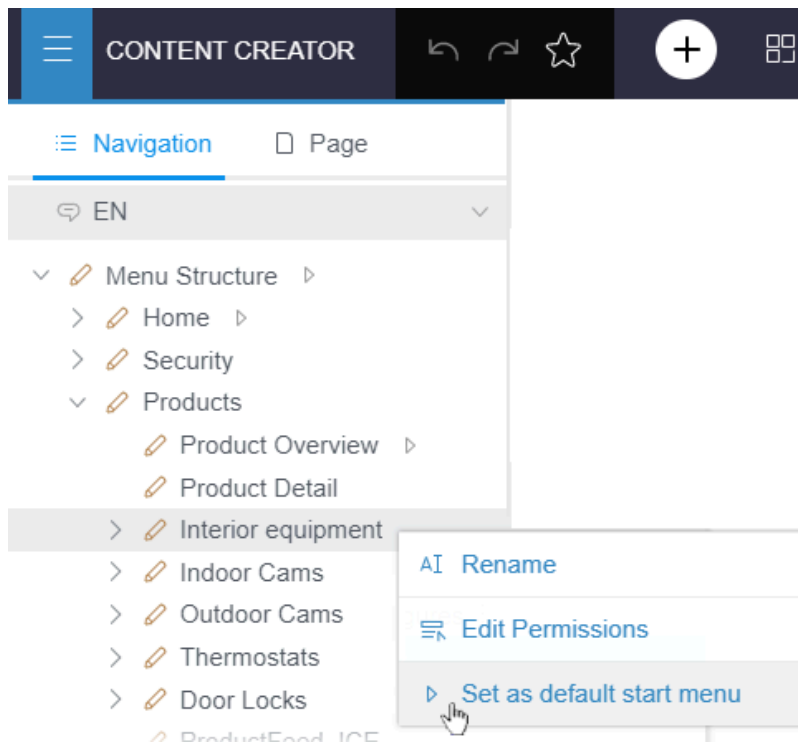
If a menu item has no concrete page or several sub-menu items, clicking on the corresponding menu item on the site takes the user directly to the pages in the subpages set as the “default start menu”.

- **Set as start page**

If there are several pages on a menu level, clicking on the corresponding menu item on the site displays the page set as the “start page”.







Changes in this area must be released in order to appear on the site.

Which element is the start menu/page in each case can be checked in the navigation view via the

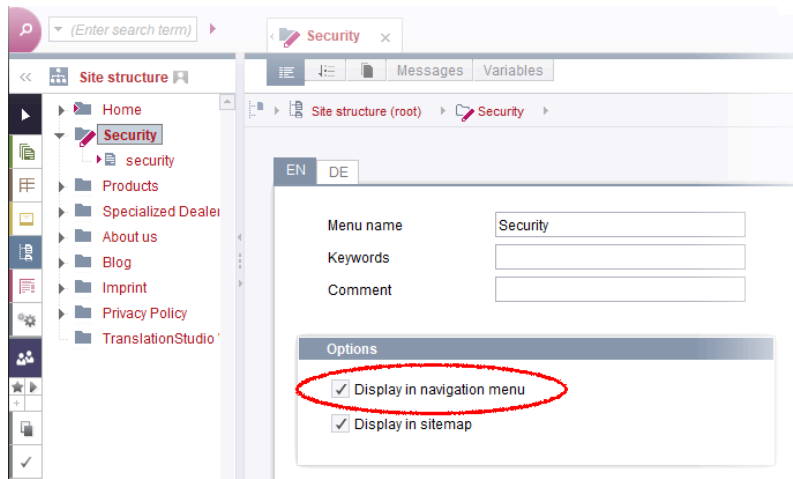


icon.

### Controlling visibility of menu items

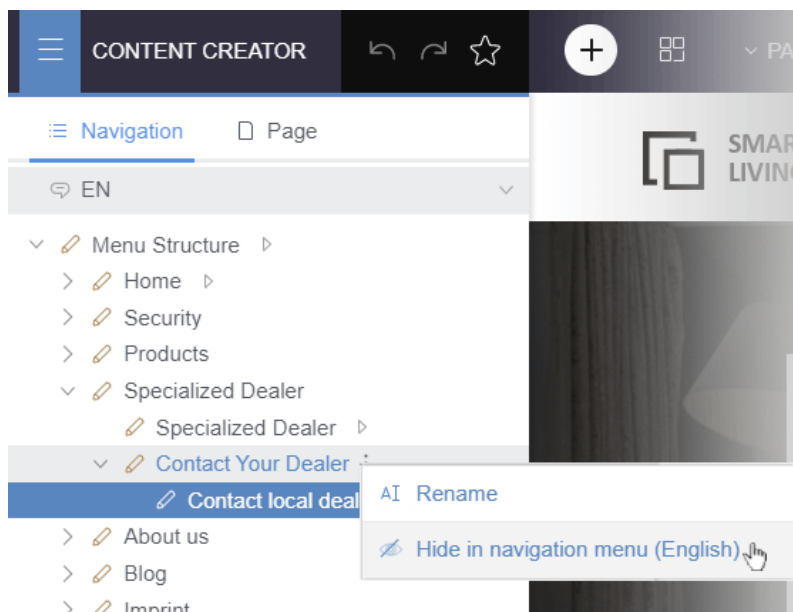
Previously, the visibility of menu items could be set for each language in FirstSpirit SiteArchitect using the “Display in navigation menu” option for a menu level (“Properties” tab):





This option allows menu items to be temporarily removed from the site on a language-specific basis and added back in again later.

With the latest release, this setting can now also be made in FirstSpirit ContentCreator in the navigation view:



- **Hide in navigation menu**

The menu item in question will no longer be displayed on the site in the selected language.



- **Show in navigation menu**

Hidden menu items will once again be displayed on the site in the selected language.

Changes in this area must be released in order to appear on the site.

Menu items that are hidden / not visible on the site are visualized by the following icon in the navigation view:



In addition, the menu name is grayed out.

For more information, see *FirstSpirit Manual for Editors (ContentCreator)*, “Menu functions / Navigation” (<https://docs.e-spirit.com/contentcreator/menu-functions/navigation/index.html>)

### 1.3 Tailored UI: Sorting of functions in the interface

As of FirstSpirit 2020-10, functions can be hidden on a project-specific basis in FirstSpirit ContentCreator (“Tailored UI”).

In the latest release, this functionality has been optimized and further configuration options have been implemented:

#### Configurable functions

In addition to the standard ContentCreator functions, all *ItemsPlugins* recognized by FirstSpirit are listed in the configuration dialog and can be edited there.

In order to configure functions originating from customer-specific modules, the “Plug-in” field is now an editable combo box. This also lists the *ItemsPlugins* recognized by FirstSpirit.

The table columns in the configuration dialog can now be sorted by clicking on the column header to make it easier to find features.

