



# FirstSpirit™

*Unlock Your Content*

## Release Notes

### FirstSpirit™ 2022.8

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Department	FS-Core
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#### e-Spirit GmbH

Stockholmer Allee 24  
44269 Dortmund | Germany

T +49 231 . 477 77-0  
F +49 231 . 477 77-499

[info@e-Spirit.com](mailto:info@e-Spirit.com)  
[www.e-Spirit.com](http://www.e-Spirit.com)

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## 1 Administration

### 1.1 Update of internally used software

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

- **Spring Boot**  
Update to version 2.7.0
- **ASM** (library for analyzing and modifying Java byte code)  
Update to version 9.3

### 1.2 Announcement: Java 11, 17 and Jakarta

As of Release 2022.3, **Java 17** has been officially approved for use with FirstSpirit. Java 11 continues to be the reference at this time. For the manufacturer, Java 17 is the LTS (Long-Term-Support) version, support for Java 11 is scheduled to end in September 2023.

In general, FirstSpirit only supports the last LTS version of OpenJDK and Oracle Java as well as the currently released version of OpenJDK. Furthermore, some of the third-party software components used by FirstSpirit will no longer run with Java 11 at the end of 2022 (e.g., Spring Boot 3.0, Jakarta/Java EE). FirstSpirit will then only run with Java 17.

If it has not already happened, e-Spirit therefore recommends that customers and partners switch to Java 17 as soon as possible. At present, there are no known problems related to the use of Java 17 with FirstSpirit. However, Java 17 should initially be used on test systems and potential problems should promptly be reported to e-Spirit.

The plan is to discontinue the support for a use of Java 11 with FirstSpirit at the end of 2022 and indicate Java 17 as a reference version.

In addition, it is planned at a later date to switch from Java EE to Jakarta EE, as some third-party software components used by FirstSpirit will no longer be executable with Java EE in their future versions (e.g. Spring Boot 3.0, Tomcat 10). This will only become relevant once FirstSpirit is switched to these newer versions. This switch will change the namespace (package) for all implemented APIs from `javax.*` to `jakarta.*`, e.g. `javax.servlet.Servlet` would become `jakarta.servlet.Servlet`. This also means a conversion of customer-specific modules, but is independent of the above-mentioned



changeover to Java 17. No action is currently required here, a migration path will be communicated in good time.

### 1.3 Interface UrlFactory: new parameter readOnlyRegistry

All classes that implement the `UrlFactory` interface can now be configured with an additional parameter:

The new parameter

```
readOnlyRegistry
```

enables the pure Read use of URLs stored in the registry. New URLs are not stored after setting this parameter and deleted URLs are not removed.

With this method, it is possible to check if a URL already exists in the registry to use it. No new URLs are added to it. For example, this parameter can thereby be used for generations that are not intended to generate permanent URLs (e.g., generations of the current state to a test server).

To activate the Read-only mode, the value `true` must be transferred.

Example:

```
factorySettings = new HashMap();  
factorySettings.put("readOnlyRegistry", "true");  
factorySettings.put("useWelcomeFileNames", "true");  
factorySettings.put("stripWelcomeFileNames", "true");  
context.setProperty("#urlCreatorSettings", factorySettings);
```

The `readOnlyRegistry` parameter overwrites the `useRegistry` and `removeDeleted` parameters (value: `false`), if they are set.

## 2 ContentCreator

### 2.1 Creating section references

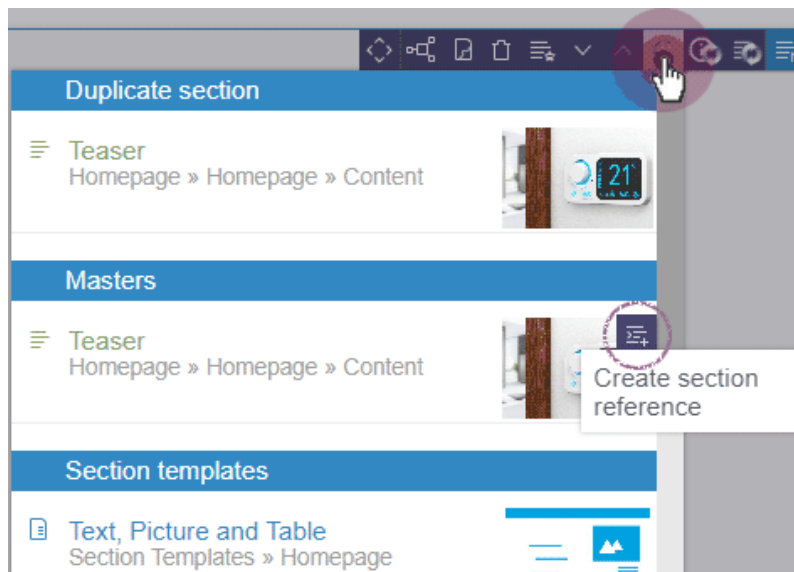
Section references can be used in FirstSpirit to conveniently use contents over multiple pages.

