



FirstSpirit™

Unlock Your Content

FirstSpirit™ Release Notes

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1 Support of Oracle Java

Generally, FirstSpirit is released for use with a major version of a JDK, e.g. Oracle Java 8 (JDK 1.8). FirstSpirit 5.2 is currently released for use with Oracle Java 7 and Oracle Java 8.

Support of Oracle Java 9 is currently in development. Release of this support is planned for the near future.

After a transitional period, during which Oracle Java 7, 8, and 9 will be supported in parallel, support for Oracle Java 7 will end: as of summer 2018, FirstSpirit will no longer support Oracle Java 7. This means that FirstSpirit will no longer be operable under Oracle Java 7, and e-Spirit AG will no longer take measures to resolve errors or problems that are related to Java 7.

Modules which are currently being developed by e-Spirit (e.g. “FirstSpirit Third Party Preview”) are already optimized for Java 8 and are not operable under Oracle Java 7.

Oracle has ceased to provide public updates of Java 7 in 2015 and recommends that developers and end users upgrade to Java 8 in order to continue to receive publicly accessible updates and security improvements.

2 Administration

2.1 Automatic deletion of files from local user directories

For various functionality of FirstSpirit SiteArchitect and FirstSpirit ServerManager, files are stored in the user home directory of the user's computer, specifically in a directory with the prefix `.firstspirit_` (e.g. `C:\Users\<USERNAME>\.firstspirit_5.2R15\...`). With every FirstSpirit update, new files are potentially added.

As of the current FirstSpirit version, during every start of SiteArchitect or ServerManager, all `.firstspirit_*` directories in which no files were changed over the last 30 days will now be deleted in order to free storage space on the workstation.

For more information see *FirstSpirit Manual for Administrators*, Chapter “FirstSpirit Server configuration / Roll-out process for native applications”.



2.2 New MBeans

Java Management Extensions (JMX) provide a standardized interface for the management of Java applications. Using the JMX console, it is possible to monitor and manage a FirstSpirit server. While FirstSpirit ServerMonitoring is primarily used for manual monitoring of a FirstSpirit server, the JMX interface is used for automatic monitoring and can integrate into existing, enterprise-wide monitoring infrastructures. All values and operations are provided by Managed Beans (“MBeans”).

The current FirstSpirit version provides new MBeans:

- ConnectionPool
- License
- ProjectManager
- ScheduleManager
- SessionCounter

For more information see also help texts in the tool (JVisualVM or JConsole.)

2.3 Project archiving: Abort archival due to insufficient available storage space

FirstSpirit uses repositories to archive and maintain version histories of project data. Each project has a repository in the server directory `data\projects\`. For each action carried out in the project, data is written to the repository. This applies to actions that create new elements as well as actions that delete elements. In addition, deleted elements are not removed from the repository. Since new data is always being added, the repository will continue to grow and will always require more hard disk space.

The schedule action “Archive old project states” is used to carry out archival of the selected project so that data which is no longer required is moved out of the project and into a repository, thereby reducing load times and increasing the performance of the FirstSpirit server. Data is moved from the repositories to archive files. Archive files that are no longer required can subsequently be deleted in order to free up hard disk space.



During archival, the available storage space of the volume in which the repository directory is located will now be monitored. If the available storage space falls below the following thresholds, the archival run will be aborted:

- option `hdd.limit` (configuration file `fs-server.conf`)
- the available storage space is less than half of what was available at the time archival was started

If archival is aborted due to these conditions, the following message will be written to the server log:

```
repository iteration interrupted, file system usage limit reached - lastId=[ID]
```

The log entry mentions the ID of the last archived element of this archival run. When the archival schedule task is started again, archival will continue from this point.

For further information about project archiving, see *FirstSpirit Manual for Administrators*, Chapter

- “FirstSpirit ServerManager / Project archiving”
- “FirstSpirit ServerManager / Schedule entry planning / Project-based actions / Archive old project states”

2.4 Schedule management, action "Execute generation": New setting - Generate release version or current state

In a project which uses release functionality (FirstSpirit ServerManager - project properties - page “Options” - option “Use Release function”), FirstSpirit differentiates between the released state and the current state of the project. If a project uses this option, changes in the project must be released by a user with appropriate privileges (e.g. an editor-in-chief) in order to become visible in the generated output.

