



FirstSpirit™

Unlock Your Content

Release Notes

FirstSpirit™ 2021-01

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e-Spirit AG

Stockholmer Allee 24
44269 Dortmund | Germany

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

info@e-Spirit.com
www.e-Spirit.com

e-Spirit

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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.

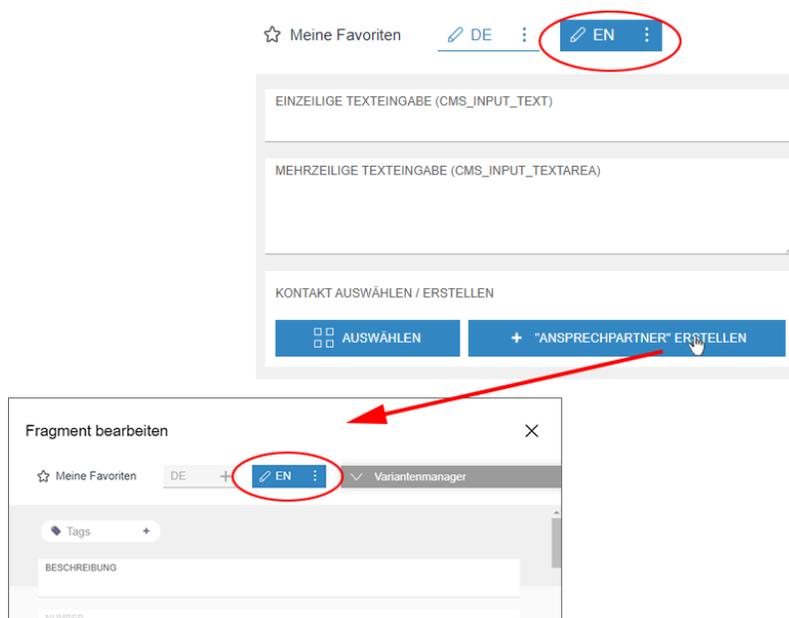
2.2 Dimension when creating new fragments

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 | <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> |
| 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 | <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> |

8.15 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 | <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> |
| 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. |
| | |

