



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2022.3

Status	RELEASED
Department	FS-Core
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1 Administration

1.1 Omission of the 'Legacy mode': Legacy files will no longer be available

The primary objective of the “Isolated mode” of the FirstSpirit Server is to give the module developer more freedom in the selection of the libraries that are used. Especially the potential conflicts with libraries that were included with the FirstSpirit core in the “Legacy mode” are thereby be minimized.

In February 2019 (2019-02), the “Isolated mode” was released. Since then, this is the standard for all newly installed servers.

Since 2019-06, the “Legacy mode” has been discontinued.

With the latest release, FirstSpirit Servers that are still operated in “Legacy mode” will no longer be updated to newer releases (`fs-update tar.gz`).

Omission of files

As of the latest FirstSpirit release, the following files will no longer be provided and should be replaced as follows:

```
fs-access.jar -> fs-isolated-runtime.jar
fs-server.jar -> fs-isolated-server.jar
fs-webrt.jar -> fs-isolated-webrt.jar
```

Migration note/Compatibility

As of the latest release, the **Installer** (`fs-install tar.gz`) and **Updater** (`fs-update tar.gz`) no longer support the “Legacy mode”.

This means that a server must be changed over **prior to** an update of the backend system to version 3.0.0 to the “Isolated mode”!

Is my server affected?

An indication of that a server is operated in the “Isolated mode” is the *I* (for “Isolated”) in the server version number in the corresponding dialogs (e.g. `5.2.220309.80296 (I)`), for example on the FirstSpirit start page.

In addition, FirstSpirit Servers running in “Isolated mode” use the `fs-isolated-server.jar` file in the `~/server/lib-isolated` directory (instead of the `fs-server.jar` file in the `~/server/lib` directory in the “Legacy mode”).



Server and customer-specific modules that have not yet been changed over to the “Isolated mode” should be adapted accordingly.

If you need assistance with the change-over, please contact e-Spirit Technical Support.

To change over FirstSpirit Server and customer-specific modules to the “Isolated mode” see also <https://docs.e-spirit.com/odfs/edocs/modd/index.en.html>.

1.2 FirstSpirit start page and FragmentCreator projects

Projects that are available on the server can be opened via the FirstSpirit start page. The user can thereby also select the desired client to be used to open the project.

Available clients can be configured in the

- Server Properties
(FirstSpirit ServerManager/Server Properties/Start page)

- Project Properties
(FirstSpirit ServerManager/Project Properties/Applications)

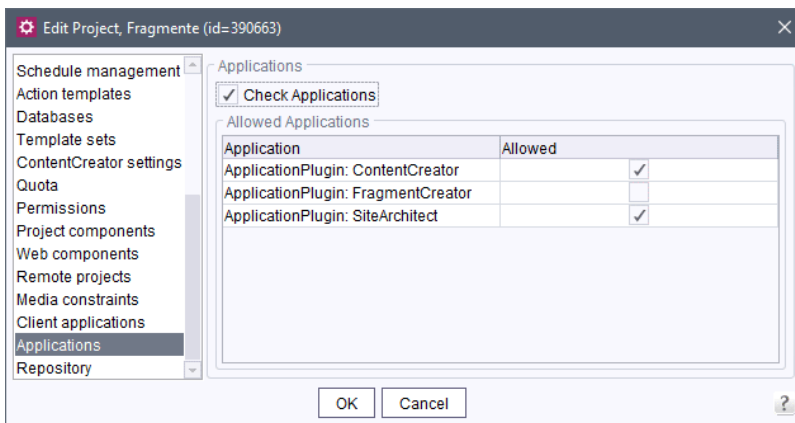
If the FragmentCreator was enabled for a project in the Project Properties in the “Applications” area (“ApplicationPlugin: FragmentCreator”), this could lead to long load times of the Start page. The project selection of the FragmentCreator (during starting or project change) only displayed projects, which contained obligatory metadata template for Fragment projects.

The most recent release now only evaluates the setting of the “ApplicationPlugin: FragmentCreator” checkbox in the list of enabled applications: this means that all projects for which the “ApplicationPlugin: FragmentCreator” checkbox is not explicitly deactivated will be displayed in the project selection.

To display a project in the project selection list of the FragmentCreator, the checkbox must be activated.

The checkbox is deactivated by default for projects that are created new:





If the project does not contain the required metadata template, the following message is shown when the project is opened on the FirstSpirit start page:

The project is not yet prepared for fragments. You may change the project settings and remove the FragmentCreator from the allowed applications, if necessary.

1.3 Release of Java 17

In September 2021, Java 17 was deployed. JDK 17 is deployed by most providers as Long-Term-Support (LTS) version. It follows Java 11, which currently includes the LTS state.

The latest FirstSpirit release includes the official release for the use of **Java 17** with FirstSpirit. **Java 11** continues to apply as reference.

At the same time, this release discontinues the support for **Java 16**.

It is expected that FirstSpirit will remain functional with Java 16. However, e-Spirit AG does not carry out tests with Java 16 or eliminate FirstSpirit problems that are related to Java 16.

For further documentation, see <https://docs.e-spirit.com/odfs/edocs/admi/technical-requi/index.html>.

1.4 Compatibility: 'PostgreSQL' database

The latest release includes the official release for the use of **PostgreSQL 14.x** with FirstSpirit. **PostgreSQL 11** remains valid as reference.

It is planned to make PostgreSQL 14 the official reference version in a later release.



In addition, PostgreSQL 12.x and PostgreSQL 13.x have been included in the list of compatible databases.

However, the PostgreSQL 9.x version has no longer been maintained/supported by the manufacturer since November 2021, so that there is no support by FirstSpirit, either.

1.5 Modules and extensions for FirstSpirit 2022.3

The following modules and extensions are compatible with FirstSpirit 2022.3:

Module name/File name	Version number	Compatibility
FirstSpirit Update Archive fs-update- [version].tar.gz	3.0.0	-
FirstSpirit Install Archiv fs-install- [version].tar.gz	3.0.0	-
FirstSpirit Launcher FSLauncher.exe	1.0.43	as of FirstSpirit 2018-08
FirstSpirit Launcher JRE module fs-launcher-jre- [version].fsm	1.19	as of FirstSpirit 2020-11
FirstSpirit SAML Login module fs-saml-login- [version].fsm	1.3	as of FirstSpirit 2019-02
FSDevTools fs-cli-[version].tar.gz fs-cli-[version].zip	3.1.0	as of FirstSpirit 2021-07
FirstSpirit Module Gradle Plugin firstspirit-module- gradle-plugin- [version].jar	3.0.3	as of FirstSpirit 2019-06

1.6 Web server and web apps: New MBeans

The latest FirstSpirit release provides two new MBeans. They can be used to evaluate the load on web servers, for example.



