



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2021-01

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1 Administration

1.1 Apache Tomcat / Java Servlet Specification 3.0: Improved pluggability detection for web applications

“Web framework pluggability” has been introduced in version 3.0 of the Java Servlet Specification (see [Java Servlet 3.0 Specification](#)). This enables the following, for example:

- Modularization of `web.xml` or
- Configuration of components via Java annotations.

Globally, “web framework pluggability” is activated in FirstSpirit using the `WEBAPP_ENABLE_PLUGGABILITY_FEATURES_DEFAULT` parameter (default value “true”) in the `fs-server.conf` file (see Area: [Web Applications](#) chapter (`fs-server.conf`)). With this setting, all Java classes are scanned for annotations upon deployment.

If the function is not required, it can be deactivated globally or for individual web applications so that deployment on the web server does not take longer than necessary. The “pluggability” selection field is used for configuring and deactivating individual web applications; this applies to either global web applications (FirstSpirit ServerManager, [Server properties/Web applications](#)) or the web components of a project (FirstSpirit ServerManager, [Project properties/Web components](#)).

As of FirstSpirit 2021-01, pluggability detection for web applications has been improved. Pluggability is now guaranteed to be activated automatically if at least one web component in a web application requires pluggability. The pluggability of a web component is affected by the `metadata-complete` and `absolute-ordering` attributes.

The new behavior ensures that incorrect configurations result in fewer conflicts. Where necessary, this also overwrites the explicit “Inactive” setting for pluggability in ServerManager (see [Server properties/Web applications](#)).

2 FirstSpirit Content Experience Tools (CXT)

2.1 Latest module versions

FirstSpirit 2021-01 supports the following module versions for “FirstSpirit Content Experience Tools”:



Module / file name	Version number
FirstSpirit CXT DAP Bridge	1.37
<code>dataservice-[version].fsm</code>	
FirstSpirit CXT FragmentCreator	2.17
<code>fragment-creator-[version].fsm</code>	
FirstSpirit Fragment DAP	1.32
<code>fragmentdap-[version].fsm</code>	
FirstSpirit Media DAP	1.26*
<code>mediadap-[version].fsm</code>	
FirstSpirit PageRef DAP	1.4
<code>pagerefdap-[version].fsm</code>	
FirstSpirit Markdown Editor	1.25*
<code>markdown-editor-[version].fsm</code>	
FirstSpirit Tagging Editor	1.25
<code>tagging-editor-[version].fsm</code>	
FirstSpirit CXT FragmentCreator - CaaS Integration	1.26
<code>caas-integration-[version].fsm</code>	

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

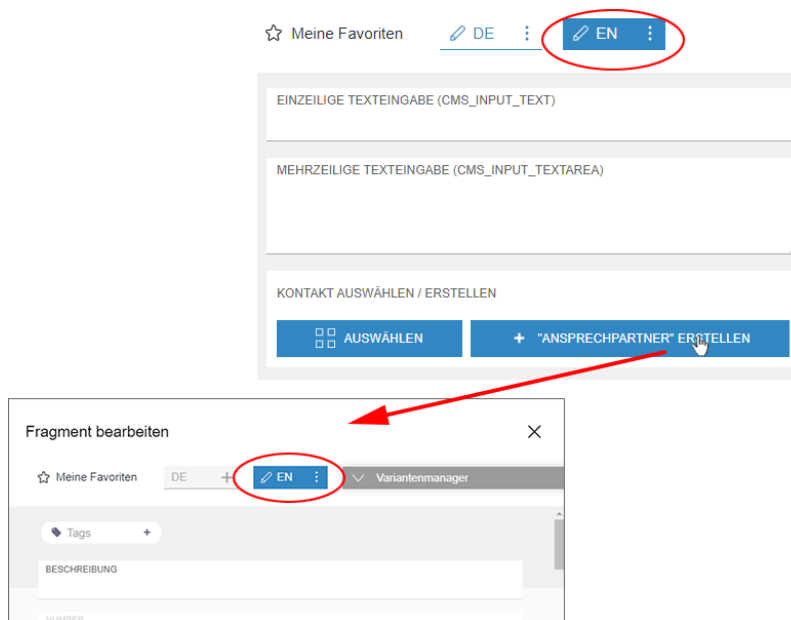
2.2 Dimension when creating new fragments

The “variant” principle of FirstSpirit Content Experience Tools allows for different variants of a fragment. A variant dimension of a fragment may be the **language**, for instance.

