



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2020-06

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1 Administration

1.1 The support for the Windows installation program and the tar archive (Unix) is discontinued

With the end of Java 8 support, the support for the Windows installation program (.exe) (as announced with 2018-06) and at the same time the support for the previous tar archive (.tgz) for all Unix systems will also be discontinued.

The previous installation options will be replaced by new installation options for the FirstSpirit server and update options for the FirstSpirit backend, which were released with FirstSpirit 2019-06:

- `fs-install-[version].tar.gz` to install the FirstSpirit server and
- `fs-update-[version].tar.gz` to update the FirstSpirit backend.

The new archives can be used flexibly for different requirements. They are compatible with all supported operating systems and can be used for servers in isolated and legacy mode.

Another benefit of the new installation and update options is the automatic update of the (Java) version-specific start parameters for the server start. For all new installations based on the installation archive `fs-install-[version].tar.gz`, a configuration file `fs-wrapper-vendor.conf` is created, which contains the recommended manufacturer start options for starting the FirstSpirit server. This file is automatically updated when the FirstSpirit backend is updated via the FirstSpirit update archive `fs-update-[version].tar.gz` - so it always contains the current start options for the respective Java version.

Further documentation:

- [Installing FirstSpirit](#)
- [Updating FirstSpirit](#)
- [Java VM and Wrapper \(fs-wrapper*.conf\)](#)
- [FirstSpirit ServerMonitoring / FirstSpirit / Configuration / Startup options](#)



1.2 End of support: Java Web Start

Up to now, the FirstSpirit desktop apps (FirstSpirit SiteArchitect and ServerManager) could be started and updated (roll-out) via Java Web Start or via the FirstSpirit Launcher.

The Java Web Start functionality is included in Oracle Java 8, but is not supported from Oracle Java 11 on. OpenJDK does not offer a comparable technology. Therefore, since FirstSpirit does no longer support Oracle Java 8, **the option of starting and rolling out the FirstSpirit desktop applications via Java Web Start will no longer be supported** (as announced with 2019-10). The FirstSpirit JNLP files, which were required for Java Web Start, will also be dropped.

In most cases it is possible to switch to the new **FirstSpirit Launcher** without having to modify the configuration. The FirstSpirit Launcher supports a fully automatic update (of both the Launcher itself and the JRE). When using the launcher, the launcher version available on the FirstSpirit server is determined and an update is started if the version on the server is higher. What's more, the new Launcher offers a tray application that gives the user a convenient overview of the FirstSpirit Java applications that are currently active and that have been used recently.

Further documentation:

- [Installation FirstSpirit Launcher](#)

2 General

2.1 End of Java 8 support

With the current FirstSpirit release, Oracle Java 8 and OpenJDK 8 are no longer supported by FirstSpirit.

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, and databases) and external libraries. Some of these components / libraries are no longer compatible with Java 8 in their current version. This applies, for example, to the internal Apache Derby database supplied with FirstSpirit. As a consequence, updates can no longer be carried out for those third-party components / libraries, which is particularly critical for security-relevant updates.



Oracle has not provided any public updates for Java 8 since February 2019 and recommends that developers and end users transition to a higher Java version in order to continue receiving public updates and security enhancements.

Also, with the end of Java 8 support, as announced before:

- The support for the **Windows installer** and the legacy **tar archive (.tgz) for all Unix systems** is dropped. We advise our customers to use the new installation method via the install archive (see [Installing FirstSpirit](#)).
- The option of starting the FirstSpirit desktop applications via **Java Web Start is no longer available**. (The Java Web Start functionality is included in Oracle Java 8, but is not supported from Oracle Java 11 on. OpenJDK does not offer a comparable technology.) Therefore, SiteArchitect and ServerManager can now be started solely via the FirstSpirit Launcher (see [FirstSpirit Launcher documentation](#)). The FirstSpirit JNLP files, which were required for Java Web Start, will also be dropped.

The ramp-down phase for Java 8:

- started as planned in the second quarter of 2020. First, the Java 8 compatibility tests were gradually reduced.
- **With the current FirstSpirit version**, Java 8 functionality has been removed from FirstSpirit:
 - Wrapper configuration: All definitions for Java 8 have been removed from the standard configuration files for the Java Service Wrapper (`fs-wrapper[.isolated].conf`, `fs-wrapper-vendor.conf`) provided by e-spirit. The standard configuration files are provided via the FirstSpirit installation archive or the FirstSpirit update archive and can be found in the folder `<FirstSpiritROOT>/conf/conf-all/` after a new installation or after updating the FirstSpirit backend. The adjustments are included from wrapper version 1.0.8 onwards.
A Java version 11 or higher is now required to start the FirstSpirit server.
 - Launcher JRE module: Oracle Java 8 and AdoptOpenJDK 8 are no longer included in the FirstSpirit Launcher JRE module. The FirstSpirit Launcher JRE module currently offers the versions AdoptOpenJDK 11.0.7+10 (default) and AdoptOpenJDK 14+36.



- In 2020Q4 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 change 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 considerably, which may result in existing libraries and implementations being incompatible with Java 11 (and higher). In such cases, updating the respective libraries, if possible, may help. When changing from Java 8 to Java 11 (and higher) we recommend changing the FirstSpirit server to Isolated Mode at the same time, in order to avoid having to test modules and implementations twice. For this topic, see [Switching to Isolated Mode](#).

3 ContentCreator

3.1 Navigation view and evaluation of permissions: Hiding invisible elements

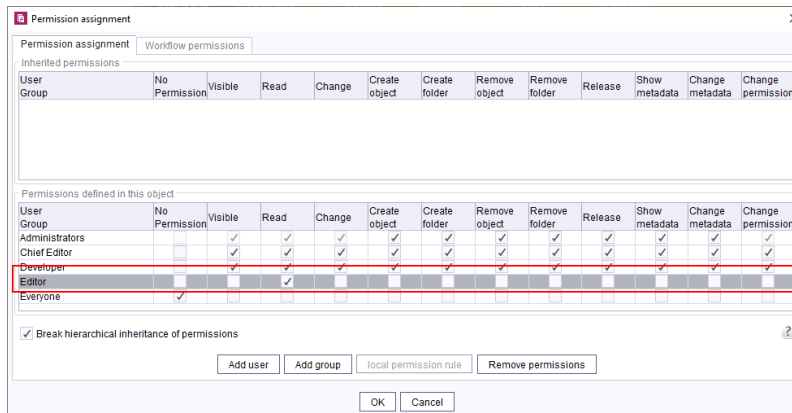
Permission management in FirstSpirit makes it possible to assign permissions to users and groups. Permissions can be assigned with a high level of granularity for each FirstSpirit element in a project. Permissions are assigned in FirstSpirit SiteArchitect using the “Extras / Change permissions” context menu function on the required element or subtree of a project.

