

Previously released versions: 5.0.105, 5.0.106, 5.0.114, 5.0.210, 5.0.318, 5.0.424, 5.0.425

Reference graph: Expanding the referencing of datasets

The reference graph is used to detect dependencies within a project and is thus an essential component of complex functions, such as the server-side release. In addition, when deleting FirstSpirit objects, for example, existing references to other FirstSpirit objects can be indicated, thus preventing invalid references which occur through the deletion of objects that are still referenced.

Object references can be visualized on the relevant nodes in the tree structure via the context menu "Extras"/"Display dependencies" or by using the keyboard shortcut <CTRL> + <R> (only for project administrators). In addition, incoming and outgoing references can be accessed via FirstSpirit API, e.g., via the `getIncomingReferences` method.

As of FirstSpirit Version 5.0.510, the reference graph now takes into account more incoming references to datasets, e.g., from

- **queries** (Template Store)
In the reference graph of queries, the dataset resulting from the query is shown.
- **filtered data sources** (Data Store)
In the reference graph of the filtered data sources, the dataset for which the data source is filtered is displayed.
- **content projections** (Site Store)
(page references which are based on pages with integrated data sources):
In the reference graph for content projections, the dataset that was selected in the "Select a query" area is displayed.

A prerequisite is that these elements must refer to precisely one dataset which is determined by the dataset ID, e.g., via a query such as

```
<QUERY entityType="Products">
<FILTERPARAM parameter="category" datatype="java.lang.Integer" value="1090"/>
<EQ attribute="Categories_List.fs_id" parameter="category"/>
<ORDERCRITERIA attribute="Name_%lang%"/>
</QUERY>
```

Access via API is possible using the "getIncomingReferences" method, in this case that of the `schema` interface (package: `de.espirit.firstspirit.access.store.templatestore`).

JavaClient: Representation of rules in translation help/version comparison

If the template developer has defined rules for the input of content, these rules apply also within the translation help (menu "Extras" / "Translation help") and the version comparison (context menu "Version history" / button "Compare"). However, they are only shown in the right-hand window area. In version 5.0.510 the display of hidden input components in translation help and version comparison has been optimized.

For further information about the hiding of input components please see "FirstSpirit Online Documentation", "Template development" / "Rules" / "Form properties <PROPERTY/>" / "Property <VISIBLE".

CMS_INPUT_DATE: Specification of year for the default date format

The date format can be configured by using the parameters "mode" and "format" within the input component CMS_INPUT_DATE. Without specifying these parameters the default format is used. Until now only two digits had been designed for specifying the year. From now on, four digits are designed.

URLCreator development

Previously it was only possible to use lower case to specify the configuration parameters (e.g. `useiris`, `useregistry`, `usewelcomefilenames`) in a schedule script for a URLCreator implementation of a generation action. As of version 5.0.510, it is now possible to use upper case as well for improved clarity and other uses (e.g. `useIRIs`, `UseIris` or `UseIRIs`).

New ID format for datasets

FirstSpirit version 5.0 introduced a new ID format for datasets so that they could be more easily identified. The new format of the IDs is now created based on the UUID standard (see <http://docs.oracle.com/javase/1.5.0/docs/api/java/util/UUID.html>). The conversion will take place automatically for existing projects when the datasets are edited in the FirstSpirit project. This means that newly added or modified and saved datasets will automatically receive a GID ("Global ID") in FirstSpirit versions 5.0 and higher.

In FirstSpirit version 5.0R5, the default generation logic for GIDs will change to randomly generated, globally unique IDs, such as the following:

```
30b88864-8c4b-41f9-923a-cfe977d489e0
```

Changing the default generation logic may lead to mixed states in projects, since when projects were migrated to FirstSpirit version 5.0 (< 5.0R5), the existing datasets in the project initially had a GID (in the legacy GID format). The GIDs of newly added datasets, however, have now been generated in the new random GID format in FirstSpirit version 5.0 and higher.

The change in internal ID format may require migration to be done manually in projects in some rare instances. An exception to this are projects that were created in FirstSpirit versions prior to 5.0 and that use the license-dependent **Content Transport** function to transport database content. In these cases, manual adaptation of the GIDs (and resolving of mixed states in the source project (see above)) is recommended. During migration, make sure that the GIDs of the datasets from the source project can be assigned to the corresponding datasets from the target project. This assignment largely depends on the technical requirements of the affected projects. It is therefore not possible to provide a pre-developed migration solution for these situations.