Variants are implemented from a technical perspective using a `<CMS_GROUP>` form with the identifier *editions* in the metadata template. In this case, the *language* variable is what enables the editor to select the language and the (language-dependent) content to be stored.

The **FS_INDEX** component can be used to create new fragments in a remote project, for example. The current variant dimension is now always preselected in the latest release, e.g.





Another variant dimension can be selected in this dialog if necessary.

The new fragment is created in the remote project that is specified via the *remote* attribute in the *PROJECT* tag of the applicable *FS_INDEX* component.

If the variant dimensions defined by means of *editions* in the source project and target project are different from one another, a random target project dimension is preselected.

FS_INDEX code example:

```
<FS_INDEX name="fragments" useLanguages="no">
  <LANGINFOS>
    <LANGINFO lang="EN" label="Select / create contact person"/>
    <LANGINFO lang="*" label="Kontakt auswählen / erstellen"/>
  </LANGINFOS>
  <SOURCE name="FirstSpiritFragmentAccess/FSFAConnector">
    <PROJECT remote="fragments">
      <CATEGORY uid="contacts"/>
    </PROJECT>
  </SOURCE>
</FS_INDEX>
```



3 Module Development, Scripts, API

3.1 Java 11: Integrating a JAXB library locally within a module

The JAXB package `javax.xml.bind` (Java Architecture for XML Binding) has been removed as of Java 11. When upgrading FirstSpirit modules to Java 11, module developers must now ensure that modules requiring this resource provide it themselves. For this purpose, the `ScheduleTaskApplication` interface now supports the integration of a JAXB library locally within a module.

4 Modules: Content Transport

4.1 ContentTransport and CorporateContent: Improvement in large-scale data stability

The multisite management functions “FirstSpirit ContentTransport” and “FirstSpirit CorporateContent” make it possible to transport project content and properties from a source project to a target project. In the case of both functions, stability and performance have been improved when transporting large data volumes. It is now possible to transport large data volumes with little memory usage. The improved behavior also has an impact on importing/exporting zip files via the corresponding context menu functions in SiteArchitect.

For more information on the functions referred to above, see:

- [Module documentation on “FirstSpirit CorporateContent”, “CorporateContent” and “ContentTransport” chapters \(PDF\)](#)
- [Documentation on “FirstSpirit SiteArchitect”, “Special context menu functions” chapter](#)

5 Template development

5.1 JSON function: New “nonDisplayedSectionsRendering” configuration parameter

The new `nonDisplayedSectionsRendering` configuration parameter can be used to generate the output of hidden sections.




```
$CMS_SET(#global.json.nonDisplayedSectionsRendering, true)$
```

If the value is set to “true”, an additional “displayed” attribute is generated for each section.
 If the value is set to “false” (default value), this attribute is not generated.

If this option is set to “true” in the page template for the global setting, for example, the “displayed” attribute is then used to show the language-dependent setting for each section, which determines whether the section is to be displayed or not.

Example:



DE (check mark in box): attribute is output with “true”: "displayed": true
 EN (no check mark in box): attribute is output with “false”: "displayed": false

Note: If the configuration parameter is not set, sections that do not have a check mark will not be output at all. Setting the parameter not only adds additional attributes during output, but also generates hidden sections.