Elements of the Site Store (menu levels, page references, etc.)

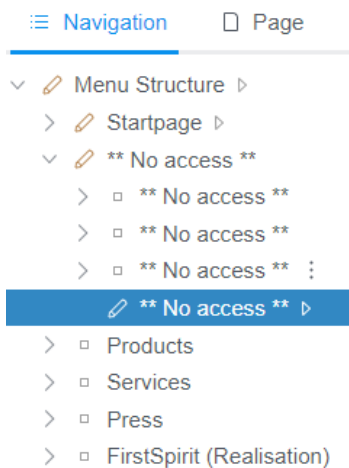


that are not visible to the current user (“Visible” checkbox is deactivated), such as





are now no longer shown on the left-hand edge of the screen in the navigation view. Previously, **** No access **** was shown in these cases:



If a user or a group should not be able to **edit** the content of a page, the permissions for the page in question need to be assigned in the **Page Store**.

For more information about permission assignment in FirstSpirit, see <https://docs.e-spirit.com/odfs/edocs/fsar/permissions-sit/editorial-permi/index.html>.



4 FirstSpirit Content Experience Tools (CXT)

4.1 Latest module versions

FirstSpirit 2020-06 supports the following module versions for “FirstSpirit Content Experience Tools”:

Module / file name	Version number
FirstSpirit CXT DAP Bridge dataservice-[version].fsm	1.29
FirstSpirit CXT FragmentCreator fragment-creator-[version].fsm	2.6
FirstSpirit Fragment DAP fragmentdap-[version].fsm	1.26
FirstSpirit Media DAP mediadap-[version].fsm	1.23*
FirstSpirit PageRef DAP pagerefdap-[version].fsm	1.0
FirstSpirit Markdown Editor markdown-editor-[version].fsm	1.21*
FirstSpirit Tagging Editor tagging-editor-[version].fsm	1.21
FirstSpirit CXT FragmentCreator - CaaS Integration caas-integration-[version].fsm	1.21

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

4.2 Labeling input elements in FragmentCreator ("display language")

FirstSpirit provides consistent support for the multi-language concept:

- Via the start page, it is possible to select the language for the labeling on the menu bar, dialogs, etc. (**interface language**).
 The interface languages that are currently available are English, German, Spanish, French, Italian, Dutch, and Russian.

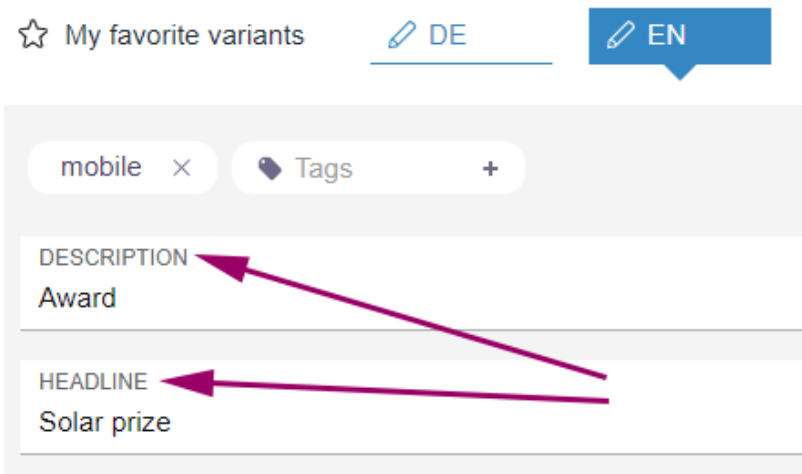


- However, the project developer uses the **editorial language** (also called the **display language**) to control the language for displaying input elements, tooltips, etc.

The lang attribute (in the LANGINFOS / LANGINFO tag) is now taken into account for the editorial language, e.g.:

```
<CMS_INPUT_TEXT name="headline" useLanguages="no">  
  <LANGINFOS>  
    <LANGINFO lang="" label="Headline"/>  
    <LANGINFO lang="DE" label="Überschrift"/>  
  </LANGINFOS>  
</CMS_INPUT_TEXT>
```

If the interface language selected is “German”, the input element labeling (label attribute) also takes “German” into account (“DE” in the example above):



In the case of interface languages that are not included in the editorial languages available, the **master language** is used as a fallback option.

4.3 Optimizations for multi-user mode

The editing area or MicroApps did not always show the current state of a variant after another user had made changes to the content, for example.

It is now only necessary to perform a manual update if another user is editing the content simultaneously.



In this case, all the input elements of the variant (“form”) are locked for editing and the following message is output:

```
The changes can not be saved - the element was modified on server.
```

Clicking on

```
CONFLICTING CHANGES! Click here to reload.
```

updates the display; the variant can now be edited again.

Note: When FS_INDEX is in use, referenced fragments are **not** automatically updated.

4.4 PageRef Access Plugin (PageRefDAP): Referencing pages

As of the current release, references to pages can now be created using the new *PageRef Access Plugin* module (PageRef DAP).

The references to pages selected by the user can be output as HTML links.

Provision and Installation

The corresponding module file (file name extension: *.fsm*) can be requested from Technical Support:

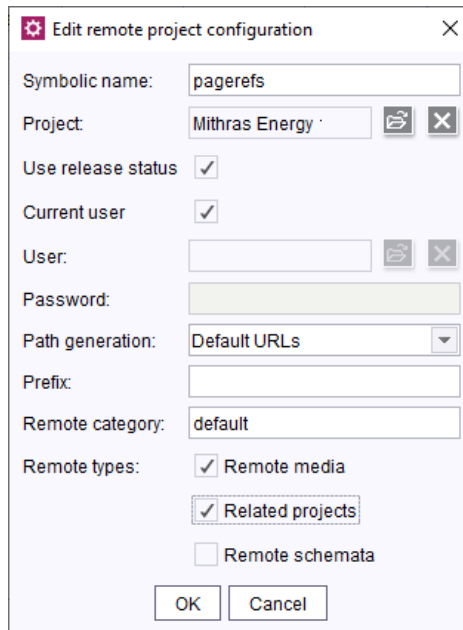
```
pagerefdap-[version].fsm
```

The module is installed using the FirstSpirit ServerManager, in the “Server properties / Modules” dialog using the “Install” button.

