



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2023.4

Status	RELEASED
Department	FS-Core
Copyright	2023 Crownpeak Technology GmbH

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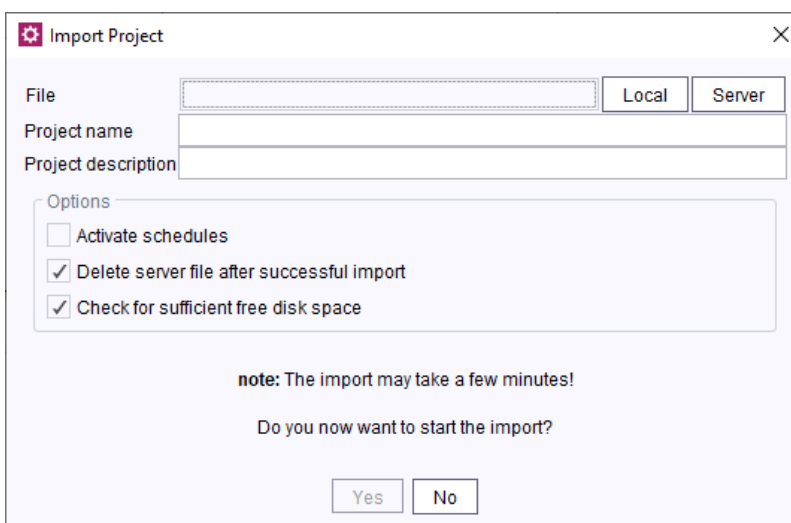


1 Administration

1.1 Automatic deletion of export file

When importing projects, the default setting was so far to keep the export file on the server. Deleting it needed to be done either manually or actively set for an automatic deletion.

Now, the option to automatically delete the export file after the import completion is active by default. This results in the disk space to be available immediately after the import is completed.



Import Project

File Local Server

Project name

Project description

Options

- Activate schedules
- Delete server file after successful import
- Check for sufficient free disk space

note: The import may take a few minutes!

Do you now want to start the import?

Yes No

2 Administration / Modules

2.1 Web compatibility module discontinued

The web compatibility module (`fs-web-compatibility.fsm`) ensures the operation of existing web applications requiring the presence of external classes in `fs-webrt.jar` in the process of moving to an isolated server. Additionally, the module contains dependencies which are no longer available in `fs-isolated-webrt.jar`.

Currently, the module is used only extremely rarely and has been updated only in exceptional cases lately, as announced.

The module will no longer be distributed starting with the current FirstSpirit version.





If the module is required, it is still possible to use an old version without any issues.

More **information**: *Modules: Ensuring compatibility (→Isolated Mode Guide)*, “Modules with WebApp Components” chapter.

3 ContentCreator

3.1 Using structure variables in ContentCreator

Structure variables can now be edited inside ContentCreator.

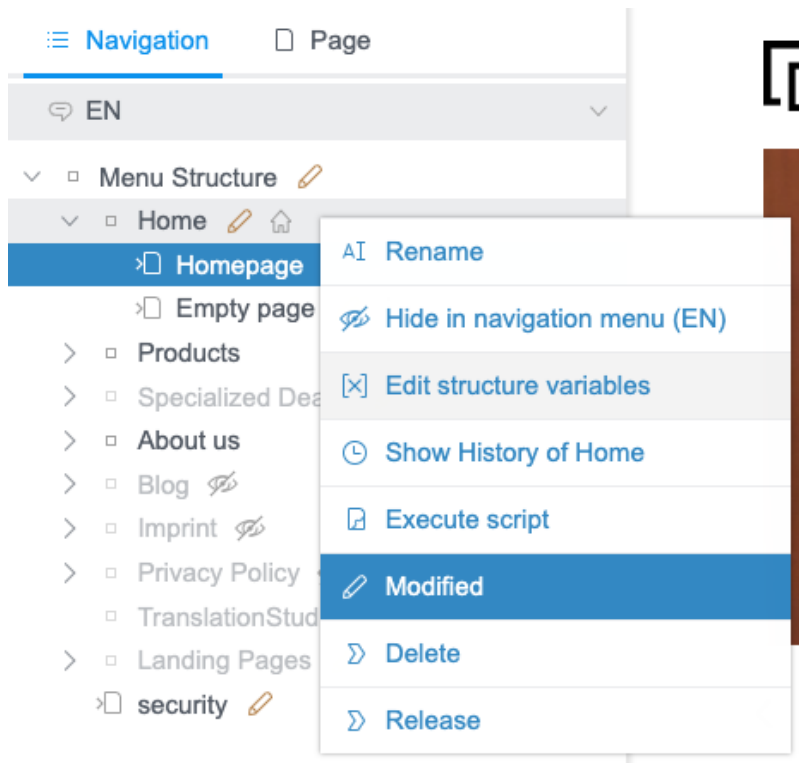


This functionality can only be used by server or project administrators. The group of administrators can be restricted via TailoredUI.