- `WebAppManager`: this MBean can be used to read out all web applications from the installed modules and their use in the configured web applications.
- `WebServerManager`: this MBean can be used to determine which web applications are installed on which web server.

1.7 Web server: Recognition of JVM Hiccups

Hiccups of the Java VM are now also registered by the Application Server on which the FirstSpirit web applications are running and logged in the `fs-server.log` file. Furthermore, also in the `server-incidents.log` file, for example,

```
WARN 08.02.2022 09:09:58.299 (de.espirit.firstspirit.server.HealthStatus):  
    HICCUP (de.espirit.firstspirit.server.statistic.HiccupMeter) Web application VM  
    hiccup detected: ...
```

The settings of the `fs-server.conf` in the `VM hiccup detector MBean` area thereby apply.

Note: For each Java VM, only one registration of the corresponding MBean `HiccupMeter` occurs. This means that the Java VM Hiccups are not monitored via the web applications for the Jetty web server because this already takes place via the FirstSpirit Server. If web applications of more than one FirstSpirit Server are running on an application server, the hiccups are only reported to the FirstSpirit Server with the web application that registered the `HiccupMeter` first.

1.8 Web server: Rework for the removal of the InternalJetty

Until now, the `~/web` directory served as a generation directory of the “InternalJetty” and is no longer needed since the removal of the “InternalJetty” (implemented with FirstSpirit 2022.1).

Automatic removal of files and directories that are no longer required

With the update to FirstSpirit-Release 2022.3 or higher, all FirstSpirit web applications are removed **once** from the `~/web` directory. Unless the directory contains other data, it will also be deleted. (*INFO* message in the logging: `...Deleting legacy web directory:...`)

If the directory contains files that are not FirstSpirit web applications, the directory structure and files will remain unchanged. (*WARN* message in the logging: `...Legacy web directory not deleted, the directory is not empty:...`)

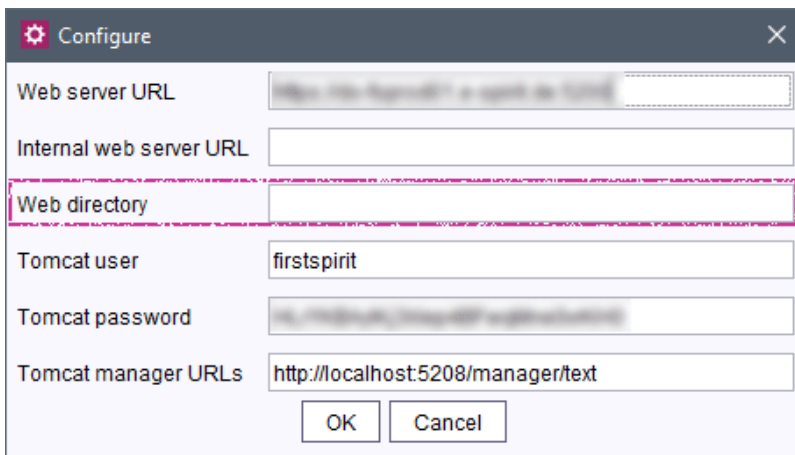
Web servers that use the `~/web` directory can thereby continue to be used without problems.



Fallback generation directory

If no web server is configured or no web directory is specified for web servers of type “Tomcat” (= the field “Web directory” is empty, e.g., because FirstSpirit does not have access to the file system of the Tomcat), a generation as fallback to the directory occurred automatically **until now**

```
~/web/fs5staging
```



With the **latest** release (FirstSpirit 2022.3), the directory of the web application *fs5staging* of the “Jetty Web Server” is now used in the fallback case:

```
~/data/modules/FirstSpirit Jetty Server.JettyService/webapps/fs5staging/webapp
```

The “Jetty Web Server” is an integrated Jetty web server in FirstSpirit that is provided in form of the system module *fs-jetty.fsm*.

The associated (*JettyService*) function runs by default. If this function does not run, the generation directory is also used in the fallback case, but the “Jetty Web Server” is then not accessible and access to the generation directory is not possible.

If you are using customer-specific extensions (scripts, modules, etc.) that respond to changes in the `~/web/fs5staging` directory, they must be adjusted for the new path accordingly.

For an easier determination of whether the `~/web` directory is still used in projects, the following is recorded in the log in the fallback case since FirstSpirit 2022.1 (INFO log level):



```
Fallback to web directory:[...]
```

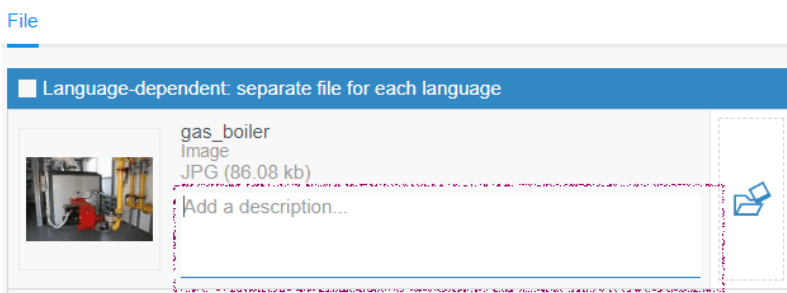
! The use of the “Jetty Web Server” is not suitable for live operation and should only be used as fallback (in an “aggregating web server”) or for tests.

2 ContentCreator

2.1 Media: enter descriptive text

A descriptive text can now also be stored for media in the FirstSpirit ContentCreator. For example, this text can be output on the website as alternative text (*alt* tag).

The corresponding field is shown next to the medium after a file is selected:



- For **language-dependent** media, a description can be entered for every language in which a file was selected.
- For **language-independent** media, a language-independent description can be entered.

2.2 Configuring the navigation bar via Tailored UI

The navigation bar in the FirstSpirit ContentCreator can now be configured via the

```
Navigation: Enabled
```

function of the “Tailored UI” (e.g. deactivated).