Remote configuration



To enable references to pages from other FirstSpirit projects, the desired project must be configured as a “Remote project” in the project properties (FirstSpirit ServerManager):







Edit remote project configuration

Symbolic name:


Project:  

Use release status

Current user

User:  

Password:

Path generation: 

Prefix:

Remote category:

Remote types: Remote media
 Related projects
 Remote schemata

Web component “PageRef DAP for ContentCreator”

The plugin can be used in ContentCreator using the Web component “PageRef DAP for ContentCreator”. To do this, the web component must be added to the relevant project in the “ContentCreator” area (“FirstSpirit ServerManager / Project properties / Web components”).

Use in projects

If the module has been installed, it can be addressed from the component for selecting references, “FS_INDEX”.

The editor can select one or more page references from the configured remote project(s).

Syntax example for FS_INDEX, tab “Form”:

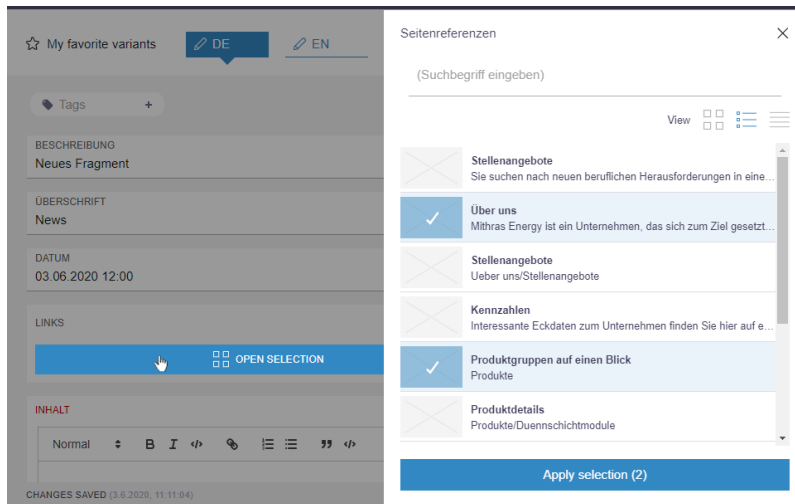


```
<FS_INDEX name="links">
  <LANGINFOS>
    <LANGINFO lang="*" label="Page referencing / links"/>
    <LANGINFO lang="DE" label="Seitenreferenzen / Links"/>
  </LANGINFOS>
  <SOURCE name="FirstSpiritPageRefAccess/PageRefConnector">
    <PROJECT remote="pagerefs">
      <FOLDER uid="products"/>
    </PROJECT>
  </SOURCE>
</FS_INDEX>
```

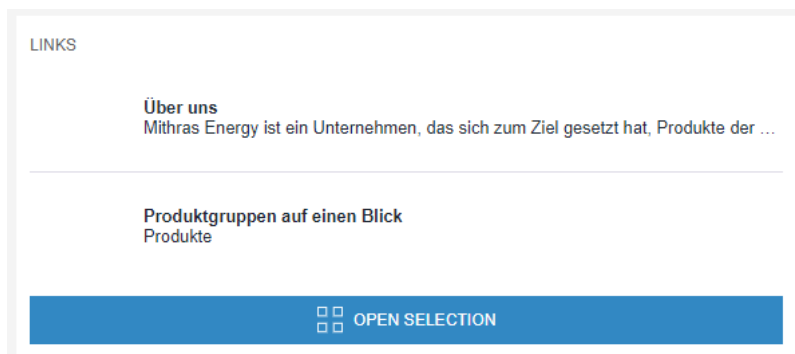
- **SOURCE:** This tag is used to specify the FirstSpirit module and the DataAccessPlugin component via the mandatory parameter `name`. In this case: "FirstSpiritPageRefAccess/PageRefConnector".
- **PROJECT:** This tag is used to specify the remote project from which references are to be made available. The symbolic project name of the remote project must be specified via the mandatory parameter `remote`.
- **FOLDER:** The selection can be restricted to folders of the referenced project by using the `FOLDER` tag. If several folders are to be taken into account, a `FOLDER` tag must be specified for each folder. The name of the folder in question is entered using the `uid` parameter (reference name).

If the configuration was made correctly, the editor will be able to select page references:



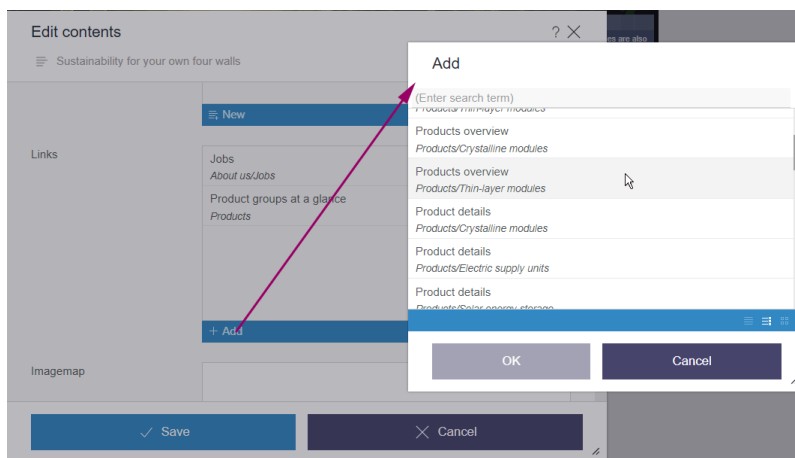


Selection



FS_INDEX with selected page references

Representation in ContentCreator:



Output in FirstSpirit projects

The page references selected by the editor can be output in a FirstSpirit project as follows:

```
$CMS_FOR(pageref, links.values())$<br />
  <a href="$CMS_REF(pageref)$" $">
    $CMS_VALUE(pageref.uid)$ <br />
  </a>
$CMS_END_FOR$
```

5 Compatibility

5.1 New layer for Oracle Database 19c

The available database layer for Oracle Database 11g/12c is, due to changes in database and driver, not compatible with Oracle Database 19c.