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	



Functionality	Deprecated as of	Will be removed/ Was removed as of
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	
FirstSpirit Access API: getSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	



Functionality	Deprecated as of	Will be removed/ Was removed as of
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	
Control files for Windows and Linux operating systems (old)	2020-08	February 2021
database layer for Oracle Database 11g/12c	2020-12	June 2021

7 Overview

ID	Description	Categories
CORE-11728	<p>JSON function: The new <code>nonDisplayedSectionsRendering</code> configuration parameter can be used to generate the output of hidden sections.</p> <p>Further information can be found in chapter “Template development: JSON function: New “nonDisplayedSectionsRendering” configuration parameter”.</p>	Developer, Support for JSON
CORE-12449	An error has been corrected which, in very rare cases, may have made it impossible to use the translation help.	Editor, SiteArchitect



ID	Description	Categories
CORE-12465	The JSON output now also supports the transfer of the project settings page. In this case, the output takes place along the same lines as pages in the Page Store.	Developer, Support for JSON
CORE-12838	After a project backup, the project (repository and registry) is now immediately closed if it is not in use by any other processes. Previously, the project was closed after the usual timeout (20 minutes).	Server Administrator, Tasks
CORE-12896	<p>As of FirstSpirit 2021-01, pluggability detection for web applications has been improved. Pluggability is now guaranteed to be activated automatically if at least one web component in a web application requires pluggability.</p> <p>Further information can be found in chapter “Administration: Apache Tomcat / Java Servlet Specification 3.0: Improved pluggability detection for web applications”.</p>	FirstSpirit Administrator, ServerManager
CORE-12984	<p>Stability and performance have been improved when transporting large data volumes in FirstSpirit.</p> <p>Further information can be found in chapter “Modules: Content Transport: ContentTransport and CorporateContent: Improvement in large-scale data stability”.</p>	Content Transport, Corporate Content
CORE-13013	An error has been fixed that could cause special characters in names to be transported incorrectly when using Content Transport.	Content Transport
CORE-13025	The error message issued when resource conflicts are detected during module installation has been enhanced to better identify conflicting resources.	Debugging, Developer, FirstSpirit Administrator, Module development
CORE-13059	When resources were previously being configured in the <code>module[-isolated].xml</code> file, using white spaces led to an error. This behavior has been corrected.	Module development, Modules
CORE-13099	A problem has been solved which could lead to an incorrect display of the autostart status of a service in the ServerManager.	ServerManager
CORE-13117	An error has been fixed that in very rare cases could lead to a service being started at FirstSpirit startup before the script permissions required by this service had been initialized.	FirstSpirit Administrator, Modules



ID	Description	Categories
CORE-13145	<p>In the version history, the editor now sees the message “Changes cannot be shown, as some elements are no longer available within the project history.” instead of an error if the requested content is no longer available in the project. This behavior applies to archived templates, for example, if the “Show changes to templates” option is called up in the version history.</p>	Editor, SiteArchitect, Version history
CORE-13146	<p>The ScheduleTaskApplication interface now supports the integration of a JAXB library locally within a module.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Java 11: Integrating a JAXB library locally within a module”.</p>	Java, Module development
CXT-1617	<p>The current variant dimension is now always preselected during the process of creating new fragments.</p> <p>Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Dimension when creating new fragments”.</p>	Editor, FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-1974	<p>Previously, the results list of search dialogs displayed copy templates and most recently used elements as a priority. Now, the search term and filters are evaluated first.</p>	ContentCreator, Editor, Input Components, Search
CXT-2027	<p>The dialog for renaming (menu items or folders in the Media management, for example) now also works again in projects with more than 7 languages.</p>	ContentCreator, Editor, Languages
CXT-2042	<p>Using the “Fragment DAP” module, fragments from a fragment project can be referenced via the “Fragments” report. The report is now only available if there is a remote project that is actually a fragment project and only fragment projects are shown as available for selection.</p>	ContentCreator, Editor, FirstSpirit Administrator, FirstSpirit Content Experience Tools (CXT), Modules, Reports
CXT-2051	<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, Server Administrator



8 Categories

8.1 Tasks

ID	Description
CORE-12838	After a project backup, the project (repository and registry) is now immediately closed if it is not in use by any other processes. Previously, the project was closed after the usual timeout (20 minutes).

8.2 Content Transport

ID	Description
CORE-12984	Stability and performance have been improved when transporting large data volumes in FirstSpirit. Further information can be found in chapter “Modules: Content Transport: ContentTransport and CorporateContent: Improvement in large-scale data stability”.
CORE-13013	An error has been fixed that could cause special characters in names to be transported incorrectly when using Content Transport.