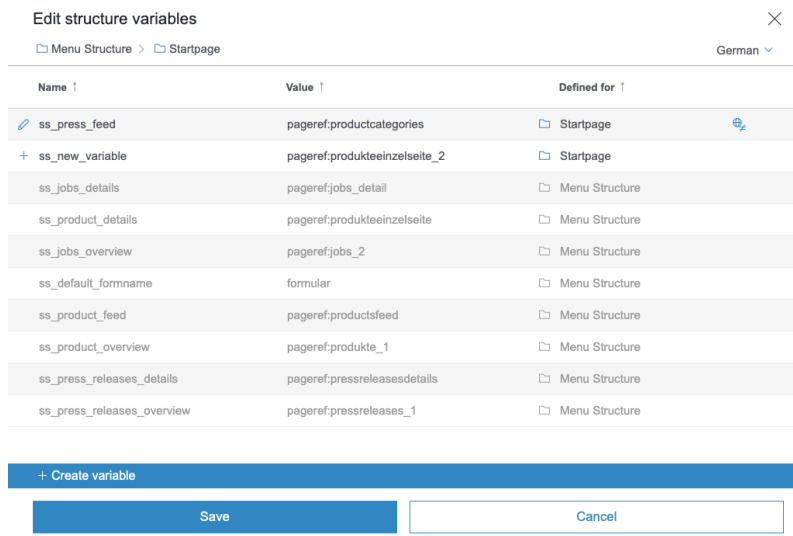
Editing structure variables

From within the context menu of SiteStore folder navigation, it is now possible to edit structure variables:





The pop-up dialog lists all variables that have been defined for the current folder:



- New variables are marked with a “+” icon

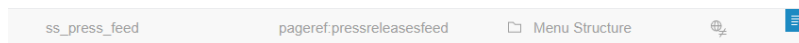


- Inherited variables are displayed in gray
- Inherited but changed variables are marked with a “pencil” icon
- The “Defined for” column indicates name of the folder for which the displayed value of the variable is defined
- If the variable does not have the same value for all languages, it is marked with a respective icon

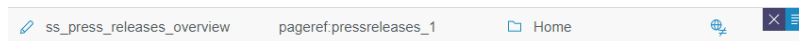
Actions



The entered values can be changed for new variables. Click the “trash bin” icon to delete the variable.



The original values can be changed for inherited variables.



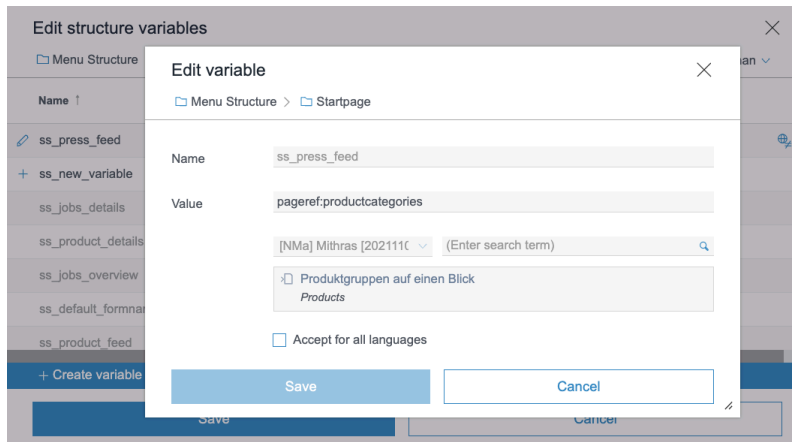
Note: Inherited values are not checked for their validity.

The values received from inherited variables that have already been changed, can also be changed. Click the “X” icon to reset any changes to inherited values: The variable will be restored in its original state.