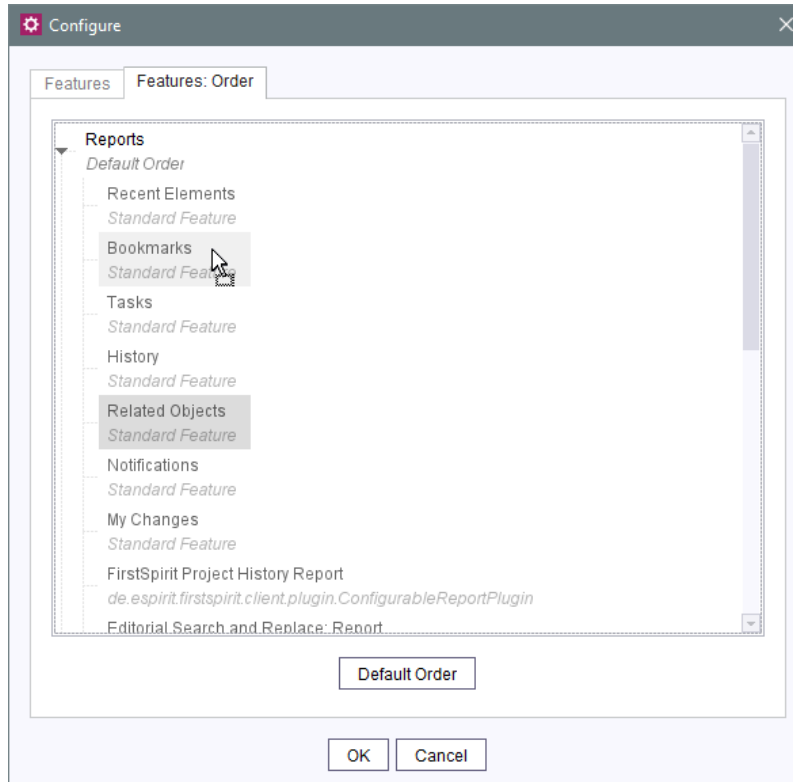
#### Influencing the sorting of menu entries and icons

The order of features in the ContentCreator interface can now also be influenced via the “Features: Order” tab (“FirstSpirit ServerManager / Project properties / Project components / CXT ContentCreator Extension: Feature Configuration”).

The functions are bundled into groups to provide a better overview.

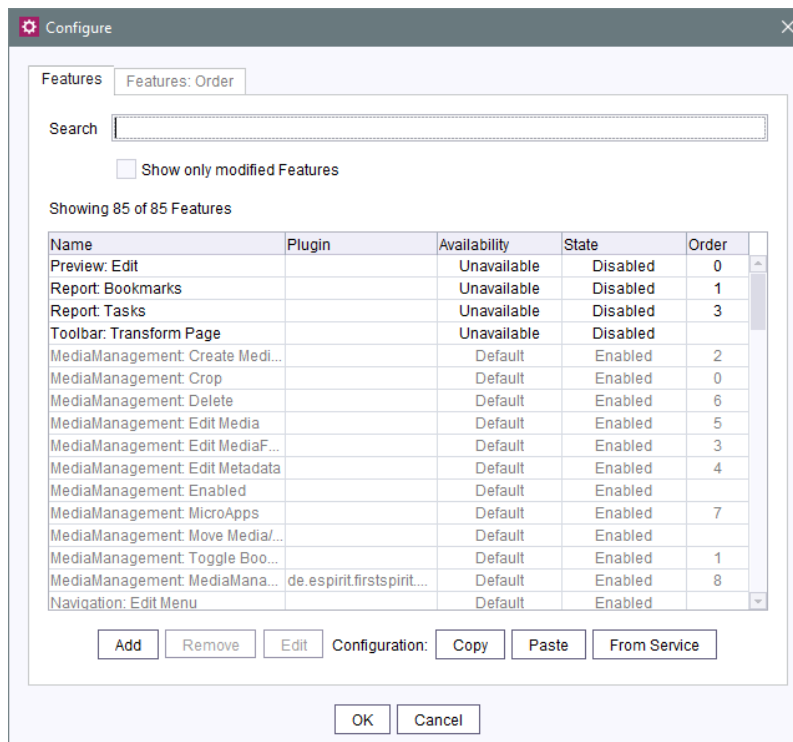


The functions can be sorted within their group via drag-and-drop. Changes are saved directly without a prompt appearing.



If the standard sorting of a group has been changed, this is indicated by the “Custom Order” label. The sorting is also shown in the overview (“Order” column).





The standard sorting can be restored on a group-specific basis with a click.

**Restrictions:**

The defined order of the functions is to be considered as a guideline. It may differ slightly in the client so as not to circumvent design and operating specifications for ContentCreator:

For functions **in the preview**, for example, automatic grouping takes place as soon as several icon bars are nested, and there is also a primary action, e.g., editing.

The “My changes” **report** is always displayed in the lower area irrespective of its position in the sort order.

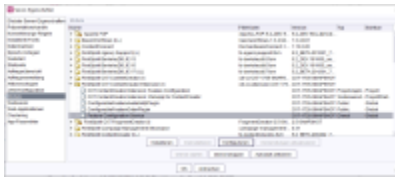
The positions of the “Search” and “Dashboard” reports cannot be changed. Nor can they be hidden.

In general, the functions of right-aligned menu bars (EasyEdit) are also sorted right-aligned.

**Server-wide configuration**

In addition to the local project configuration, the “Feature Configuration Service” can also be used to make server-wide settings (FirstSpirit ServerManager / “Modules / FirstSpirit CXT ContentCreator Extension”):





Prerequisite: The “CXT ContentCreator Extension: WebApp for ContentCreator” web component must be added in the “ContentCreator” area (FirstSpirit ServerManager / “Server properties / Web applications”).

If there are ContentCreator instances that are local to a project, the web component must also be added there (under FirstSpirit ServerManager / “Project properties / Web components”).

Configuration is carried out in the same way as at project level.

**Note:** Currently, the project component “CXT ContentCreator Extension: Feature Configuration” (“FirstSpirit ServerManager / Project properties / Project components”) must be present for every server project for which configuration of the ContentCreator functions is to be carried out. This project component is currently still used to carry out the configuration for each project.

Configuration that is carried out at server level (via the “Feature Configuration Service”) must currently be transferred to the relevant project via the **From Service** function in order to be used there.

A **future** release will include configuration of the “Feature Configuration Service” for projects without the “CXT ContentCreator Extension: Feature Configuration” project component. Use of the project component will then be optional; configuration at server level will be sufficient.

An existing configuration from a project can be adopted for the server in the “Feature Configuration Service” via the **From Project** button.

Conversely, a configuration made at server level can also be adopted for a project via the **From Service** button.

Existing configurations are overwritten without a prompt appearing; inheritance of settings or similar is not supported.

If necessary, the entire current configuration can be exported in JSON format and then transferred to a different FirstSpirit Server.

### Migration notes:

- Actions that were previously found in the `StoreTree` default group (functions of the tree view in the navigation bar and in the Media Management) are now found in the `Navigation` group.



The `StoreTree` default group has been removed. This change will be carried out automatically when updating to the latest FirstSpirit release. There is no need to change anything manually.

- An existing configuration that was made **before** upgrading to FirstSpirit 2020-12 at project level is still valid after upgrading to FirstSpirit 2020-12. To transfer a configuration made at server level, the **From Service** function of the “CXT ContentCreator Extension: Feature Configuration” project component can be used for the desired project(s) so that a configuration made at server level can take effect in the project.

For more information, see *FirstSpirit Online Documentation*, “Template development / ContentCreator / Customization / Standard functions” (<https://docs.e-spirit.com/odfs/template-develo/contentcreator/customization/standard-functi/index.html>)

## 1.4 Invalid format templates in CMS\_INPUT\_DOM and CMS\_INPUT\_DOMTABLE

For `CMS_INPUT_DOM` and `CMS_INPUT_DOMTABLE`, the `FORMATS` tag can be used to define format templates that may be used in the input component, e.g.

```
<CMS_INPUT_DOM name="st_text" hFill="yes" list="no">
  <FORMATS>
    <TEMPLATE name="standard"/>
    <TEMPLATE name="h3"/>
  </FORMATS>
  <LANGINFOS>
    <LANGINFO lang="*" label="Text"/>
  </LANGINFOS>
</CMS_INPUT_DOM>
```

Previously, if the `FORMATS` configuration was changed later, e.g., by removing a `TEMPLATE` definition, this could mean that existing content could no longer be saved in ContentCreator (e.g., error message “Referenced element 'xyz' does not exist.”).