The “Edit navigation” menu entry in the “Actions” menu, which opened the navigation bar, is no longer needed and has been removed in this context.

For more information on the “Tailored UI”, see also <https://docs.e-spirit.com/odfs/template-develo/contentcreator/customization/standard-functi/index.html>

2.3 Navigation bar: Creating sections

New sections can now also be created in the navigation bar of the FirstSpirit ContentCreator for **content areas** (in the “Page” area, via `RIGHT-CLICK` or context menu).

It will then be inserted in the first position of the content area.



The use of `FS_BUTTON` is thereby no longer required to create new sections on pages (see also https://docs.e-spirit.com/odfs/template-develo/contentcreator/customization/functions-the-p/index.html#klassen_absatzerstellen).

The creation of sections can now be controlled separately for the navigation bar and the EasyEdit bar via the “Tailored UI” as follows:

- `Navigation: Create Section`
This switch is **new** in the latest FirstSpirit Release.
It controls the “New section” function in the navigation bar.
By default, the function is **available** to all users in all projects.
- `Preview: Create Section`
This switch controls the “New section” function in the EasyEdit bar:



Migration note: Until now, the `Preview: Create Section` switch was also used to control the function in the navigation bar. In existing projects, in which the function should **not** be available in the navigation bar, it must now be deactivated via the `Navigation: Create Section` switch accordingly.



For more information on the “Tailored UI”, see also <https://docs.e-spirit.com/odfs/template-develo/contentcreator/customization/standard-functi/index.html>

2.4 Making script functions available

Scripts allow functions that are not present in FirstSpirit to be implemented quickly.

In the FirstSpirit ContentCreator, script functionalities were previously accessible via the “Actions” menu as well as the EasyEdit toolbar and navigation bar; however, in that case only for elements of content management (script type “ContentCreator”).

In the latest release, “ContentCreator” type scripts are now also available for elements of Site, Media and Data Store.

Exception: elements from remote projects



The script actions can be controlled individually via the Tailored UI:

- `EntityManagement: Execute script`
- `MediaManagement: Execute script`
- `Navigation: Execute script`
- `Preview: Execute script`

For further information, see <https://docs.e-spirit.com/odfs/templates-basic/composition-tem/scripts/index.html>

Note: FirstSpirit scripts present a lightweight option for the integration of new functions in FirstSpirit. However, for reasons of stability, it is recommended to implement functions that are needed or used long-term as a FirstSpirit module with executable or plug-in.



2.5 Search: Only hits with Visible permission

The “Search” report now only displays elements in the search results list for which the editor has the “Visible” permission. Otherwise, the element is not displayed as a search result. In the past, elements for which the editor did not have Visible permissions were also displayed labeled **** No access ****.

Note: If Visible permissions are missing in the parent chain of the respective element, it continues to be displayed in the search results list with the **** No access **** label. Multiple invisible elements are thereby summarized in one.

3 FirstSpirit Content Experience Tools (CXT)

3.1 Latest module versions

FirstSpirit 2022.3 supports the following module versions for “FirstSpirit Content Experience Tools”.

Module / file name	Version number
FirstSpirit CXT Plattform	2.5.3
platform-[version].fsm	
FirstSpirit CXT DAP Bridge	1.44.3
dataservice-[version].fsm	
FirstSpirit CXT FragmentCreator	3.4.6
fragment-creator-[version].fsm	
FirstSpirit Fragment DAP	1.40.6
fragmentdap-[version].fsm	
FirstSpirit Media DAP	1.31.4*
mediadap-[version].fsm	
FirstSpirit PageRef DAP	1.9.4
pagerefdap-[version].fsm	
FirstSpirit Markdown Editor	1.29.3*
markdown-editor-[version].fsm	
FirstSpirit Tagging Editor	1.29.3
tagging-editor-[version].fsm	
FirstSpirit CXT FragmentCreator - CaaS Integration	1.31.4
caas-integration-[version].fsm	



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

4 SiteArchitect

4.1 Section references: Takeover of the output state

The state of the source section with respect to the output (“Include this section in the output”) is now taken over when a section reference is created. It can be changed again later independently for the source section and the section reference. The state of the output is no longer synchronized between source section and section reference **after** creating a section reference.

5 Template development

5.1 contentSelect: Direct indication of queries

Queries can now be referenced directly in the *contentSelect* function using the `queryUid` parameter.

Example:

```
<CMS_FUNCTION name="contentSelect" resultname="myContentSelectFunction">  
  <CMS_PARAM name="queryUid" value="mySchema.myQuery" />  
</CMS_FUNCTION>
```

For more information, see <https://docs.e-spirit.com/odfs/template-develo/template-syntax/functions/header/contentselect/index.html>.

6 Deprecations

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

However - not least in order to ensure maintainability and to future-proof the software - e-Spirit cannot fully avoid replacing existing functionality with new mechanisms. In the future, functionality that will be



removed from the software will be listed in this section, including the date at which time the functionality will be removed.

Functionality	Deprecated as of	Will be removed/ Was removed as of
Input component CMS_INPUT_CONTENTAREALIST	5.2R3	
Input component CMS_INPUT_CONTENTLIST	5.2R3	
Input component CMS_INPUT_FILE	5.2R3	
Input component CMS_INPUT_LINKLIST	5.2R3	
Input component CMS_INPUT_OBJECTCHOOSE	5.2R3	
Input component CMS_INPUT_PAGEREF	5.2R3	
Input component CMS_INPUT_PICTURE	5.2R3	
Input component CMS_INPUT_TABLIST	5.2R3	
FirstSpirit Developer API: de.espirit.firstspirit.agency.GroupsAgent	5.2R15	
FirstSpirit Access API: delete (de.espirit.firstspirit.access.AccessUtil)	5.2R18	
FirstSpirit Access API: release (de.espirit.firstspirit.access.AccessUtil)	2018-06	
FirstSpirit Developer API: getLastLoginAsDate (de.espirit.firstspirit.agency.UserStatisticsAgent)	2018-07	
FirstSpirit Developer API: remainingDurationOfCurrentStageInMillis (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Access API: getSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	



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	
WebSphere Application Server support for FirstSpirit	2019-05	
Legacy mode for the FirstSpirit server and module development	2019-06	2022-03
Control files for Windows and Linux operating systems (old)	2020-08	
Database layer for Oracle Database 11g/12c	2020-12	
FirstSpirit Developer API: redirectTemplateLogToDefaultLog() (Interface RenderingAgent.Renderer)	2021-05	
PostgreSQL 9.x support for FirstSpirit	2022-03	2022-03



