



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2019-10

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1 Administration

1.1 IBM AIX and Solaris are no longer supported

FirstSpirit is operated successfully by customers and partners with a wide range of different third-party components (operating systems, JDKs, servlet engines, application servers, databases). The high number of supported third-party components, short release cycles, as well as the many combination and configuration possibilities of third-party components lead to a very high test complexity.

In order to maintain our high software quality standards, we have to manage complexity and therefore focus on the third-party components that are used successfully by our customers and cover the majority of the market. As a result, the operating systems

- IBM AIX
- Solaris

are **no longer supported**. (The end of support was announced with FirstSpirit 2019-06).

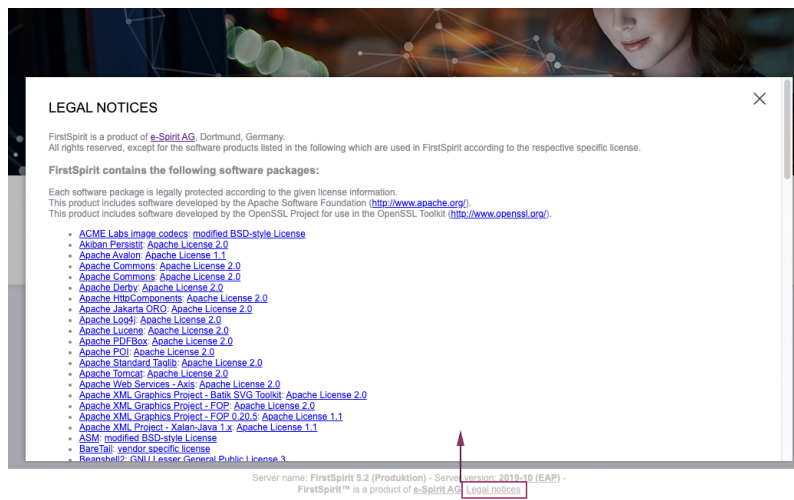
For a complete list of supported operating systems see [Technical requirements and recommendations \(Documentation for administrators\)](#).

2 General

2.1 FirstSpirit start page: information on third-party software and modules

The “Legal notices” link at the bottom of the FirstSpirit start page can be used to call up information regarding third-party software being used and the license.





FirstSpirit start page: legal notices after login

New behavior:

In the current release, this information is still only accessible to users who have previously been authenticated in the system.

In addition, the current release enables information regarding the name, version, and where applicable, license information for the FirstSpirit modules installed on the server to be displayed via the “Legal notices” link.

For module developers:

The “Legal notices” section lists all modules that contain license information regarding their dependencies.

These are all modules (FSM archives) which implement the `<licenses><Path to licensefile></licenses>` tag in the `module[-isolated].xml` module descriptor, for example:

```
<module>
...
<licenses>META-INF/licenses.csv</licenses>
...
</module>
```

The CSV file passed here must start with the following row:



```
"artifact", "moduleUrl", "moduleLicense", "moduleLicenseUrl"
```

In the following rows, one piece of license information is then stored in each row in the specified format. Any information that is missing is represented by an empty entry.

Example:

```
"artifact", "moduleUrl", "moduleLicense", "moduleLicenseUrl"  
"myClass", "meine Klasse", "http://www.example.org"
```

2.2 Java: Current status and outlook

For FirstSpirit, e-Spirit supports:

- OpenJDK: the current Java version as well as the latest LTS (Long-Term-Support) variant.
- Oracle Java: only the latest LTS (Long-Term-Support) variant.

This applies to both the FirstSpirit Server and the FirstSpirit desktop applications.

As an exception from this rule e-Spirit on an interim basis continues to support Oracle Java and OpenJDK version 8. Support for Java 8 will cease in the future (see below for “Outlook Java 8 support”).

As of FirstSpirit 2019-10, OpenJDK 13 (non-LTS; Release Date 2019-09) is officially approved for use with FirstSpirit (the FirstSpirit Server and the FirstSpirit desktop applications).

Adopt OpenJDK 13 is included in the “FirstSpirit Launcher JRE” module (see module “FirstSpirit Launcher JRE”: Updating Java versions). After the appropriate configuration, the FirstSpirit desktop applications can be started via the “FirstSpirit Launcher JRE” module using the FirstSpirit Launcher with Adopt OpenJDK 13. (For documentation on the “FirstSpirit Launcher JRE” module, see the [corresponding documentation](#)).

With the support for OpenJDK 13, the support for **OpenJDK 12** (non-LTS; Release Date 2019-03) expires.

FirstSpirit is expected to remain functional with OpenJDK 12. However, e-Spirit AG will neither carry out tests with OpenJDK 12 nor implement any measures designed to eliminate errors or problems that are exclusively associated with the use of OpenJDK 12.



Current status: The following JDKs are therefore compatible for FirstSpirit 2019-10:

- Oracle Java 11 (in the current version) (LTS)
- Oracle Java 8 (in the current version) (LTS; outdated)
- OpenJDK 13 (in the current version) (non-LTS)
- OpenJDK 11 (in the current version) (LTS)
- OpenJDK 8 (in the current version) (LTS; outdated)

A complete list of the supported Java versions can be found in [Technical requirements and recommendations \(Documentation for administrators\)](#).

Outlook Java 8 support:

As part of product maintenance, discontinuation of support for Java 8 was announced with FirstSpirit 2019-05 (*).

FirstSpirit is scheduled to no longer support Oracle Java 8 and OpenJDK 8 from June 2020.

(*) Oracle themselves have not provided any public updates for Java 8 since February 2019 and recommend that developers and end users transition to a higher Java version in order to continue receiving public updates and security enhancements.

Background: FirstSpirit is operated successfully by customers and partners with a wide range of different third-party components (operating systems, JDKs, servlet engines, application servers, databases) and external libraries. Some of these components / libraries are no longer compatible with Java 8 in the current version. This applies, for example, to the internal “Apache Derby” database supplied with FirstSpirit. This means that updates can no longer be carried out for these third-party components / libraries, which is particularly critical for security-relevant updates.

- ! If security gaps or security-relevant problems should occur under Java 8 in the future, e-Spirit AG reserves the right to terminate Java 8 support for FirstSpirit prematurely (before June 2020).

With the end of Java 8 support, as announced before, also:



- the support for the Windows installer will be dropped. We advise our customers to use the new installation method via the install archive (see [Installing FirstSpirit](#)) and
- the option of starting the FirstSpirit desktop applications via Java Web Start will no longer be available. (The Java Web Start functionality is included in Oracle Java 8, but will not appear in Oracle Java 11. OpenJDK does not offer a comparable technology.) SiteArchitect and ServerManager can then be started only via the FirstSpirit Launcher (see [FirstSpirit Launcher documentation](#)).