Different from a copy, the changes to section references (or the so-called “source section”) affect all referenced sections at the same time.



Previously, section references could only be generated via FirstSpirit SiteArchitect. With the latest release, section references can now also be created in the FirstSpirit ContentCreator.

This action is available in the navigation and in the preview under master copies in the “New section” dialog.



For more information, see also <https://docs.e-spirit.com/contentcreator/editing-preview/sections/index.html>.

The icon can be hidden via “Tailored UI”.

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

### 3 FirstSpirit Content Experience Tools (CXT)

#### 3.1 Latest module versions

FirstSpirit 2022.8 supports the following module versions for “FirstSpirit Content Experience Tools”.

Module / file name	Version number
FirstSpirit CXT Plattform platform-[version].fsm	2.5.6



FirstSpirit CXT DAP Bridge	1.44.7
dataservice-[version].fsm	
FirstSpirit CXT FragmentCreator	3.4.10
fragment-creator-[version].fsm	
FirstSpirit Fragment DAP	1.40.11
fragmentdap-[version].fsm	
FirstSpirit Media DAP	1.31.6*
mediadap-[version].fsm	
FirstSpirit PageRef DAP	1.9.6
pagerefdap-[version].fsm	
FirstSpirit Markdown Editor	1.29.5*
markdown-editor-[version].fsm	
FirstSpirit Tagging Editor	1.29.5
tagging-editor-[version].fsm	
FirstSpirit CXT FragmentCreator - CaaS	1.31.6
Integration	
caas-integration-[version].fsm	

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

## 4 SiteArchitect / ServerManager

### 4.1 Module FirstSpirit Launcher JRE: Java version update

The FirstSpirit desktop apps (FirstSpirit SiteArchitect and ServerManager) are started and updated (rolled out) via the **FirstSpirit Launcher**.

The “**FirstSpirit Launcher JRE**” module enables customers and partners to easily switch between different Java versions for the operation of Java-based applications. The desired Java version can be selected server-wide for Microsoft Windows and macOS separately.

For documentation on the “FirstSpirit Launcher JRE” module see “FirstSpirit Launcher JRE” under *FirstSpirit Online Documentation*, [Documentation / For administrators](#).

**The included Java versions have been updated with the current release:** In addition to the version delivered with the FirstSpirit Launcher, AdoptOpenJDK 11.0.11 “(Default)”, the Java variants **Eclipse Temurin 17.0.3** are currently available.





## 5 Deprecations

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

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

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



Functionality	Deprecated as of	Will be removed/ Was removed as of
FirstSpirit Developer API: remainingDurationOfCurrentStageInMillis (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Access API: getSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: setSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: getSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Access API: setSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Developer API: getLostAndFoundStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Developer API: getDeletedStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Access API: de.espirit.firstspirit.access.store.Previewable	2019-01	
WebSphere Application Server support for FirstSpirit	2019-05	
Control files for Windows and Linux operating systems (old)	2020-08	
Database layer for Oracle Database 11g/12c	2020-12	
FirstSpirit Developer API: redirectTemplateLogToDefaultLog() (Interface RenderingAgent.Renderer)	2021-05	