7 Overview

ID	Description	Categories
CORE-12536	The evaluation and display of changes within the version comparison was improved for the FS_CATALOG input component.	Editor, SiteArchitect, Version history
CORE-12643	<p>Queries can now be referenced directly in the <i>contentSelect</i> function.</p> <p>Further information can be found in chapter “Template development: contentSelect: Direct indication of queries”.</p>	Content Store, Database, Developer, Template Development
CORE-13679	<p>In the project selection, all projects for which the “ApplicationPlugin: FragmentCreator” checkbox is not explicitly deactivated will be displayed.</p> <p>Further information can be found in chapter “Administration: FirstSpirit start page and FragmentCreator projects”.</p>	FirstSpirit Administrator, FirstSpirit home page, FragmentCreator
CORE-14045	<p>As of the latest FirstSpirit release, some binary files (.jar) are no longer provided and must be replaced with their successors. Beyond that, FirstSpirit Server that are still operated in “Legacy mode” will no longer be updated to newer releases (<i>fs-update tar.gz</i>).</p> <p>Further information can be found in chapter “Administration: Omission of the 'Legacy mode': Legacy files will no longer be available”.</p>	FirstSpirit Administrator, ServerManager, ServerMonitoring
CORE-14046	<p>Modules and extensions for FirstSpirit 2022.3.</p> <p>Further information can be found in chapter “Administration: Modules and extensions for FirstSpirit 2022.3”.</p>	Developer, FSDevTools, FirstSpirit Administrator, Launcher, Modules
CORE-14067	<p>Hiccups of the Java VM are now also registered by the Application Server on which the FirstSpirit web applications are running and logged in the <i>fs-server.log</i> file.</p> <p>Further information can be found in chapter “Administration: Web server: Recognition of JVM Hiccups”.</p>	Monitoring, Server Administrator



ID	Description	Categories
CORE-14085	An error has been fixed that could result in that in rare cases, not all required data was exported with project exports that had limits with respect to time or the number of revisions (“Only export more recent revisions” or “Limit number of exported revisions to”). This could result in errors after the import, such as incorrect parent/child relations.	FirstSpirit Administrator, ServerManager
CORE-14131 CORE-14182	The latest FirstSpirit release has implemented rework for the omission of the “InternalJetty”. Further information can be found in chapter “Administration: Web server: Rework for the removal of the InternalJetty”.	FirstSpirit Administrator, FirstSpirit Jetty Web Server, ServerManager, ServerMonitoring, Web server
CORE-14142	The state of the source section with respect to the output (“include this section in the output”) is now taken over when a section reference is created. Further information can be found in chapter “SiteArchitect: Section references: Takeover of the output state”.	Editor, Page Store, SiteArchitect
CORE-14190	The latest FirstSpirit release includes the official release for the use of Java 17 with FirstSpirit. At the time, the support for Java 16 is discontinued. Further information can be found in chapter “Administration: Release of Java 17”.	FirstSpirit Administrator, Java
CORE-14191	The latest FirstSpirit release provides new MBeans. Further information can be found in chapter “Administration: Web server and web apps: New MBeans”.	FirstSpirit Administrator, Monitoring, Web server
CORE-14193	The latest FirstSpirit release includes the official release for the use of PostgreSQL 14.x with FirstSpirit. Further information can be found in chapter “Administration: Compatibility: 'PostgreSQL' database”.	Content Store, Database, Developer, FirstSpirit Administrator
CORE-14203	The statistic data that, for example, can be accessed in ServerMonitoring under “Monitoring/Codes” or “Activities” via the envelope icon is now also saved via a server restart.	Monitoring, Server Administrator, ServerMonitoring



ID	Description	Categories
CORE-14214	In the JSON output, the date is now always output in the unabbreviated format including seconds and milliseconds. Example: "2022-02-14T08:32:00.000Z"	Support for JSON
CORE-14220	An error has been eliminated that, in rare cases, could lead to unusually long generating actions due to an incorrect cache storage distribution.	Server Administrator
CORE-14225	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Modules
CXT-1600	Checking of rules has been optimized.	ContentCreator, Dynamic Forms
CXT-1975	When creating a new page in the ContentCreator, the position of the new page is now initially visible in the navigation.	ContentCreator, Editor
CXT-2288	When creating a new page in the ContentCreator, the selected options are now highlighted more clearly.	ContentCreator, Editor
CXT-2308	For the creation of new sections, the consideration of user permissions for sections that can be used as master copies has been improved.	ContentCreator, Editor, Permissions
CXT-2313	The navigation bar in the FirstSpirit ContentCreator can now be configured via the <code>Navigation: Enabled</code> feature of the "Tailored UI". Further information can be found in chapter "ContentCreator: Configuring the navigation bar via Tailored UI".	ContentCreator, Developer, Editor, FirstSpirit Administrator, Navigation view
CXT-2348	A selection of the next editor is now possible when activating multiple workflows at the same time.	ContentCreator, Editor, Workflow
CXT-2354	An error has been corrected which, in very rare cases, may have resulted in display errors with the use of InEdit.	ContentCreator



ID	Description	Categories
CXT-2370	<p>New sections can now also be created for content areas in the navigation bar of the FirstSpirit ContentCreator.</p> <p>And, the creation of sections can now be controlled separately for the navigation bar and the EasyEdit bar via the “Tailored UI”.</p> <p>Further information can be found in chapter “ContentCreator: Navigation bar: Creating sections”.</p>	ContentCreator, Developer, Editor, Navigation view
CXT-2374	Switching languages in the form could incorrectly cause change recognition when the form contained one of the FS_CATALOG, CMS_INPUT_IMAGE_MAP, CMS_INPUT_LINK or CMS_INPUT_PERMISSION input components.	ContentCreator, Editor
CXT-2466	<p>Scripts in ContentCreator</p> <p>Further information can be found in chapter “ContentCreator: Making script functions available”.</p>	ContentCreator, Developer, Template Development, Template Store
CXT-2504	The permissions for deleting datasets are now also evaluated correctly in the FirstSpirit ContentCreator: Previously, datasets could only be deleted via the state display in case of special permissions configurations to the extent that a corresponding workflow was available. Now, deletion is also possible analogously via EasyEdit icon.	Content Store, ContentCreator, Database, Editor, Permissions, Workflow
CXT-2506	<p>A descriptive text can now also be stored for media in the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Media: enter descriptive text”.</p>	ContentCreator, Editor, Media, Media Store
CXT-2509	A deletion via workflow could result in a <code>java.lang.IllegalStateException</code> in the ContentCreator, the workflow was not executed and the element was not deleted.	ContentCreator, Editor
CXT-2510	In rare cases, it was possible with open Media management or Data sources view, that the state display was incorrectly referencing the preview element.	ContentCreator, Editor