8.3 ContentCreator

ID	Description
CXT-1974	Previously, the results list of search dialogs displayed copy templates and most recently used elements as a priority. Now, the search term and filters are evaluated first.
CXT-2027	The dialog for renaming (menu items or folders in the Media management, for example) now also works again in projects with more than 7 languages.
CXT-2042	Using the “Fragment DAP” module, fragments from a fragment project can be referenced via the “Fragments” report. The report is now only available if there is a remote project that is actually a fragment project and only fragment projects are shown as available for selection.



8.4 Corporate Content

ID	Description
CORE-12984	Stability and performance have been improved when transporting large data volumes in FirstSpirit. Further information can be found in chapter “Modules: Content Transport: ContentTransport and CorporateContent: Improvement in large-scale data stability”.

8.5 Debugging

ID	Description
CORE-13025	The error message issued when resource conflicts are detected during module installation has been enhanced to better identify conflicting resources.

8.6 Input Components

ID	Description
CXT-1974	Previously, the results list of search dialogs displayed copy templates and most recently used elements as a priority. Now, the search term and filters are evaluated first.

8.7 Developer

ID	Description
CORE-11728	JSON function: The new <code>nonDisplayedSectionsRendering</code> configuration parameter can be used to generate the output of hidden sections. Further information can be found in chapter “Template development: JSON function: New “nonDisplayedSectionsRendering” configuration parameter”.
CORE-12465	The JSON output now also supports the transfer of the project settings page. In this case, the output takes place along the same lines as pages in the Page Store.



ID	Description
CORE-13025	The error message issued when resource conflicts are detected during module installation has been enhanced to better identify conflicting resources.
CXT-2051	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

8.8 FirstSpirit Content Experience Tools (CXT)

ID	Description
CXT-1617	The current variant dimension is now always preselected during the process of creating new fragments. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Dimension when creating new fragments”.
CXT-2042	Using the “Fragment DAP” module, fragments from a fragment project can be referenced via the “Fragments” report. The report is now only available if there is a remote project that is actually a fragment project and only fragment projects are shown as available for selection.
CXT-2051	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

8.9 FirstSpirit Administrator

ID	Description
CORE-12896	As of FirstSpirit 2021-01, pluggability detection for web applications has been improved. Pluggability is now guaranteed to be activated automatically if at least one web component in a web application requires pluggability. Further information can be found in chapter “Administration: Apache Tomcat / Java Servlet Specification 3.0: Improved pluggability detection for web applications”.



ID	Description
CORE-13025	The error message issued when resource conflicts are detected during module installation has been enhanced to better identify conflicting resources.
CORE-13117	An error has been fixed that in very rare cases could lead to a service being started at FirstSpirit startup before the script permissions required by this service had been initialized.
CXT-2042	Using the “Fragment DAP” module, fragments from a fragment project can be referenced via the “Fragments” report. The report is now only available if there is a remote project that is actually a fragment project and only fragment projects are shown as available for selection.
CXT-2051	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

8.10 FragmentCreator

ID	Description
CXT-1617	The current variant dimension is now always preselected during the process of creating new fragments. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Dimension when creating new fragments”.
CXT-2051	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

8.11 Java

ID	Description
CORE-13146	The ScheduleTaskApplication interface now supports the integration of a JAXB library locally within a module.



ID	Description
	Further information can be found in chapter “Module Development, Scripts, API: Java 11: Integrating a JAXB library locally within a module”.

8.12 Support for JSON

ID	Description
CORE-11728	<p>JSON function: The new <code>nonDisplayedSectionsRendering</code> configuration parameter can be used to generate the output of hidden sections.</p> <p>Further information can be found in chapter “Template development: JSON function: New “nonDisplayedSectionsRendering” configuration parameter”.</p>
CORE-12465	The JSON output now also supports the transfer of the project settings page. In this case, the output takes place along the same lines as pages in the Page Store.