Previously: An unreleased project state, e.g. a page in the Page Content store, will not be output during the next generation. Instead, the most recent released state of the page will be used.

Now: The dialog “Schedule entry planning: Execute generation” contains a new option “Generate release version” as a checkbox:



Screenshot of the "Schedule entry planning: Execute generation" dialog box. The dialog has a "Properties" tab and an "Extended" sub-tab. The "Name" field contains "generate". There are two radio buttons: "Perform FullGeneration" (selected) and "Execute PartialGeneration for following start nodes". Below this is a table for "Start points" with columns "/" and "ID", and "Add" and "Delete" buttons. There are several checkboxes: "Can be defined by user? (for interactive schedule entries only)" (unchecked), "Generate only if necessary" (unchecked), "Clear generation directory beforehand" (unchecked), "Generate release version" (checked), "Generate Media in the generation directory" (checked), and "Use ACL database" (checked). There are also dropdown menus for "PathGeneration" (set to "Default URLs"), "Prefix for absolute paths", and "Successful only if" (set to "No fatal errors and remained within threshold values."). Below these are input fields for "Threshold value for normal Errors" and "Threshold value for Warnings", both set to "0". At the bottom are "OK" and "Cancel" buttons.

- If this option is *activated* (checkbox marked), the release version of the project will be generated (default setting).
- If this option is *deactivated* (checkbox unmarked), the current state of the project will be output during generation (even if this state contains changes which have not been released at the time of generation).

3 General

3.1 Main memory requirements for FirstSpirit SiteArchitect

As of the current FirstSpirit version, the standard value for maximum heap size (Xmx) of FirstSpirit SiteArchitect was increased to 1024MB. Thus, FirstSpirit SiteArchitect now requires at least 1024MB of free main memory, as opposed to the previously required 768MB.

For further information, see *FirstSpirit Technical Data Sheet*.



4 Module Development, Scripts, API

4.1 API Extension: RenderingAgent - Generating FirstSpirit content via API

FirstSpirit content may be generated via the interface `RenderingAgent` (package: `de.espirit.firstspirit.agency`, FirstSpirit Developer API). This allows for control of individualized generation of specific dynamic content directly via the API.

Example:

```
import de.espirit.firstspirit.agency.RenderingAgent;
import de.espirit.firstspirit.access.store.IDProvider
IDProvider node = ..;
String content = context.requireSpecialist(RenderingAgent.TYPE).createRenderer(node)
    .templateSet("html")
    .language("EN_US")
    .preview()
    .render();
```

The example returns the generated content for the node passed to the specialist object.

Supported FirstSpirit object types:

- Page
- Section
- PageRef
- Dataset (including subclasses)
- parsed media



4.2 ContentCreator: Extended configuration possibilities for information displays (WE_API)

FirstSpirit provides a JavaScript API (WE_API) which allows interaction with the user interface of Content-Creator. This API has been extended for information displays:

- Common (package `de.espirit.firstspirit.webedit.client.api`):
`WE_API.Common.showMessage(String title, String text)`

Already available: `void showMessage(String text)` displays a simple message box with an “OK” button which supports configuration of only the message box text. The message box will always be shown as an information message. The button configuration cannot be changed.

Newly available: the function `void showMessage(String title, String text)` supports configuration of the message box title in addition to configuration of the message box text.

Example:

```
<script type="text/javascript">
    top.WE_API.Common.showMessage("Important message:", "I am a sample message box.");
</script>
```

4.3 New API interface "ProjectMembersAgent" provides information about users and groups

The new FirstSpirit Developer API interface `de.espirit.firstspirit.agency.ProjectMembersAgent` now provides access to information about users and groups of a project, e.g.

- Method `getGroups`: returns all groups of the current project
- Method `getUsers`: returns all users of the current project
- Method `getUserByLogin`: returns the user associated with a given login name
- Method `getGroupByName`: returns the group associated with a given group name
- Method `getUserGroups`: returns the group the specified user belongs to



In the course of this improvement, the existing interface `GroupsAgent` of the same package, which provides similar functionality, has been marked *deprecated* and will be removed in May 2018.