In order to establish FirstSpirit compatibility with Oracle Database 19c a new database layer (Oracle19cLayer) thus had to be implemented.

Generally, you can either simply use a new database layer, or you can update the existing database layer.

Use the new database layer:

In order to use the new database layer (Oracle19cLayer), you simply have to add it in the server properties (ServerManager) in the database section, and configure it according to your local requirements (see [Server properties / Databases](#))

Update existing database layer:

In order to update an Oracle Database 12c used with FirstSpirit to Oracle Database 19c, you can,

- export a FirstSpirit project, and import it as a new project with Oracle Database 19c or
- change database layers by pausing the server, updating the database and manually switching database layers.

Migrating from Oracle Database 11g/12c to 19c without changing the database the new features of Oracle Database 19c can not be used, and we thus do not advise doing so!



Warning! When updating an Oracle Database 12c to 19c you should follow the vendor guidelines.

! **Note:** Oracle 19c support has already undergone extensive testing, but currently still is in “EAP” status (“Early Access Program”). Not all use cases and migration scenarios could be tested. Thus it is important that you extensively check your use cases in a test environment!

The EAP phase will be accompanied through the FirstSpirit Community (community.e-spirit.com). This way questions and problems can be dealt with in a timely manner.

Extensive documentation regarding the use of Oracle Database 19c with FirstSpirit will also be published in the Community soon (initially in German only). The recommendations contained in this documentation for the configuration of the Oracle database and the FirstSpirit server should always be adhered to.

Final release of the new layer is planned for Q3/2020.

6 SiteArchitect / ContentCreator

6.1 The Mithras Energy demo project is no longer available

With the current FirstSpirit release the Mithras Energy demo project for ContentCreator and SiteArchitect is no longer available and will no longer be distributed with FirstSpirit (as announced with FirstSpirit 2020-02).

e-Spirit replaces the demo project with the contemporary **FirstSpirit Experience Accelerator** (see [FirstSpirit Experience Accelerator documentation](#)).

The FirstSpirit Experience Accelerator is a new, important building block in the FirstSpirit ecosystem. It contains reference implementations for important content modules (including Shoppable Image and Video, Touchpoint Editing, Teaser Carousel, and Banner) and can be used as a quick entry into a new FirstSpirit project. The objective of the FirstSpirit Experience Accelerator is a faster product launch in the enterprise and eCommerce environment.

7 SiteArchitect / ServerManager

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

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 11.0.7+10.2 (default)**, the following Java variant is currently available:

- AdoptOpenJDK 14.0.1+7.1

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

8 System

8.1 Update of internally used software

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

Eclipse Jetty (contained in the module `fs-jetty.fsm` / “FirstSpirit Jetty Service”)
Update from version 9.4.27 to version 9.4.28



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

Library com.fasterxml.jackson.core:jackson-databind

(contained in the DataAccessPlugin implementation example module for accessing web services using the standardized Open Data Protocol (OData))

Update from version 2.4.2 to version 2.11.0

For general information on the module see: <https://docs.e-spirit.com/> (Examples)

9 Deprecations

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

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



Functionality	Deprecated as of	Will be removed/ Was removed as of
Input component FS_LIST	5.2R3	January 2020
Input component CMS_INPUT_CONTENTAREALIST	5.2R3	
Input component CMS_INPUT_CONTENTLIST	5.2R3	
Input component CMS_INPUT_FILE	5.2R3	
Input component CMS_INPUT_LINKLIST	5.2R3	
Input component CMS_INPUT_OBJECTCHOOSE	5.2R3	
Input component CMS_INPUT_PAGEREF	5.2R3	
Input component CMS_INPUT_PICTURE	5.2R3	
Input component CMS_INPUT_TABLIST	5.2R3	
FirstSpirit Developer API: de.espirit.firstspirit.agency.GroupsAgent	5.2R15	
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	
FirstSpirit Developer API: remainingDurationOfCurrentStageInMillis (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Access API: getSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	



Functionality	Deprecated as of	Will be removed/ Was removed as of
FirstSpirit Access API: setSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: getSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Access API: setSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Developer API: getLostAndFoundStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Developer API: getDeletedStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Access API: de.espirit.firstspirit.access.store.Previewable	2019-01	
Java 8 support for FirstSpirit	2019-05	June 2020
WebSphere Application Server support for FirstSpirit	2019-05	
Legacy mode for the FirstSpirit server and module development	2019-06	
Java Web Start support for FirstSpirit	2019-10	June 2020
FirstSpirit ContentCreator (old design / old technology)	2019-11	July 2020
Mithras Energy demo project	2020-02	June 2020
Support for Microsoft Internet Explorer for FirstSpirit Web Apps	2020-05	July 2020



10 Overview

ID	Description	Categories
CORE-11351	Changing from <code>IllegalArgumentException</code> to <code>InvalidSessionException</code> , when trying to get a <code>UserService</code> with expired session.	Debugging, Developer, Module development, Services
CORE-12223	<p>The Java versions included in the “FirstSpirit Launcher JRE” module were updated in the latest FirstSpirit release.</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: “FirstSpirit Launcher JRE” module: update to Java versions”.</p>	Java, Launcher
CORE-12250 CORE-11119	<p>Update of internally used software.</p> <p>Further information can be found in chapter “System: Update of internally used software”.</p>	Developer, FirstSpirit Administrator, FirstSpirit Jetty Web Server, Integrated software
CORE-12261	Fixed a bug that could cause a freeze of the application in very rare cases (deadlock in <code>DefaultStoreElement#_permissionCache</code>).	Developer, FirstSpirit API
CORE-12289	The configuration of permitted applications (“FirstSpirit ServerManager - Project properties - Applications”) is now taken into account for export and import when using the “External Synchronization” functionality.	Developer, External synchronization
CORE-12322	In FirstSpirit ServerMonitoring, external groups of users are displayed in the “User” area only for server administrators, no longer for project administrators.	FirstSpirit Administrator, Permissions, Server Administrator, ServerMonitoring



