



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2023.2

Status	RELEASED
Department	FS-Core
Copyright	2023 Crownpeak Technology GmbH

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1 Administration

1.1 Update of internally used software

As of the release 2023.2, the following internally used software has been updated.

- **Apache Commons IO** (library with operations for file inputs and outputs)
Update from version 1.3.2 to version 2.11.0
- **Apache Commons Lang**
Update to version 3.12.0
- **Java** (JRE, with which the desktop clients SiteArchitect and ServerManager are operated)
Integrated in FirstSpirit (standard): 17.0.5+8 64bit AdoptOpenJDK

As of the release 2023.3, the following internally used software will be updated.

- **Gson** (2.8.0 --> 2.10)
- **metadata-extractor** (2.11.0 --> 2.18.0)
- **Apache POI** (3.7 --> 5.2.2)
- **commons-codec** (1.11 --> 1.15)
- **commons-collections** (4.1 --> 4.4)
- **commons-math** (3.6.1, new)
- **xmlbeans** (2.5.0 --> 5.0.3)
- **dom4j** (1.6.1 --> no longer used)





Modules that still use “Legacy Mode” and the library accessible (in this mode) via FirstSpirit may need to be adapted accordingly.

Note: Since “Legacy Mode” is no longer supported, affected modules should be switched to “Isolated Mode” if possible (see <https://docs.e-spirit.com/odfs/edocs/modd/module-developm/index.html>).

1.2 FirstSpirit-Server with Java 17 or up: add-opens start parameters

If the FirstSpirit ContentCreator was run with an application server on Java 17 or newer, this could lead to problems with creating new sections or editing existing ones.

To resolve this, it is necessary to use the following parameter:

```
--add-opens=java.base/java.lang=ALL-UNNAMED
```

The parameter has been added to the `fs-wrapper-vendor.conf` file. After a FirstSpirit server update, it is available automatically.

The start parameters of external application servers (e.g. Tomcat) need to be complemented with the `--add-opens` parameters found in the `fs-wrapper-vendor.conf` file.

1.3 Java 17 for the launch of FirstSpirit desktop applications

Java 17 is now used by default to start the FirstSpirit desktop applications (ServerManager, SiteArchitect).

1.4 Linux server settings: improved file handle monitoring

If the operating system ran out of free file handles for the user for which the FirstSpirit server was operated, this led to severe follow-up problems.

The server settings for Linux-based operating systems have now been edited in the `fs-server.conf` file to prevent such problems:

- The Open Files are being checked every 60 seconds.



- As soon as the warning limit is surpassed (pre-setting: 90%), the server receives the “Degraded” status.
- As soon as the shutdown limit is surpassed (pre-setting: 95%), the server is being shut down.
- The server administrator is notified via e-mail about a surpassed limit.

Default values of the fs-server.conf file:

```
# open files warning limit
files.limit.percent=90
files.limit.active=true
# open files shutdown limit
files.shutdown.percent=95
files.shutdown.active=true
```

You can check the Open Files in the “HealthManager MBeans” using the entries `maxFileHandles` and `openFileHandles`.

2 General

2.1 Behavior in case of DAP implementation errors in JSON rendering

So far, JSON generation has been cancelled if implementation errors in the Data Access Plugin occurred.

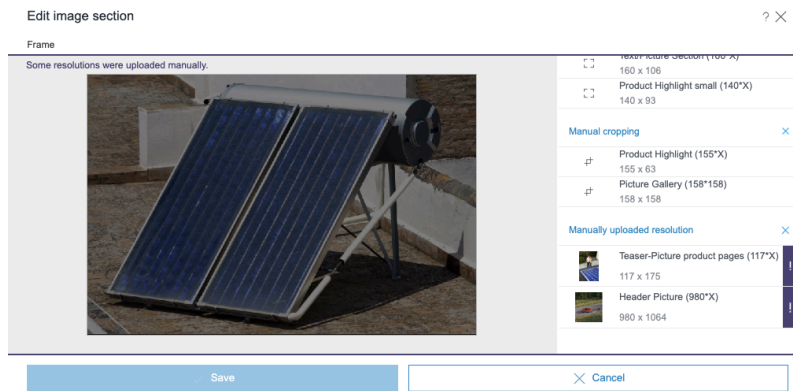
JSON generation is now continued even if DAP errors occur. The error is output as a JSON error object.

3 ContentCreator

3.1 Cropping dialogue: Reset all manual croppings

Manual croppings can be reset for the complete group. Resolutions that have been uploaded manually are highlighted with an exclamation mark and can also be reset as a group.





4 FirstSpirit Content Experience Tools (CXT)

4.1 Latest module versions

FirstSpirit 2023.2 supports the following module versions for “FirstSpirit Content Experience Tools”.