The ramp-down phase for Java 8 will start as planned in Q2-2020 and will gradually reduce the Java 8 compatibility tests. In Q4-2020 the byte code level will be switched from Java 8 to Java 11. **From this point on, all Java versions prior to Java 11 (LTS) will be incompatible with FirstSpirit.**

This means that FirstSpirit will no longer be executable with Oracle Java 8 or OpenJDK 8 and that e-Spirit AG will no longer implement any measures to eliminate errors or problems associated with Java 8. **We recommend that you switch to a higher Java version soon.**

- 
 - On the server side a switch from Java 8 to Java 11 (and higher) should be tested extensively on a test system, especially when using third-party components and individual customer extensions! Java 8 and Java 11 in parts differ significantly, possibly rendering existing libraries and implementations incompatible with Java 11 (and higher). In such cases updating the respective libraries can help, if updates exist. When changing from Java 8 to Java 11 (and higher) we recommend switching the server to Isolated Mode at same time, in order to avoid having to test modules and implementations twice. For this topic see [Switching to Isolated Mode](#).

2.3 Using FirstSpirit Desktop Apps with macOS X 10.15 (Catalina)

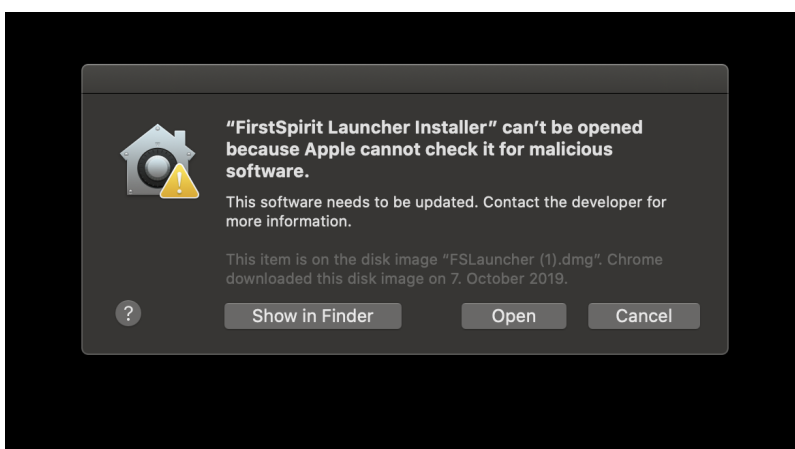
Starting with version 10.15 of the operating system macOS (“Catalina”) “notarization” is required for any software that is to run on the operating system. This partially affects the use of the FirstSpirit Launcher, too, which is recommended for starting the FirstSpirit Desktop Apps (SiteArchitect, ServerManager).

- For users who have already operated the FirstSpirit Desktop Apps via FirstSpirit Launcher **before** switching from an earlier version to macOS 10.15, nothing changes.
- For a **new** installation of the FirstSpirit Launcher on a macOS from version 10.15, the following workaround can be used to bypass the “Gatekeeper” security function, which prevents the



installation by default (error message: “FirstSpirit Launcher Installer’ can not be opened because Apple cannot check it for malicious software.”):

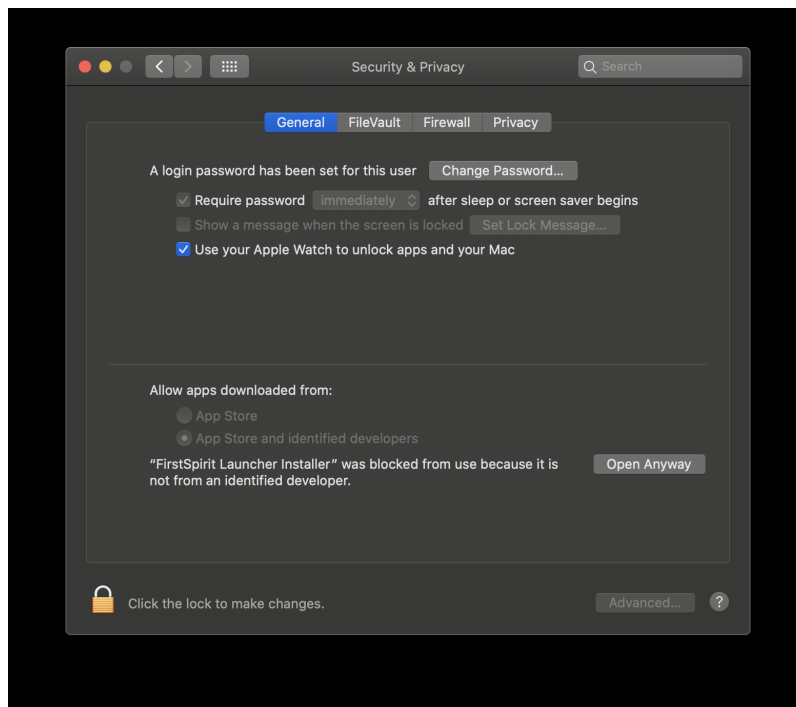
1. (Download FirstSpirit Launcher from the FirstSpirit startpage)
2. (find the downloaded file FSLauncher .dmg in the file system, double click / open)
3. keep Ctrl key pressed
4. click the icon of the “FirstSpirit Launcher Installer”
5. if the “Open” button appears in the following error dialog, the launcher can be installed



If necessary, repeat steps 3 and 4 until the “Open” button appears.

Alternative: Start the “FirstSpirit Launcher Installer” file from the tab “Security & Privacy” in the system preferences (button “Open Anyway”):





For more information about the FirstSpirit Launcher please see

- <https://docs.e-spirit.com/odfs/edocs/admi/firstspirit-sta/areas-the-start/firstspirit-lau/index.html>
- https://docs.e-spirit.com/odfs/edocs/inst/starting-applic/index.html#firstspirit_launcher

For background information about “Notarizations” for Apple apps please see

- <https://developer.apple.com/videos/play/wwdc2019/703/>
- https://developer.apple.com/documentation/security/notarizing_your_app_before_distribution

3 ContentCreator

3.1 Media Galleries in ContentCreator (Alternative to FS_LIST)

Images from the Media Store can be output in FirstSpirit in a gallery view.

Until now, only the input component for creating and managing lists FS_LIST with tag MEDIAMODE could be used to maintain the media gallery (e.g. selecting the images that should belong to the gallery). This



input component is expected to be omitted on 01.01.2020. The input components FS_CATALOG and FS_INDEX can be used as replacements.