ID	Description	Categories
CORE-12336	<p>As previously announced, with the end of Java 8 support, the support for the Windows installation program (.exe) and, at the same time, the support for the previous tar archive (.tgz) for all Unix systems will also be discontinued. The previous installation options will be replaced by new installation options for the FirstSpirit server and update options for the FirstSpirit backend.</p> <p>Further information can be found in chapter “Administration: The support for the Windows installation program and the tar archive (Unix) is discontinued”.</p>	FirstSpirit Administrator, Java, Server Administrator
CORE-12337	<p>End of Java 8 support: As part of product maintenance, support for Java 8 with FirstSpirit version 2020-06 will be discontinued.</p> <p>Further information can be found in chapter “General: End of Java 8 support”.</p>	Developer, FirstSpirit Administrator, Java, Server Administrator
CORE-12338	<p>Up to now, the FirstSpirit desktop apps (FirstSpirit SiteArchitect and ServerManager) could be started and updated (roll-out) via Java Web Start or via the FirstSpirit Launcher. With the current FirstSpirit version, FirstSpirit no longer supports the option of starting and rolling out the FirstSpirit desktop applications via Java Web Start (as announced with 2019-10).</p> <p>Further information can be found in chapter “Administration: End of support: Java Web Start”.</p>	FirstSpirit Administrator, Server Administrator, ServerManager, SiteArchitect
CORE-12339	<p>With the current FirstSpirit release the Mithras Energy demo project for ContentCreator and SiteArchitect is no longer available and will no longer be distributed with FirstSpirit. e-Spirit replaces the demo project with the contemporary FirstSpirit Experience Accelerator.</p> <p>Further information can be found in chapter “SiteArchitect / ContentCreator: The Mithras Energy demo project is no longer available”.</p>	ContentCreator, Developer, Editor, FirstSpirit Administrator, SiteArchitect
CORE-12343	<p>New layer for Oracle Database 19c</p> <p>Further information can be found in chapter “Compatibility: New layer for Oracle Database 19c”.</p>	Database



ID	Description	Categories
CORE-12362	An error was fixed that could cause that saving an FS_INDEX input component that references datasets was not possible.	Content Store, Developer, Editor, Input Components
CXT-177	<p>As of the current release, references to pages can now be created using the new <i>PageRef Access Plugin</i> module.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): PageRef Access Plugin (PageRefDAP): Referencing pages”.</p>	Developer, Editor, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Modules, Remote access, ServerManager, Template Development
CXT-578	<p>The ability for several editors to edit variants has been optimized.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Optimizations for multi-user mode”.</p>	Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Sessions
CXT-711	<p>The language defined using the <code>lang</code> attribute is now taken into account when input element labeling is displayed.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Labeling input elements in FragmentCreator (“display language”)”.</p>	Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Languages
CXT-1483	<p>When the “BasicWorkflows” (<code>basicworkflows.fsm</code> module) were in use, in ContentCreator it was not always possible to open all the navigation view elements in the preview (error message in the browser console: <code>CxtElement request cc-tree/getChildren failed: null, serverseitig: java.lang.UnsupportedOperationException: de.espirit.firstspirit.store.access.pagestore.Body unique identifier not supported!</code>).</p>	ContentCreator, Developer, Editor, Workflow
CXT-1561	<p>The navigation view no longer shows elements for which the user does not have “Visible” permissions.</p> <p>Further information can be found in chapter “ContentCreator: Navigation view and evaluation of permissions: Hiding invisible elements”.</p>	ContentCreator, Developer, Editor, Permissions



ID	Description	Categories
CXT-1596	<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>	<p>Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Modules, ServerManager</p>
CXT-1603	<p>The language in which the preview page is displayed could not be changed in the preview itself after opening the navigation view (e.g. via a language switch on the preview page).</p>	<p>ContentCreator, Editor, Languages</p>



ID	Description	Categories
DEVEX-140	<p>The current FSDevTools release (release 2.5.10) supports the execution of project and server schedules by means of the “schedule start” command. The parameters required for execution are transferred via the command line using the following schema:</p> <pre data-bbox="358 514 1144 583">fs-cli [-p -project <ProjectName>] schedule start [-n -name <scheduleName>]</pre> <p>Additionally, the “schedule list” command can be used to list all the server schedules or project schedules for a certain project:</p> <pre data-bbox="358 745 1123 774">fs-cli [-p -project <ProjectName>] schedule list</pre> <p>Parameters:</p> <p>-project: (optional) project name (short form -p)</p> <ul data-bbox="391 976 1105 1163" style="list-style-type: none"> ▪ If the parameter is not specified, a server schedule is started. ▪ If the parameter is transferred with a valid project name, a project schedule for this project is started. <p>-name: (mandatory parameter) schedule name (short form: -n)</p> <ul data-bbox="391 1287 1105 1356" style="list-style-type: none"> ▪ If the parameter is transferred with a valid schedule name (ScheduleEntry#getName), the schedule is executed. <p>Example: bin\fs-cli -h example.com -port 4242 -p "SmartLiving" schedule start -n test executes the “test” schedule for the “SmartLiving” project.</p> <p>Information about the schedule and the execution duration is provided in the log.</p> <p>Note: The command line tool should not be exited before the schedule is finished.</p> <p>Information about the individual commands is available via the fs-cli help <command> call.</p>	Developer, FSDevTools

11 Categories

11.1 Workflow

ID	Description
CXT-1483	<p>When the “BasicWorkflows” (<code>basicworkflows.fsm</code> module) were in use, in ContentCreator it was not always possible to open all the navigation view elements in the preview (error message in the browser console: <code>CxtElement request cc-tree/getChildren failed: null, serverseitig: java.lang.UnsupportedOperationException: de.espirit.firstspirit.store.access.pagestore.BodyImpl.getUidAttribute(): unique identifier not supported!</code>).</p>

11.2 ContentCreator

ID	Description
CORE-12339	<p>With the current FirstSpirit release the Mithras Energy demo project for ContentCreator and SiteArchitect is no longer available and will no longer be distributed with FirstSpirit. e-Spirit replaces the demo project with the contemporary FirstSpirit Experience Accelerator.</p> <p>Further information can be found in chapter “SiteArchitect / ContentCreator: The Mithras Energy demo project is no longer available”.</p>
CXT-1483	<p>When the “BasicWorkflows” (<code>basicworkflows.fsm</code> module) were in use, in ContentCreator it was not always possible to open all the navigation view elements in the preview (error message in the browser console: <code>CxtElement request cc-tree/getChildren failed: null, serverseitig: java.lang.UnsupportedOperationException: de.espirit.firstspirit.store.access.pagestore.BodyImpl.getUidAttribute(): unique identifier not supported!</code>).</p>
CXT-1561	<p>The navigation view no longer shows elements for which the user does not have “Visible” permissions.</p> <p>Further information can be found in chapter “ContentCreator: Navigation view and evaluation of permissions: Hiding invisible elements”.</p>
CXT-1603	<p>The language in which the preview page is displayed could not be changed in the preview itself after opening the navigation view (e.g. via a language switch on the preview page).</p>



11.3 Database

ID	Description
CORE-12343	New layer for Oracle Database 19c Further information can be found in chapter “Compatibility: New layer for Oracle Database 19c”.

