First Spirit™
Unlock Your Content

Release Notes
FirstSpirit™ 2022.7

Status	**RELEASED**
Department	FS-Core
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e-Spirit

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1 ContentCreator

1.1 "References" report: Show usages and relations

In FirstSpirit, you can use elements repeatedly, e.g., images, sections, pages, datasets, etc. This means that these contents can appear in multiple places of the site. This is also referred to as "Usages" or "References".

When an element is changed in one place, these changes can also affect other pages. For example, if you cut an image in the Media Store or directly on a page, the image will also appear on other pages in the modified format.

There are now additional functions to better be able to evaluate and check if, where and how the changes you made to elements have an impact:

Report "References"

The "References" report lists dependent elements.

By default (when the report is opened via the icon in the Report bar), the list refers to the actual preview element, which means generally to the current preview page.

A distinction is made for references between

- **Incoming references:**
  Here, all elements that reference the current element are shown.
 Example: pages that contain a link to the current page.

- **Outgoing references:**
  Here, all elements that are used by the selected element are shown.
  Example: media or datasets that are included on the current page (e.g. per FS_REFERENCE or FS_DATASET).

The entry below the report heading shows the element to which the report refers.
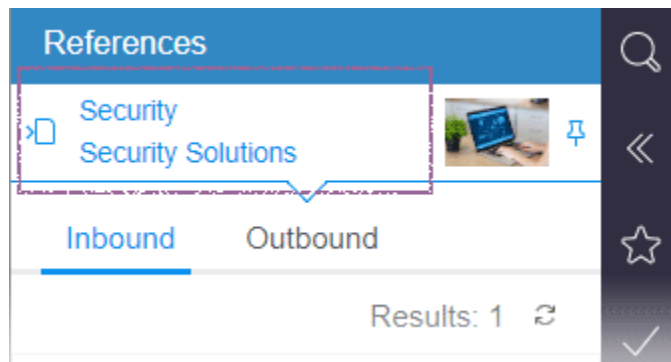
If you are in the preview, the report always refers to the current page.

If you change to another page via Preview or Navigation bar, the references of the selected page are shown.

You can fix the current element by clicking on the icon

This way, the references of the fixed element continue to be shown when changing to another element and can be checked step-by-step.

The background will then turn blue.
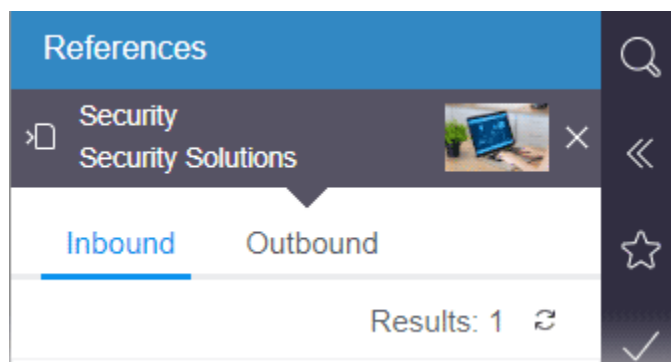
Click on the text with the blue background to return to this fixed element at any time.

Clicking on the icon

Will release the fixation and the references are displayed again in the preview.

Note: The display of references can also contain elements from other projects, or elements for which there is no display option in the current ContentCreator session. Such references are shown in the report; however, further interaction is not possible.

For elements such as sections, media and datasets, the respective references can be displayed via the icon

You will find it in many places in the ContentCreator:

- EasyEdit bar
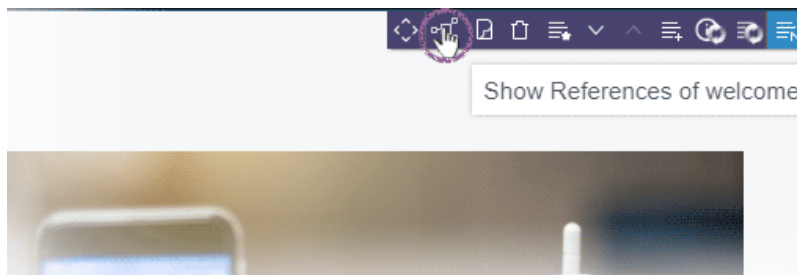
- Navigation bar
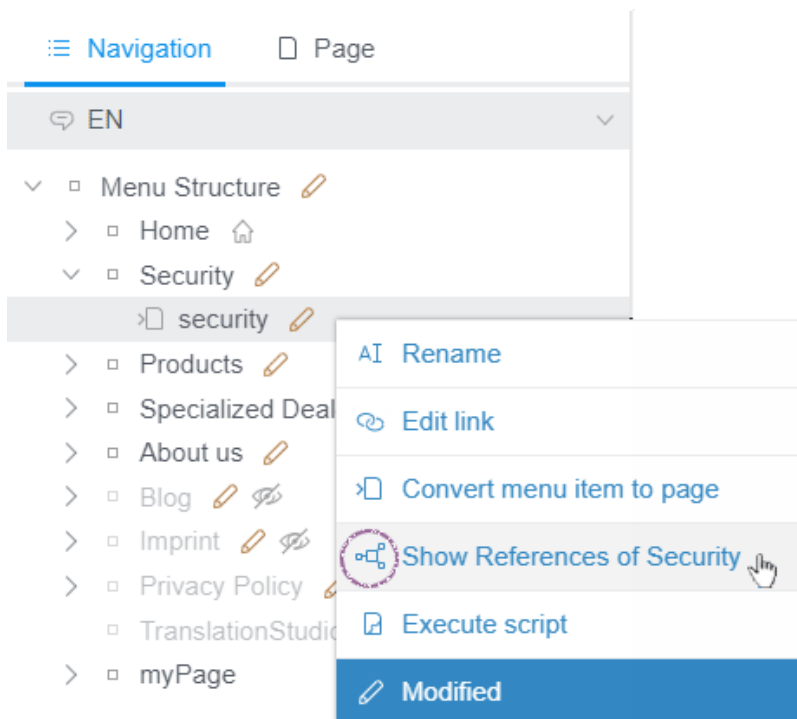
- Media management and Data sources
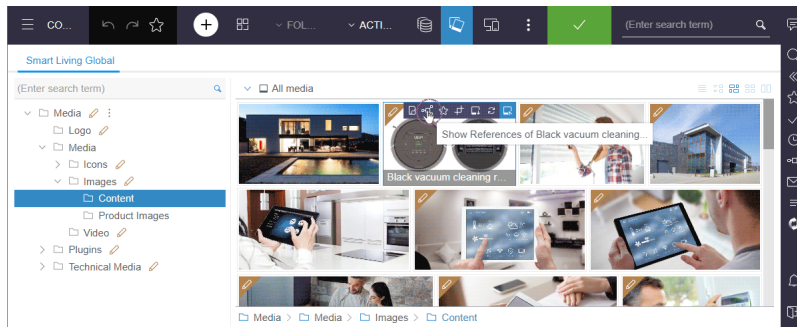
- Editing dialogs
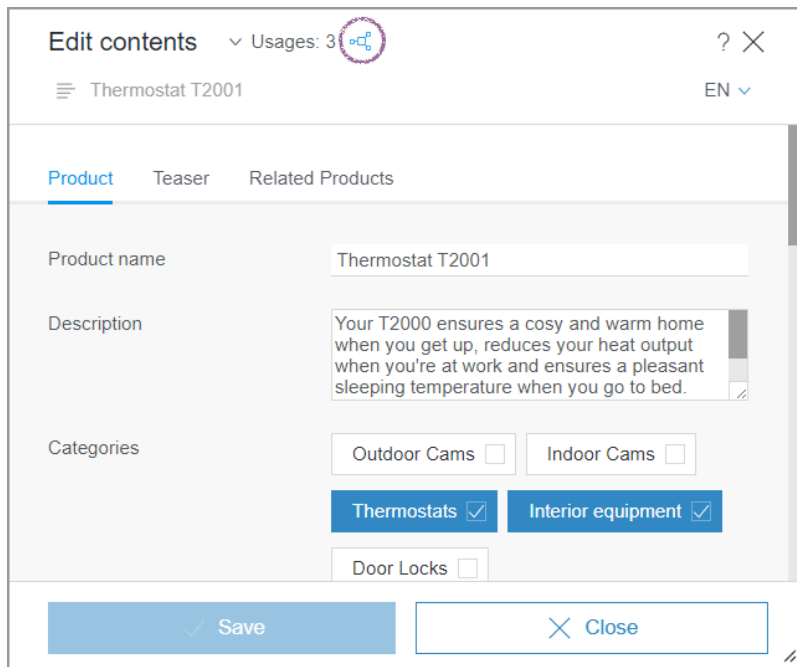
For more information, see also https://docs.e-spirit.com/contentcreator/report-area/references/index.html.