Module / file name	Version number
FirstSpirit CXT Plattform	3.0.2
platform-[version].fsm	
FirstSpirit CXT DAP Bridge	1.44.10
dataservice-[version].fsm	
FirstSpirit CXT FragmentCreator	4.0.2
fragment-creator-[version].fsm	
FirstSpirit Fragment DAP	1.40.15
fragmentdap-[version].fsm	
FirstSpirit Media DAP	1.31.9*
mediadap-[version].fsm	
FirstSpirit PageRef DAP	1.9.9
pagerefdap-[version].fsm	
FirstSpirit Markdown Editor	1.29.8*
markdown-editor-[version].fsm	
FirstSpirit Tagging Editor	1.29.8
tagging-editor-[version].fsm	
FirstSpirit CXT FragmentCreator - CaaS Integration	1.31.9
caas-integration-[version].fsm	



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

4.2 The management page is only accessible for server or project administrators

From FirstSpirit Release 2022.13 it is possible to configure the availability of MicroApps via the management page.

This management page is accessible under

```
/management
```

(appended to the URL of the platform), e.g.

```
http://myServer:8080/cxt-platform/management
```

Previously, the management page was only accessible to server administrators.

With the current release, the page is also accessible for project administrators.

Installation / Modules / Installing modules / Platform (→Documentation “Content Experience Tools”)

5 SiteArchitect / ServerManager

5.1 Warning limits and shutdown limits with absolute values

Threshold values for free disk space can be defined in the global server settings (FirstSpirit ServerManager) or using the parameters `hdd.limit` and `hdd.shutdown` (`fs-server.conf`). When these values are surpassed, an e-mail is sent to the server administrator. If the shutdown limit is surpassed, the FirstSpirit server is shut down.

So far, the threshold value could only be set as a disk space percentage.

With the current release, the free disk space can be set as an absolute value instead of the percentage.

Note:



Values under 100 are interpreted as a percentage setting:

- `hdd.shutdown=1073741824`: shutdown limit at 1 GiB remaining disk space
- `hdd.shutdown=97`: shutdown limit at 97% of the total disk space

For absolute values' settings, you can also use `m` (MiB), `g` (GiB) and `t` (TiB):

- `hdd.shutdown=2g`: shutdown limit at 2 GiB remaining disk space

Note:

- Technically smallest possible shutdown limit setting for remaining disk drive: 512 MiB
- Recommended shutdown limit setting for remaining disk drive: 95%, minimum 2 GiB

The threshold values can also be defined via API (FirstSpirit access API, package `de.espirit.firstspirit.server.configuration`). The previous methods have been deprecated and replaced by new ones. Now, the threshold values are transferred as `String`.

6 Template development

6.1 No use of spaces in table names

So far, when creating or editing a table in a database schema, it was possible to use spaces in the table name. With spaces in table names, it was possible that no results were found when searching the corresponding table's data source.

With the current release, you cannot use spaces in table names any longer when creating new tables or editing existing ones in the GUI.

Note: The names of existing tables have not been adjusted and still are considered correct even if spaces in the table name do exist. When changing the table name, you will need to delete such spaces.

7 Deprecations

For e-Spirit, an important goal in software development is to avoid introducing incompatibilities and migration expenditures related to updating from one FirstSpirit release to the next as much as possible



or to compensate for these within the software. FirstSpirit updates should generally be deployable with little effort or able to be carried out in a fully automated fashion.

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

Functionality	Deprecated as of	Will be removed/ Was removed as of
Input component 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	
FirstSpirit Developer API: remainingDurationOfCurrentStageInMillis (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModelInfo)	2018-07	



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



8 Overview

ID	Description	Categories
CORE-10462	<p>When creating or editing a table, spaces can no longer be used in the table name.</p> <p>Further information can be found in chapter “Template development: No use of spaces in table names”.</p>	Template Development
CORE-12729	The log level of most messages in the <code>fs-server.log</code> that refer to ClassLoading has been changed from <code>DEBUG</code> to <code>TRACE</code> .	Logging, Server Administrator
CORE-14359 CXT-2771	The display logic for contextless workflows will be now respected.	Workflow
CORE-14446	<p>JSON generation continuation in case of DAP errors</p> <p>Further information can be found in chapter “General: Behavior in case of DAP implementation errors in JSON rendering”.</p>	Support for JSON
CORE-14472 CORE-14475 CORE-14951 CORE-15003	<p>Update of internally used software</p> <p>Further information can be found in chapter “Administration: Update of internally used software”.</p>	Integrated software
CORE-14855	<p>Possibility to set shutdown limits regarding remaining hard disk space as absolute values</p> <p>Further information can be found in chapter “SiteArchitect / ServerManager: Warning limits and shutdown limits with absolute values”.</p>	ServerManager
CORE-14951	<p>With the current FirstSpirit release, Java 17 is now used as standard for launching the FirstSpirit desktop applications.</p> <p>Further information can be found in chapter “Administration: Java 17 for the launch of FirstSpirit desktop applications”.</p>	Java, Launcher, ServerManager, SiteArchitect
CORE-14981	The loading of the module overview in the server properties (FirstSpirit ServerManager) has been optimised.	Server Administrator