11.4 Content Store

ID	Description
CORE-12362	An error was fixed that could cause that saving an FS_INDEX input component that references datasets was not possible.

11.5 Debugging

ID	Description
CORE-11351	Changing from <code>IllegalArgumentException</code> to <code>InvalidSessionException</code> , when trying to get a <code>UserService</code> with expired session.

11.6 Services

ID	Description
CORE-11351	Changing from <code>IllegalArgumentException</code> to <code>InvalidSessionException</code> , when trying to get a <code>UserService</code> with expired session.

11.7 Input Components

ID	Description
CORE-12362	An error was fixed that could cause that saving an FS_INDEX input component that references datasets was not possible.



11.8 Developer

ID	Description
CORE-11351	Changing from <code>IllegalArgumentException</code> to <code>InvalidSessionException</code> , when trying to get a <code>UserService</code> with expired session.
CORE-12250	Update of internally used software.
CORE-11119	Further information can be found in chapter “System: Update of internally used software”.
CORE-12261	Fixed a bug that could cause a freeze of the application in very rare cases (deadlock in <code>DefaultStoreElement#_permissionCache</code>).
CORE-12289	The configuration of permitted applications (“FirstSpirit ServerManager - Project properties - Applications”) is now taken into account for export and import when using the “External Synchronization” functionality.
CORE-12337	End of Java 8 support: As part of product maintenance, support for Java 8 with FirstSpirit version 2020-06 will be discontinued. Further information can be found in chapter “General: End of Java 8 support”.
CORE-12339	With the current FirstSpirit release the Mithras Energy demo project for ContentCreator and SiteArchitect is no longer available and will no longer be distributed with FirstSpirit. e-Spirit replaces the demo project with the contemporary FirstSpirit Experience Accelerator. Further information can be found in chapter “SiteArchitect / ContentCreator: The Mithras Energy demo project is no longer available”.
CORE-12362	An error was fixed that could cause that saving an FS_INDEX input component that references datasets was not possible.
CXT-177	As of the current release, references to pages can now be created using the new <code>PageRef Access Plugin</code> module. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): PageRef Access Plugin (PageRefDAP): Referencing pages”.
CXT-1483	When the “BasicWorkflows” (<code>basicworkflows.fsm</code> module) were in use, in ContentCreator it was not always possible to open all the navigation view elements in the preview (error message in the browser console: <code>CxtElement request cc-tree/getChildren failed: null, serverseitig: java.lang.UnsupportedOperationException:</code>



ID	Description
	<p><code>de.espirit.firstspirit.store.access.pagestore.BodyImpl.getUidAttribute()</code>: unique identifier not supported!.</p>
CXT-1561	<p>The navigation view no longer shows elements for which the user does not have “Visible” permissions.</p> <p>Further information can be found in chapter “ContentCreator: Navigation view and evaluation of permissions: Hiding invisible elements”.</p>
CXT-1596	<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-140	<p>The current FSDevTools release (release 2.5.10) supports the execution of project and server schedules by means of the “schedule start” command. The parameters required for execution are transferred via the command line using the following schema:</p> <pre data-bbox="358 953 1463 1024">fs-cli [-p -project <ProjectName>] schedule start [-n -name <scheduleName>]</pre> <p>Additionally, the “schedule list” command can be used to list all the server schedules or project schedules for a certain project:</p> <pre data-bbox="358 1192 1122 1220">fs-cli [-p -project <ProjectName>] schedule list</pre> <p>Parameters:</p> <p>-project: (optional) project name (short form -p)</p> <ul data-bbox="391 1423 1430 1570" style="list-style-type: none"> ■ If the parameter is not specified, a server schedule is started. ■ If the parameter is transferred with a valid project name, a project schedule for this project is started. <p>-name: (mandatory parameter) schedule name (short form: -n)</p> <ul data-bbox="391 1696 1430 1766" style="list-style-type: none"> ■ If the parameter is transferred with a valid schedule name (<code>ScheduleEntry#getName</code>), the schedule is executed.



ID	Description
	<p><u>Example:</u> <code>bin\fs-cli -h example.com -port 4242 -p "SmartLiving" schedule start -n test</code> executes the “test” schedule for the “SmartLiving” project.</p> <p>Information about the schedule and the execution duration is provided in the log.</p> <p><u>Note:</u> The command line tool should not be exited before the schedule is finished.</p> <p>Information about the individual commands is available via the <code>fs-cli help <command> call</code>.</p>

11.9 External synchronization

ID	Description
CORE-12289	<p>The configuration of permitted applications (“FirstSpirit ServerManager - Project properties - Applications”) is now taken into account for export and import when using the “External Synchronization” functionality.</p>

11.10 FirstSpirit Content Experience Tools (CXT)

ID	Description
CXT-177	<p>As of the current release, references to pages can now be created using the new <i>PageRef Access Plugin</i> module.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): PageRef Access Plugin (PageRefDAP): Referencing pages”.</p>
CXT-578	<p>The ability for several editors to edit variants has been optimized.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Optimizations for multi-user mode”.</p>
CXT-711	<p>The language defined using the <code>lang</code> attribute is now taken into account when input element labeling is displayed.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Labeling input elements in FragmentCreator (“display language”)”.</p>



ID	Description
CXT-1596	FirstSpirit Content Experience Tools: Latest module versions
	Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

11.11 FirstSpirit Jetty Web Server

ID	Description
CORE-12250	Update of internally used software.
CORE-11119	Further information can be found in chapter “System: Update of internally used software”.