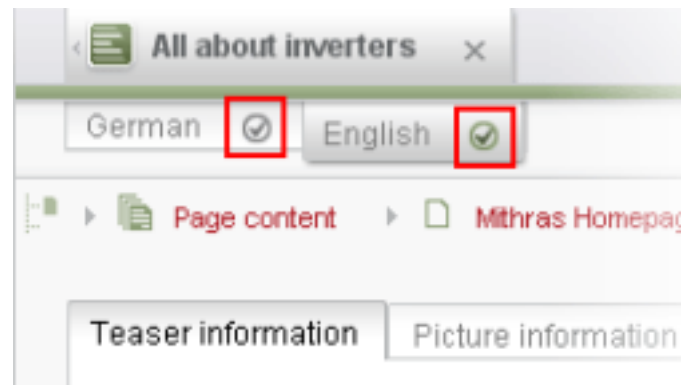
The relevant methods for manually adapting or changing the GIDs are available via the **GidAgent** interface, which is part of the FirstSpirit Developer API.

Note: Making manual GID generation changes should not be taken lightly and should be done with care. The GIDs are used internally by FirstSpirit to reference the datasets, for instance in dataset-based input components (FS_LIST type database, FS_DATASET). These considerations should be taken into account particularly in the case of a project-specific implementation in order to prevent errors from occurring in the project as a result of the migration.

JavaClient: Language tabs of pages and sections

The check marks on the language tabs of pages and sections in the Page Store can be used to set the status "Page is completely translated to this language" and "include this section in the output".

In order to change the status for a language tab which is in the background at the moment (the tab "German" in the Figure) the language tab must first be brought into the foreground by clicking on it. The check mark can then be removed or set again with another click.



New functionalities

ID	Role	Category	Sub Category	Description
138738	Developer	SiteArchitect (JavaClient)	Content Store	A database query can be defined so that single datasets are referenced within the restrictions (access via FS_ID or GID). These referencing is shown from now on also as dependency within the reference graph. For more details please refer to the introduction (subpoint "Reference graph: Expanding the referencing of datasets").
147225	Developer	SiteArchitect (JavaClient) and ContentCreator (WebClient)	Content Store	The ID format of datasets has been modified in FirstSpirit. For further information please refer to the introduction (subpoint "New ID format for datasets").

Bug-fixes

ID	Role	Category	Sub Category	Description
143748	All Users	ContentCreator (WebClient)	Dynamic Forms	In forms, input components can be grouped using the CMS_GROUP design element. The groups can be hidden by means of rules ("dynamic forms"). When these two configurations were combined, the CMS_INPUT_DOM input component was displayed incorrectly in the visible groups.
153094	All Users	ContentCreator (WebClient)	Dynamic Forms	When passing several parameters using EVENT rules ("Dynamic Forms") to a query via the input component CMS_INPUT_COMBOBOX, not all parameters were processed.
117988	All Users	ContentCreator (WebClient)	Input Components	In the CMS_INPUT_DOM input component, it is possible to merge multiple cells within inline tables. After merging the cells, an error would sometimes occur if the minimum number of columns or rows was undershot.
145780	All Users	ContentCreator (WebClient)	Input Components	Input components can be filled with data by means of a script using the FS_BUTTON input component. This functionality has now been improved for the FS_LIST input component.