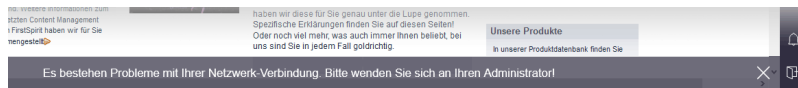
With the latest release, `CMS_INPUT_DOM` and `CMS_INPUT_DOMTABLE` now also take into account format templates that are no longer valid in ContentCreator (in the same way as SiteArchitect). This means that corresponding formatting will be retained even when saving.

Even if the text is edited within the formatting, the formatting will be retained after saving.



## 1.5 Visualizing connection problems in ContentCreator

Previously, slow connections resulting from connection problems could lead to frequent reloading of the whole client. Now, in the event of connection problems, a message is displayed at the bottom of the browser rather than reloading the page:



(“There are problems with your network connection. Please contact your administrator!”)

### Exceptions:

An automatic reload will still take place for

- authentication errors (error code 403 / “Access denied/impermissible”, followed by the log-in page being displayed)
- maintenance mode (a corresponding text is displayed in the client)

Examples of possible causes of connection problems: The connection between the browser and the application server (e.g., Apache Tomcat) is not stable. Furthermore, the use of HTTP 2.0 can result in problems, depending on the configuration and slow connections (see `writeTimeout` attribute on the <https://tomcat.apache.org/tomcat-9.0-doc/config/http2.html> page).

The affected connection should be checked by the administrator (e.g., via the network activity in the browser and the access log of the application server) and an analysis should be carried out to determine why requests are not being finished.

## 1.6 Template development: Updating the preview in ContentCreator

In the template development process, the ContentCreator preview allows the developer to check the changes they make to templates.

Previously, content often had to be changed and saved in order for changes to the underlying template to be taken into account in the preview.

With the latest release, updating the preview in ContentCreator after making changes to templates has been improved, thus simplifying template development.





If changes to underlying templates are not shown in the ContentCreator preview, the preview can be manually updated as follows:

- `F5`: ContentCreator is reloaded.
- `Ctrl + R`: Only the preview is reloaded.

In both cases, `/forceRefresh=1` is automatically appended to the URL.

## 1.7 WebeditElementStatusProviderPlugin: More element types added

With the new ContentCreator, the state display in the menu bar now takes into account not only pages (*PageRef* element type) and datasets (*Dataset* element type), but also other elements such as media folders.

In this context, the `WebeditElementStatusProviderPlugin` interface (`de.espirit.firstspirit.workflow` package, FirstSpirit Developer API) now includes the optional method

```
isSupported(IDProvider)
```

This method allows the plug-in to offer support for elements other than the standard *PageRef* and *Dataset* element types.

It returns information to indicate whether the plug-in supports the relevant element (*true*) or not (*false*).

As before, the plug-in also allows dependent objects to be taken into account for the state display and workflows with the

```
getReleaseState()  
getWorkflowGroups()
```

methods. Thanks to the new method, these dependences can now also be taken into account for other element types.

However, no dependences are taken into account for all `IDProvider` elements that are **not** supported according to the configured plug-in.



For more information, see the chapter on the plug-in development of the “Element Status Provider” (ESP): <https://docs.e-spirit.com/odfs/plug-developmen/contentcreator/interactive-fea/element-status/functional-over/index.html>

## 2 External Synchronization

### 2.1 FSDevTools: Support for the configuration of web components, project applications and services

With the current FSDevTools release (Release 2.6.4), developers can configure web components, project applications and services using the “FSDevTools” command line tool.

Use cases:

- Install/update (and roll-out) web components in Web Apps
- Add/update project components to projects
- Configure/restart services

Configuration is done via a configuration file in JSON format using the command `fs-cli module configure -mcf|--moduleConfigFile "path/to/configFile.json"`.

The results of the call can be saved to an additional file (also in JSON format) via the command `fs-cli [...] [-rf|--resultFile "path/to/result.json"]`.

Syntax:

```
fs-cli [...] [-rf|--resultFile "path/to/result.json"]  
module configure -mcf|--moduleConfigFile "path/to/configFile.json".
```

If files are uploaded during configuration, they are automatically uploaded to the appropriate directory for the module.

If a folder is specified in the JSON configuration file, the corresponding folder structure is rebuilt in the server's file system (creating only subfolders under the specified folder).



## 3 FirstSpirit Content Experience Tools (CXT)

### 3.1 Latest module versions

FirstSpirit 2020-12 supports the following module versions for “FirstSpirit Content Experience Tools”:

<b>Module / file name</b>	<b>Version number</b>
FirstSpirit CXT DAP Bridge	1.35
<code>dataservice-[version].fsm</code>	
FirstSpirit CXT FragmentCreator	2.13
<code>fragment-creator-[version].fsm</code>	
FirstSpirit Fragment DAP	1.29
<code>fragmentdap-[version].fsm</code>	
FirstSpirit Media DAP	1.26*
<code>mediadap-[version].fsm</code>	
FirstSpirit PageRef DAP	1.4
<code>pagerefdap-[version].fsm</code>	
FirstSpirit Markdown Editor	1.24*
<code>markdown-editor-[version].fsm</code>	
FirstSpirit Tagging Editor	1.24
<code>tagging-editor-[version].fsm</code>	
FirstSpirit CXT FragmentCreator - CaaS Integration	1.26
<code>caas-integration-[version].fsm</code>	

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

## 4 Compatibility

### 4.1 Release of the new Oracle Database 19c database layer

The latest FirstSpirit release includes the definitive release of the Oracle Database 19c database layer.

The FirstSpirit Community (<https://community.e-spirit.com>) still contains a detailed migration guide for switching from Oracle Database 11g/12c to Oracle Database 19c for use with FirstSpirit.



The old database layer Oracle Database 11g/12c (`de.espirit.or.impl.oracle.OracleLayer`) will be **removed** in the future. This is scheduled to take place with FirstSpirit 2021-06.

## 4.2 Note on the compatibility of FirstSpirit with Apple silicon

With the company's own M1 processor, Apple switches to an ARM architecture. Applications that were developed for an x86 architecture (such as FirstSpirit) can still be executed using the “Rosetta 2” emulation technology.

e-Spirit is currently not aware of any problems when using FirstSpirit with “Rosetta 2”. However, native support of the ARM architecture is currently not planned for FirstSpirit.

## 5 Module Development, Scripts, API

### 5.1 SnippetAgent: New methods for transferring FormData objects

Methods for transferring *FormData* objects have been added to the `SnippetAgent` interface (`de.espirit.firstspirit.agency` package, FirstSpirit Access API).

The new methods

```
getSnippetProvider(@NotNull FormData formData, @NotNull Snippet snippet)
```

```
getSnippetProvider(@NotNull FormData formData, @NotNull Snippet snippet, @NotNull  
SnippetContext context)
```

make it possible to obtain a `SnippetProvider` by transferring the corresponding *FormData* object.

## 6 SiteArchitect / ContentCreator

### 6.1 Dynamic forms: Accessing information from other forms

In the latest FirstSpirit version, the rule evaluation (“Dynamic forms” functionality) has been expanded for `ContentCreator` and `SiteArchitect`.