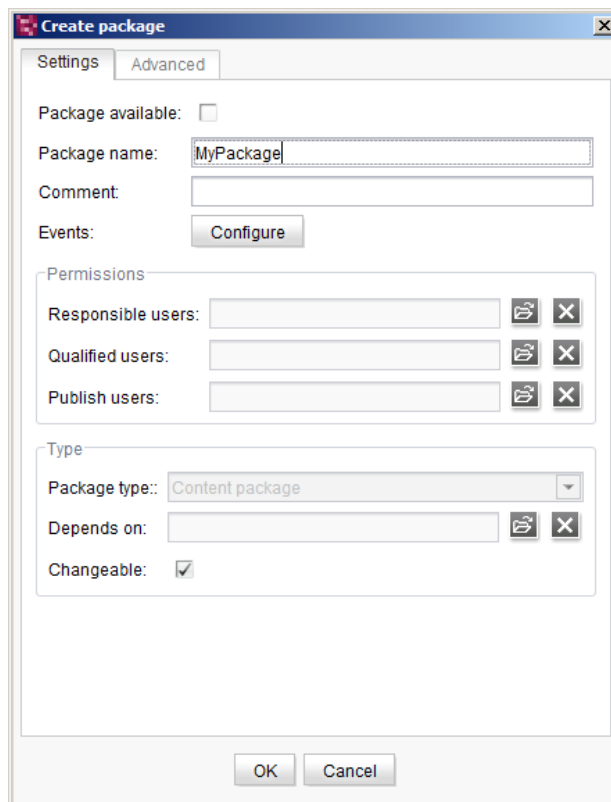
If methods, classes, and interfaces that are no longer supported or are set to deprecated are used in scripts and/or modules, entries are written to log files accordingly (e.g., server log, generation log, etc.). The corresponding log entries should be checked and the cause(s) remedied.

Methods set to the “deprecated” state can still be used, but as they will be omitted in subsequent versions, this is not advisable.

5 Modules: Corporate Content

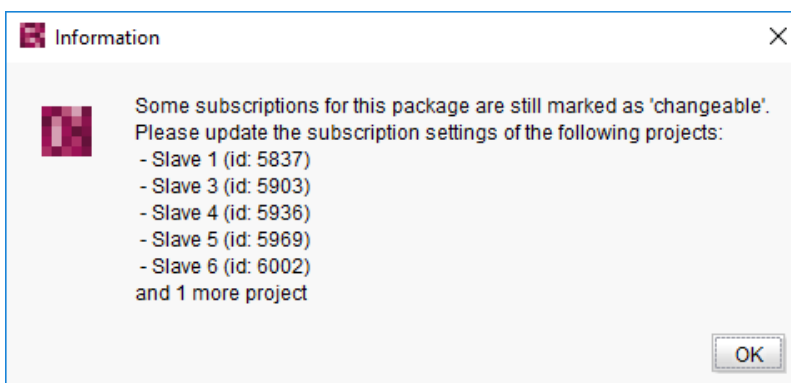
5.1 Removal of write permissions in subscribing projects ("Changeable")

For packages, it is possible to specify whether they should be “changeable” or not in the dialogs “Create package” and “Edit package properties”:

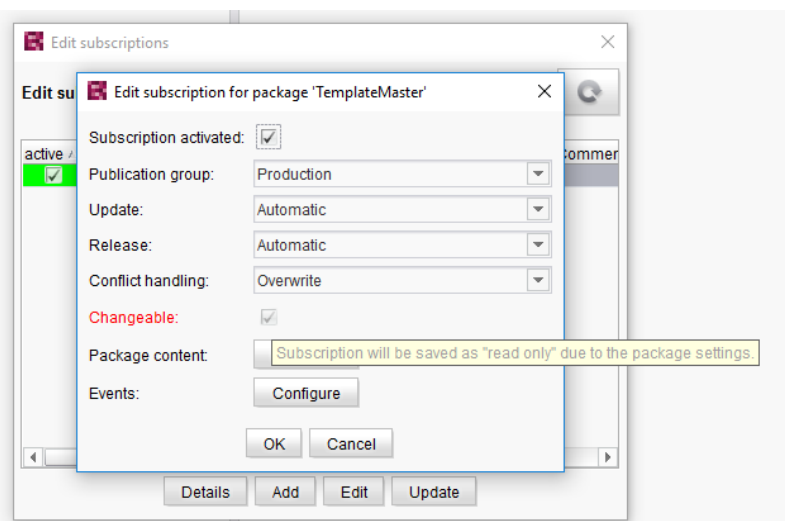


If the checkbox “Changeable” is checked, the target projects are granted write permissions on the imported objects. If the checkbox is not checked, the imported objects may be viewed and used in the target projects, but they cannot be modified.

If the checkbox' checkmark is removed in the **master (or source) project** (removing write permissions), this setting must be carried over manually into the subscribing projects. In order to more quickly identify the affected projects, these will now be displayed in a dialog when deactivating the option in the master project:



In this case, the checkbox “Changeable” is now deactivated in the subscribing projects, i.e. the checkbox' checked state cannot be modified:



The tooltip associated with the checkbox indicates that the currently stored setting (package is changeable) does not comply with the package setting in the master project (package is not changeable);



this may be confirmed by closing the dialog via “OK”, thereby storing the package subscription as not changeable. The package's objects can then no longer be edited in the target project.

For further information, see Module documentation for “FirstSpirit CorporateContent”, chapters

- “Creating a package – Settings tab”
- “Creating a subscription for a package”

6 Search

6.1 Project-specific configuration of indexing for referenced datasets

When creating, editing, or deleting FirstSpirit elements (e.g. pages, sections, media), the contents and data of such elements are written into or removed from the index, respectively, so that elements can be found more quickly using search functionality. This indexing process also includes referenced elements. The number of references that have to be considered influences the duration of an indexing process. Especially datasets that reference further datasets in other tables can cause indexing of all referenced elements to run long due to the resulting complex data structures.

For this reason, it is possible to limit indexing of referencing datasets.

Already available (server-wide configuration): The path length for indexing of referencing datasets may be limited server-wide using the parameter `indexing.relationshipPathLengthToFollow` (specified in the configuration file `fs-server.conf`). This setting applies to indexing of datasets that are referenced via

- FS_DATASET
- FS_INDEX (used for dataset selection via `DatasetDataAccessPlugin`)
- FS_LIST (type DATABASE)

By default, a path length “1” is assumed such that, for the input components mentioned above, datasets and the datasets they immediately reference are indexed. If no referenced datasets should be indexed, the parameter's value must be set to “0”, e.g.



```
indexing.relationshipPathLengthToFollow=0
```

Other path lengths may be specified by setting the desired value. This configuration is applied server-wide for all projects.

Newly available (project-specific configuration): As of the current version of FirstSpirit, it is now possible to overwrite the parameter `indexing.relationshipPathLengthToFollow` on a project-specific level using the new interface `SearchIndexAgent` (package `de.espirit.firstspirit.agency`, FirstSpirit Developer API).

The iteration depth may now be adjusted, e.g. via script:

```
import de.espirit.firstspirit.agency.SearchIndexAgent;  
sia = context.requestSpecialist(SearchIndexAgent.TYPE);  
sia.setPathLengthToFollow(2);
```

If there is no project-specific configuration set, the server-side parameter will be evaluated.

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
Oracle Java 7 Support	5.2R15	June 2018
FirstSpirit Developer API: <code>de.espirit.firstspirit.agency.GroupsAgent</code>	5.2R15	May 2018