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

## 6 Overview

ID	Description	Categories
CORE-14223	An error has been fixed, which could result in that exceptions on the front end that occur with a new creation and modification of images were not correctly displayed. Corresponding exceptions are now passed through to the front end.	Debugging, FirstSpirit Administrator, Logging, Media
CORE-14414	Interface <code>UrlFactory</code> : New parameter <code>readOnlyRegistry</code>  Further information can be found in chapter “Administration: Interface <code>UrlFactory</code> : new parameter <code>readOnlyRegistry</code> ”.	Advanced URL, Developer, FirstSpirit Administrator, Generation
CORE-14448	In rare cases, the form could be displayed incorrectly in the FirstSpirit ContentCreator if special characters were used in the link text within the <code>CMS_INPUT_DOM</code> input component.	ContentCreator
CORE-14470	For the integrated “Jetty Web Server”, which is not suitable for use in production environments, a few insecure encryptions and protocols were locked for HTTPS use.  This web server should only be used as a fallback (in an “aggregating web server”) or for tests.	FirstSpirit Administrator, Security, Web server
CORE-14482	Errors in schedules that cause a <code>FATAL</code> message to be logged (e.g., Beanshell scripts with invalid syntax or a <code>java.lang.InterruptedException</code> ) now no longer cause the server to be classified in the <code>ServerMonitoring</code> or in the <code>MBean HealthManager</code> as <i>degraded</i> .	Debugging, FirstSpirit Administrator, Health Center, <code>ServerMonitoring</code> , Tasks



ID	Description	Categories
CORE-14490	<p>When loading modules, the resources are now checked and in the case of at least one legacy resource this is now logged with a WARN message (<code>Legacy resource found in module 'myMod'</code>).</p> <p>During the deployment of web apps it is also checked whether the “FirstSpirit WebApp Compatibility Module” is used. If so, this is also logged with a WARN message (<code>Web compatibility module used for web-app 'myWebApp'</code>).</p>	FirstSpirit Administrator, Isolated mode
CORE-14491	<p>The plan is to discontinue the use of Java 11 with FirstSpirit at the end of 2022 and indicate Java 17 as a reference version.</p> <p>Further information can be found in chapter “Administration: Announcement: Java 11, 17 and Jakarta”.</p>	Developer, FirstSpirit Administrator, Java, Module development, ServerManager, SiteArchitect
CORE-14501	<p>With the current release, the Java versions contained in the “FirstSpirit Launcher JRE” module have been updated.</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: Module FirstSpirit Launcher JRE: Java version update”.</p>	Launcher
CORE-14506	<p>When cropping an image in the FirstSpirit ContentCreator, the consideration of the defined image format was optimised.</p>	ContentCreator, FirstSpirit Administrator, Media, Media Store
CORE-14516	<p>Performance improvement in audit logging when a schedule is changed.</p>	FirstSpirit Administrator
CORE-14523	<p>FirstSpirit Content Experience Tools: Latest module versions</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.</p>	Developer, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), FragmentCreator, Modules
CXT-2618	<p>The possibility for height adjustment of the input component “Rich-Text-Editor” (<code>CMS_INPUT_DOM</code>) was adjusted to the other input components with this function (icon, position and also the touch area).</p>	ContentCreator



ID	Description	Categories
CXT-2627	The display of the active selection when adding entries in an FS_INDEX input component has been adapted to existing selection lists of this type.	ContentCreator
CXT-2629	Section references can now be created in the FirstSpirit ContentCreator.  Further information can be found in chapter “ContentCreator: Creating section references”.	ContentCreator, Editor
CXT-2631	The use of the Fragment Data Access Plugin in the FirstSpirit ContentCreator caused sessions that required a licence and were not automatically closed again.	ContentCreator, Performance, Server Administrator, Sessions
CXT-2633 CORE-14476	Update of internally used software  Further information can be found in chapter “Administration: Update of internally used software”.	Integrated software

## 7 Categories

### 7.1 Advanced URL

ID	Description
CORE-14414	Interface <code>UrlFactory</code> : New parameter <code>readOnlyRegistry</code>  Further information can be found in chapter “Administration: Interface <code>UrlFactory</code> : new parameter <code>readOnlyRegistry</code> ”.

### 7.2 Tasks

ID	Description
CORE-14482	Errors in schedules that cause a <code>FATAL</code> message to be logged (e.g., Beanshell scripts with invalid syntax or a <code>java.lang.InterruptedExcepcion</code> ) now no longer cause the server to be classified in the <code>ServerMonitoring</code> or in the <code>MBean HealthManager</code> as <i>degraded</i> .



## 7.3 ContentCreator

ID	Description
CORE-14448	In rare cases, the form could be displayed incorrectly in the FirstSpirit ContentCreator if special characters were used in the link text within the CMS_INPUT_DOM input component.
CORE-14506	When cropping an image in the FirstSpirit ContentCreator, the consideration of the defined image format was optimised.
CXT-2618	The possibility for height adjustment of the input component “Rich-Text-Editor” (CMS_INPUT_DOM) was adjusted to the other input components with this function (icon, position and also the touch area).
CXT-2627	The display of the active selection when adding entries in an FS_INDEX input component has been adapted to existing selection lists of this type.
CXT-2629	Section references can now be created in the FirstSpirit ContentCreator.  Further information can be found in chapter “ContentCreator: Creating section references”.
CXT-2631	The use of the Fragment Data Access Plugin in the FirstSpirit ContentCreator caused sessions that required a licence and were not automatically closed again.