## What's new?

The services `FormDataValueService` and `MetaDataValueService` will be provided. These services provide **access to the information of an IDProvider**.

Furthermore, three **new properties** are now available in the rules for corresponding elements:

- `PAGE_ID`: Determining the ID of a FirstSpirit element of the Page type
- `PAGE_UID`: Determining the reference name / UID of a FirstSpirit element of the Page type
- `PROJECT_PROPERTIES_ID`: Determining the ID of project properties.

These are in addition to the existing properties:

- `ID`: Determining the ID of a FirstSpirit element
- `UID`: Determining the reference name / UID of a FirstSpirit element. Sections do not technically have a UID, which is why the display name is returned in this case.
- `GID`: Determining the global ID (GID) of a FirstSpirit element
- `TEMPLATE`: Determining the template of the current FirstSpirit element. The reference name of the template is returned (UID).

## Why do I need this functionality?

With the expanded functionality, it is possible to access FirstSpirit elements in a rule execution even if these elements are outside the current context. This means that information from other forms (e.g., form data from another page, from metadata forms, or from the project settings) can be retrieved and used in the current rule execution.

## How can I use this functionality?

### Availability and configuration:



In the latest FirstSpirit version, the services `FormDataValueService` and `MetaDataValueService` are automatically available in SiteArchitect and in ContentCreator. It is not necessary to configure or activate the functionality separately.



The functionality is only supported in **Isolated mode**.

### **Usage:**

The data is retrieved within the form (in the “Rules” tab) using the `<SCHEDULE/>` tag.

- The `FormDataValueService` enables access to the data of a form.
- The `MetaDataValueService` enables access to the data of a metadata form.

The following parameters are used to access a FirstSpirit element (within the `<SCHEDULE/>` tag):

- `ID` and `Storetype`,
- `UID` and `UIDType`, or
- `GID` and `Template` (for datasets only).

Further parameters are then used to restrict the selection:

- to specific input components (`FIELD` parameter)
- to content in a specific language (`LANGUAGE` parameter)



Access is only supported for the input component types that are also supported as parameter types for a service (see [documentation on the SCHEDULE tag](#)).

### **Further information on the new parameters and additional examples:**

- see manual [Accessing information from other forms](#).



**Example:**

Access to metadata at page level (<SCHEDULE/> tag):

Example A enables access to metadata (service="MetaDataValueService").

The input component value ("md\_layout") (via the FIELD parameter) of the "PAGE\_UID" page (via the UID and UIDTYPE parameters) is retrieved here.

Use in the current context (<DO/> tag):

This value is saved in the input component ("st\_layouttext") of the current section so that the value can then continue to be used in other rules.

```
<RULE when="ONLOCK">
  <SCHEDULE delay="0" id="A" service="MetaDataValueService">
    <PARAM name="UID">
      <PROPERTY name="PAGE_UID" source="#global"/>
    </PARAM>
    <PARAM name="UIDTYPE">
      <TEXT>PAGESTORE</TEXT>
    </PARAM>
    <PARAM name="FIELD">
      <TEXT>md_layout</TEXT>
    </PARAM>
    <PARAM name="LANGUAGE">
      <PROPERTY source="#global" name="MASTER" />
    </PARAM>
  </SCHEDULE>
  <DO>
    <PROPERTY name="VALUE" source="st_layouttext"/>
  </DO>
</RULE>
```

## 7 System

### 7.1 Updates to integrated third-party software

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

**Eclipse Jetty** (contained in the module `fs-jetty.fsm` / "FirstSpirit Jetty Service")

Update from **version 9.4.31** to **version 9.4.33**





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

### Install4j (used for FirstSpirit Launcher)

Updated from **version 8.0.4** to **version 8.0.8**.

**Java** The following new Java version is available:

- Integrated in FirstSpirit (default): 11.0.9.1+1 64bit AdoptOpenJDK
- In the FirstSpirit Launcher JRE module: 15.0.1+9 64bit AdoptOpenJDK

### Java Service Wrapper (configuration and monitoring of FirstSpirit Java VM)

Updated from **version 3.5.42** to **version 3.5.44**.

Note: When the FirstSpirit server is updated (auto-update, in-place upgrade), the Java Service Wrapper files are not automatically updated. The Java Service Wrapper can be updated via the tar gzip update archive (file fs-update-[version].tar.gz) as described in the FirstSpirit installation instructions.

Additional documentation:

- on [Java Service Wrapper \(manual for administrators\)](#)
- on [Updating the Java Service Wrapper \(installation instructions\)](#)

### Spring Boot (used for MicroApp Framework)

Update from version 2.3.1 to version 2.3.5

### Spring Cloud Hoxton (used for MicroApp Framework)

Update from version Hoxton.SR5 to version Hoxton.SR8

## 8 Deprecations

For e-Spirit, an important goal in software development is to avoid introducing incompatibilities and migration expenditures related to updating from one FirstSpirit release to the next as much as possible





or to compensate for these within the software. FirstSpirit updates should generally be deployable with little effort or able to be carried out in a fully automated fashion.

However - not least in order to ensure maintainability and to future-proof the software - e-Spirit cannot fully avoid replacing existing functionality with new mechanisms. In the future, functionality that will be removed from the software will be listed in this section, including the date at which time the functionality will be removed.

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



Functionality	Deprecated as of	Will be removed/ Was removed as of
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	
Legacy mode for the FirstSpirit server and module development	2019-06	
Control files for Windows and Linux operating systems (old)	2020-08	February 2021
database layer for Oracle Database 11g/12c	2020-12	June 2021

## 9 Overview

ID	Description	Categories
CORE-11554	The handling of redirects when resolving URIs in the context of client/server communication has been improved.	FirstSpirit Administrator, Server Administrator, SiteArchitect



ID	Description	Categories
CORE-12045	<p>In the latest FirstSpirit version, the rule evaluation (“Dynamic forms” functionality) has been expanded for ContentCreator and SiteArchitect. This means that information from other forms (e.g., form data from another page, from metadata forms, or from the project settings) can be retrieved and used in the current rule execution.</p> <p>Further information can be found in chapter “SiteArchitect / ContentCreator: Dynamic forms: Accessing information from other forms”.</p>	ContentCreator, Dynamic Forms, Services, SiteArchitect, Template Development
CORE-12270	<p>The optional method <code>isSupported(IDProvider)</code> has been added to the <code>WebeditElementStatusProviderPlugin</code> interface (<code>de.espirit.firstspirit.workflow</code> package, FirstSpirit Developer API), which means that the interface can now be used for more element types.</p> <p>Further information can be found in chapter “ContentCreator: WebeditElementStatusProviderPlugin: More element types added”.</p>	ContentCreator, Developer, FirstSpirit API
CORE-12411	<p>A missing log file for schedules could lead to a display error in ServerMonitoring (menu item: “Logfiles / according to deployment / History”).</p>	FirstSpirit Administrator, Server Administrator, ServerMonitoring
CORE-12702	<p>Methods for transferring <i>FormData</i> objects have been added to the <code>SnippetAgent</code> interface (<code>de.espirit.firstspirit.agency</code> package, FirstSpirit Access API).</p> <p>Further information can be found in chapter “Module Development, Scripts, API: SnippetAgent: New methods for transferring FormData objects”.</p>	FirstSpirit API
CORE-12821	<p>When querying elements via the method <code>getStoreElement(id)</code> in <code>de.espirit.firstspirit.access.store.Store</code> (FirstSpirit Access API), an error message such as <code>java.lang.ClassCastException: Cannot parse dto as DefaultStoreElement</code> could occur in rare cases in ContentCreator.</p>	ContentCreator, Developer, Module development