As of the current FirstSpirit release, the FirstSpirit ContentCreator provides a new way of maintaining media galleries: via drag-and-drop.

For this purpose an input component of type FS_INDEX (instead of FS_LIST as before) can be used with the DatasetDataAccessPlugin which is supplied as standard (tag SOURCE):

Example (template for creating and maintaining the gallery, “Gallery template”):

```
<FS_INDEX name="st_picturelist" useLanguages="no">
  <LANGINFOS>
    <LANGINFO lang="*" label="Pictures"/>
    <LANGINFO lang="DE" label="Bilder"/>
  </LANGINFOS>
  <SOURCE name="DatasetDataAccessPlugin">
    <TEMPLATE uid="Products.gallery_media"/>
  </SOURCE>
</FS_INDEX>
```

The uid attribute in the TEMPLATE tag specifies the reference name of the table template in which the media is stored.

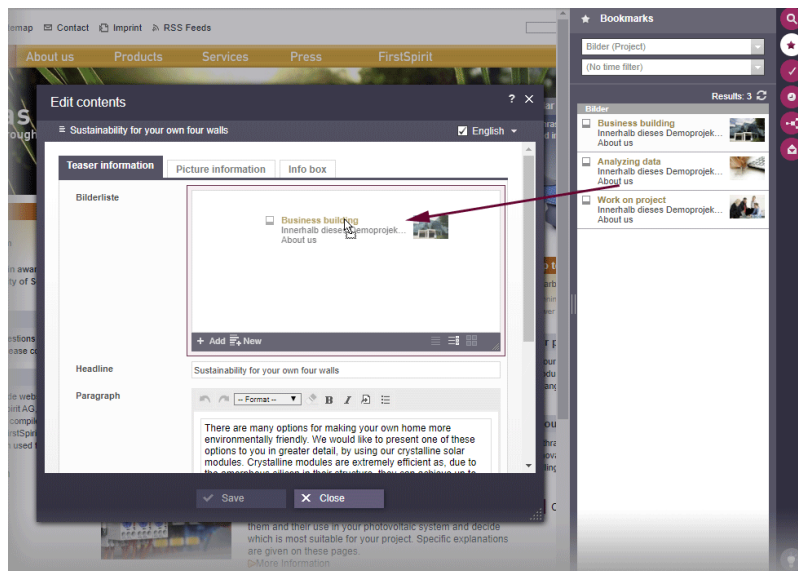
To store the images in the relevant table, an FS_REFERENCE component must be defined in the corresponding table template:

Example (table template for storing the images, “Image template”):

```
<FS_REFERENCE name="cs_media" hFill="yes" upload="yes">
  <LANGINFOS>
    <LANGINFO lang="*" label="Medium"/>
  </LANGINFOS>
</FS_REFERENCE>
```

If this FS_REFERENCE component is selected on the “Properties” tab of the “Image template” in the field “Drop Editor” (in this example: *cs_media*), the ContentCreator editor can drop images (e.g. from a report) into the open form of the table template:





In the example described, the component not only allows you to select images that already exist in the project, but also to upload new images (due to the attribute `upload="yes"`). After the drop, a dialog opens in which the storage location for the new image to be uploaded can be determined.

With each drop of an image a new entry is created in the `FS_INDEX` component in which the image is referenced. At the same time, a dataset with the dropped image is created in the referenced table. If there are mandatory fields in the dataset to be created that must be filled in by the editor, or rule violations that prevent storing, the editing window with the available input components opens after releasing the mouse button.

Notes

- Drag-and-drop of multiple images simultaneously is currently not supported.
- The `FS_INDEX` component allows you to drop images into the open form. If images are to be dropped directly onto the preview, `FS_BUTTON` with `NewListEntryExecutable` can be used for this:

Example for the "Form" tab:



```
<FS_BUTTON
  name="pt_createIndexElement"
  hidden="yes"
  icon="fs:new"
  onDrop=
    "class:de.espirit.firstspirit.webedit.server.executables.NewListEntryExecutable"
  style="firstspirit"
  useLanguages="no">
  <LANGINFOS>
    <LANGINFO lang="" label="Create mediaelement"/>
  </LANGINFOS>
</FS_BUTTON>
```

Example for the “Output” tab:

```
<span$CMS_VALUE(
  fsbutton(
    editorName:"pt_createIndexElement",
    parameter:{"editorId": editorId(editorName:"st_picturelist", json: true)}
  )
)$></span>
```

Zu allgemeinen Informationen zum Konzept von Medien-Galerien siehe [FirstSpirit Online Dokumentation](#).

4 Input components

4.1 Input component for outputting a list of sections of a page:

CMS_INPUT_SECTIONLIST

The CMS_INPUT_SECTIONLIST input component can be used to create a list of sections of the current page. Sections can be selected from this by means of checkboxes. In addition, labeling can be assigned for each section, which can be taken into account in the output. This input component can be used, for example, to create a table of contents with jump labels to the sections, and thus represents an alternative to FS_LIST, type PAGE.



```
<CMS_INPUT_SECTIONLIST name="pt_sectionlist">
  <LANGINFOS>
    <LANGINFO lang="" label="Table of content"/>
    <LANGINFO lang="DE" label="Inhaltsverzeichnis"/>
  </LANGINFOS>
</CMS_INPUT_SECTIONLIST>
```

Appearance in SiteArchitect:

TABLE OF CONTENTS	
☐ Press releases (Teaser)	
☐ Contact	
☐ FirstSpirit	
☒ Sustainability for your own four walls	Sustainability for your own four walls
☒ All about inverters	Our inverters
☒ The structure of a solar panel	The structure of a solar panel
☐ Tag-Cloud (local)	
☐ Products	
☐ About us	

Appearance in ContentCreator:

Table of contents	
☐ Show all sections in overview	
☐ Press releases (Teaser)	×
☐ Contact	×
☐ FirstSpirit	×
☒ Sustainability for your own four walls	×
☒ Our inverters	×
☒ The structure of a solar panel	×
☐ Tag-Cloud (local)	×
☐ Products	×
☐ About us	×

This input component returns a list of `SectionListEntry` objects.
 You can use the method



- `getAnchorName()` (in Bean syntax: `.anchorName`) to get the name of the anchor generated by the section in HTML
- `getText()` (in Bean syntax: `.text`) get the label assigned to the section
- `getSectionName()` (in Bean syntax: `.sectionName`) get the reference name of the section

Example for outputting CMS_INPUT_SECTIONLIST:

```
$CMS_FOR(section, pt_sectionlist)$  
  <li>  
    <a href="#$CMS_VALUE(section.anchorName)$">$CMS_VALUE(section.text)$</a>  
  </li>  
$CMS_END_FOR$
```

Migration notice

Data that was stored using an FS_LIST, type PAGE, can be read, processed and stored by the CMS_INPUT_SECTIONLIST input component after conversion to CMS_INPUT_SECTIONLIST (while retaining the identifier, attribute name). The output must be adjusted accordingly in the template when migrating.