Report "Related objects"

The "References" report replaces the previous "Related objects" report and takes on its functions:

- "Inbound links":
  pages that contain a reference to the current page.
  Now located on the "Inbound" tab.

- "Outbound links":
  elements that are used by the current element.
  Now located on the "Outbound" tab.

- "Neighborhood":
  these are pages that are below the same menu item, such as the current page, but that do not have their own menu item.
  They are no longer displayed in the report but are shown in the Navigation view:
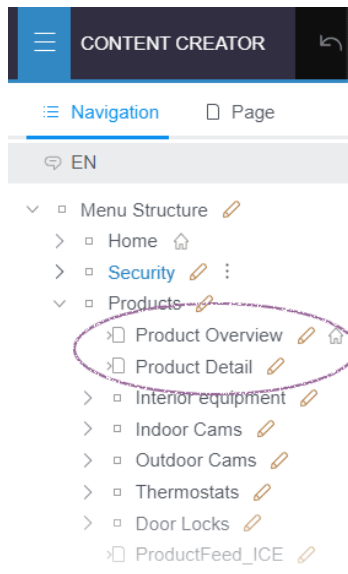
1.2 Upload of media via input component

The user guidance when uploading media via the input element "Reference selection" (FS_REFERENCE) and "Reference sensitive graphic" (CMS_INPUT_IMAGEMAP) has been improved (Parameter *upload*):
If the upload was not limited to a specific folder with the *uploadFolder* parameter, only those folders are now offered from which a selection is actually permitted, including their subfolders.

Example

```
<FS_REFERENCE name="st_picture" hFill="yes" imagePreview="yes" upload="yes"
          useLanguages="yes">
  <FILTER>
    <ALLOW type="picture"/>
    <HIDE type="file"/>
  </FILTER>
  <LANGINFOS>
    <LANGINFO lang="*" label="Picture" description="Choose the desired picture."/>
    <LANGINFO lang="DE" label="Bild" description="Wählen Sie das gewünschte Bild aus."/>
  </LANGINFOS>
  <PROJECTS>
    <LOCAL name=".">
      <SOURCES>
        <FOLDER name="aboutus" store="mediastore"/>
      </SOURCES>
    </LOCAL>
    <REMOTE name="remote">
      <SOURCES>
        <FOLDER name="homepage" store="mediastore"/>
      </SOURCES>
    </REMOTE>
  </PROJECTS>
</FS_REFERENCE>
```

This input component enables an upload to the *aboutus* folder of the local project, the *homepage* folder of the remote project and subfolder:
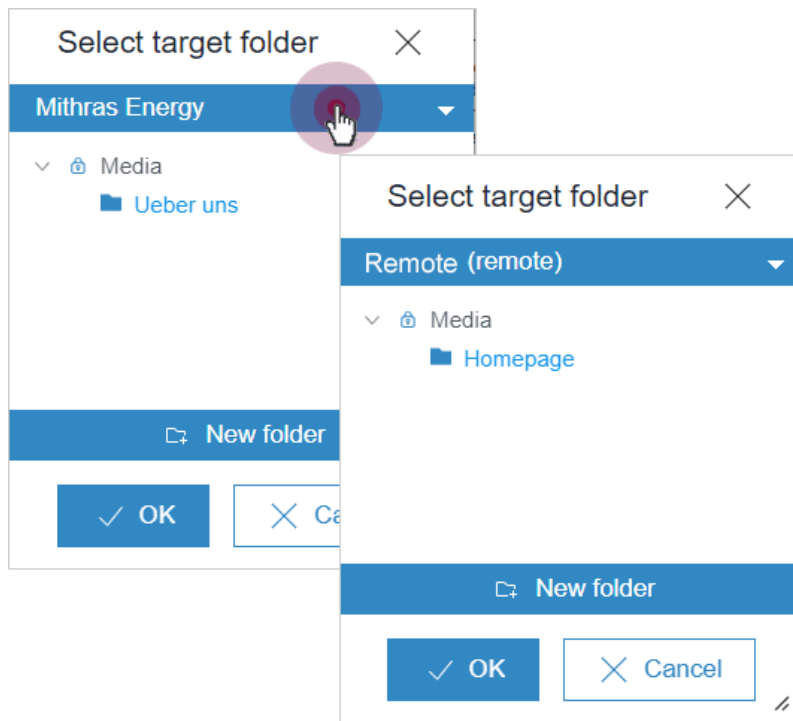
2 FirstSpirit Content Experience Tools (CXT)

2.1 Latest module versions

FirstSpirit 2022.7 supports the following module versions for "FirstSpirit Content Experience Tools".