## 7.4 Debugging

ID	Description
CORE-14223	An error has been fixed, which could result in that exceptions on the front end that occur with a new creation and modification of images were not correctly displayed. Corresponding exceptions are now passed through to the front end.
CORE-14482	Errors in schedules that cause a FATAL message to be logged (e.g., Beanshell scripts with invalid syntax or a <code>java.lang.InterruptedExcePtion</code> ) now no longer cause the server to be classified in the ServerMonitoring or in the MBean <i>HealthManager</i> as <i>degraded</i> .

## 7.5 Developer

ID	Description
CORE-14414	Interface <code>UrlFactory</code> : New parameter <code>readOnlyRegistry</code>



ID	Description
	Further information can be found in chapter “Administration: Interface UrlFactory: new parameter readOnlyRegistry”.
CORE-14491	The plan is to discontinue the use of Java 11 with FirstSpirit at the end of 2022 and indicate Java 17 as a reference version.  Further information can be found in chapter “Administration: Announcement: Java 11, 17 and Jakarta”.
CORE-14523	FirstSpirit Content Experience Tools: Latest module versions  Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

## 7.6 FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-14523	FirstSpirit Content Experience Tools: Latest module versions  Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

## 7.7 FirstSpirit Administrator

ID	Description
CORE-14223	An error has been fixed, which could result in that exceptions on the front end that occur with a new creation and modification of images were not correctly displayed. Corresponding exceptions are now passed through to the front end.
CORE-14414	Interface <code>UrlFactory</code> : New parameter <code>readOnlyRegistry</code>  Further information can be found in chapter “Administration: Interface UrlFactory: new parameter readOnlyRegistry”.
CORE-14470	For the integrated “Jetty Web Server”, which is not suitable for use in production environments, a few insecure encryptions and protocols were locked for HTTPS use.



ID	Description
	This web server should only be used as a fallback (in an “aggregating web server”) or for tests.
CORE-14482	Errors in schedules that cause a <code>FATAL</code> message to be logged (e.g., Beanshell scripts with invalid syntax or a <code>java.lang.InterruptedExce</code> ) now no longer cause the server to be classified in the <code>ServerMonitoring</code> or in the <code>MBean HealthManager</code> as <i>degraded</i> .
CORE-14490	<p>When loading modules, the resources are now checked and in the case of at least one legacy resource this is now logged with a <code>WARN</code> message (<code>Legacy resource found in module 'myMod'</code>).</p> <p>During the deployment of web apps it is also checked whether the “FirstSpirit WebApp Compatibility Module” is used. If so, this is also logged with a <code>WARN</code> message (<code>web compatibility module used for web-app 'myWebApp'</code>).</p>
CORE-14491	<p>The plan is to discontinue the use of Java 11 with FirstSpirit at the end of 2022 and indicate Java 17 as a reference version.</p> <p>Further information can be found in chapter “Administration: Announcement: Java 11, 17 and Jakarta”.</p>
CORE-14506	When cropping an image in the FirstSpirit ContentCreator, the consideration of the defined image format was optimised.
CORE-14516	Performance improvement in audit logging when a schedule is changed.
CORE-14523	<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>

## 7.8 FragmentCreator

ID	Description
CORE-14523	<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>





## 7.9 Generation

ID	Description
CORE-14414	<p>Interface <code>UrlFactory</code>: New parameter <code>readOnlyRegistry</code></p> <p>Further information can be found in chapter “Administration: Interface <code>UrlFactory</code>: new parameter <code>readOnlyRegistry</code>”.</p>

## 7.10 Health Center

ID	Description
CORE-14482	<p>Errors in schedules that cause a <code>FATAL</code> message to be logged (e.g., Beanshell scripts with invalid syntax or a <code>java.lang.InterruptedExce</code>) now no longer cause the server to be classified in the <code>ServerMonitoring</code> or in the <code>MBean HealthManager</code> as <i>degraded</i>.</p>

## 7.11 Integrated software

ID	Description
CXT-2633	Update of internally used software
CORE-14476	Further information can be found in chapter “Administration: Update of internally used software”.