The data format is compatible in both directions. This means that both CMS_INPUT_SECTIONLIST can read the FS_LIST data and FS_LIST can read the CMS_INPUT_SECTIONLIST data format. However, FS_LIST should no longer be used, as it will no longer be supported by FirstSpirit as planned from January 2020 (see also chapter “FS_LIST omitted as of 01.01.2020”). Early conversion to alternatives (FS_INDEX, FS_CATALOG, CMS_INPUT_SECTIONLIST) is recommended.

4.2 FS_LIST input component dropped 01/01/2020

With FirstSpirit version 5.2R3 the input component FS_LIST, for creating and maintaining list, has been deprecated:

FirstSpirit support of the input component is planned to be discontinued from January 2020 on.

In order to make the phasing out of FS_LIST as low-risk as possible, the removal is carried out in several steps.

the ramp down phase for the FS_LIST input component is scheduled to start with FirstSpirit 2019-11:

1. **With FirstSpirit 2019-11** in all projects, that use the input component FS_LIST:



- when opening the respective forms or
- when generating data from the FS_LIST input component

deprecation warning will be logged. The component remains fully functional, though, and can still be used.

2. **With FirstSpirit 2020-01** the input component is deactivated by default in all projects. The component can no longer be used from this point on. That means:
 - forms with FS_LIST can no longer be edited and
 - the expected output will no longer be generated.
3. In order to minimize the risk of production problems, particularly for customers with longer update cycles, during a six months transition period it will be possible to temporarily re-active FS_LIST. In order to do so please contact [e-Spirit Technical Support](#).
4. **With FirstSpirit 2020-07** the input component will be **removed** from FirstSpirit, and can no longer be used in any project from that moment on.

! e-Spirit recommends developers and end users to switch to alternative FirstSpirit input components at an early stage.
Before updating to FirstSpirit 2020-01 or higher, all FS_LIST uses must be converted to one of the successor components.

As replacements the input components **FS_CATALOG**, **FS_INDEX**, and CMS_INPUT_SECTIONLIST are available, likewise providing functionality for the bundling of contents and thus largely taking over the FS_LIST use cases.

- FS_LIST, type DATABASE can be replaced by an **FS_INDEX** input component.
- FS_LIST, type INLINE can be replaced by an **FS_CATALOG** input component.
- FS_LIST with tag MEDIAMODE can be replaced by an **FS_INDEX** input component, when using the DatasetDataAccessPlugin (tag SOURCE), which is delivered with FirstSpirit by default.



- FS_LIST, type PAGE can be replaced by the input component CMS_INPUT_SECTIONLIST.
- FS_LIST, type SERVICE can be replaced by an FS_INDEX input component, when using a corresponding data access plug-in.

A detailed guide and tools for the transition of existing projects will be provided soon in the [FirstSpirit Community](#).

! After the transition to the new input components a return to FS_LIST is not possible - not even after a server downgrade.

Please contact [e-Spirit Technical Support](#) if you have questions or feedback regarding the migration away from FS_LIST.

4.3 Output optimization of FS_INDEX-content containing data from a DataAccessPlugin

Using an FS_INDEX type input component, it is possible to connect external components or modules which are providing data for the input component. Using an implementation of the type [DataAccessPlugin](#) for example it is possible to connect external web services for data access. The FS_INDEX input component saves references of external data objects with identifiers in string format. To get the actual data of an index entry, the [DataAccessPlugin Session](#) object has to be addressed, to access and process the data object using the string identifier.

Within output channel definitions an object of type [IndexAccessor](#) is returned, when accessing the value set of an FS_INDEX input component. This gives access to the stored string identifiers, and additionally provides a list of the respective data objects.

In FirstSpirit 2019-10 the distribution of FS_INDEX content containing data from a DataAccessPlugin was optimized. Now, values are stored in an [IndexAccessor](#) object upon first access and won't be resolved through the [DataAccessPlugin](#) again on repeated access.



5 FirstSpirit Content Experience Tools (CXT)

5.1 Latest module versions

FirstSpirit 2019-10 supports the following module versions for “FirstSpirit Content Experience Tools”:

Module / file name	Version number
FirstSpirit CXT DAP Bridge	1.21
dataservice-[version].fsm	
FirstSpirit CXT FragmentCreator	1.28
fragment-creator-[version].fsm	
FirstSpirit Fragment DAP	1.18
fragmentdap-[version].fsm	
FirstSpirit Media DAP	1.17
mediadap-[version].fsm	
FirstSpirit Markdown Editor	1.15*
markdown-editor-[version].fsm	
FirstSpirit Tagging Editor	1.15
tagging-editor-[version].fsm	
FirstSpirit CXT FragmentCreator - CaaS	1.12
Integration	
caas-integration-[version].fsm	

* The module “FirstSpirit Markdown Editor” requires from version 1.14 FirstSpirit 2019-08 or higher.

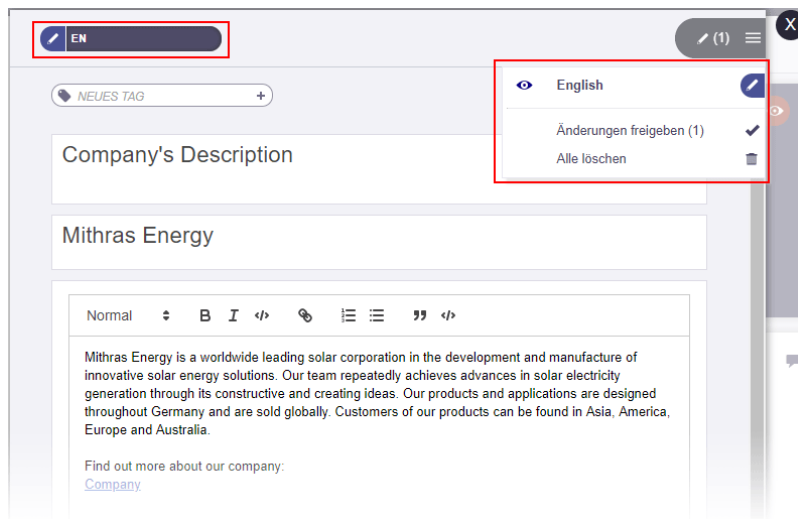
5.2 Restricting fragment editing in the MicroApp to specific variants

When using the “Edit fragment” MicroApp, the current variant of a fragment is opened for editing by default. The current release enables the variants that are displayed to and can be edited by the user to be determined.