8 Overview

ID	Description	Categories
197130	Modifying the input component FS_LIST via a script during generation could lead to erroneous behavior.	Generation
199942	In “Health Center” (ServerMonitoring), checking for the update status of a FirstSpirit server could under certain preconditions lead to erroneous behavior.	Health Center
200046	During every start of SiteArchitect or ServerManager, all <code>.firstspirit_*</code> directories in which no files were changed over the last 30 days will now be deleted. Further information can be found in chapter “Administration: Automatic deletion of files from local user directories”.	Editor, FirstSpirit Administrator, ServerManager, SiteArchitect
201064	When restoring an old dataset version, 1:N relationships were erroneously not regarded.	Content Store
201109	Optimized roll-out of web applications during start-up of the FirstSpirit server.	FirstSpirit Administrator
201348	In “Multi Perspective Preview” (MPP), optimized the layout of the integrated preview.	Multi Perspective Preview, SiteArchitect
201926	Security improvements related to generation.	Generation
202112	As of the current version of FirstSpirit, the new interface <code>SearchIndexAgent</code> (package <code>de.espirit.firstspirit.agency</code> , FirstSpirit Developer API) allows project-specific configuration of indexing depth of referenced datasets. Further information can be found in chapter “Search: Project-specific configuration of indexing for referenced datasets”.	Content Store, Developer, FirstSpirit API, Indexing, Input Components, Performance, Search
202716	With certain constellations of move, release, and delete actions, importing a previously deleted element anew could lead to erroneous behavior.	External synchronization



ID	Description	Categories
202781	<p>Deactivating the package property “Changeable” in a master project (removing write permissions) will now also be visualized in subscribing projects.</p> <p>Further information can be found in chapter “Modules: Corporate Content: Removal of write permissions in subscribing projects (“Changeable”)”.</p>	Corporate Content
202888	<p>The new FirstSpirit Developer API interface <code>de.espirit.firstspirit.agency.ProjectMembersAgent</code> now provides access to information about users and groups of a project.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: New API interface “ProjectMembersAgent” provides information about users and groups”.</p>	Developer, FirstSpirit API
202949	<p>In rare cases, it was possible that the reference name of a node was not released after that node was deleted and the delete operation was released.</p>	Release, SiteArchitect
203002	<p>Optimized observance of validation errors when releasing a FirstSpirit element using the option “Check only - do not release”.</p>	Dynamic Forms, Release
203032	<p>When creating a new page via the dialog “Create new page”, the name of the page can be added and edited only in the name area but not in the navigation area.</p>	ContentCreator
203113	<p>When using “isolated mode”, subsequent changes to URLs in “URL Settings” were mistakenly not observed.</p>	SiteArchitect
203183	<p>Optimized storage handling during project archival.</p> <p>Further information can be found in chapter “Administration: Project archiving: Abort archival due to insufficient available storage space”.</p>	Archiving
203190	<p>As of the current FirstSpirit version, FirstSpirit SiteArchitect requires at least 1024MB of free main memory, as opposed to the previously required 768MB.</p> <p>Further information can be found in chapter “General: Main memory requirements for FirstSpirit SiteArchitect”.</p>	FirstSpirit Administrator, Server Administrator



ID	Description	Categories
203314	In very rare cases, SiteArchitect could be displayed in an erroneous fashion.	SiteArchitect
203454	<p>As of the current FirstSpirit version, FirstSpirit provides a new option related to project generation. In the generation schedule action, the option “Generate release version” now allows specification of whether the action should generate the release version (checkbox marked; default setting) or the current state (checkbox unmarked) of the project.</p> <p>Further information can be found in chapter “Administration: Schedule management, action "Execute generation": New setting - Generate release version or current state”.</p>	FirstSpirit Administrator, Generation, Release, ServerManager, Tasks
203508	In proprietary modules, circular dependencies will now be identified in a timely fashion and logged accordingly. Circular references remain unsupported.	Developer
203695	In “External Synchronization”, optimized observance of references to elements without UID.	External synchronization
203797	When moving several elements via drag-and-drop in the input component FS_LIST, the sort order was erroneously not observed.	SiteArchitect
203870	When using Google Chrome as a browser engine for the integrated preview, opening selection dialogs could seldomly lead to erroneous behavior.	SiteArchitect
203910	<p>The current FirstSpirit version provides new MBeans.</p> <p>Further information can be found in chapter “Administration: New MBeans”.</p>	FirstSpirit Administrator
203962	<p>As of the current FirstSpirit version, the configuration possibilities for information displays in ContentCreator have been extended:</p> <pre>WE_API.Common.showMessage(String title, String text)</pre> <p>Further information can be found in chapter “Module Development, Scripts, API: ContentCreator: Extended configuration possibilities for information displays (WE_API)”.</p>	ContentCreator, Developer, FirstSpirit API