## 7.12 Isolated mode

ID	Description
CORE-14490	<p>When loading modules, the resources are now checked and in the case of at least one legacy resource this is now logged with a <code>WARN</code> message (<code>Legacy resource found in module 'myMod'</code>).</p> <p>During the deployment of web apps it is also checked whether the “FirstSpirit WebApp Compatibility Module” is used. If so, this is also logged with a <code>WARN</code> message (<code>web compatibility module used for web-app 'myWebApp'</code>).</p>



## 7.13 Java

ID	Description
CORE-14491	<p>The plan is to discontinue the use of Java 11 with FirstSpirit at the end of 2022 and indicate Java 17 as a reference version.</p> <p>Further information can be found in chapter “Administration: Announcement: Java 11, 17 and Jakarta”.</p>

## 7.14 Launcher

ID	Description
CORE-14501	<p>With the current release, the Java versions contained in the “FirstSpirit Launcher JRE” module have been updated.</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: Module FirstSpirit Launcher JRE: Java version update”.</p>

## 7.15 Logging

ID	Description
CORE-14223	<p>An error has been fixed, which could result in that exceptions on the front end that occur with a new creation and modification of images were not correctly displayed.</p> <p>Corresponding exceptions are now passed through to the front end.</p>

## 7.16 Media

ID	Description
CORE-14223	<p>An error has been fixed, which could result in that exceptions on the front end that occur with a new creation and modification of images were not correctly displayed.</p> <p>Corresponding exceptions are now passed through to the front end.</p>



ID	Description
CORE-14506	When cropping an image in the FirstSpirit ContentCreator, the consideration of the defined image format was optimised.

## 7.17 Media Store

ID	Description
CORE-14506	When cropping an image in the FirstSpirit ContentCreator, the consideration of the defined image format was optimised.

## 7.18 Module development

ID	Description
CORE-14491	The plan is to discontinue the use of Java 11 with FirstSpirit at the end of 2022 and indicate Java 17 as a reference version.  Further information can be found in chapter “Administration: Announcement: Java 11, 17 and Jakarta”.

## 7.19 Modules

ID	Description
CORE-14523	FirstSpirit Content Experience Tools: Latest module versions  Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.



## 7.20 Performance

ID	Description
CXT-2631	The use of the Fragment Data Access Plugin in the FirstSpirit ContentCreator caused sessions that required a licence and were not automatically closed again.

## 7.21 Editor

ID	Description
CXT-2629	Section references can now be created in the FirstSpirit ContentCreator.  Further information can be found in chapter “ContentCreator: Creating section references”.

## 7.22 Server Administrator

ID	Description
CXT-2631	The use of the Fragment Data Access Plugin in the FirstSpirit ContentCreator caused sessions that required a licence and were not automatically closed again.

## 7.23 ServerManager

ID	Description
CORE-14491	The plan is to discontinue the use of Java 11 with FirstSpirit at the end of 2022 and indicate Java 17 as a reference version.  Further information can be found in chapter “Administration: Announcement: Java 11, 17 and Jakarta”.



## 7.24 ServerMonitoring

ID	Description
CORE-14482	Errors in schedules that cause a <code>FATAL</code> message to be logged (e.g., Beanshell scripts with invalid syntax or a <code>java.lang.InterruptedExce</code> ) now no longer cause the server to be classified in the <code>ServerMonitoring</code> or in the <code>MBean HealthManager</code> as <i>degraded</i> .

## 7.25 Security

ID	Description
CORE-14470	For the integrated “Jetty Web Server”, which is not suitable for use in production environments, a few insecure encryptions and protocols were locked for HTTPS use. This web server should only be used as a fallback (in an “aggregating web server”) or for tests.

## 7.26 SiteArchitect

ID	Description
CORE-14491	The plan is to discontinue the use of Java 11 with FirstSpirit at the end of 2022 and indicate Java 17 as a reference version.  Further information can be found in chapter “Administration: Announcement: Java 11, 17 and Jakarta”.

## 7.27 Sessions

ID	Description
CXT-2631	The use of the Fragment Data Access Plugin in the FirstSpirit ContentCreator caused sessions that required a licence and were not automatically closed again.



## 7.28 Web server

ID	Description
CORE-14470	For the integrated “Jetty Web Server”, which is not suitable for use in production environments, a few insecure encryptions and protocols were locked for HTTPS use. This web server should only be used as a fallback (in an “aggregating web server”) or for tests.