To do this, a valid documentId or fragmentId must be specified, as well as the newly introduced dimensionFilterList attribute. The dimensionFilterList attribute expects a list of maps from the name and the value of the edition(s) to be displayed.

The window that opens then only displays the content that matches the specified values. The “Release changes” and “Delete” menu functions then also only refer to the predefined variants.





Examples:

1) The respective fragment is displayed in the *language* edition with the value *DE*, *EN*, or *ES* (generally the languages are “German”, “English”, and “Spanish”, if present in the project):

```
let ctx = {
  projectId: 12345,
  command: "EditFragment",
  documentId: null, /*GUELTIGE DOCUMENT-ID */
  fragmentId: null, /* ODER GUELTIGE FRAGMENT-ID*/
  dimensionFilterList: [
    {"filterName": "language", "filterValues": ["DE", "EN", "ES"]}
  ]
};
CxtMicroApps.requestMicroApp("firstspirit-fragments-edit", context);
```

2) Display of the respective fragment is restricted to the *language* edition with the value *DE*, *EN*, or *ES*, as well to the *device* edition with the value *Desktop*, and the *season* edition with the *autumn* value:



```
let ctx = {
  projectId: 12345,
  command: "EditFragment",
  documentId: null, /*GUELTIGE DOCUMENT-ID */
  fragmentId: null, /* ODER GUELTIGE FRAGMENT-ID*/
  dimensionFilterList: [
    {"filterName": "language", "filterValues": ["DE", "EN", "ES"]},
    {"filterName": "device", "filterValues": ["Desktop"]},
    {"filterName": "season", "filterValues": ["autumn"]}
  ]
};
CxtMicroApps.requestMicroApp("firstspirit-fragments-edit", context);
```

5.3 Starting FragmentCreator with parameterized URL

Parameters can be passed by URL to start the FragmentCreator, e. g.

```
localhost:8000/fragments?category=single_text&search=Test
```

As of the current release, the following parameters can be used, in addition to the project ID

Parameter name	expects	functionality
search	search term / text	opens the FragmentCreator with the specified search term
category	UID of the desired category (page template on which the desired fragment type is based)	opens the FragmentCreator with the specified category
fragment	fragmentId	opens the FragmentCreator with the specified fragment
variant	variantId	opens the FragmentCreator with the specified variant

The parameters can be combined. They are evaluated with the following priority:

1. variant
2. fragment



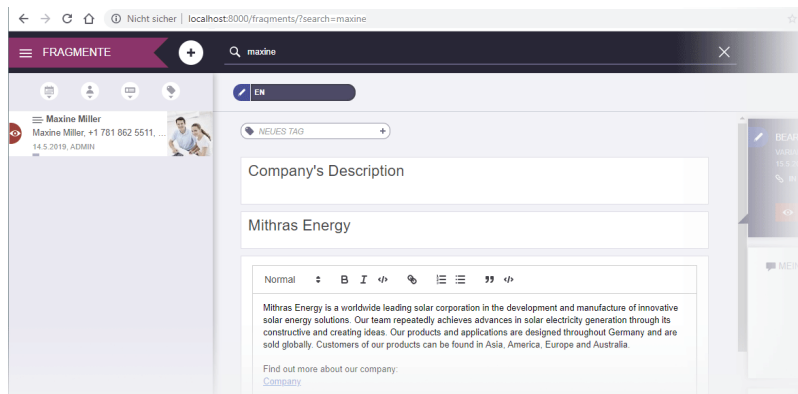
3. search, category

This means that if a variant and a search term are specified, the search parameter will be ignored. If no project ID is specified, the call refers to the last opened project.

Example:

```
localhost:8000/fragments?search=Test
```

Starts FragmentCreator with the search term *Test*.



6 SiteArchitect / ServerManager

6.1 "FirstSpirit Launcher JRE" module: update to Java versions

The FirstSpirit desktop apps (FirstSpirit SiteArchitect and ServerManager) are started and updated ("roll-out") via the FirstSpirit Launcher.

The "FirstSpirit Launcher JRE" module enables customers and partners to easily switch between different Java versions to operate the FirstSpirit desktop apps.

The Java versions included in the "FirstSpirit Launcher JRE" module were updated in the latest FirstSpirit release:

In addition to the version supplied with the FirstSpirit Launcher, **AdoptOpenJDK 11.0.4 (default)**, the following Java variants are currently available:



- AdoptOpenJDK 13 (new)
- AdoptOpenJDK 8u222 (outdated)

AdoptOpenJDK 12.0.2 was removed from the “FirstSpirit Launcher JRE” module.

For documentation on the “FirstSpirit Launcher JRE” module, see the [corresponding manual](#).

7 Deprecations

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

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

Functionality	Deprecated as of	Will be removed/ Was removed as of
Input component FS_LIST	5.2R3	January 2020
FirstSpirit Developer API: de.espirit.firstspirit.agency.GroupsAgent	5.2R15	
FirstSpirit Access API: delete (de.espirit.firstspirit.access.AccessUtil)	5.2R18	
Windows installation program	2018-06	June 2020
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.MaintenanceModelInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Access API: getSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: setSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: getSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Access API: setSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Developer API: getLostAndFoundStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Developer API: getDeletedStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Access API: de.espirit.firstspirit.access.store.Previewable	2019-01	
Java 8 support for FirstSpirit	2019-05	June 2020
WebSphere Application Server support for FirstSpirit	2019-05	
Solaris support for FirstSpirit	2019-06	October 2019
AIX support for FirstSpirit	2019-06	October 2019
Legacy mode for the FirstSpirit server and module development	2019-06	
Java Web Start support for FirstSpirit	2019-10	June 2020