Module / file name	Version number
FirstSpirit CXT Plattform	2.5.5
platform-[version].fsm	
FirstSpirit CXT DAP Bridge	1.44.5
dataservice-[version].fsm	
FirstSpirit CXT FragmentCreator	3.4.9
fragment-creator-[version].fsm	
FirstSpirit Fragment DAP	1.40.10
fragmentdap-[version].fsm	
FirstSpirit Media DAP	1.31.5*
mediadap-[version].fsm	
FirstSpirit PageRef DAP	1.9.5

```
pagerefdap-[version].fsm
```
FirstSpirit Markdown Editor   1.29.4*
```
markdown-editor-[version].fsm
```
FirstSpirit Tagging Editor   1.29.4
```
tagging-editor-[version].fsm
```
FirstSpirit CXT FragmentCreator - CaaS   1.31.5
Integration
```
caas-integration-[version].fsm
```

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

3   Module Development, Scripts, API

3.1   Sending e-mails to CC and BCC addresses

With the latest release, e-mails can now also be sent via API to visible and invisible copy recipients (*cc* / "Carbon copy" and *bcc* / "Blind carbon copy" / "Blind copy").

The class `MailHeader.Builder` (package `de.espirit.firstspirit.access`, FirstSpirit Access API) has been expanded with the methods

```
ccRecipient
bccRecipient
```

Example:

```
import de.espirit.firstspirit.access.MailHeader;
import de.espirit.firstspirit.access.MailService;

mailHeaderBuilder = MailHeader.getBuilder();
mailHeaderBuilder.bccRecipient("<mailadress1>;<mailadress2>");
mailHeaderBuilder.ccRecipient("<mailadress1>;<mailadress2>");
mailHeaderBuilder.recipient("<mailadress1>;<mailadress2>");
mailHeaderBuilder.sender("<senderMailadressFromServer>");
mailHeader = mailHeaderBuilder.create();
attachment = null;
service = context.getConnection().getService(MailService.class);
service.sendMail(mailHeader, "<Subject>", "<Mailbody>", attachment);
```

3.2 "StoreElement" interface: check of permissions when changing workflow permissions

A security gap was closed that allowed users to adjust the workflow permissions via FirstSpirit API in spite of insufficient permissions.

This affects the `StoreElement` interface, `de.espirit.firstspirit.access.store` package (FirstSpirit Access API):

When using the *Setter* methods and some modifying *Getter* methods, e.g.

- `setWorkflowPermission`

- `setWorkflowPermissions`

- `setInheritWorkflowPermission`

- `getCreateWorkflowPermission`

a check now determines if the executing user has the permission to change workflow permissions (*CAN_CHANGE_PERMISSION*, *permission 128*).

If the user does not have the respective permission, the method is not executed and a corresponding exception is logged, e.g.

```
...
Target exception: de.espirit.firstspirit.access.AccessSecurityException: Access
    denied to StoreElement 'xyz' with permission 128!
    (de.espirit.firstspirit.store.access.sitestore.PageRefFolderImpl, id=1600310)
...
```

Previously, the methods were also executed without sufficient permissions.
Existing customer solutions that use these methods must be checked for functionality and, if necessary, the required permissions must be assigned to the executing user.

4   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	

Functionality	Deprecated as of	Will be removed/ Was removed as of
FirstSpirit Developer API: remainingDurationOfCurrentStageInMillis (de.espirit.firstspirit.server.MaintenanceModeInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModeInfo)	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	
Control files for Windows and Linux operating systems (old)	2020-08	
Database layer for Oracle Database 11g/12c	2020-12	
FirstSpirit Developer API: redirectTemplateLogToDefaultLog() (Interface RenderingAgent.Renderer)	2021-05	

Functionality	Deprecated as of	Will be removed/ Was removed as of
Support for Log4j 1	2022-05	