Editing a variable

When editing a variable, a pop-up dialog is displayed:



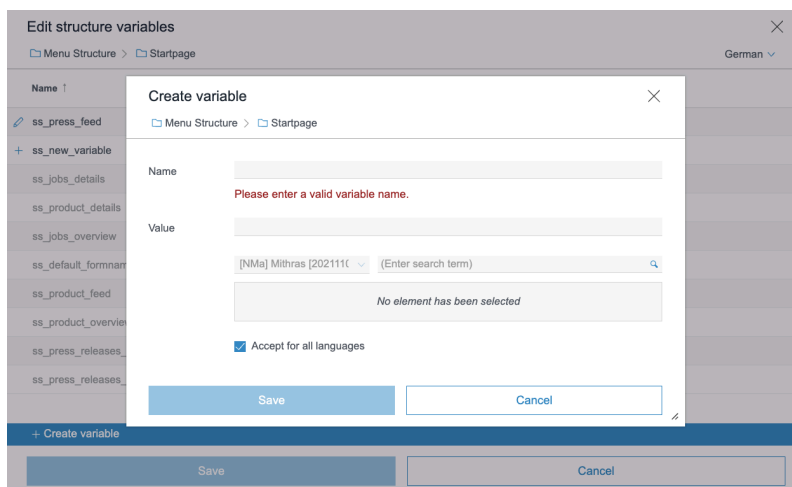


To change a structure variable's value (a page reference or a media reference), enter the exact value of the variable into the “Value” field. Alternatively, you can search and select a value in the search field. The variable's name will be filled-in automatically.

“Accept for all languages”: The variable's value will be applied to all languages. The option is active by default if the variable's value is already identical in all languages.

Creating a variable

When creating a variable, a pop-up dialog is displayed:



To create a structure variable you need to specify its name and value.



“Accept for all languages”: The variable's value will be applied to all languages.

4 FirstSpirit Content Experience Tools (CXT)

4.1 Latest module versions

FirstSpirit 2023.4 supports the following module versions for “FirstSpirit Content Experience Tools”.

Module / file name	Version number
FirstSpirit CXT Plattform platform-[version].fsm	3.0.5
FirstSpirit CXT DAP Bridge dataservice-[version].fsm	1.44.10
FirstSpirit CXT FragmentCreator fragment-creator-[version].fsm	4.0.4
FirstSpirit Fragment DAP fragmentdap-[version].fsm	1.40.17
FirstSpirit Media DAP mediadap-[version].fsm	1.31.9*
FirstSpirit PageRef DAP pagerefdap-[version].fsm	1.9.9
FirstSpirit Markdown Editor markdown-editor-[version].fsm	1.29.8*
FirstSpirit Tagging Editor tagging-editor-[version].fsm	1.29.8
FirstSpirit CXT FragmentCreator - CaaS Integration caas-integration-[version].fsm	1.31.9

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



5 Compatibility

5.1 FSDevTools version 4.4.1 required for FirstSpirit version 2023.4



In order to use “fs-cli” (FSDevTools) with the current FirstSpirit version 2023.4, at least version 4.4.1 of “fs-cli” is required.

Compatibility: The new version of fs-cli is still compatible with older versions of FirstSpirit (up to 2023.3).

6 Media

6.1 SVG image processing

The change recently announced with FirstSpirit version 2023.3 to improve the processing of incorrectly configured SVG image files (CORE-15042) will not be available in the next FirstSpirit version 2023.4. In a later FirstSpirit version this change will be restored.

Unfortunately, we have identified that the implementation of this change may lead to some unexpected problems. Therefore, we have temporarily deactivated this change and point out that uploading and using SVG files with unsupported configurations in version 2023.4 could again lead to a misbehaviour.

7 Module Development, Scripts, API

7.1 Recursion identification in JSON output via inline JSON function

With the current FirstSpirit version, enhancements were made to the identification of recursions in JSON output via the inline JSON function which lead to a change in behavior.

The JSON function can be called up multiple times recursively during the rendering process. When paragraphs and data records were called up recursively, this could lead either to missing output or to a FirstSpirit server's `OutOfMemoryException` – depending on the FirstSpirit server's configuration.

The identification of recursions during a JSON function's call up has been improved. If a reference is detected, the reference to the paragraph or data record is output as a placeholder and the recursion is cancelled for that place.





The behavior for direct rendering of data records via `RenderingAgent` has been changed.

- So far, the data record was output despite the `dataRenderDepth=0` parameter.
- Now, only the reference to the data record is output for the place.

If `dataRenderDepth=1` (default value) is specified, the behavior remains unchanged. The data record is output, connected data records are output as references.

For more information, see *Enhanced JSON support / Configuration* (→*FirstSpirit Online Documentation*), chapter “Configuration”.

8 Template development

8.1 JSON object for projects without defined project settings page template

If no page template was defined in a project for the project settings page, then no output was generated when outputting the project settings via the `json` function.

With the current FirstSpirit release a JSON object is always generated when the project settings page is output. If no page template has been defined, the attribute `"template"` has the value `"null"`.