8 Overview

ID	Description	Categories
CORE-9009	The display of the package properties in the “Element selection” dialog has been corrected (missing resource key).	Corporate Content, Developer, SiteArchitect
CORE-10754	In FirstSpirit 2019-10 the distribution of FS_INDEX content containing data from a DataAccessPlugin was optimized. Now, values are stored in an IndexAccessor object upon first access and won't be resolved through the DataAccessPlugin again on repeated access. Further information can be found in chapter “Input components: Output optimization of FS_INDEX-content containing data from a DataAccessPlugin”.	Data Access Plug-In, Developer, FirstSpirit API, Input Components, Template Development
CORE-11000	Once a user has logged in successfully, the “Legal notices” link at the bottom of the FirstSpirit start page can be used to call up information regarding third-party software being used and the modules installed on the server. Further information can be found in chapter “General: FirstSpirit start page: information on third-party software and modules”.	License
CORE-11035	Searching in the documentation for the FirstSpirit ContentCreator now also works in the English version of the documentation.	ContentCreator, Editor, Languages, Search
CORE-11180 CORE-11367	Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST (Substitute for FS_LIST, type PAGE) Further information can be found in chapter “Input components: Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST”.	ContentCreator, Developer, Editor, Input Components, Page Store, SiteArchitect, Template Development
CORE-11181	As of the current FirstSpirit release, FirstSpirit ContentCreator provides a new way of maintaining media galleries (via FS_INDEX instead of FS_LIST as before). Further information can be found in chapter “ContentCreator: Media Galleries in ContentCreator (Alternative to FS_LIST)”.	ContentCreator, Data Access Plug-In, Developer, Editor, Input Components, Media



ID	Description	Categories
CORE-11212	When using FirstSpirit ContentTransport, the representation of database schemata in the editor is now taken into account again when transporting.	Content Transport, Database, Developer
CORE-11245	Communication between FirstSpirit server and desktop apps (SiteArchitect, ServerManager) is now more robust with 500 error messages on HTTP connections: Even with error messages of this class, an attempt is now made to re-establish the HTTP connection.	FirstSpirit Administrator, SiteArchitect
CORE-11304	As of FirstSpirit 2019-10, OpenJDK 13 (non-LTS; Release Date 2019-09) is officially approved for use with FirstSpirit (the FirstSpirit Server and the FirstSpirit desktop applications). With the support for OpenJDK 13, the support for OpenJDK 12 (non-LTS; Release Date 2019-03) expires. As part of product maintenance, discontinuation of support for Java 8 was announced with FirstSpirit 2019-05: FirstSpirit is scheduled to no longer support Oracle Java 8 and OpenJDK 8 from June 2020. Further information can be found in chapter “General: Java: Current status and outlook”.	Developer, FirstSpirit Administrator, Java
CORE-11309	The Java versions included in the “FirstSpirit Launcher JRE” module were updated in the latest FirstSpirit release. Further information can be found in chapter “SiteArchitect / ServerManager: “FirstSpirit Launcher JRE” module: update to Java versions”.	Java, Launcher
CORE-11325	Using FirstSpirit Desktop Apps with macOS X 10.15 (Catalina) Further information can be found in chapter “General: Using FirstSpirit Desktop Apps with macOS X 10.15 (Catalina)”.	FirstSpirit Administrator, ServerManager, SiteArchitect
CORE-11332	The operating systems IBM AIX and Solaris for use with FirstSpirit servers are no longer supported. Further information can be found in chapter “Administration: IBM AIX and Solaris are no longer supported”.	Developer, FirstSpirit Administrator



ID	Description	Categories
CORE-11367	Support for the FS_LIST input component is scheduled to be dropped in January 2020. The ramp down phase is multi-leveled and starts with a deprecation warning in FirstSpirit 2019-11. Further information can be found in chapter “Input components: FS_LIST input component dropped 01/01/2020”.	ContentCreator, Developer, Input Components, SiteArchitect, Template Development
CXT-753	Restricting fragment editing in the MicroApp to specific variants Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Restricting fragment editing in the MicroApp to specific variants”.	Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-848 CXT-834	Parameters can be passed by URL to start the FragmentCreator. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Starting FragmentCreator with parameterized URL”.	Developer, FirstSpirit Administrator, FragmentCreator
CXT-867	The operation of customer-specific DataAccess plug-ins in FragmentCreator via the FS_INDEX input component has been improved.	FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-948 CXT-949	Improved performance of FirstSpirit Content Experience Tools.	FirstSpirit Content Experience Tools (CXT), Performance
CXT-950	The “FirstSpirit Markdown Editor” module (and thus the FS_MARKDOWN component) could temporarily not be used in ContentCreator. Error message: Failed to create gadget type 'FS_MARKDOWN', due to missing JavaScript controller 'MarkdownWebGadget'. Make sure to install all necessary module components into your project-local ContentCreator instance.	Content Transport, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), Input Components



ID	Description	Categories
CXT-1003	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 as a Service (CaaS), FragmentCreator, Modules

9 Categories

9.1 Content Transport

ID	Description
CORE-11212	When using FirstSpirit ContentTransport, the representation of database schemata in the editor is now taken into account again when transporting.
CXT-950	The “FirstSpirit Markdown Editor” module (and thus the FS_MARKDOWN component) could temporarily not be used in ContentCreator. Error message: Failed to create gadget type 'FS_MARKDOWN', due to missing JavaScript controller 'MarkdownWebGadget'. Make sure to install all necessary module components into your project-local ContentCreator instance.

9.2 ContentCreator

ID	Description
CORE-11035	Searching in the documentation for the FirstSpirit ContentCreator now also works in the English version of the documentation.
CORE-11180 CORE-11367	Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST (Substitute for FS_LIST, type PAGE) Further information can be found in chapter “Input components: Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST”.



ID	Description
CORE-11181	As of the current FirstSpirit release, FirstSpirit ContentCreator provides a new way of maintaining media galleries (via FS_INDEX instead of FS_LIST as before). Further information can be found in chapter “ContentCreator: Media Galleries in ContentCreator (Alternative to FS_LIST)”.
CORE-11367	Support for the FS_LIST input component is scheduled to be dropped in January 2020. The ramp down phase is multi-leveled and starts with a deprecation warning in FirstSpirit 2019-11. Further information can be found in chapter “Input components: FS_LIST input component dropped 01/01/2020 ”.

9.3 Corporate Content

ID	Description
CORE-9009	The display of the package properties in the “Element selection” dialog has been corrected (missing resource key).

9.4 Data Access Plug-In

ID	Description
CORE-10754	In FirstSpirit 2019-10 the distribution of FS_INDEX content containing data from a DataAccessPlugin was optimized. Now, values are stored in an IndexAccessor object upon first access and won't be resolved through the DataAccessPlugin again on repeated access. Further information can be found in chapter “Input components: Output optimization of FS_INDEX-content containing data from a DataAccessPlugin”.
CORE-11181	As of the current FirstSpirit release, FirstSpirit ContentCreator provides a new way of maintaining media galleries (via FS_INDEX instead of FS_LIST as before). Further information can be found in chapter “ContentCreator: Media Galleries in ContentCreator (Alternative to FS_LIST)”.