5   Overview

ID	Description	Categories
CORE-12142	With the latest release, e-mails can now also be sent via API to visible and invisible copy recipients (*cc* and *bcc*). Further information can be found in chapter "Module Development, Scripts, API: Sending e-mails to CC and BCC addresses".	Developer, FirstSpirit API
CORE-13917	A security gap was closed that allowed users to adjust the workflow permissions via FirstSpirit API in spite of insufficient permissions. Further information can be found in chapter "Module Development, Scripts, API: "StoreElement" interface: check of permissions when changing workflow permissions".	Developer, FirstSpirit API, FirstSpirit Administrator, Permissions, Workflow
CORE-14183	For some methods of the class `ExportParameters` (Package `de.espirit.firstspirit.access.export`, FirstSpirit Access-API), an explanatory description was added in the API manual, e.g. `getMaxRevisionAge()`, `getMaxRevisionCount()`, `setBackup`.	Developer, FirstSpirit API
CORE-14400	Improvements in the area of "Security": If the FirstSpirit Root-WebApp is opened via a secure connection (HTTPS), the FirstSpirit SecurityFilter now sets a Strict Transport Security-Header with a time period of 90 days (HSTS, see also https://en.wikipedia.org/wiki/HTTP_Strict_Transport_Security).	FirstSpirit Administrator, Security
CORE-14410	An error has been rectified, which, in rare cases, led to that due to an error, the change of the project name was not successful until the second try (`java.lang.IllegalStateException: project 'xyz' not locked`).	FirstSpirit Administrator, ServerManager
CORE-14416	Changed objects were intermittently not released after a roll-out/import of the package in spite of an automatic release.	Corporate Content

ID	Description	Categories
CORE-14434 CORE-14342	Internal libraries that are used to support image formats have been updated.	Developer, FirstSpirit Administrator, Integrated software, Media
CORE-14445	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Modules
CORE-14450	In the meantime, an error occurred when debugging with the Template Debugger when reaching breakpoints.	Debugging, Developer, SiteArchitect, Template Debugger
CXT-1594	In the Comparison View ("Display all changes"), it is now possible to select the Comparison View for the outer or inner element specifically in the case of nested elements ("Compare xyz").	ContentCreator, Editor, Version history
CXT-2114	To better be able to evaluate and check if, where and how the changes you make to elements have an impact, there are now additional functions you can use to display references. Further information can be found in chapter "ContentCreator: "References" report: Show usages and relations".	ContentCreator, Editor, Reports
CXT-2568	The display of indentions in the Rich Text Editor in the FirstSpirit ContentCreator for writings with a writing direction from right to left was improved.	ContentCreator, Editor, Languages
CXT-2603	The user guidance when uploading media via the input elements "Reference selection" (FS_REFERENCE) and "Reference sensitive graphic" (CMS_INPUT_IMAGEMAP) was improved. Further information can be found in chapter "ContentCreator: Upload of media via input component".	ContentCreator, Developer, Editor, Input Components, Media
CXT-2604	The file selection dialog in the FirstSpirit ContentCreator intermittently failed to open when exchanging the medium.	ContentCreator, Editor, Media, Media Store

ID	Description	Categories
CXT-2611 CXT-2609	In the FirstSpirit ContentCreator, the change recognition has been improved when editing texts, tables, references and lists, so that the "Save" button will now only become active with actual changes made.	ContentCreator, Editor
CXT-2624	In rare cases, the selected date in the input element for date and time (CMS_INPUT_DATE) was shown incorrectly in the form in the ContentCreator: for example, when the first day of a month was selected, the first day of the following month was shown as selected,	ContentCreator, Editor, Input Components

6   Categories

6.1   Workflow

ID	Description
CORE-13917	A security gap was closed that allowed users to adjust the workflow permissions via FirstSpirit API in spite of insufficient permissions. Further information can be found in chapter "Module Development, Scripts, API: "StoreElement" interface: check of permissions when changing workflow permissions".

6.2   ContentCreator

ID	Description
CXT-1594	In the Comparison View ("Display all changes"), it is now possible to select the Comparison View for the outer or inner element specifically in the case of nested elements ("Compare xyz").
CXT-2114	To better be able to evaluate and check if, where and how the changes you make to elements have an impact, there are now additional functions you can use to display references. Further information can be found in chapter "ContentCreator: "References" report: Show usages and relations".
CXT-2568	The display of indentions in the Rich Text Editor in the FirstSpirit ContentCreator for writings with a writing direction from right to left was improved.