11.12 FirstSpirit Administrator

ID	Description
CORE-12250	Update of internally used software.
CORE-11119	Further information can be found in chapter “System: Update of internally used software”.
CORE-12322	In FirstSpirit ServerMonitoring, external groups of users are displayed in the “User” area only for server administrators, no longer for project administrators.
CORE-12336	As previously announced, with the end of Java 8 support, the support for the Windows installation program (.exe) and, at the same time, the support for the previous tar archive (.tgz) for all Unix systems will also be discontinued. The previous installation options will be replaced by new installation options for the FirstSpirit server and update options for the FirstSpirit backend. Further information can be found in chapter “Administration: The support for the Windows installation program and the tar archive (Unix) is discontinued”.
CORE-12337	End of Java 8 support: As part of product maintenance, support for Java 8 with FirstSpirit version 2020-06 will be discontinued. Further information can be found in chapter “General: End of Java 8 support”.



ID	Description
CORE-12338	<p>Up to now, the FirstSpirit desktop apps (FirstSpirit SiteArchitect and ServerManager) could be started and updated (roll-out) via Java Web Start or via the FirstSpirit Launcher. With the current FirstSpirit version, FirstSpirit no longer supports the option of starting and rolling out the FirstSpirit desktop applications via Java Web Start (as announced with 2019-10).</p> <p>Further information can be found in chapter “Administration: End of support: Java Web Start”.</p>
CORE-12339	<p>With the current FirstSpirit release the Mithras Energy demo project for ContentCreator and SiteArchitect is no longer available and will no longer be distributed with FirstSpirit. e-Spirit replaces the demo project with the contemporary FirstSpirit Experience Accelerator.</p> <p>Further information can be found in chapter “SiteArchitect / ContentCreator: The Mithras Energy demo project is no longer available”.</p>
CXT-177	<p>As of the current release, references to pages can now be created using the new <i>PageRef Access Plugin</i> module.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): PageRef Access Plugin (PageRefDAP): Referencing pages”.</p>
CXT-1596	<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>

11.13 FirstSpirit API

ID	Description
CORE-12261	Fixed a bug that could cause a freeze of the application in very rare cases (deadlock in <code>DefaultStoreElement#_permissionCache</code>).

11.14 FragmentCreator

ID	Description
CXT-177	As of the current release, references to pages can now be created using the new <i>PageRef Access Plugin</i> module.



ID	Description
	Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): PageRef Access Plugin (PageRefDAP): Referencing pages”.
CXT-578	<p>The ability for several editors to edit variants has been optimized.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Optimizations for multi-user mode”.</p>
CXT-711	<p>The language defined using the <code>lang</code> attribute is now taken into account when input element labeling is displayed.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Labeling input elements in FragmentCreator (“display language”)”.</p>
CXT-1596	<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>

11.15 FSDevTools

ID	Description
DEVEX-140	<p>The current FSDevTools release (release 2.5.10) supports the execution of project and server schedules by means of the “schedule start” command. The parameters required for execution are transferred via the command line using the following schema:</p> <pre>fs-cli [-p -project <ProjectName>] schedule start [-n -name <scheduleName>]</pre> <p>Additionally, the “schedule list” command can be used to list all the server schedules or project schedules for a certain project:</p> <pre>fs-cli [-p -project <ProjectName>] schedule list</pre> <p><u>Parameters:</u></p> <p><code>-project</code>: (optional) project name (short form <code>-p</code>)</p>



ID	Description
	<ul style="list-style-type: none"> ▪ If the parameter is not specified, a server schedule is started. ▪ If the parameter is transferred with a valid project name, a project schedule for this project is started. <p>-name: (mandatory parameter) schedule name (short form: -n)</p> <ul style="list-style-type: none"> ▪ If the parameter is transferred with a valid schedule name (ScheduleEntry#getName), the schedule is executed. <p><u>Example:</u> bin\fs-cli -h example.com -port 4242 -p "SmartLiving" schedule start -n test executes the "test" schedule for the "SmartLiving" project.</p> <p>Information about the schedule and the execution duration is provided in the log.</p> <p><u>Note:</u> The command line tool should not be exited before the schedule is finished.</p> <p>Information about the individual commands is available via the fs-cli help <command> call.</p>

11.16 Integrated software

ID	Description
CORE-12250	Update of internally used software.
CORE-11119	Further information can be found in chapter "System: Update of internally used software".

11.17 Java

ID	Description
CORE-12223	<p>The Java versions included in the "FirstSpirit Launcher JRE" module were updated in the latest FirstSpirit release.</p> <p>Further information can be found in chapter "SiteArchitect / ServerManager: "FirstSpirit Launcher JRE" module: update to Java versions".</p>



ID	Description
CORE-12336	<p>As previously announced, with the end of Java 8 support, the support for the Windows installation program (.exe) and, at the same time, the support for the previous tar archive (.tgz) for all Unix systems will also be discontinued. The previous installation options will be replaced by new installation options for the FirstSpirit server and update options for the FirstSpirit backend.</p> <p>Further information can be found in chapter “Administration: The support for the Windows installation program and the tar archive (Unix) is discontinued”.</p>
CORE-12337	<p>End of Java 8 support: As part of product maintenance, support for Java 8 with FirstSpirit version 2020-06 will be discontinued.</p> <p>Further information can be found in chapter “General: End of Java 8 support”.</p>

11.18 Launcher

ID	Description
CORE-12223	<p>The Java versions included in the “FirstSpirit Launcher JRE” module were updated in the latest FirstSpirit release.</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: “FirstSpirit Launcher JRE” module: update to Java versions”.</p>

11.19 Module development

ID	Description
CORE-11351	<p>Changing from <code>IllegalArgumentException</code> to <code>InvalidSessionException</code>, when trying to get a <code>UserService</code> with expired session.</p>



11.20 Modules

ID	Description
CXT-177	<p>As of the current release, references to pages can now be created using the new <i>PageRef Access Plugin</i> module.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): PageRef Access Plugin (PageRefDAP): Referencing pages”.</p>
CXT-1596	<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>