9.5 Database

ID	Description
CORE-11212	When using FirstSpirit ContentTransport, the representation of database schemata in the editor is now taken into account again when transporting.

9.6 Input Components

ID	Description
CORE-10754	In FirstSpirit 2019-10 the distribution of FS_INDEX content containing data from a DataAccessPlugin was optimized. Now, values are stored in an IndexAccessor object upon first access and won't be resolved through the DataAccessPlugin again on repeated access. Further information can be found in chapter "Input components: Output optimization of FS_INDEX-content containing data from a DataAccessPlugin".
CORE-11180 CORE-11367	Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST (Substitute for FS_LIST, type PAGE) Further information can be found in chapter "Input components: Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST".
CORE-11181	As of the current FirstSpirit release, FirstSpirit ContentCreator provides a new way of maintaining media galleries (via FS_INDEX instead of FS_LIST as before). Further information can be found in chapter "ContentCreator: Media Galleries in ContentCreator (Alternative to FS_LIST)".
CORE-11367	Support for the FS_LIST input component is scheduled to be dropped in January 2020. The ramp down phase is multi-leveled and starts with a deprecation warning in FirstSpirit 2019-11. Further information can be found in chapter "Input components: FS_LIST input component dropped 01/01/2020".
CXT-950	The "FirstSpirit Markdown Editor" module (and thus the FS_MARKDOWN component) could temporarily not be used in ContentCreator. Error message:



ID	Description
	Failed to create gadget type 'FS_MARKDOWN', due to missing JavaScript controller 'MarkdownWebGadget'. Make sure to install all necessary module components into your project-local ContentCreator instance.

9.7 Developer

ID	Description
CORE-9009	The display of the package properties in the “Element selection” dialog has been corrected (missing resource key).
CORE-10754	In FirstSpirit 2019-10 the distribution of FS_INDEX content containing data from a DataAccessPlugin was optimized. Now, values are stored in an IndexAccessor object upon first access and won't be resolved through the DataAccessPlugin again on repeated access. Further information can be found in chapter “Input components: Output optimization of FS_INDEX-content containing data from a DataAccessPlugin”.
CORE-11180 CORE-11367	Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST (Substitute for FS_LIST, type PAGE) Further information can be found in chapter “Input components: Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST”.
CORE-11181	As of the current FirstSpirit release, FirstSpirit ContentCreator provides a new way of maintaining media galleries (via FS_INDEX instead of FS_LIST as before). Further information can be found in chapter “ContentCreator: Media Galleries in ContentCreator (Alternative to FS_LIST)”.
CORE-11212	When using FirstSpirit ContentTransport, the representation of database schemata in the editor is now taken into account again when transporting.
CORE-11304	As of FirstSpirit 2019-10, OpenJDK 13 (non-LTS; Release Date 2019-09) is officially approved for use with FirstSpirit (the FirstSpirit Server and the FirstSpirit desktop applications). With the support for OpenJDK 13, the support for OpenJDK 12 (non-LTS; Release Date 2019-03) expires. As part of product maintenance, discontinuation of support for Java 8 was announced with FirstSpirit 2019-05: FirstSpirit is scheduled to no longer support Oracle Java 8 and OpenJDK 8 from June 2020.



ID	Description
	Further information can be found in chapter “General: Java: Current status and outlook”.
CORE-11332	The operating systems IBM AIX and Solaris for use with FirstSpirit servers are no longer supported. Further information can be found in chapter “Administration: IBM AIX and Solaris are no longer supported”.
CORE-11367	Support for the FS_LIST input component is scheduled to be dropped in January 2020. The ramp down phase is multi-leveled and starts with a deprecation warning in FirstSpirit 2019-11. Further information can be found in chapter “Input components: FS_LIST input component dropped 01/01/2020 ”.
CXT-848	Parameters can be passed by URL to start the FragmentCreator.
CXT-834	Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Starting FragmentCreator with parameterized URL”.
CXT-1003	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

9.8 FirstSpirit Content as a Service (CaaS)

ID	Description
CXT-1003	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

9.9 FirstSpirit Content Experience Tools (CXT)

ID	Description
CXT-753	Restricting fragment editing in the MicroApp to specific variants



ID	Description
	Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Restricting fragment editing in the MicroApp to specific variants”.
CXT-867	The operation of customer-specific DataAccess plug-ins in FragmentCreator via the FS_INDEX input component has been improved.
CXT-948	Improved performance of FirstSpirit Content Experience Tools.
CXT-949	
CXT-950	The “FirstSpirit Markdown Editor” module (and thus the FS_MARKDOWN component) could temporarily not be used in ContentCreator. Error message: Failed to create gadget type 'FS_MARKDOWN', due to missing JavaScript controller 'MarkdownWebGadget'. Make sure to install all necessary module components into your project-local ContentCreator instance.

9.10 FirstSpirit Administrator

ID	Description
CORE-11245	Communication between FirstSpirit server and desktop apps (SiteArchitect, ServerManager) is now more robust with 500 error messages on HTTP connections: Even with error messages of this class, an attempt is now made to re-establish the HTTP connection.
CORE-11304	As of FirstSpirit 2019-10, OpenJDK 13 (non-LTS; Release Date 2019-09) is officially approved for use with FirstSpirit (the FirstSpirit Server and the FirstSpirit desktop applications). With the support for OpenJDK 13, the support for OpenJDK 12 (non-LTS; Release Date 2019-03) expires. As part of product maintenance, discontinuation of support for Java 8 was announced with FirstSpirit 2019-05: FirstSpirit is scheduled to no longer support Oracle Java 8 and OpenJDK 8 from June 2020. Further information can be found in chapter “General: Java: Current status and outlook”.
CORE-11325	Using FirstSpirit Desktop Apps with macOS X 10.15 (Catalina) Further information can be found in chapter “General: Using FirstSpirit Desktop Apps with macOS X 10.15 (Catalina)”.