ID	Description
CXT-2603	The user guidance when uploading media via the input elements "Reference selection" (FS_REFERENCE) and "Reference sensitive graphic" (CMS_INPUT_IMAGEMAP) was improved. Further information can be found in chapter "ContentCreator: Upload of media via input component".
CXT-2604	The file selection dialog in the FirstSpirit ContentCreator intermittently failed to open when exchanging the medium.
CXT-2611 CXT-2609	In the FirstSpirit ContentCreator, the change recognition has been improved when editing texts, tables, references and lists, so that the "Save" button will now only become active with actual changes made.
CXT-2624	In rare cases, the selected date in the input element for date and time (CMS_INPUT_DATE) was shown incorrectly in the form in the ContentCreator: for example, when the first day of a month was selected, the first day of the following month was shown as selected,

6.3 Corporate Content

ID	Description
CORE-14416	Changed objects were intermittently not released after a roll-out/import of the package in spite of an automatic release.

6.4 Debugging

ID	Description
CORE-14450	In the meantime, an error occurred when debugging with the Template Debugger when reaching breakpoints.

6.5   Input Components

ID	Description
CXT-2603	The user guidance when uploading media via the input elements "Reference selection" (FS_REFERENCE) and "Reference sensitive graphic" (CMS_INPUT_IMAGEMAP) was improved. Further information can be found in chapter "ContentCreator: Upload of media via input component".
CXT-2624	In rare cases, the selected date in the input element for date and time (CMS_INPUT_DATE) was shown incorrectly in the form in the ContentCreator: for example, when the first day of a month was selected, the first day of the following month was shown as selected,

6.6   Developer

ID	Description
CORE-12142	With the latest release, e-mails can now also be sent via API to visible and invisible copy recipients (*cc* and *bcc*). Further information can be found in chapter "Module Development, Scripts, API: Sending e-mails to CC and BCC addresses".
CORE-13917	A security gap was closed that allowed users to adjust the workflow permissions via FirstSpirit API in spite of insufficient permissions. Further information can be found in chapter "Module Development, Scripts, API: "StoreElement" interface: check of permissions when changing workflow permissions".
CORE-14183	For some methods of the class `ExportParameters` (Package `de.espirit.firstspirit.access.export`, FirstSpirit Access-API), an explanatory description was added in the API manual, e.g. `getMaxRevisionAge()`, `getMaxRevisionCount()`, `setBackup`.
CORE-14434 CORE-14342	Internal libraries that are used to support image formats have been updated.
CORE-14445	FirstSpirit Content Experience Tools: Latest module versions

ID	Description
	Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".
CORE-14450	In the meantime, an error occurred when debugging with the Template Debugger when reaching breakpoints.
CXT-2603	The user guidance when uploading media via the input elements "Reference selection" (FS_REFERENCE) and "Reference sensitive graphic" (CMS_INPUT_IMAGEMAP) was improved. Further information can be found in chapter "ContentCreator: Upload of media via input component".

6.7   FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-14445	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".

6.8   FirstSpirit Administrator

ID	Description
CORE-13917	A security gap was closed that allowed users to adjust the workflow permissions via FirstSpirit API in spite of insufficient permissions. Further information can be found in chapter "Module Development, Scripts, API: "StoreElement" interface: check of permissions when changing workflow permissions".
CORE-14400	Improvements in the area of "Security": If the FirstSpirit Root-WebApp is opened via a secure connection (HTTPS), the FirstSpirit SecurityFilter now sets a Strict Transport Security-Header with a time period of 90 days (HSTS, see also https://en.wikipedia.org/wiki/HTTP_Strict_Transport_Security).

ID	Description
CORE-14410	An error has been rectified, which, in rare cases, led to that due to an error, the change of the project name was not successful until the second try (`java.lang.IllegalStateException: project 'xyz' not locked`).
CORE-14434 CORE-14342	Internal libraries that are used to support image formats have been updated.
CORE-14445	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".

6.9   FirstSpirit API

ID	Description
CORE-12142	With the latest release, e-mails can now also be sent via API to visible and invisible copy recipients (*cc* and *bcc*). Further information can be found in chapter "Module Development, Scripts, API: Sending e-mails to CC and BCC addresses".
CORE-13917	A security gap was closed that allowed users to adjust the workflow permissions via FirstSpirit API in spite of insufficient permissions. Further information can be found in chapter "Module Development, Scripts, API: "StoreElement" interface: check of permissions when changing workflow permissions".
CORE-14183	For some methods of the class `ExportParameters` (Package `de.espirit.firstspirit.access.export`, FirstSpirit Access-API), an explanatory description was added in the API manual, e.g. `getMaxRevisionAge()`, `getMaxRevisionCount()`, `setBackup`.