ID	Description	Categories
CXT-2520	The deletion of a dataset now always leads to an update of the dataset view. In the past, some datasets continued to be displayed after the deletion.	Content Store, ContentCreator, Database, Editor
CXT-2521	The permission check when editing datasets via InEdit has been improved and now no longer leads to an <code>java.lang.IllegalArgumentException</code> if permissions are missing.	ContentCreator, Editor, Permissions
CXT-2522	<p>The “Search” report now only displays elements in the search results list for which the editor has the “Visible” permission.</p> <p>Further information can be found in chapter “ContentCreator: Search: Only hits with Visible permission”.</p>	ContentCreator, Permissions, Search
CXT-2524	Some elements that were created new under the root node were not displayed directly in the tree view of the FirstSpirit ContentCreator.	ContentCreator, Editor, Media Store, Navigation view
CXT-2525	In rare cases it was possible that the navigation bar was displayed incorrectly in the FirstSpirit ContentCreator under macOS (error message: <code>org.apache.catalina.connector.ClientAbortException</code> <code>java.io.IOException: Datenübergabe unterbrochen (broken pipe)</code>).	ContentCreator, Editor, Navigation view
CXT-2530	An error has been eliminated that resulted in that the entire parts tree was marked recursively as changed in the ContentCreator when executing the action “Show in navigation menu” or “Hide in navigation menu”. Now, only the changed folder is marked accordingly.	ContentCreator, Editor, Navigation view
CXT-2534	<p>In the navigation bar of the FirstSpirit ContentCreator, the “New section” function is now also available for sections that are based on a table template.</p> <p><u>Note:</u> It is still not possible to create sections in the ContentCreator that are based on a table template (“data section”).</p>	ContentCreator, Editor, Navigation view



8 Categories

8.1 Workflow

ID	Description
CXT-2348	A selection of the next editor is now possible when activating multiple workflows at the same time.
CXT-2504	The permissions for deleting datasets are now also evaluated correctly in the FirstSpirit ContentCreator: Previously, datasets could only be deleted via the state display in case of special permissions configurations to the extent that a corresponding workflow was available. Now, deletion is also possible analogously via EasyEdit icon.

8.2 ContentCreator

ID	Description
CXT-1600	Checking of rules has been optimized.
CXT-1975	When creating a new page in the ContentCreator, the position of the new page is now initially visible in the navigation.
CXT-2288	When creating a new page in the ContentCreator, the selected options are now highlighted more clearly.
CXT-2308	For the creation of new sections, the consideration of user permissions for sections that can be used as master copies has been improved.
CXT-2313	The navigation bar in the FirstSpirit ContentCreator can now be configured via the <code>Navigation: Enabled</code> feature of the “Tailored UI”. Further information can be found in chapter “ContentCreator: Configuring the navigation bar via Tailored UI”.
CXT-2348	A selection of the next editor is now possible when activating multiple workflows at the same time.
CXT-2354	An error has been corrected which, in very rare cases, may have resulted in display errors with the use of InEdit.



ID	Description
CXT-2370	<p>New sections can now also be created for content areas in the navigation bar of the FirstSpirit ContentCreator.</p> <p>And, the creation of sections can now be controlled separately for the navigation bar and the EasyEdit bar via the “Tailored UI”.</p> <p>Further information can be found in chapter “ContentCreator: Navigation bar: Creating sections”.</p>
CXT-2374	<p>Switching languages in the form could incorrectly cause change recognition when the form contained one of the FS_CATALOG, CMS_INPUT_IMAGE_MAP, CMS_INPUT_LINK or CMS_INPUT_PERMISSION input components.</p>
CXT-2466	<p>Scripts in ContentCreator</p> <p>Further information can be found in chapter “ContentCreator: Making script functions available”.</p>
CXT-2504	<p>The permissions for deleting datasets are now also evaluated correctly in the FirstSpirit ContentCreator: Previously, datasets could only be deleted via the state display in case of special permissions configurations to the extent that a corresponding workflow was available. Now, deletion is also possible analogously via EasyEdit icon.</p>
CXT-2506	<p>A descriptive text can now also be stored for media in the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Media: enter descriptive text”.</p>
CXT-2509	<p>A deletion via workflow could result in a <code>java.lang.IllegalStateException</code> in the ContentCreator, the workflow was not executed and the element was not deleted.</p>
CXT-2510	<p>In rare cases, it was possible with open Media management or Data sources view, that the state display was incorrectly referencing the preview element.</p>
CXT-2520	<p>The deletion of a dataset now always leads to an update of the dataset view. In the past, some datasets continued to be displayed after the deletion.</p>
CXT-2521	<p>The permission check when editing datasets via InEdit has been improved and now no longer leads to an <code>java.lang.IllegalArgumentException</code> if permissions are missing.</p>
CXT-2522	<p>The “Search” report now only displays elements in the search results list for which the editor has the “Visible” permission.</p> <p>Further information can be found in chapter “ContentCreator: Search: Only hits with Visible permission”.</p>



ID	Description
CXT-2524	Some elements that were created new under the root node were not displayed directly in the tree view of the FirstSpirit ContentCreator.
CXT-2525	In rare cases it was possible that the navigation bar was displayed incorrectly in the FirstSpirit ContentCreator under macOS (error message: <code>org.apache.catalina.connector.ClientAbortException: java.io.IOException: Datenübergabe unterbrochen (broken pipe)</code>).
CXT-2530	An error has been eliminated that resulted in that the entire parts tree was marked recursively as changed in the ContentCreator when executing the action “Show in navigation menu” or “Hide in navigation menu”. Now, only the changed folder is marked accordingly.
CXT-2534	In the navigation bar of the FirstSpirit ContentCreator, the “New section” function is now also available for sections that are based on a table template. <u>Note:</u> It is still not possible to create sections in the ContentCreator that are based on a table template (“data section”).