ID	Description	Categories
204052	<p>The new interface <code>RenderingAgent</code> (package <code>de.espirit.firstspirit.agency</code>, FirstSpirit Developer API) is available as of the current FirstSpirit version.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: API Extension: <code>RenderingAgent</code> - Generating FirstSpirit content via API”.</p>	Developer, FirstSpirit API, Module development
204125	<p>In the input component <code>CMS_INPUT_IMAGE_MAP</code>, certain conditions could lead to used images not being considered in the reference graph.</p>	Input Components

9 Categories

9.1 Archiving

ID	Description
203183	<p>Optimized storage handling during project archival.</p> <p>Further information can be found in chapter “Administration: Project archiving: Abort archival due to insufficient available storage space”.</p>

9.2 Content Store

ID	Description
201064	<p>When restoring an old dataset version, 1:N relationships were erroneously not regarded.</p>
202112	<p>As of the current version of FirstSpirit, the new interface <code>SearchIndexAgent</code> (package <code>de.espirit.firstspirit.agency</code>, FirstSpirit Developer API) allows project-specific configuration of indexing depth of referenced datasets.</p> <p>Further information can be found in chapter “Search: Project-specific configuration of indexing for referenced datasets”.</p>



9.3 ContentCreator

ID	Description
203032	When creating a new page via the dialog “Create new page”, the name of the page can be added and edited only in the name area but not in the navigation area.
203962	As of the current FirstSpirit version, the configuration possibilities for information displays in ContentCreator have been extended: <code>WE_API.Common.showMessage(String title, String text)</code> Further information can be found in chapter “Module Development, Scripts, API: ContentCreator: Extended configuration possibilities for information displays (WE_API)”.

9.4 Corporate Content

ID	Description
202781	Deactivating the package property “Changeable” in a master project (removing write permissions) will now also be visualized in subscribing projects. Further information can be found in chapter “Modules: Corporate Content: Removal of write permissions in subscribing projects (“Changeable”)”.

9.5 Developer

ID	Description
202112	As of the current version of FirstSpirit, the new interface <code>SearchIndexAgent</code> (package <code>de.espirit.firstspirit.agency</code> , FirstSpirit Developer API) allows project-specific configuration of indexing depth of referenced datasets. Further information can be found in chapter “Search: Project-specific configuration of indexing for referenced datasets”.
202888	The new FirstSpirit Developer API interface <code>de.espirit.firstspirit.agency.ProjectMembersAgent</code> now provides access to information about users and groups of a project.



ID	Description
	Further information can be found in chapter “Module Development, Scripts, API: New API interface "ProjectMembersAgent" provides information about users and groups”.
203508	In proprietary modules, circular dependencies will now be identified in a timely fashion and logged accordingly. Circular references remain unsupported.
203962	As of the current FirstSpirit version, the configuration possibilities for information displays in ContentCreator have been extended: <code>WE_API.Common.showMessage(String title, String text)</code> Further information can be found in chapter “Module Development, Scripts, API: ContentCreator: Extended configuration possibilities for information displays (WE_API)”.
204052	The new interface <code>RenderingAgent</code> (package <code>de.espirit.firstspirit.agency</code> , FirstSpirit Developer API) is available as of the current FirstSpirit version. Further information can be found in chapter “Module Development, Scripts, API: API Extension: RenderingAgent - Generating FirstSpirit content via API”.

9.6 Dynamic Forms

ID	Description
203002	Optimized observance of validation errors when releasing a FirstSpirit element using the option “Check only - do not release”.

9.7 Editor

ID	Description
200046	During every start of SiteArchitect or ServerManager, all <code>.firstspirit_*</code> directories in which no files were changed over the last 30 days will now be deleted. Further information can be found in chapter “Administration: Automatic deletion of files from local user directories”.



9.8 External synchronization

ID	Description
202716	With certain constellations of move, release, and delete actions, importing a previously deleted element anew could lead to erroneous behavior.
203695	In “External Synchronization”, optimized observance of references to elements without UID.