ID	Description
CORE-11332	The operating systems IBM AIX and Solaris for use with FirstSpirit servers are no longer supported. Further information can be found in chapter “Administration: IBM AIX and Solaris are no longer supported”.
CXT-848 CXT-834	Parameters can be passed by URL to start the FragmentCreator. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Starting FragmentCreator with parameterized URL”.
CXT-950	The “FirstSpirit Markdown Editor” module (and thus the FS_MARKDOWN component) could temporarily not be used in ContentCreator. Error message: <pre>Failed to create gadget type 'FS_MARKDOWN', due to missing JavaScript controller 'MarkdownWebGadget'. Make sure to install all necessary module components into your project-local ContentCreator instance.</pre>
CXT-1003	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

9.11 FirstSpirit API

ID	Description
CORE-10754	In FirstSpirit 2019-10 the distribution of FS_INDEX content containing data from a DataAccessPlugin was optimized. Now, values are stored in an IndexAccessor object upon first access and won't be resolved through the DataAccessPlugin again on repeated access. Further information can be found in chapter “Input components: Output optimization of FS_INDEX-content containing data from a DataAccessPlugin”.



9.12 FragmentCreator

ID	Description
CXT-753	Restricting fragment editing in the MicroApp to specific variants Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Restricting fragment editing in the MicroApp to specific variants”.
CXT-848 CXT-834	Parameters can be passed by URL to start the FragmentCreator. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Starting FragmentCreator with parameterized URL”.
CXT-867	The operation of customer-specific DataAccess plug-ins in FragmentCreator via the FS_INDEX input component has been improved.
CXT-1003	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

9.13 Page Store

ID	Description
CORE-11180 CORE-11367	Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST (Substitute for FS_LIST, type PAGE) Further information can be found in chapter “Input components: Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST”.

9.14 Java

ID	Description
CORE-11304	As of FirstSpirit 2019-10, OpenJDK 13 (non-LTS; Release Date 2019-09) is officially approved for use with FirstSpirit (the FirstSpirit Server and the FirstSpirit desktop applications). With the support for OpenJDK 13, the support for OpenJDK 12 (non-LTS; Release Date 2019-03)



ID	Description
	expires. As part of product maintenance, discontinuation of support for Java 8 was announced with FirstSpirit 2019-05: FirstSpirit is scheduled to no longer support Oracle Java 8 and OpenJDK 8 from June 2020. Further information can be found in chapter “General: Java: Current status and outlook”.
CORE-11309	The Java versions included in the “FirstSpirit Launcher JRE” module were updated in the latest FirstSpirit release. Further information can be found in chapter “SiteArchitect / ServerManager: “FirstSpirit Launcher JRE” module: update to Java versions”.

9.15 Launcher

ID	Description
CORE-11309	The Java versions included in the “FirstSpirit Launcher JRE” module were updated in the latest FirstSpirit release. Further information can be found in chapter “SiteArchitect / ServerManager: “FirstSpirit Launcher JRE” module: update to Java versions”.

9.16 License

ID	Description
CORE-11000	Once a user has logged in successfully, the “Legal notices” link at the bottom of the FirstSpirit start page can be used to call up information regarding third-party software being used and the modules installed on the server. Further information can be found in chapter “General: FirstSpirit start page: information on third-party software and modules”.



9.17 Media

ID	Description
CORE-11181	As of the current FirstSpirit release, FirstSpirit ContentCreator provides a new way of maintaining media galleries (via FS_INDEX instead of FS_LIST as before). Further information can be found in chapter “ContentCreator: Media Galleries in ContentCreator (Alternative to FS_LIST)”.

9.18 Modules

ID	Description
CXT-1003	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

9.19 Performance

ID	Description
CXT-948 CXT-949	Improved performance of FirstSpirit Content Experience Tools.

9.20 Editor

ID	Description
CORE-11035	Searching in the documentation for the FirstSpirit ContentCreator now also works in the English version of the documentation.
CORE-11180 CORE-11367	Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST (Substitute for FS_LIST, type PAGE)



ID	Description
	Further information can be found in chapter “Input components: Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST”.
CORE-11181	As of the current FirstSpirit release, FirstSpirit ContentCreator provides a new way of maintaining media galleries (via FS_INDEX instead of FS_LIST as before). Further information can be found in chapter “ContentCreator: Media Galleries in ContentCreator (Alternative to FS_LIST)”.
CXT-753	Restricting fragment editing in the MicroApp to specific variants Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Restricting fragment editing in the MicroApp to specific variants”.

9.21 ServerManager

ID	Description
CORE-11325	Using FirstSpirit Desktop Apps with macOS X 10.15 (Catalina) Further information can be found in chapter “General: Using FirstSpirit Desktop Apps with macOS X 10.15 (Catalina)”.

9.22 SiteArchitect

ID	Description
CORE-9009	The display of the package properties in the “Element selection” dialog has been corrected (missing resource key).
CORE-11180 CORE-11367	Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST (Substitute for FS_LIST, type PAGE) Further information can be found in chapter “Input components: Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST”.



ID	Description
CORE-11245	Communication between FirstSpirit server and desktop apps (SiteArchitect, ServerManager) is now more robust with 500 error messages on HTTP connections: Even with error messages of this class, an attempt is now made to re-establish the HTTP connection.
CORE-11325	Using FirstSpirit Desktop Apps with macOS X 10.15 (Catalina) Further information can be found in chapter "General: Using FirstSpirit Desktop Apps with macOS X 10.15 (Catalina)".
CORE-11367	Support for the FS_LIST input component is scheduled to be dropped in January 2020. The ramp down phase is multi-leveled and starts with a deprecation warning in FirstSpirit 2019-11. Further information can be found in chapter "Input components: FS_LIST input component dropped 01/01/2020".

9.23 Languages

ID	Description
CORE-11035	Searching in the documentation for the FirstSpirit ContentCreator now also works in the English version of the documentation.

9.24 Search

ID	Description
CORE-11035	Searching in the documentation for the FirstSpirit ContentCreator now also works in the English version of the documentation.

9.25 Template Development

ID	Description
CORE-10754	In FirstSpirit 2019-10 the distribution of FS_INDEX content containing data from a DataAccessPlugin was optimized. Now, values are stored in an IndexAccessor object upon first access and won't be resolved through the DataAccessPlugin again on repeated access.



ID	Description
	Further information can be found in chapter "Input components: Output optimization of FS_INDEX-content containing data from a DataAccessPlugin".
CORE-11180 CORE-11367	Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST (Substitute for FS_LIST, type PAGE) Further information can be found in chapter "Input components: Input component for outputting a list of sections of a page: CMS_INPUT_SECTIONLIST".
CORE-11367	Support for the FS_LIST input component is scheduled to be dropped in January 2020. The ramp down phase is multi-leveled and starts with a deprecation warning in FirstSpirit 2019-11. Further information can be found in chapter "Input components: FS_LIST input component dropped 01/01/2020".