6.10   FragmentCreator

ID	Description
CORE-14445	FirstSpirit Content Experience Tools: Latest module versions

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

6.11   Integrated software

ID	Description
CORE-14434 CORE-14342	Internal libraries that are used to support image formats have been updated.

6.12   Media

ID	Description
CORE-14434 CORE-14342	Internal libraries that are used to support image formats have been updated.
CXT-2603	The user guidance when uploading media via the input elements "Reference selection" (FS_REFERENCE) and "Reference sensitive graphic" (CMS_INPUT_IMAGEMAP) was improved. Further information can be found in chapter "ContentCreator: Upload of media via input component".
CXT-2604	The file selection dialog in the FirstSpirit ContentCreator intermittently failed to open when exchanging the medium.

6.13   Media Store

ID	Description
CXT-2604	The file selection dialog in the FirstSpirit ContentCreator intermittently failed to open when exchanging the medium.

6.14   Modules

ID	Description
CORE-14445	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".

6.15   Permissions

ID	Description
CORE-13917	A security gap was closed that allowed users to adjust the workflow permissions via FirstSpirit API in spite of insufficient permissions. Further information can be found in chapter "Module Development, Scripts, API: "StoreElement" interface: check of permissions when changing workflow permissions".

6.16   Editor

ID	Description
CXT-1594	In the Comparison View ("Display all changes"), it is now possible to select the Comparison View for the outer or inner element specifically in the case of nested elements ("Compare xyz").
CXT-2114	To better be able to evaluate and check if, where and how the changes you make to elements have an impact, there are now additional functions you can use to display references. Further information can be found in chapter "ContentCreator: "References" report: Show usages and relations".
CXT-2568	The display of indentions in the Rich Text Editor in the FirstSpirit ContentCreator for writings with a writing direction from right to left was improved.
CXT-2603	The user guidance when uploading media via the input elements "Reference selection" (FS_REFERENCE) and "Reference sensitive graphic" (CMS_INPUT_IMAGEMAP) was improved.

ID	Description
	Further information can be found in chapter "ContentCreator: Upload of media via input component".
CXT-2604	The file selection dialog in the FirstSpirit ContentCreator intermittently failed to open when exchanging the medium.
CXT-2611 CXT-2609	In the FirstSpirit ContentCreator, the change recognition has been improved when editing texts, tables, references and lists, so that the "Save" button will now only become active with actual changes made.
CXT-2624	In rare cases, the selected date in the input element for date and time (CMS_INPUT_DATE) was shown incorrectly in the form in the ContentCreator: for example, when the first day of a month was selected, the first day of the following month was shown as selected,

6.17   Reports

ID	Description
CXT-2114	To better be able to evaluate and check if, where and how the changes you make to elements have an impact, there are now additional functions you can use to display references. Further information can be found in chapter "ContentCreator: "References" report: Show usages and relations".

6.18   ServerManager

ID	Description
CORE-14410	An error has been rectified, which, in rare cases, led to that due to an error, the change of the project name was not successful until the second try (`java.lang.IllegalStateException: project 'xyz' not locked`).

6.19   Security

ID	Description
CORE-14400	Improvements in the area of "Security": If the FirstSpirit Root-WebApp is opened via a secure connection (HTTPS), the FirstSpirit SecurityFilter now sets a Strict Transport Security-Header with a time period of 90 days (HSTS, see also https://en.wikipedia.org/wiki/HTTP_Strict_Transport_Security).

6.20   SiteArchitect

ID	Description
CORE-14450	In the meantime, an error occurred when debugging with the Template Debugger when reaching breakpoints.

6.21   Languages

ID	Description
CXT-2568	The display of indentions in the Rich Text Editor in the FirstSpirit ContentCreator for writings with a writing direction from right to left was improved.

6.22   Version history

ID	Description
CXT-1594	In the Comparison View ("Display all changes"), it is now possible to select the Comparison View for the outer or inner element specifically in the case of nested elements ("Compare xyz").

6.23   Template Debugger

ID	Description
CORE-14450	In the meantime, an error occurred when debugging with the Template Debugger when reaching breakpoints.