ID	Description	Categories
CORE-12890	<p>An error has been fixed that could lead to temporarily inconsistent states because no order had been defined for deleting objects from various stores via the <code>DeleteOperation</code> (<code>de.espirit.firstspirit.store.operations</code> package, FirstSpirit Developer API). The problem has been remedied by ensuring that the objects are now deleted in a sensible order based on which stores they come from.</p>	Developer, FirstSpirit API
CORE-12892	<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>	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FirstSpirit Jetty Web Server, Integrated software, Java, Launcher
CORE-12898	<p>The start times for the FirstSpirit Clients have been improved by optimizing the rollout of the application buffer.</p> <p>This results in shorter waiting times, particularly when starting for the first time after a FirstSpirit update.</p>	Performance, Server Administrator, ServerManager, SiteArchitect
CORE-12959	<p>An error has been fixed that could have meant that the data import was not completed due to a timeout when using the Content Transport feature to move large volumes of data.</p>	Content Transport
CORE-13045	<p>The latest FirstSpirit release includes the definitive release of the Oracle Database 19c database layer.</p> <p>Further information can be found in chapter “Compatibility: Release of the new Oracle Database 19c database layer”.</p>	Database, Developer, FirstSpirit Administrator
CORE-13072	<p>Native support of Apple M1/Apple silicon is currently not planned for FirstSpirit. However, the FirstSpirit desktop apps (ServerManager, SiteArchitect) can still be executed on Mac computers with Apple silicon using the “Rosetta 2” emulation technology.</p> <p>Further information can be found in chapter “Compatibility: Note on the compatibility of FirstSpirit with Apple silicon”.</p>	ContentCreator, Developer, Editor, FirstSpirit Administrator, ServerManager, SiteArchitect



ID	Description	Categories
CXT-1505 CXT-1449	<p>With the latest release, FirstSpirit ContentCreator can also be used to define which elements are to be start menus/pages. Furthermore, it is possible to set whether or not menu items should be displayed for each language of the site.</p> <p>Further information can be found in chapter “ContentCreator: Navigation view: New functions”.</p>	ContentCreator, Editor, Navigation view
CXT-1539	<p>The option “Duplicate section” (under the “New section” function) can be used to duplicate the selected section. In rare cases – if only one section template was approved for the relevant content area – this function was not available.</p>	ContentCreator, Editor
CXT-1577 CXT-1960	<p>As expected, the FragmentCreator's project selection (when starting or changing projects) now only shows fragment projects.</p>	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-1735	<p>With the latest release, “Tailored UI” offers new configuration options: sorting of features in the client interface and cross-project settings.</p> <p>Further information can be found in chapter “ContentCreator: Tailored UI: Sorting of functions in the interface”.</p>	ContentCreator, Developer, Editor, FirstSpirit Administrator, Module development, Modules, ServerManager
CXT-1774	<p>Updating the preview in ContentCreator during the template development process has been improved.</p> <p>Further information can be found in chapter “ContentCreator: Template development: Updating the preview in ContentCreator”.</p>	ContentCreator, Developer, Input Components, Template Development, Template Store
CXT-1831	<p>When editing referenced datasets via FS_DATASET, the preview is now updated after closing the form so that the modified content is displayed automatically.</p>	ContentCreator, Database, Developer, Editor, Input Components, Preview



ID	Description	Categories
CXT-1842	<p>CMS_INPUT_DOM and CMS_INPUT_DOMTABLE now also take into account format templates that are no longer valid in ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Invalid format templates in CMS_INPUT_DOM and CMS_INPUT_DOMTABLE”.</p>	ContentCreator, Editor, Input Components
CXT-1861	<p>The behavior of language-independent forms in scripts in connection with rules in ContentCreator has been optimized and the behavior of ShowFormDialogOperation in ContentCreator has been modified.</p> <p>Further information can be found in chapter “ContentCreator: Handling of language-independent script-based dialogs and behavior of "ShowFormDialogOperation"”.</p>	ContentCreator, Developer, Dynamic Forms, FirstSpirit API, Input Components, Languages, Template Development
CXT-1920	<p>In the event of connection problems, a message is now displayed at the bottom of the browser.</p> <p>Further information can be found in chapter “ContentCreator: Visualizing connection problems in ContentCreator”.</p>	ContentCreator, Debugging, Developer
CXT-1922	<p>Switching the language in the navigation view in ContentCreator (e.g., in an empty project) could result in a NullPointerException (java.lang.NullPointerException: store-name must not be null!).</p>	ContentCreator, Editor, Languages
CXT-1924	<p>If a smaller section than the target size is selected for an image in the “Crop image” dialog, the image is now automatically scaled up to the resolution size again by the system.</p>	ContentCreator, Media, Media Store
CXT-1932	<p>Temporarily, when cropping language-dependent images, the language could not be selected directly.</p>	ContentCreator, Editor, Media, Media Store
CXT-2010	<p>Incorrect remote configuration (e.g., missing user permissions) no longer means that the Media Management cannot be opened (error message e.g., java.lang.IllegalStateException: Unknown remote project media). The relevant remote project is not displayed in the Media Management.</p>	ContentCreator, Developer, Editor, Media Store, Remote access



ID	Description	Categories
CXT-2011	<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), Modules
DEVEX-349	<p>With the current FSDevTools release (Release 2.6.4), developers can configure web components, project applications and services using the “FSDevTools” command line tool.</p> <p>Further information can be found in chapter “External Synchronization: FSDevTools: Support for the configuration of web components, project applications and services”.</p>	Developer, External synchronization, FSDevTools

## 10 Categories

### 10.1 Content Transport

ID	Description
CORE-12959	An error has been fixed that could have meant that the data import was not completed due to a timeout when using the Content Transport feature to move large volumes of data.

### 10.2 ContentCreator

ID	Description
CORE-12045	<p>In the latest FirstSpirit version, the rule evaluation (“Dynamic forms” functionality) has been expanded for ContentCreator and SiteArchitect. This means that information from other forms (e.g., form data from another page, from metadata forms, or from the project settings) can be retrieved and used in the current rule execution.</p> <p>Further information can be found in chapter “SiteArchitect / ContentCreator: Dynamic forms: Accessing information from other forms”.</p>
CORE-12270	The optional method <code>isSupported(IDProvider)</code> has been added to the <code>WebeditElementStatusProviderPlugin</code> interface