11.21 Permissions

ID	Description
CORE-12322	In FirstSpirit ServerMonitoring, external groups of users are displayed in the “User” area only for server administrators, no longer for project administrators.
CXT-1561	<p>The navigation view no longer shows elements for which the user does not have “Visible” permissions.</p> <p>Further information can be found in chapter “ContentCreator: Navigation view and evaluation of permissions: Hiding invisible elements”.</p>

11.22 Editor

ID	Description
CORE-12339	<p>With the current FirstSpirit release the Mithras Energy demo project for ContentCreator and SiteArchitect is no longer available and will no longer be distributed with FirstSpirit. e-Spirit replaces the demo project with the contemporary FirstSpirit Experience Accelerator.</p> <p>Further information can be found in chapter “SiteArchitect / ContentCreator: The Mithras Energy demo project is no longer available”.</p>



ID	Description
CORE-12362	An error was fixed that could cause that saving an FS_INDEX input component that references datasets was not possible.
CXT-177	<p>As of the current release, references to pages can now be created using the new <i>PageRef Access Plugin</i> module.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): PageRef Access Plugin (PageRefDAP): Referencing pages”.</p>
CXT-578	<p>The ability for several editors to edit variants has been optimized.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Optimizations for multi-user mode”.</p>
CXT-711	<p>The language defined using the <code>lang</code> attribute is now taken into account when input element labeling is displayed.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Labeling input elements in FragmentCreator (“display language”)”.</p>
CXT-1483	<p>When the “BasicWorkflows” (<code>basicworkflows.fsm</code> module) were in use, in ContentCreator it was not always possible to open all the navigation view elements in the preview (error message in the browser console: <code>CxtElement request cc-tree/getChildren failed: null, serverseitig: java.lang.UnsupportedOperationException: de.espirit.firstspirit.store.access.pagestore.BodyImpl.getUidAttribute(): unique identifier not supported!</code>).</p>
CXT-1561	<p>The navigation view no longer shows elements for which the user does not have “Visible” permissions.</p> <p>Further information can be found in chapter “ContentCreator: Navigation view and evaluation of permissions: Hiding invisible elements”.</p>
CXT-1603	The language in which the preview page is displayed could not be changed in the preview itself after opening the navigation view (e.g. via a language switch on the preview page).



11.23 Remote access

ID	Description
CXT-177	<p>As of the current release, references to pages can now be created using the new <i>PageRef Access Plugin</i> module.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): PageRef Access Plugin (PageRefDAP): Referencing pages”.</p>

11.24 Server Administrator

ID	Description
CORE-12322	<p>In FirstSpirit ServerMonitoring, external groups of users are displayed in the “User” area only for server administrators, no longer for project administrators.</p>
CORE-12336	<p>As previously announced, with the end of Java 8 support, the support for the Windows installation program (.exe) and, at the same time, the support for the previous tar archive (.tgz) for all Unix systems will also be discontinued. The previous installation options will be replaced by new installation options for the FirstSpirit server and update options for the FirstSpirit backend.</p> <p>Further information can be found in chapter “Administration: The support for the Windows installation program and the tar archive (Unix) is discontinued”.</p>
CORE-12337	<p>End of Java 8 support: As part of product maintenance, support for Java 8 with FirstSpirit version 2020-06 will be discontinued.</p> <p>Further information can be found in chapter “General: End of Java 8 support”.</p>
CORE-12338	<p>Up to now, the FirstSpirit desktop apps (FirstSpirit SiteArchitect and ServerManager) could be started and updated (roll-out) via Java Web Start or via the FirstSpirit Launcher. With the current FirstSpirit version, FirstSpirit no longer supports the option of starting and rolling out the FirstSpirit desktop applications via Java Web Start (as announced with 2019-10).</p> <p>Further information can be found in chapter “Administration: End of support: Java Web Start”.</p>



11.25 ServerManager

ID	Description
CORE-12338	<p>Up to now, the FirstSpirit desktop apps (FirstSpirit SiteArchitect and ServerManager) could be started and updated (roll-out) via Java Web Start or via the FirstSpirit Launcher. With the current FirstSpirit version, FirstSpirit no longer supports the option of starting and rolling out the FirstSpirit desktop applications via Java Web Start (as announced with 2019-10).</p> <p>Further information can be found in chapter “Administration: End of support: Java Web Start”.</p>
CXT-177	<p>As of the current release, references to pages can now be created using the new <i>PageRef Access Plugin</i> module.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): PageRef Access Plugin (PageRefDAP): Referencing pages”.</p>
CXT-1596	<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>

11.26 ServerMonitoring

ID	Description
CORE-12322	<p>In FirstSpirit ServerMonitoring, external groups of users are displayed in the “User” area only for server administrators, no longer for project administrators.</p>

11.27 SiteArchitect

ID	Description
CORE-12338	<p>Up to now, the FirstSpirit desktop apps (FirstSpirit SiteArchitect and ServerManager) could be started and updated (roll-out) via Java Web Start or via the FirstSpirit Launcher. With the current FirstSpirit version, FirstSpirit no longer supports the option of starting and rolling out the FirstSpirit desktop applications via Java Web Start (as announced with 2019-10).</p> <p>Further information can be found in chapter “Administration: End of support: Java Web Start”.</p>



ID	Description
CORE-12339	<p>With the current FirstSpirit release the Mithras Energy demo project for ContentCreator and SiteArchitect is no longer available and will no longer be distributed with FirstSpirit. e-Spirit replaces the demo project with the contemporary FirstSpirit Experience Accelerator.</p> <p>Further information can be found in chapter “SiteArchitect / ContentCreator: The Mithras Energy demo project is no longer available”.</p>

11.28 Sessions

ID	Description
CXT-578	<p>The ability for several editors to edit variants has been optimized.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Optimizations for multi-user mode”.</p>

11.29 Languages

ID	Description
CXT-711	<p>The language defined using the <code>lang</code> attribute is now taken into account when input element labeling is displayed.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Labeling input elements in FragmentCreator (“display language”)”.</p>
CXT-1603	<p>The language in which the preview page is displayed could not be changed in the preview itself after opening the navigation view (e.g. via a language switch on the preview page).</p>

11.30 Template Development

ID	Description
CXT-177	<p>As of the current release, references to pages can now be created using the new <i>PageRef Access Plugin</i> module.</p>



ID	Description
	Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): PageRef Access Plugin (PageRefDAP): Referencing pages”.