9.9 FirstSpirit API

ID	Description
202112	<p>As of the current version of FirstSpirit, the new interface <code>SearchIndexAgent</code> (package <code>de.espirit.firstspirit.agency</code>, FirstSpirit Developer API) allows project-specific configuration of indexing depth of referenced datasets.</p> <p>Further information can be found in chapter “Search: Project-specific configuration of indexing for referenced datasets”.</p>
202888	<p>The new FirstSpirit Developer API interface <code>de.espirit.firstspirit.agency.ProjectMembersAgent</code> now provides access to information about users and groups of a project.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: New API interface “ProjectMembersAgent” provides information about users and groups”.</p>
203962	<p>As of the current FirstSpirit version, the configuration possibilities for information displays in <code>ContentCreator</code> have been extended: <code>WE_API.Common.showMessage(String title, String text)</code></p> <p>Further information can be found in chapter “Module Development, Scripts, API: ContentCreator: Extended configuration possibilities for information displays (WE_API)”.</p>
204052	<p>The new interface <code>RenderingAgent</code> (package <code>de.espirit.firstspirit.agency</code>, FirstSpirit Developer API) is available as of the current FirstSpirit version.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: API Extension: RenderingAgent - Generating FirstSpirit content via API”.</p>



9.10 FirstSpirit Administrator

ID	Description
200046	<p>During every start of SiteArchitect or ServerManager, all <code>.firstspirit_*</code> directories in which no files were changed over the last 30 days will now be deleted.</p> <p>Further information can be found in chapter “Administration: Automatic deletion of files from local user directories”.</p>
201109	Optimized roll-out of web applications during start-up of the FirstSpirit server.
203190	<p>As of the current FirstSpirit version, FirstSpirit SiteArchitect requires at least 1024MB of free main memory, as opposed to the previously required 768MB.</p> <p>Further information can be found in chapter “General: Main memory requirements for FirstSpirit SiteArchitect”.</p>
203454	<p>As of the current FirstSpirit version, FirstSpirit provides a new option related to project generation. In the generation schedule action, the option “Generate release version” now allows specification of whether the action should generate the release version (checkbox marked; default setting) or the current state (checkbox unmarked) of the project.</p> <p>Further information can be found in chapter “Administration: Schedule management, action “Execute generation”: New setting - Generate release version or current state”.</p>
203910	<p>The current FirstSpirit version provides new MBeans.</p> <p>Further information can be found in chapter “Administration: New MBeans”.</p>

9.11 Generation

ID	Description
197130	Modifying the input component FS_LIST via a script during generation could lead to erroneous behavior.
201926	Security improvements related to generation.
203454	As of the current FirstSpirit version, FirstSpirit provides a new option related to project generation. In the generation schedule action, the option “Generate release version” now allows specification



ID	Description
	<p>of whether the action should generate the release version (checkbox marked; default setting) or the current state (checkbox unmarked) of the project.</p> <p>Further information can be found in chapter “Administration: Schedule management, action “Execute generation”: New setting - Generate release version or current state”.</p>

9.12 Health Center

ID	Description
199942	<p>In “Health Center” (ServerMonitoring), checking for the update status of a FirstSpirit server could under certain preconditions lead to erroneous behavior.</p>

9.13 Indexing

ID	Description
202112	<p>As of the current version of FirstSpirit, the new interface <code>SearchIndexAgent</code> (package <code>de.e-spirit.firstspirit.agency</code>, FirstSpirit Developer API) allows project-specific configuration of indexing depth of referenced datasets.</p> <p>Further information can be found in chapter “Search: Project-specific configuration of indexing for referenced datasets”.</p>

9.14 Input Components

ID	Description
202112	<p>As of the current version of FirstSpirit, the new interface <code>SearchIndexAgent</code> (package <code>de.e-spirit.firstspirit.agency</code>, FirstSpirit Developer API) allows project-specific configuration of indexing depth of referenced datasets.</p> <p>Further information can be found in chapter “Search: Project-specific configuration of indexing for referenced datasets”.</p>



ID	Description
204125	In the input component CMS_INPUT_IMAGE_MAP, certain conditions could lead to used images not being considered in the reference graph.