ID	Role	Category	Sub Category	Description
146780	All Users	ContentCreator (WebClient)	Input Components	In the FS_REFERENCE input component, the "sections" parameter can be used to control or define the reference selection behavior from the Site Store. In rare cases, an error occurred during data maintenance with this configuration.
148160	All Users	ContentCreator (WebClient)	Input Components	The length of the text entered in the CMS_INPUT_TEXTAREA input component can be restricted using the "maxLength" parameter. With this configuration, malfunctions would sometimes occur when text was deleted.
148284	All Users	ContentCreator (WebClient)	Input Components	In Microsoft Internet Explorer 9, the selection dialog for the FS_REFERENCE input component did not always display correctly.
148779	All Users	ContentCreator (WebClient)	Input Components	Multiple editing windows could be opened by mistake for one entry of the FS_LIST input component.
149318	All Users	ContentCreator (WebClient)	Input Components	Multilingual editing of datasets in the FS_DATASET input component has been optimized.
146138	All Users	ContentCreator (WebClient)	Media Store	After editing a medium and subsequently replacing the image used, an error occurred in that the new file name was not taken into account in the edit dialog.
144664	All Users	ContentCreator (WebClient)	None	In ContentCreator, the session created for project selection was erroneously not closed. This session was counted against the number of licensed sessions.
147285	All Users	ContentCreator (WebClient)	Preview	When the user closed the dialog for editing an individual input component, the software sometimes ignored a subsequent click in the preview.
143235	All Users	ContentCreator (WebClient)	Projecthistory	In rare cases, entries were displayed incorrectly in the project history report.
149538	All Users	ContentCreator (WebClient)	Remote Projects	Within a project, a remote project configuration can be stored for another project. The number of languages in the two projects may differ, depending on the configuration. When creating a medium in the source project, the user can select the remote project as the storage location. However, users found that they were unable to assign a display name in a language that was only available in the remote project.
125965	All Users	ContentCreator (WebClient)	Search	Language-dependent media can be created in FirstSpirit. An error would sometimes occur in the search report if no medium had been stored for the selected interface language.
135542	All Users	ContentCreator (WebClient)	Workflow	Datasets deriving from a Data Source can be output on a page (so-called "Content projection"). A Content projection can be defined so that exactly one dataset per page will be output (for example for detail pages). From now on, the dataset will be taken into account in this case within the page status instead of the page, for example in order to be able to start a workflow on this dataset.
137616	All Users	SiteArchitect (JavaClient)	All Stores	In rare cases, an error occurred when restoring a version if the tree structure had been changed prior to this. Now, a clearer warning message is displayed in this situation.
139678	All Users	SiteArchitect (JavaClient)	All Stores	The copying and pasting of tree elements has been optimized.
143552	All Users	SiteArchitect (JavaClient)	All Stores	In the dialog for renaming objects, the reference name is displayed for information purposes only in the case of certain object types. It was possible to activate the "Reference name" field by dragging-and-dropping or copying and pasting text into it. However, no changes were saved in this case.
144556	All Users	SiteArchitect (JavaClient)	All Stores	The "Create folder" permission is no longer required to create a new object using drag-and-drop. Instead, all you need is the "Create object" permission.
147884	All Users	SiteArchitect (JavaClient)	All Stores	It had accidentally become possible to edit the Properties dialog (key combination <Alt>+<P>).
151319	All Users	SiteArchitect (JavaClient)	All Stores	When display names were renamed and then saved, the display name entered for an editorial language would sometimes be ignored unless it was one of the project languages.
152044	All Users	SiteArchitect (JavaClient)	All Stores	When using the "ContentTransport" functionality, objects without a valid assignment within the target project are moved to a "Lost&Found" folder when installing a Content Transport feature. These objects can be identified in a script using the method "getLostAndFoundStoreNodes()" of the interface FeatureInstallResult (Developer API, package "de.espirit.firstspirit.feature"). These objects were not taken into account for some time.
146587	All Users	SiteArchitect (JavaClient)	Clipboard	When new objects are added, the clipboard in the "Organize" area is now updated immediately.
146805	All Users	SiteArchitect (JavaClient)	Content Store	Datasets have been taken into account twice after having been deleted and restored in very rare cases.
147806	All Users	SiteArchitect (JavaClient)	Content Store	Within a data source, a workflow can no longer be started on a dataset from the release state.
147834	All Users	SiteArchitect (JavaClient)	Content Store	A project-specific workflow can be specified in the server and project configuration for the purpose of deleting elements. With this configuration, the data source was erroneously deleted when a dataset was removed using the button.
137754	All Users	SiteArchitect (JavaClient)	ContentTransport	When a feature is imported ("ContentTransport" functionality), the page is not updated if the target project contains more created sections than the source project. As a result, the feature cannot be imported and the user is now alerted to the problem via an error message.
145153	All Users	SiteArchitect (JavaClient)	ContentTransport	Modules with customer-specific input components can be used in FirstSpirit. If the module is not installed, a more comprehensible error message is displayed when a feature ("ContentTransport" functionality) containing a customer-specific input component is imported.
147044	All Users	SiteArchitect (JavaClient)	ContentTransport	Using the "ContentTransport" and the archiving functionality could lead to an error in rare cases. If the option "System data" of the archiving functionality is used, revisions are archived as well. For this reason, a feature combination can base on a revision which has been already archived. When loading such a feature combination the last complete revision was not used as reference point by mistake.
150913	All Users	SiteArchitect (JavaClient)	ContentTransport	Composing a feature ("ContentTransport" functionality) including datasets could lead to erroneous behavior.
148073	All Users	SiteArchitect (JavaClient)	Corporate Content	In the "Corporate Content" module (formerly: PackagePool), an error would sometimes occur if an object was removed from a package that had already been rolled out and the package was then rolled out again.
148469	All Users	SiteArchitect (JavaClient)	Corporate Content	When using the module "Corporate Content" (formerly: PackagePool), creating a content package version within the target project could lead to an error, if the content package had dependencies to the template package within the source project.
150879	All Users	SiteArchitect (JavaClient)	Corporate Content	After having imported a template package in the target project the templates can be deleted there if required. If these templates are created with the same reference name anew, a new template ID is assigned. If the same template package was rolled-out, the template ID of the already existing template was overwritten by mistake.
138325	All Users	SiteArchitect (JavaClient)	Dynamic Forms	Rules ("Dynamic forms") can be used to hide input components in forms. The display forms with hidden components in translation help and version comparison has been optimized.
148326	All Users	SiteArchitect (JavaClient)	Dynamic Forms	In the input component CMS_INPUT_DOM, setting a default value using a rule ("Dynamic Forms") led to erroneous behavior.
149491	All Users	SiteArchitect (JavaClient)	Dynamic Forms	Validation has been optimized for the translation help.