8.3 Database

ID	Description
CORE-12643	Queries can now be referenced directly in the <i>contentSelect</i> function. Further information can be found in chapter “Template development: contentSelect: Direct indication of queries”.
CORE-14193	The latest FirstSpirit release includes the official release for the use of PostgreSQL 14.x with FirstSpirit. Further information can be found in chapter “Administration: Compatibility: 'PostgreSQL' database”.
CXT-2504	The permissions for deleting datasets are now also evaluated correctly in the FirstSpirit ContentCreator: Previously, datasets could only be deleted via the state display in case of special permissions configurations to the extent that a corresponding workflow was available. Now, deletion is also possible analogously via EasyEdit icon.
CXT-2520	The deletion of a dataset now always leads to an update of the dataset view. In the past, some datasets continued to be displayed after the deletion.



8.4 Content Store

ID	Description
CORE-12643	<p>Queries can now be referenced directly in the <i>contentSelect</i> function.</p> <p>Further information can be found in chapter “Template development: contentSelect: Direct indication of queries”.</p>
CORE-14193	<p>The latest FirstSpirit release includes the official release for the use of PostgreSQL 14.x with FirstSpirit.</p> <p>Further information can be found in chapter “Administration: Compatibility: 'PostgreSQL' database”.</p>
CXT-2504	<p>The permissions for deleting datasets are now also evaluated correctly in the FirstSpirit ContentCreator: Previously, datasets could only be deleted via the state display in case of special permissions configurations to the extent that a corresponding workflow was available. Now, deletion is also possible analogously via EasyEdit icon.</p>
CXT-2520	<p>The deletion of a dataset now always leads to an update of the dataset view. In the past, some datasets continued to be displayed after the deletion.</p>

8.5 Dynamic Forms

ID	Description
CXT-1600	Checking of rules has been optimized.

8.6 Developer

ID	Description
CORE-12643	<p>Queries can now be referenced directly in the <i>contentSelect</i> function.</p> <p>Further information can be found in chapter “Template development: contentSelect: Direct indication of queries”.</p>
CORE-14046	Modules and extensions for FirstSpirit 2022.3.



ID	Description
	Further information can be found in chapter “Administration: Modules and extensions for FirstSpirit 2022.3”.
CORE-14193	<p>The latest FirstSpirit release includes the official release for the use of PostgreSQL 14.x with FirstSpirit.</p> <p>Further information can be found in chapter “Administration: Compatibility: 'PostgreSQL' database”.</p>
CORE-14225	<p>FirstSpirit Content Experience Tools: Latest module versions</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.</p>
CXT-2313	<p>The navigation bar in the FirstSpirit ContentCreator can now be configured via the <code>Navigation: Enabled</code> feature of the “Tailored UI”.</p> <p>Further information can be found in chapter “ContentCreator: Configuring the navigation bar via Tailored UI”.</p>
CXT-2370	<p>New sections can now also be created for content areas in the navigation bar of the FirstSpirit ContentCreator.</p> <p>And, the creation of sections can now be controlled separately for the navigation bar and the EasyEdit bar via the “Tailored UI”.</p> <p>Further information can be found in chapter “ContentCreator: Navigation bar: Creating sections”.</p>
CXT-2466	<p>Scripts in ContentCreator</p> <p>Further information can be found in chapter “ContentCreator: Making script functions available”.</p>

8.7 FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-14225	<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>



8.8 FirstSpirit Jetty Web Server

ID	Description
CORE-14131	The latest FirstSpirit release has implemented rework for the omission of the “InternalJetty”.
CORE-14182	Further information can be found in chapter “Administration: Web server: Rework for the removal of the InternalJetty”.

8.9 FirstSpirit home page

ID	Description
CORE-13679	In the project selection, all projects for which the “ApplicationPlugin: FragmentCreator” checkbox is not explicitly deactivated will be displayed.
	Further information can be found in chapter “Administration: FirstSpirit start page and FragmentCreator projects”.

8.10 FirstSpirit Administrator

ID	Description
CORE-13679	In the project selection, all projects for which the “ApplicationPlugin: FragmentCreator” checkbox is not explicitly deactivated will be displayed.
	Further information can be found in chapter “Administration: FirstSpirit start page and FragmentCreator projects”.
CORE-14045	As of the latest FirstSpirit release, some binary files (.jar) are no longer provided and must be replaced with their successors. Beyond that, FirstSpirit Server that are still operated in “Legacy mode” will no longer be updated to newer releases (fs-update tar.gz).
	Further information can be found in chapter “Administration: Omission of the 'Legacy mode': Legacy files will no longer be available”.
CORE-14046	Modules and extensions for FirstSpirit 2022.3.



ID	Description
	Further information can be found in chapter “Administration: Modules and extensions for FirstSpirit 2022.3”.
CORE-14085	An error has been fixed that could result in that in rare cases, not all required data was exported with project exports that had limits with respect to time or the number of revisions (“Only export more recent revisions” or “Limit number of exported revisions to”). This could result in errors after the import, such as incorrect parent/child relations.
CORE-14131 CORE-14182	The latest FirstSpirit release has implemented rework for the omission of the “InternalJetty”. Further information can be found in chapter “Administration: Web server: Rework for the removal of the InternalJetty”.
CORE-14190	The latest FirstSpirit release includes the official release for the use of Java 17 with FirstSpirit. At the time, the support for Java 16 is discontinued. Further information can be found in chapter “Administration: Release of Java 17”.
CORE-14191	The latest FirstSpirit release provides new MBeans. Further information can be found in chapter “Administration: Web server and web apps: New MBeans”.
CORE-14193	The latest FirstSpirit release includes the official release for the use of PostgreSQL 14.x with FirstSpirit. Further information can be found in chapter “Administration: Compatibility: ‘PostgreSQL’ database”.
CORE-14225	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.
CXT-2313	The navigation bar in the FirstSpirit ContentCreator can now be configured via the <code>Navigation: Enabled</code> feature of the “Tailored UI”. Further information can be found in chapter “ContentCreator: Configuring the navigation bar via Tailored UI”.