ID	Description	Categories
CORE-15017	<p>Problems with creating and editing sections in FirstSpirit ContentCreator with Java 17 resolved</p> <p>Further information can be found in chapter “Administration: FirstSpirit-Server with Java 17 or up: add-opens start parameters”.</p>	Server Administrator
CORE-15025	<p>An automated switching-off mechanism has been implemented for Linux servers to enhance the monitoring of available file handles</p> <p>Further information can be found in chapter “Administration: Linux server settings: improved file handle monitoring”.</p>	Server Administrator
CORE-15036	<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>	FirstSpirit Content Experience Tools (CXT)
CXT-2721	<p>Manual croppings can be reset for the complete group.</p> <p>Further information can be found in chapter “ContentCreator: Cropping dialogue: Reset all manual croppings”.</p>	ContentCreator
CXT-2757	<p>The management page is now also accessible for project administrators.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): The management page is only accessible for server or project administrators”.</p>	FirstSpirit Content Experience Tools (CXT)
CXT-2770	<p>Visibility rules in forms were in rare cases not evaluated correctly when opening the dialog.</p>	ContentCreator, Dynamic Forms

9 Categories

9.1 Workflow

ID	Description
CORE-14359	The display logic for contextless workflows will be now respected.



ID	Description
CXT-2771	

9.2 ContentCreator

ID	Description
CXT-2721	Manual croppings can be reset for the complete group. Further information can be found in chapter “ContentCreator: Cropping dialogue: Reset all manual croppings”.
CXT-2770	Visibility rules in forms were in rare cases not evaluated correctly when opening the dialog.

9.3 Dynamic Forms

ID	Description
CXT-2770	Visibility rules in forms were in rare cases not evaluated correctly when opening the dialog.

9.4 FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-15036	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.
CXT-2757	The management page is now also accessible for project administrators. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): The management page is only accessible for server or project administrators”.



9.5 Integrated software

ID	Description
CORE-14472	Update of internally used software
CORE-14475	
CORE-14951	Further information can be found in chapter “Administration: Update of internally used software”.
CORE-15003	

9.6 Java

ID	Description
CORE-14951	With the current FirstSpirit release, Java 17 is now used as standard for launching the FirstSpirit desktop applications. Further information can be found in chapter “Administration: Java 17 for the launch of FirstSpirit desktop applications”.

9.7 Support for JSON

ID	Description
CORE-14446	JSON generation continuation in case of DAP errors Further information can be found in chapter “General: Behavior in case of DAP implementation errors in JSON rendering”.

9.8 Launcher

ID	Description
CORE-14951	With the current FirstSpirit release, Java 17 is now used as standard for launching the FirstSpirit desktop applications. Further information can be found in chapter “Administration: Java 17 for the launch of FirstSpirit desktop applications”.



9.9 Logging

ID	Description
CORE-12729	The log level of most messages in the <code>fs-server.log</code> that refer to ClassLoading has been changed from <code>DEBUG</code> to <code>TRACE</code> .

9.10 Server Administrator

ID	Description
CORE-12729	The log level of most messages in the <code>fs-server.log</code> that refer to ClassLoading has been changed from <code>DEBUG</code> to <code>TRACE</code> .
CORE-14981	The loading of the module overview in the server properties (FirstSpirit ServerManager) has been optimised.
CORE-15017	Problems with creating and editing sections in FirstSpirit ContentCreator with Java 17 resolved Further information can be found in chapter “Administration: FirstSpirit-Server with Java 17 or up: add-opens start parameters”.
CORE-15025	An automated switching-off mechanism has been implemented for Linux servers to enhance the monitoring of available file handles Further information can be found in chapter “Administration: Linux server settings: improved file handle monitoring”.

9.11 ServerManager

ID	Description
CORE-14855	Possibility to set shutdown limits regarding remaining hard disk space as absolute values Further information can be found in chapter “SiteArchitect / ServerManager: Warning limits and shutdown limits with absolute values”.
CORE-14951	With the current FirstSpirit release, Java 17 is now used as standard for launching the FirstSpirit desktop applications.



ID	Description
	Further information can be found in chapter “Administration: Java 17 for the launch of FirstSpirit desktop applications”.

9.12 SiteArchitect

ID	Description
CORE-14951	With the current FirstSpirit release, Java 17 is now used as standard for launching the FirstSpirit desktop applications. Further information can be found in chapter “Administration: Java 17 for the launch of FirstSpirit desktop applications”.

9.13 Template Development

ID	Description
CORE-10462	When creating or editing a table, spaces can no longer be used in the table name. Further information can be found in chapter “Template development: No use of spaces in table names”.