8.13 Module development

ID	Description
CORE-13025	The error message issued when resource conflicts are detected during module installation has been enhanced to better identify conflicting resources.
CORE-13059	When resources were previously being configured in the <code>module[-isolated].xml</code> file, using white spaces led to an error. This behavior has been corrected.
CORE-13146	<p>The <code>ScheduleTaskApplication</code> interface now supports the integration of a JAXB library locally within a module.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Java 11: Integrating a JAXB library locally within a module”.</p>



8.14 Modules

ID	Description
CORE-13059	When resources were previously being configured in the <code>module[-isolated].xml</code> file, using white spaces led to an error. This behavior has been corrected.
CORE-13117	An error has been fixed that in very rare cases could lead to a service being started at FirstSpirit startup before the script permissions required by this service had been initialized.
CXT-2042	Using the “Fragment DAP” module, fragments from a fragment project can be referenced via the “Fragments” report. The report is now only available if there is a remote project that is actually a fragment project and only fragment projects are shown as available for selection.
CXT-2051	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Latest module versions”.

8.15 Editor

ID	Description
CORE-12449	An error has been corrected which, in very rare cases, may have made it impossible to use the translation help.
CORE-13145	In the version history, the editor now sees the message “Changes cannot be shown, as some elements are no longer available within the project history.” instead of an error if the requested content is no longer available in the project. This behavior applies to archived templates, for example, if the “Show changes to templates” option is called up in the version history.
CXT-1617	The current variant dimension is now always preselected during the process of creating new fragments. Further information can be found in chapter “FirstSpirit Content Experience Tools (CXT): Dimension when creating new fragments”.
CXT-1974	Previously, the results list of search dialogs displayed copy templates and most recently used elements as a priority. Now, the search term and filters are evaluated first.
CXT-2027	The dialog for renaming (menu items or folders in the Media management, for example) now also works again in projects with more than 7 languages.



ID	Description
CXT-2042	Using the “Fragment DAP” module, fragments from a fragment project can be referenced via the “Fragments” report. The report is now only available if there is a remote project that is actually a fragment project and only fragment projects are shown as available for selection.

8.16 Reports

ID	Description
CXT-2042	Using the “Fragment DAP” module, fragments from a fragment project can be referenced via the “Fragments” report. The report is now only available if there is a remote project that is actually a fragment project and only fragment projects are shown as available for selection.

8.17 Server Administrator

ID	Description
CORE-12838	After a project backup, the project (repository and registry) is now immediately closed if it is not in use by any other processes. Previously, the project was closed after the usual timeout (20 minutes).
CXT-2051	<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>

8.18 ServerManager

ID	Description
CORE-12896	<p>As of FirstSpirit 2021-01, pluggability detection for web applications has been improved. Pluggability is now guaranteed to be activated automatically if at least one web component in a web application requires pluggability.</p> <p>Further information can be found in chapter “Administration: Apache Tomcat / Java Servlet Specification 3.0: Improved pluggability detection for web applications”.</p>



ID	Description
CORE-13099	A problem has been solved which could lead to an incorrect display of the autostart status of a service in the ServerManager.

8.19 SiteArchitect

ID	Description
CORE-12449	An error has been corrected which, in very rare cases, may have made it impossible to use the translation help.
CORE-13145	In the version history, the editor now sees the message “Changes cannot be shown, as some elements are no longer available within the project history.” instead of an error if the requested content is no longer available in the project. This behavior applies to archived templates, for example, if the “Show changes to templates” option is called up in the version history.

8.20 Languages

ID	Description
CXT-2027	The dialog for renaming (menu items or folders in the Media management, for example) now also works again in projects with more than 7 languages.

8.21 Search

ID	Description
CXT-1974	Previously, the results list of search dialogs displayed copy templates and most recently used elements as a priority. Now, the search term and filters are evaluated first.

8.22 Version history

ID	Description
CORE-13145	In the version history, the editor now sees the message “Changes cannot be shown, as some elements are no longer available within the project history.” instead of an error if the requested



ID	Description
	content is no longer available in the project. This behavior applies to archived templates, for example, if the “Show changes to templates” option is called up in the version history.