8.11 FragmentCreator

ID	Description
CORE-13679	<p>In the project selection, all projects for which the “ApplicationPlugin: FragmentCreator” checkbox is not explicitly deactivated will be displayed.</p> <p>Further information can be found in chapter “Administration: FirstSpirit start page and FragmentCreator projects”.</p>
CORE-14225	<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>

8.12 FSDevTools

ID	Description
CORE-14046	<p>Modules and extensions for FirstSpirit 2022.3.</p> <p>Further information can be found in chapter “Administration: Modules and extensions for FirstSpirit 2022.3”.</p>

8.13 Page Store

ID	Description
CORE-14142	<p>The state of the source section with respect to the output (“include this section in the output”) is now taken over when a section reference is created.</p> <p>Further information can be found in chapter “SiteArchitect: Section references: Takeover of the output state”.</p>



8.14 Java

ID	Description
CORE-14190	The latest FirstSpirit release includes the official release for the use of Java 17 with FirstSpirit. At the time, the support for Java 16 is discontinued. Further information can be found in chapter “Administration: Release of Java 17”.

8.15 Support for JSON

ID	Description
CORE-14214	In the JSON output, the date is now always output in the unabbreviated format including seconds and milliseconds. Example: "2022-02-14T08:32:00.000Z"

8.16 Launcher

ID	Description
CORE-14046	Modules and extensions for FirstSpirit 2022.3. Further information can be found in chapter “Administration: Modules and extensions for FirstSpirit 2022.3”.

8.17 Media

ID	Description
CXT-2506	A descriptive text can now also be stored for media in the FirstSpirit ContentCreator. Further information can be found in chapter “ContentCreator: Media: enter descriptive text”.



8.18 Media Store

ID	Description
CXT-2506	A descriptive text can now also be stored for media in the FirstSpirit ContentCreator. Further information can be found in chapter “ContentCreator: Media: enter descriptive text”.
CXT-2524	Some elements that were created new under the root node were not displayed directly in the tree view of the FirstSpirit ContentCreator.

8.19 Modules

ID	Description
CORE-14046	Modules and extensions for FirstSpirit 2022.3. Further information can be found in chapter “Administration: Modules and extensions for FirstSpirit 2022.3”.
CORE-14225	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

8.20 Monitoring

ID	Description
CORE-14067	Hiccups of the Java VM are now also registered by the Application Server on which the FirstSpirit web applications are running and logged in the <i>fs-server.log</i> file. Further information can be found in chapter “Administration: Web server: Recognition of JVM Hiccups”.
CORE-14191	The latest FirstSpirit release provides new MBeans. Further information can be found in chapter “Administration: Web server and web apps: New MBeans”.



ID	Description
CORE-14203	The statistic data that, for example, can be accessed in ServerMonitoring under “Monitoring/Codes” or “Activities” via the envelope icon is now also saved via a server restart.

8.21 Navigation view

ID	Description
CXT-2313	<p>The navigation bar in the FirstSpirit ContentCreator can now be configured via the <code>Navigation: Enabled</code> feature of the “Tailored UI”.</p> <p>Further information can be found in chapter “ContentCreator: Configuring the navigation bar via Tailored UI”.</p>
CXT-2370	<p>New sections can now also be created for content areas in the navigation bar of the FirstSpirit ContentCreator.</p> <p>And, the creation of sections can now be controlled separately for the navigation bar and the EasyEdit bar via the “Tailored UI”.</p> <p>Further information can be found in chapter “ContentCreator: Navigation bar: Creating sections”.</p>
CXT-2524	Some elements that were created new under the root node were not displayed directly in the tree view of the FirstSpirit ContentCreator.
CXT-2525	In rare cases it was possible that the navigation bar was displayed incorrectly in the FirstSpirit ContentCreator under macOS (error message: <code>org.apache.catalina.connector.ClientAbortException: java.io.IOException: Datenübergabe unterbrochen (broken pipe)</code>).
CXT-2530	An error has been eliminated that resulted in that the entire parts tree was marked recursively as changed in the ContentCreator when executing the action “Show in navigation menu” or “Hide in navigation menu”. Now, only the changed folder is marked accordingly.
CXT-2534	<p>In the navigation bar of the FirstSpirit ContentCreator, the “New section” function is now also available for sections that are based on a table template.</p> <p><u>Note:</u> It is still not possible to create sections in the ContentCreator that are based on a table template (“data section”).</p>



8.22 Permissions

ID	Description
CXT-2308	For the creation of new sections, the consideration of user permissions for sections that can be used as master copies has been improved.
CXT-2504	The permissions for deleting datasets are now also evaluated correctly in the FirstSpirit ContentCreator: Previously, datasets could only be deleted via the state display in case of special permissions configurations to the extent that a corresponding workflow was available. Now, deletion is also possible analogously via EasyEdit icon.
CXT-2521	The permission check when editing datasets via InEdit has been improved and now no longer leads to an <code>java.lang.IllegalArgumentException</code> if permissions are missing.
CXT-2522	The “Search” report now only displays elements in the search results list for which the editor has the “Visible” permission. Further information can be found in chapter “ContentCreator: Search: Only hits with Visible permission”.

8.23 Editor

ID	Description
CORE-12536	The evaluation and display of changes within the version comparison was improved for the FS_CATALOG input component.
CORE-14142	The state of the source section with respect to the output (“include this section in the output”) is now taken over when a section reference is created. Further information can be found in chapter “SiteArchitect: Section references: Takeover of the output state”.
CXT-1975	When creating a new page in the ContentCreator, the position of the new page is now initially visible in the navigation.
CXT-2288	When creating a new page in the ContentCreator, the selected options are now highlighted more clearly.
CXT-2308	For the creation of new sections, the consideration of user permissions for sections that can be used as master copies has been improved.