ID	Description
	<p>(<code>de.espirit.firstspirit.workflow</code> package, FirstSpirit Developer API), which means that the interface can now be used for more element types.</p> <p>Further information can be found in chapter “ContentCreator: WebeditElementStatusProviderPlugin: More element types added”.</p>
CORE-12821	<p>When querying elements via the method <code>getStoreElement(id)</code> in <code>de.espirit.firstspirit.access.store.Store</code> (FirstSpirit Access API), an error message such as <code>java.lang.ClassCastException: Cannot parse dto as DefaultStoreElement</code> could occur in rare cases in ContentCreator.</p>
CORE-13072	<p>Native support of Apple M1/Apple silicon is currently not planned for FirstSpirit. However, the FirstSpirit desktop apps (ServerManager, SiteArchitect) can still be executed on Mac computers with Apple silicon using the “Rosetta 2” emulation technology.</p> <p>Further information can be found in chapter “Compatibility: Note on the compatibility of FirstSpirit with Apple silicon”.</p>
CXT-1505 CXT-1449	<p>With the latest release, FirstSpirit ContentCreator can also be used to define which elements are to be start menus/pages. Furthermore, it is possible to set whether or not menu items should be displayed for each language of the site.</p> <p>Further information can be found in chapter “ContentCreator: Navigation view: New functions”.</p>
CXT-1539	<p>The option “Duplicate section” (under the “New section” function) can be used to duplicate the selected section. In rare cases – if only one section template was approved for the relevant content area – this function was not available.</p>
CXT-1735	<p>With the latest release, “Tailored UI” offers new configuration options: sorting of features in the client interface and cross-project settings.</p> <p>Further information can be found in chapter “ContentCreator: Tailored UI: Sorting of functions in the interface”.</p>
CXT-1774	<p>Updating the preview in ContentCreator during the template development process has been improved.</p> <p>Further information can be found in chapter “ContentCreator: Template development: Updating the preview in ContentCreator”.</p>
CXT-1831	<p>When editing referenced datasets via <code>FS_DATASET</code>, the preview is now updated after closing the form so that the modified content is displayed automatically.</p>





ID	Description
CXT-1842	<p>CMS_INPUT_DOM and CMS_INPUT_DOMTABLE now also take into account format templates that are no longer valid in ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Invalid format templates in CMS_INPUT_DOM and CMS_INPUT_DOMTABLE”.</p>
CXT-1861	<p>The behavior of language-independent forms in scripts in connection with rules in ContentCreator has been optimized and the behavior of ShowFormDialogOperation in ContentCreator has been modified.</p> <p>Further information can be found in chapter “ContentCreator: Handling of language-independent script-based dialogs and behavior of "ShowFormDialogOperation"”.</p>
CXT-1920	<p>In the event of connection problems, a message is now displayed at the bottom of the browser.</p> <p>Further information can be found in chapter “ContentCreator: Visualizing connection problems in ContentCreator”.</p>
CXT-1922	<p>Switching the language in the navigation view in ContentCreator (e.g., in an empty project) could result in a <code>NullPointerException</code> (<code>java.lang.NullPointerException: store-name must not be null!</code>).</p>
CXT-1924	<p>If a smaller section than the target size is selected for an image in the “Crop image” dialog, the image is now automatically scaled up to the resolution size again by the system.</p>
CXT-1932	<p>Temporarily, when cropping language-dependent images, the language could not be selected directly.</p>
CXT-2010	<p>Incorrect remote configuration (e.g., missing user permissions) no longer means that the Media Management cannot be opened (error message e.g., <code>java.lang.IllegalStateException: Unknown remote project media</code>). The relevant remote project is not displayed in the Media Management.</p>

## 10.3 Database

ID	Description
CORE-13045	<p>The latest FirstSpirit release includes the definitive release of the Oracle Database 19c database layer.</p>



ID	Description
	Further information can be found in chapter “Compatibility: Release of the new Oracle Database 19c database layer”.
CXT-1831	When editing referenced datasets via FS_DATASET, the preview is now updated after closing the form so that the modified content is displayed automatically.

## 10.4 Debugging

ID	Description
CXT-1920	In the event of connection problems, a message is now displayed at the bottom of the browser.  Further information can be found in chapter “ContentCreator: Visualizing connection problems in ContentCreator”.

## 10.5 Services

ID	Description
CORE-12045	In the latest FirstSpirit version, the rule evaluation (“Dynamic forms” functionality) has been expanded for ContentCreator and SiteArchitect. This means that information from other forms (e.g., form data from another page, from metadata forms, or from the project settings) can be retrieved and used in the current rule execution.  Further information can be found in chapter “SiteArchitect / ContentCreator: Dynamic forms: Accessing information from other forms”.

## 10.6 Dynamic Forms

ID	Description
CORE-12045	In the latest FirstSpirit version, the rule evaluation (“Dynamic forms” functionality) has been expanded for ContentCreator and SiteArchitect. This means that information from other forms (e.g., form data from another page, from metadata forms, or from the project settings) can be retrieved and used in the current rule execution.



ID	Description
	Further information can be found in chapter “SiteArchitect / ContentCreator: Dynamic forms: Accessing information from other forms”.
CXT-1861	<p>The behavior of language-independent forms in scripts in connection with rules in ContentCreator has been optimized and the behavior of ShowFormDialogOperation in ContentCreator has been modified.</p> <p>Further information can be found in chapter “ContentCreator: Handling of language-independent script-based dialogs and behavior of "ShowFormDialogOperation"”.</p>

## 10.7 Input Components

ID	Description
CXT-1774	<p>Updating the preview in ContentCreator during the template development process has been improved.</p> <p>Further information can be found in chapter “ContentCreator: Template development: Updating the preview in ContentCreator”.</p>
CXT-1831	When editing referenced datasets via FS_DATASET, the preview is now updated after closing the form so that the modified content is displayed automatically.
CXT-1842	<p>CMS_INPUT_DOM and CMS_INPUT_DOMTABLE now also take into account format templates that are no longer valid in ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Invalid format templates in CMS_INPUT_DOM and CMS_INPUT_DOMTABLE”.</p>
CXT-1861	<p>The behavior of language-independent forms in scripts in connection with rules in ContentCreator has been optimized and the behavior of ShowFormDialogOperation in ContentCreator has been modified.</p> <p>Further information can be found in chapter “ContentCreator: Handling of language-independent script-based dialogs and behavior of "ShowFormDialogOperation"”.</p>



## 10.8 Developer

ID	Description
CORE-12270	<p>The optional method <code>isSupported(IDProvider)</code> has been added to the <code>WebeditElementStatusProviderPlugin</code> interface (<code>de.espirit.firstspirit.workflow</code> package, FirstSpirit Developer API), which means that the interface can now be used for more element types.</p> <p>Further information can be found in chapter “ContentCreator: WebeditElementStatusProviderPlugin: More element types added”.</p>
CORE-12821	<p>When querying elements via the method <code>getStoreElement(id)</code> in <code>de.espirit.firstspirit.access.store.Store</code> (FirstSpirit Access API), an error message such as <code>java.lang.ClassCastException: Cannot parse dto as DefaultStoreElement</code> could occur in rare cases in ContentCreator.</p>
CORE-12890	<p>An error has been fixed that could lead to temporarily inconsistent states because no order had been defined for deleting objects from various stores via the <code>DeleteOperation</code> (<code>de.espirit.firstspirit.store.operations</code> package, FirstSpirit Developer API). The problem has been remedied by ensuring that the objects are now deleted in a sensible order based on which stores they come from.</p>
CORE-12892	<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-13045	<p>The latest FirstSpirit release includes the definitive release of the Oracle Database 19c database layer.</p> <p>Further information can be found in chapter “Compatibility: Release of the new Oracle Database 19c database layer”.</p>
CORE-13072	<p>Native support of Apple M1/Apple silicon is currently not planned for FirstSpirit. However, the FirstSpirit desktop apps (ServerManager, SiteArchitect) can still be executed on Mac computers with Apple silicon using the “Rosetta 2” emulation technology.</p> <p>Further information can be found in chapter “Compatibility: Note on the compatibility of FirstSpirit with Apple silicon”.</p>
CXT-1577 CXT-1960	<p>As expected, the FragmentCreator's project selection (when starting or changing projects) now only shows fragment projects.</p>