9 Deprecations

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

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



Functionality	Deprecated as of	Will be removed/ Was removed as of
Input component 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	
FirstSpirit Access API: getSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: setSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	



Functionality	Deprecated as of	Will be removed/ Was removed as of
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	

10 Overview

ID	Description	Categories
CORE-13551	Error handling has been enhanced for resource conflicts during module installation.	Modules, Server Administrator



ID	Description	Categories
CORE-14890	The API classes <code>Logger</code> and <code>Logging</code> (FirstSpirit Developer-API, package <code>de.espirit.common.base</code>) some new methods have been added. Normally those classes are only used and not implemented, so this change should have no effect. Existing implementations of this classes however have to be modified by implementing the new methods.	FirstSpirit API, Logging
CORE-14914	<p>Recursion identification enhancements in the JSON output via the inline JSON function</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Recursion identification in JSON output via inline JSON function”.</p>	Support for JSON
CORE-14930	When the <code>RenderingAgent</code> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.agency</code>) was used for the direct output of nodes with the <code>Section</code> type, an unknown object type could occur in the <code>#this</code> object. The problem has been resolved.	Developer, FirstSpirit API
CORE-15138	The server connection cleaning up process has been improved.	Server Administrator
CORE-15147	<p>Automatic deletion of export file after import completion</p> <p>Further information can be found in chapter “Administration: Automatic deletion of export file”.</p>	Server Administrator
CORE-15148	When <code>ContentTransport</code> features were saved locally, special characters in the file name could lead to an incompatibility with the file system. The problem has been resolved: when saving a file, special characters are deleted from the file name.	Content Transport
CORE-15157	A potential memory leak existed when connections within the server were used. The problem has been resolved.	Server Administrator
CORE-15169	The handling of file handles has been further improved.	Server Administrator
CORE-15170	If the FirstSpirit server's utilization of <code>ThreadPool-Queues</code> reaches at least 90%, the server receives the status “Degraded”. You can search for such events in the <code>server-incident.log</code> (envelope icon, see here: FirstSpirit ServerMonitoring / FirstSpirit / Monitoring / Codes (→ Documentation for Administrators)).	ServerMonitoring



ID	Description	Categories
CORE-15176	<p>The web compatibility module (<code>fs-web-compatibility.fsm</code>) is no longer distributed.</p> <p>Further information can be found in chapter “Administration / Modules: Web compatibility module discontinued”.</p>	Isolated mode, Modules
CORE-15188	<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)
CORE-15202	<p>When using the functionality “External Synchronization” or FSDevTools (<code>fs-cli</code>), display names could in some situations not be exported correctly. The error has been resolved.</p>	External synchronization
CORE-15227	<p>A JSON object is always created when the project settings page is output, even if no page template is assigned to the project settings page.</p> <p>Further information can be found in chapter “Template development: JSON object for projects without defined project settings page template”.</p>	Support for JSON
CORE-15250	<p>The change recently announced with FirstSpirit version 2023.3 to improve the processing of incorrectly configured SVG image files (CORE-15042) will not be available in the next FirstSpirit version 2023.4. In a later FirstSpirit version this change will be restored.</p> <p>Further information can be found in chapter “Media: SVG image processing”.</p>	Media Store
CXT-2681	<p>Creating and editing structure variables in ContentCreator</p> <p>Further information can be found in chapter “ContentCreator: Using structure variables in ContentCreator”.</p>	ContentCreator
CXT-2823	<p>In ContentCreator, deep links were not taken into account; the required element was not displayed. The problem has been resolved.</p>	ContentCreator



ID	Description	Categories
CXT-2827	For move operations in the navigation, no event was sent for <code>NavigationChangeListeners</code> registered in the <code>WE_API</code> .	ContentCreator
CXT-2850	If during the CXT platform's startup no connection to the FirstSpirit server could be established, this led to authentication issues in the CXT platform. The problem has been resolved: If the FirstSpirit server is available within 5 minutes, authentication issues do not occur.	FirstSpirit Content Experience Tools (CXT)
DEVEX-608	In order to use “fs-cli” (FSDevTools) with the current FirstSpirit version 2023.4, at least version 4.4.1 of “fs-cli” is required. Further information can be found in chapter “Compatibility: FSDevTools version 4.4.1 required for FirstSpirit version 2023.4”.	FSDevTools

11 Categories

11.1 Content Transport

ID	Description
CORE-15148	When ContentTransport features were saved locally, special characters in the file name could lead to an incompatibility with the file system. The problem has been resolved: when saving a file, special characters are deleted from the file name.