9.15 Module development

ID	Description
204052	The new interface <code>RenderingAgent</code> (package <code>de.espirit.firstspirit.agency</code> , FirstSpirit Developer API) is available as of the current FirstSpirit version. Further information can be found in chapter “Module Development, Scripts, API: API Extension: <code>RenderingAgent</code> - Generating FirstSpirit content via API”.

9.16 Multi Perspective Preview

ID	Description
201348	In “Multi Perspective Preview” (MPP), optimized the layout of the integrated preview.

9.17 Performance

ID	Description
202112	As of the current version of FirstSpirit, the new interface <code>SearchIndexAgent</code> (package <code>de.espirit.firstspirit.agency</code> , FirstSpirit Developer API) allows project-specific configuration of indexing depth of referenced datasets. Further information can be found in chapter “Search: Project-specific configuration of indexing for referenced datasets”.



9.18 Release

ID	Description
202949	In rare cases, it was possible that the reference name of a node was not released after that node was deleted and the delete operation was released.
203002	Optimized observance of validation errors when releasing a FirstSpirit element using the option "Check only - do not release".
203454	<p>As of the current FirstSpirit version, FirstSpirit provides a new option related to project generation. In the generation schedule action, the option "Generate release version" now allows specification of whether the action should generate the release version (checkbox marked; default setting) or the current state (checkbox unmarked) of the project.</p> <p>Further information can be found in chapter "Administration: Schedule management, action "Execute generation": New setting - Generate release version or current state".</p>

9.19 Search

ID	Description
202112	<p>As of the current version of FirstSpirit, the new interface <code>SearchIndexAgent</code> (package <code>de.espirit.firstspirit.agency</code>, FirstSpirit Developer API) allows project-specific configuration of indexing depth of referenced datasets.</p> <p>Further information can be found in chapter "Search: Project-specific configuration of indexing for referenced datasets".</p>

9.20 Server Administrator

ID	Description
203190	<p>As of the current FirstSpirit version, FirstSpirit SiteArchitect requires at least 1024MB of free main memory, as opposed to the previously required 768MB.</p> <p>Further information can be found in chapter "General: Main memory requirements for FirstSpirit SiteArchitect".</p>



9.21 ServerManager

ID	Description
200046	<p>During every start of SiteArchitect or ServerManager, all <code>.firstspirit_*</code> directories in which no files were changed over the last 30 days will now be deleted.</p> <p>Further information can be found in chapter “Administration: Automatic deletion of files from local user directories”.</p>
203454	<p>As of the current FirstSpirit version, FirstSpirit provides a new option related to project generation. In the generation schedule action, the option “Generate release version” now allows specification of whether the action should generate the release version (checkbox marked; default setting) or the current state (checkbox unmarked) of the project.</p> <p>Further information can be found in chapter “Administration: Schedule management, action “Execute generation”: New setting - Generate release version or current state”.</p>

9.22 SiteArchitect

ID	Description
200046	<p>During every start of SiteArchitect or ServerManager, all <code>.firstspirit_*</code> directories in which no files were changed over the last 30 days will now be deleted.</p> <p>Further information can be found in chapter “Administration: Automatic deletion of files from local user directories”.</p>
201348	In “Multi Perspective Preview” (MPP), optimized the layout of the integrated preview.
202949	In rare cases, it was possible that the reference name of a node was not released after that node was deleted and the delete operation was released.
203113	When using “isolated mode”, subsequent changes to URLs in “URL Settings” were mistakenly not observed.
203314	In very rare cases, SiteArchitect could be displayed in an erroneous fashion.
203797	When moving several elements via drag-and-drop in the input component FS_LIST, the sort order was erroneously not observed.



ID	Description
203870	When using Google Chrome as a browser engine for the integrated preview, opening selection dialogs could seldomly lead to erroneous behavior.

9.23 Tasks

ID	Description
203454	<p>As of the current FirstSpirit version, FirstSpirit provides a new option related to project generation. In the generation schedule action, the option “Generate release version” now allows specification of whether the action should generate the release version (checkbox marked; default setting) or the current state (checkbox unmarked) of the project.</p> <p>Further information can be found in chapter “Administration: Schedule management, action “Execute generation”: New setting - Generate release version or current state”.</p>