ID	Description
CXT-1735	<p>With the latest release, “Tailored UI” offers new configuration options: sorting of features in the client interface and cross-project settings.</p> <p>Further information can be found in chapter “ContentCreator: Tailored UI: Sorting of functions in the interface”.</p>
CXT-1774	<p>Updating the preview in ContentCreator during the template development process has been improved.</p> <p>Further information can be found in chapter “ContentCreator: Template development: Updating the preview in ContentCreator”.</p>
CXT-1831	<p>When editing referenced datasets via FS_DATASET, the preview is now updated after closing the form so that the modified content is displayed automatically.</p>
CXT-1861	<p>The behavior of language-independent forms in scripts in connection with rules in ContentCreator has been optimized and the behavior of ShowFormDialogOperation in ContentCreator has been modified.</p> <p>Further information can be found in chapter “ContentCreator: Handling of language-independent script-based dialogs and behavior of "ShowFormDialogOperation"”.</p>
CXT-1920	<p>In the event of connection problems, a message is now displayed at the bottom of the browser.</p> <p>Further information can be found in chapter “ContentCreator: Visualizing connection problems in ContentCreator”.</p>
CXT-2010	<p>Incorrect remote configuration (e.g., missing user permissions) no longer means that the Media Management cannot be opened (error message e.g., <code>java.lang.IllegalStateException: Unknown remote project media</code>). The relevant remote project is not displayed in the Media Management.</p>
CXT-2011	<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>
DEVEX-349	<p>With the current FSDevTools release (Release 2.6.4), developers can configure web components, project applications and services using the “FSDevTools” command line tool.</p>



ID	Description
	Further information can be found in chapter “External Synchronization: FSDevTools: Support for the configuration of web components, project applications and services”.

## 10.9 External synchronization

ID	Description
DEVEX-349	<p>With the current FSDevTools release (Release 2.6.4), developers can configure web components, project applications and services using the “FSDevTools” command line tool.</p> <p>Further information can be found in chapter “External Synchronization: FSDevTools: Support for the configuration of web components, project applications and services”.</p>

## 10.10 FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-12892	<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>
CXT-1577 CXT-1960	As expected, the FragmentCreator's project selection (when starting or changing projects) now only shows fragment projects.
CXT-2011	<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>

## 10.11 FirstSpirit Jetty Web Server

ID	Description
CORE-12892	<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>



## 10.12 FirstSpirit Administrator

ID	Description
CORE-11554	The handling of redirects when resolving URIs in the context of client/server communication has been improved.
CORE-12411	A missing log file for schedules could lead to a display error in ServerMonitoring (menu item: "Logfiles / according to deployment / History").
CORE-12892	<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-13045	<p>The latest FirstSpirit release includes the definitive release of the Oracle Database 19c database layer.</p> <p>Further information can be found in chapter "Compatibility: Release of the new Oracle Database 19c database layer".</p>
CORE-13072	<p>Native support of Apple M1/Apple silicon is currently not planned for FirstSpirit. However, the FirstSpirit desktop apps (ServerManager, SiteArchitect) can still be executed on Mac computers with Apple silicon using the "Rosetta 2" emulation technology.</p> <p>Further information can be found in chapter "Compatibility: Note on the compatibility of FirstSpirit with Apple silicon".</p>
CXT-1577	As expected, the FragmentCreator's project selection (when starting or changing projects) now only shows fragment projects.
CXT-1960	
CXT-1735	<p>With the latest release, "Tailored UI" offers new configuration options: sorting of features in the client interface and cross-project settings.</p> <p>Further information can be found in chapter "ContentCreator: Tailored UI: Sorting of functions in the interface".</p>
CXT-2011	<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>



## 10.13 FirstSpirit API

ID	Description
CORE-12270	<p>The optional method <code>isSupported(IDProvider)</code> has been added to the <code>WebeditElementStatusProviderPlugin</code> interface (<code>de.espirit.firstspirit.workflow</code> package, FirstSpirit Developer API), which means that the interface can now be used for more element types.</p> <p>Further information can be found in chapter “ContentCreator: WebeditElementStatusProviderPlugin: More element types added”.</p>
CORE-12702	<p>Methods for transferring <i>FormData</i> objects have been added to the <code>SnippetAgent</code> interface (<code>de.espirit.firstspirit.agency</code> package, FirstSpirit Access API).</p> <p>Further information can be found in chapter “Module Development, Scripts, API: SnippetAgent: New methods for transferring FormData objects”.</p>
CORE-12890	<p>An error has been fixed that could lead to temporarily inconsistent states because no order had been defined for deleting objects from various stores via the <code>DeleteOperation</code> (<code>de.espirit.firstspirit.store.operations</code> package, FirstSpirit Developer API). The problem has been remedied by ensuring that the objects are now deleted in a sensible order based on which stores they come from.</p>
CXT-1861	<p>The behavior of language-independent forms in scripts in connection with rules in ContentCreator has been optimized and the behavior of <code>ShowFormDialogOperation</code> in ContentCreator has been modified.</p> <p>Further information can be found in chapter “ContentCreator: Handling of language-independent script-based dialogs and behavior of “ShowFormDialogOperation””.</p>

## 10.14 FragmentCreator

ID	Description
CXT-1577	As expected, the FragmentCreator's project selection (when starting or changing projects) now only shows fragment projects.
CXT-1960	





## 10.15 FSDevTools

ID	Description
DEVEX-349	<p>With the current FSDevTools release (Release 2.6.4), developers can configure web components, project applications and services using the “FSDevTools” command line tool.</p> <p>Further information can be found in chapter “External Synchronization: FSDevTools: Support for the configuration of web components, project applications and services”.</p>

## 10.16 Integrated software

ID	Description
CORE-12892	<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>

## 10.17 Java

ID	Description
CORE-12892	<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>

## 10.18 Launcher

ID	Description
CORE-12892	<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>



## 10.19 Media

ID	Description
CXT-1924	If a smaller section than the target size is selected for an image in the “Crop image” dialog, the image is now automatically scaled up to the resolution size again by the system.
CXT-1932	Temporarily, when cropping language-dependent images, the language could not be selected directly.

## 10.20 Media Store

ID	Description
CXT-1924	If a smaller section than the target size is selected for an image in the “Crop image” dialog, the image is now automatically scaled up to the resolution size again by the system.
CXT-1932	Temporarily, when cropping language-dependent images, the language could not be selected directly.
CXT-2010	Incorrect remote configuration (e.g., missing user permissions) no longer means that the Media Management cannot be opened (error message e.g., <code>java.lang.IllegalStateException: Unknown remote project media</code> ). The relevant remote project is not displayed in the Media Management.

## 10.21 Module development

ID	Description
CORE-12821	When querying elements via the method <code>getStoreElement(id)</code> in <code>de.espirit.firstspirit.access.store.Store</code> (FirstSpirit Access API), an error message such as <code>java.lang.ClassCastException: Cannot parse dto as DefaultStoreElement</code> could occur in rare cases in ContentCreator.
CXT-1735	With the latest release, “Tailored UI” offers new configuration options: sorting of features in the client interface and cross-project settings.  Further information can be found in chapter “ContentCreator: Tailored UI: Sorting of functions in the interface”.