ID	Description
CXT-2313	<p>The navigation bar in the FirstSpirit ContentCreator can now be configured via the <code>Navigation: Enabled</code> feature of the “Tailored UI”.</p> <p>Further information can be found in chapter “ContentCreator: Configuring the navigation bar via Tailored UI”.</p>
CXT-2348	<p>A selection of the next editor is now possible when activating multiple workflows at the same time.</p>
CXT-2370	<p>New sections can now also be created for content areas in the navigation bar of the FirstSpirit ContentCreator.</p> <p>And, the creation of sections can now be controlled separately for the navigation bar and the EasyEdit bar via the “Tailored UI”.</p> <p>Further information can be found in chapter “ContentCreator: Navigation bar: Creating sections”.</p>
CXT-2374	<p>Switching languages in the form could incorrectly cause change recognition when the form contained one of the <code>FS_CATALOG</code>, <code>CMS_INPUT_IMAGE</code>, <code>CMS_INPUT_LINK</code> or <code>CMS_INPUT_PERMISSION</code> input components.</p>
CXT-2504	<p>The permissions for deleting datasets are now also evaluated correctly in the FirstSpirit ContentCreator: Previously, datasets could only be deleted via the state display in case of special permissions configurations to the extent that a corresponding workflow was available. Now, deletion is also possible analogously via EasyEdit icon.</p>
CXT-2506	<p>A descriptive text can now also be stored for media in the FirstSpirit ContentCreator.</p> <p>Further information can be found in chapter “ContentCreator: Media: enter descriptive text”.</p>
CXT-2509	<p>A deletion via workflow could result in a <code>java.lang.IllegalStateException</code> in the ContentCreator, the workflow was not executed and the element was not deleted.</p>
CXT-2510	<p>In rare cases, it was possible with open Media management or Data sources view, that the state display was incorrectly referencing the preview element.</p>
CXT-2520	<p>The deletion of a dataset now always leads to an update of the dataset view. In the past, some datasets continued to be displayed after the deletion.</p>
CXT-2521	<p>The permission check when editing datasets via InEdit has been improved and now no longer leads to an <code>java.lang.IllegalArgumentException</code> if permissions are missing.</p>



ID	Description
CXT-2524	Some elements that were created new under the root node were not displayed directly in the tree view of the FirstSpirit ContentCreator.
CXT-2525	In rare cases it was possible that the navigation bar was displayed incorrectly in the FirstSpirit ContentCreator under macOS (error message: <code>org.apache.catalina.connector.ClientAbortException: java.io.IOException: Datenübergabe unterbrochen (broken pipe)</code>).
CXT-2530	An error has been eliminated that resulted in that the entire parts tree was marked recursively as changed in the ContentCreator when executing the action “Show in navigation menu” or “Hide in navigation menu”. Now, only the changed folder is marked accordingly.
CXT-2534	In the navigation bar of the FirstSpirit ContentCreator, the “New section” function is now also available for sections that are based on a table template. <u>Note:</u> It is still not possible to create sections in the ContentCreator that are based on a table template (“data section”).

8.24 Server Administrator

ID	Description
CORE-14067	Hiccups of the Java VM are now also registered by the Application Server on which the FirstSpirit web applications are running and logged in the <i>fs-server.log</i> file. Further information can be found in chapter “Administration: Web server: Recognition of JVM Hiccups”.
CORE-14203	The statistic data that, for example, can be accessed in ServerMonitoring under “Monitoring/ Codes” or “Activities” via the envelope icon is now also saved via a server restart.
CORE-14220	An error has been eliminated that, in rare cases, could lead to unusually long generating actions due to an incorrect cache storage distribution.



8.25 ServerManager

ID	Description
CORE-14045	<p>As of the latest FirstSpirit release, some binary files (.jar) are no longer provided and must be replaced with their successors.</p> <p>Beyond that, FirstSpirit Server that are still operated in “Legacy mode” will no longer be updated to newer releases (fs-update tar.gz).</p> <p>Further information can be found in chapter “Administration: Omission of the 'Legacy mode': Legacy files will no longer be available”.</p>
CORE-14085	<p>An error has been fixed that could result in that in rare cases, not all required data was exported with project exports that had limits with respect to time or the number of revisions (“Only export more recent revisions” or “Limit number of exported revisions to”). This could result in errors after the import, such as incorrect parent/child relations.</p>
CORE-14131 CORE-14182	<p>The latest FirstSpirit release has implemented rework for the omission of the “InternalJetty”.</p> <p>Further information can be found in chapter “Administration: Web server: Rework for the removal of the InternalJetty”.</p>

8.26 ServerMonitoring

ID	Description
CORE-14045	<p>As of the latest FirstSpirit release, some binary files (.jar) are no longer provided and must be replaced with their successors.</p> <p>Beyond that, FirstSpirit Server that are still operated in “Legacy mode” will no longer be updated to newer releases (fs-update tar.gz).</p> <p>Further information can be found in chapter “Administration: Omission of the 'Legacy mode': Legacy files will no longer be available”.</p>
CORE-14131 CORE-14182	<p>The latest FirstSpirit release has implemented rework for the omission of the “InternalJetty”.</p> <p>Further information can be found in chapter “Administration: Web server: Rework for the removal of the InternalJetty”.</p>
CORE-14203	<p>The statistic data that, for example, can be accessed in ServerMonitoring under “Monitoring/ Codes” or “Activities” via the envelope icon is now also saved via a server restart.</p>



8.27 SiteArchitect

ID	Description
CORE-12536	The evaluation and display of changes within the version comparison was improved for the FS_CATALOG input component.
CORE-14142	<p>The state of the source section with respect to the output (“include this section in the output”) is now taken over when a section reference is created.</p> <p>Further information can be found in chapter “SiteArchitect: Section references: Takeover of the output state”.</p>

8.28 Search

ID	Description
CXT-2522	<p>The “Search” report now only displays elements in the search results list for which the editor has the “Visible” permission.</p> <p>Further information can be found in chapter “ContentCreator: Search: Only hits with Visible permission”.</p>

8.29 Version history

ID	Description
CORE-12536	The evaluation and display of changes within the version comparison was improved for the FS_CATALOG input component.

8.30 Template Store

ID	Description
CXT-2466	<p>Scripts in ContentCreator</p> <p>Further information can be found in chapter “ContentCreator: Making script functions available”.</p>



8.31 Template Development

ID	Description
CORE-12643	Queries can now be referenced directly in the <i>contentSelect</i> function. Further information can be found in chapter “Template development: contentSelect: Direct indication of queries”.
CXT-2466	Scripts in ContentCreator Further information can be found in chapter “ContentCreator: Making script functions available”.

8.32 Web server

ID	Description
CORE-14131	The latest FirstSpirit release has implemented rework for the omission of the “InternalJetty”.
CORE-14182	Further information can be found in chapter “Administration: Web server: Rework for the removal of the InternalJetty”.
CORE-14191	The latest FirstSpirit release provides new MBeans. Further information can be found in chapter “Administration: Web server and web apps: New MBeans”.