11.2 ContentCreator

ID	Description
CXT-2681	Creating and editing structure variables in ContentCreator Further information can be found in chapter “ContentCreator: Using structure variables in ContentCreator”.
CXT-2823	In ContentCreator, deep links were not taken into account; the required element was not displayed. The problem has been resolved.



ID	Description
CXT-2827	For move operations in the navigation, no event was sent for <code>NavigationChangeListeners</code> registered in the <code>WE_API</code> .

11.3 Developer

ID	Description
CORE-14930	When the <code>RenderingAgent</code> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.agency</code>) was used for the direct output of nodes with the <code>Section</code> type, an unknown object type could occur in the <code>#this</code> object. The problem has been resolved.

11.4 External synchronization

ID	Description
CORE-15202	When using the functionality “External Synchronization” or <code>FSDevTools (fs-cli)</code> , display names could in some situations not be exported correctly. The error has been resolved.

11.5 FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-15188	<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-2850	If during the CXT platform's startup no connection to the FirstSpirit server could be established, this led to authentication issues in the CXT platform. The problem has been resolved: If the FirstSpirit server is available within 5 minutes, authentication issues do not occur.



11.6 FirstSpirit API

ID	Description
CORE-14890	The API classes <code>Logger</code> and <code>Logging</code> (FirstSpirit Developer-API, package <code>de.espirit.common.base</code>) some new methods have been added. Normally those classes are only used and not implemented, so this change should have no effect. Existing implementations of this classes however have to be modified by implementing the new methods.
CORE-14930	When the <code>RenderingAgent</code> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.agency</code>) was used for the direct output of nodes with the <code>Section</code> type, an unknown object type could occur in the <code>#this</code> object. The problem has been resolved.

11.7 FSDevTools

ID	Description
DEVEX-608	In order to use “fs-cli” (FSDevTools) with the current FirstSpirit version 2023.4, at least version 4.4.1 of “fs-cli” is required. Further information can be found in chapter “Compatibility: FSDevTools version 4.4.1 required for FirstSpirit version 2023.4”.

11.8 Isolated mode

ID	Description
CORE-15176	The web compatibility module (<code>fs-web-compatibility.fsm</code>) is no longer distributed. Further information can be found in chapter “Administration / Modules: Web compatibility module discontinued”.



11.9 Support for JSON

ID	Description
CORE-14914	Recursion identification enhancements in the JSON output via the inline JSON function Further information can be found in chapter “Module Development, Scripts, API: Recursion identification in JSON output via inline JSON function”.
CORE-15227	A JSON object is always created when the project settings page is output, even if no page template is assigned to the project settings page. Further information can be found in chapter “Template development: JSON object for projects without defined project settings page template”.

11.10 Logging

ID	Description
CORE-14890	The API classes <code>Logger</code> and <code>Logging</code> (FirstSpirit Developer-API, package <code>de.espirit.common.base</code>) some new methods have been added. Normally those classes are only used and not implemented, so this change should have no effect. Existing implementations of this classes however have to be modified by implementing the new methods.

11.11 Media Store

ID	Description
CORE-15250	The change recently announced with FirstSpirit version 2023.3 to improve the processing of incorrectly configured SVG image files (CORE-15042) will not be available in the next FirstSpirit version 2023.4. In a later FirstSpirit version this change will be restored. Further information can be found in chapter “Media: SVG image processing”.



11.12 Modules

ID	Description
CORE-13551	Error handling has been enhanced for resource conflicts during module installation.
CORE-15176	The web compatibility module (<code>fs-web-compatibility.fsm</code>) is no longer distributed. Further information can be found in chapter “Administration / Modules: Web compatibility module discontinued”.

11.13 Server Administrator

ID	Description
CORE-13551	Error handling has been enhanced for resource conflicts during module installation.
CORE-15138	The server connection cleaning up process has been improved.
CORE-15147	Automatic deletion of export file after import completion Further information can be found in chapter “Administration: Automatic deletion of export file”.
CORE-15157	A potential memory leak existed when connections within the server were used. The problem has been resolved.
CORE-15169	The handling of file handles has been further improved.

11.14 ServerMonitoring

ID	Description
CORE-15170	If the FirstSpirit server's utilization of ThreadPool-Queues reaches at least 90%, the server receives the status “Degraded”. You can search for such events in the <code>server-incidents.log</code> (envelope icon, see here: <i>FirstSpirit ServerMonitoring / FirstSpirit / Monitoring / Codes</i> (→ <i>Documentation for Administrators</i>)).