## 10.22 Modules

ID	Description
CXT-1735	<p>With the latest release, “Tailored UI” offers new configuration options: sorting of features in the client interface and cross-project settings.</p> <p>Further information can be found in chapter “ContentCreator: Tailored UI: Sorting of functions in the interface”.</p>
CXT-2011	<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>

## 10.23 Navigation view

ID	Description
CXT-1505	<p>With the latest release, FirstSpirit ContentCreator can also be used to define which elements are to be start menus/pages. Furthermore, it is possible to set whether or not menu items should be displayed for each language of the site.</p> <p>Further information can be found in chapter “ContentCreator: Navigation view: New functions”.</p>
CXT-1449	

## 10.24 Performance

ID	Description
CORE-12898	<p>The start times for the FirstSpirit Clients have been improved by optimizing the rollout of the application buffer.</p> <p>This results in shorter waiting times, particularly when starting for the first time after a FirstSpirit update.</p>



## 10.25 Editor

ID	Description
CORE-13072	<p>Native support of Apple M1/Apple silicon is currently not planned for FirstSpirit. However, the FirstSpirit desktop apps (ServerManager, SiteArchitect) can still be executed on Mac computers with Apple silicon using the “Rosetta 2” emulation technology.</p> <p>Further information can be found in chapter “Compatibility: Note on the compatibility of FirstSpirit with Apple silicon”.</p>
CXT-1505 CXT-1449	<p>With the latest release, FirstSpirit ContentCreator can also be used to define which elements are to be start menus/pages. Furthermore, it is possible to set whether or not menu items should be displayed for each language of the site.</p> <p>Further information can be found in chapter “ContentCreator: Navigation view: New functions”.</p>
CXT-1539	<p>The option “Duplicate section” (under the “New section” function) can be used to duplicate the selected section. In rare cases – if only one section template was approved for the relevant content area – this function was not available.</p>
CXT-1735	<p>With the latest release, “Tailored UI” offers new configuration options: sorting of features in the client interface and cross-project settings.</p> <p>Further information can be found in chapter “ContentCreator: Tailored UI: Sorting of functions in the interface”.</p>
CXT-1831	<p>When editing referenced datasets via FS_DATASET, the preview is now updated after closing the form so that the modified content is displayed automatically.</p>
CXT-1842	<p>CMS_INPUT_DOM and CMS_INPUT_DOMTABLE now also take into account format templates that are no longer valid in ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Invalid format templates in CMS_INPUT_DOM and CMS_INPUT_DOMTABLE”.</p>
CXT-1922	<p>Switching the language in the navigation view in ContentCreator (e.g., in an empty project) could result in a <code>NullPointerException</code> (<code>java.lang.NullPointerException: store-name must not be null!</code>).</p>
CXT-1932	<p>Temporarily, when cropping language-dependent images, the language could not be selected directly.</p>



ID	Description
CXT-2010	Incorrect remote configuration (e.g., missing user permissions) no longer means that the Media Management cannot be opened (error message e.g., <code>java.lang.IllegalStateException: Unknown remote project media</code> ). The relevant remote project is not displayed in the Media Management.

## 10.26 Remote access

ID	Description
CXT-2010	Incorrect remote configuration (e.g., missing user permissions) no longer means that the Media Management cannot be opened (error message e.g., <code>java.lang.IllegalStateException: Unknown remote project media</code> ). The relevant remote project is not displayed in the Media Management.

## 10.27 Server Administrator

ID	Description
CORE-11554	The handling of redirects when resolving URIs in the context of client/server communication has been improved.
CORE-12411	A missing log file for schedules could lead to a display error in ServerMonitoring (menu item: "Logfiles / according to deployment / History").
CORE-12898	The start times for the FirstSpirit Clients have been improved by optimizing the rollout of the application buffer.  This results in shorter waiting times, particularly when starting for the first time after a FirstSpirit update.

## 10.28 ServerManager

ID	Description
CORE-12898	The start times for the FirstSpirit Clients have been improved by optimizing the rollout of the application buffer.



ID	Description
	This results in shorter waiting times, particularly when starting for the first time after a FirstSpirit update.
CORE-13072	<p>Native support of Apple M1/Apple silicon is currently not planned for FirstSpirit. However, the FirstSpirit desktop apps (ServerManager, SiteArchitect) can still be executed on Mac computers with Apple silicon using the “Rosetta 2” emulation technology.</p> <p>Further information can be found in chapter “Compatibility: Note on the compatibility of FirstSpirit with Apple silicon”.</p>
CXT-1735	<p>With the latest release, “Tailored UI” offers new configuration options: sorting of features in the client interface and cross-project settings.</p> <p>Further information can be found in chapter “ContentCreator: Tailored UI: Sorting of functions in the interface”.</p>

## 10.29 ServerMonitoring

ID	Description
CORE-12411	A missing log file for schedules could lead to a display error in ServerMonitoring (menu item: “Logfiles / according to deployment / History”).

## 10.30 SiteArchitect

ID	Description
CORE-11554	The handling of redirects when resolving URIs in the context of client/server communication has been improved.
CORE-12045	<p>In the latest FirstSpirit version, the rule evaluation (“Dynamic forms” functionality) has been expanded for ContentCreator and SiteArchitect. This means that information from other forms (e.g., form data from another page, from metadata forms, or from the project settings) can be retrieved and used in the current rule execution.</p> <p>Further information can be found in chapter “SiteArchitect / ContentCreator: Dynamic forms: Accessing information from other forms”.</p>



ID	Description
CORE-12898	<p>The start times for the FirstSpirit Clients have been improved by optimizing the rollout of the application buffer.</p> <p>This results in shorter waiting times, particularly when starting for the first time after a FirstSpirit update.</p>
CORE-13072	<p>Native support of Apple M1/Apple silicon is currently not planned for FirstSpirit. However, the FirstSpirit desktop apps (ServerManager, SiteArchitect) can still be executed on Mac computers with Apple silicon using the “Rosetta 2” emulation technology.</p> <p>Further information can be found in chapter “Compatibility: Note on the compatibility of FirstSpirit with Apple silicon”.</p>

## 10.31 Languages

ID	Description
CXT-1861	<p>The behavior of language-independent forms in scripts in connection with rules in ContentCreator has been optimized and the behavior of ShowFormDialogOperation in ContentCreator has been modified.</p> <p>Further information can be found in chapter “ContentCreator: Handling of language-independent script-based dialogs and behavior of "ShowFormDialogOperation"”.</p>
CXT-1922	<p>Switching the language in the navigation view in ContentCreator (e.g., in an empty project) could result in a <code>NullPointerException (java.lang.NullPointerException: store-name must not be null!)</code>.</p>

## 10.32 Template Store

ID	Description
CXT-1774	<p>Updating the preview in ContentCreator during the template development process has been improved.</p> <p>Further information can be found in chapter “ContentCreator: Template development: Updating the preview in ContentCreator”.</p>



## 10.33 Template Development

ID	Description
CORE-12045	<p>In the latest FirstSpirit version, the rule evaluation (“Dynamic forms” functionality) has been expanded for ContentCreator and SiteArchitect. This means that information from other forms (e.g., form data from another page, from metadata forms, or from the project settings) can be retrieved and used in the current rule execution.</p> <p>Further information can be found in chapter “SiteArchitect / ContentCreator: Dynamic forms: Accessing information from other forms”.</p>
CXT-1774	<p>Updating the preview in ContentCreator during the template development process has been improved.</p> <p>Further information can be found in chapter “ContentCreator: Template development: Updating the preview in ContentCreator”.</p>
CXT-1861	<p>The behavior of language-independent forms in scripts in connection with rules in ContentCreator has been optimized and the behavior of <code>ShowFormDialogOperation</code> in ContentCreator has been modified.</p> <p>Further information can be found in chapter “ContentCreator: Handling of language-independent script-based dialogs and behavior of “ShowFormDialogOperation””.</p>

## 10.34 Preview

ID	Description
CXT-1831	<p>When editing referenced datasets via <code>FS_DATASET</code>, the preview is now updated after closing the form so that the modified content is displayed automatically.</p>