ID	Role	Category	Sub Category	Description
152346	All Users	SiteArchitect (JavaClient)	Dynamic Forms	The application of rules ("Dynamic forms") has been optimized for sub-forms of the input component FS_LIST within translation help and version comparison.
154913	All Users	SiteArchitect (JavaClient)	Dynamic Forms	In the input component CMS_INPUT_DOMTABLE, setting a default value using a rule ("Dynamic Forms") led to erroneous behavior.
144725	All Users	SiteArchitect (JavaClient)	Generation	A sitemap image can be stored in page references. During generation, an error occurred in that the current state was used instead of the released state.
117068	All Users	SiteArchitect (JavaClient)	Input Components	The display for languages which are not the master language has been optimized for language-dependent FS_LIST input components (type INLINE) in the version comparison.
130363	All Users	SiteArchitect (JavaClient)	Input Components	When dragging & dropping a medium (from the Media Store) or a preview image in another input component (for example FS_REFERENCE) to input components of the type CMS_INPUT_TEXT, CMS_INPUT_TEXTAREA or CMS_INPUT_DOM the reference or display name will now be taken over as text.
137997	All Users	SiteArchitect (JavaClient)	Input Components	Default values within entries of the input component FS_LIST (type INLNE) were partly not taken into account.
143763	All Users	SiteArchitect (JavaClient)	Input Components	In the CMS_INPUT_LIST input component, the context menu for removing entries was sometimes displayed incorrectly.
144162	All Users	SiteArchitect (JavaClient)	Input Components	The visualization of Invalid references (for example table format templates, link templates) has been optimized within the input component CMS_INPUT_DOM.
144735	All Users	SiteArchitect (JavaClient)	Input Components	In the case of the CMS_INPUT_COMBOBOX, CMS_INPUT_DATE, CMS_INPUT_LINK, CMS_INPUT_NUMBER, FS_DATASET, and CMS_INPUT_OBJECTCHOOSEER input components, an error occurred in that no empty value could be saved if a default value had been defined.
145480	All Users	SiteArchitect (JavaClient)	Input Components	Double clicking a selected entry within the input component FS_LIST (DATABASE type) could result in situations where the entry could not be edited despite activated editing mode.
145777	All Users	SiteArchitect (JavaClient)	Input Components	When extending a CMS_INPUT_DOM form definition subsequently by a self-defined default list (parameter "listDefaultConfig") this new format can now also be applied to already existing lists.
146258	All Users	SiteArchitect (JavaClient)	Input Components	Within the FS_REFERENCE input component, the stored image can be copied to the clipboard via the context menu. Unfortunately, the image selected in the FS_REFERENCE input component was subsequently ignored after switching to the FirstSpirit clipboard in the meantime.
147414	All Users	SiteArchitect (JavaClient)	Input Components	Taking over and resetting of default values has been optimized for the input components CMS_INPUT_DATE, CMS_INPUT_DOM, CMS_INPUT_DOMTABLE, CMS_INPUT_IMAGEMAP and FS_LIST.
147620	All Users	SiteArchitect (JavaClient)	Input Components	Saving could lead to an error when a dataset was edited by more than one user within the input component FS_DATASET at the same time.
148159	All Users	SiteArchitect (JavaClient)	Input Components	Creating links and setting default values in the input component CMS_INPUT_LINK has been improved.
148403	All Users	SiteArchitect (JavaClient)	Input Components	Multi-language editing of an entry of an FS_LIST input component has been improved.
148852	All Users	SiteArchitect (JavaClient)	Input Components	In the selection dialog of the FS_LIST input component, the display has been optimized in gallery mode for selecting a large number of media.
149485	All Users	SiteArchitect (JavaClient)	Input Components	In the FS_LIST (DATABASE type) input component, the search function for selecting datasets has been optimized.
149554	All Users	SiteArchitect (JavaClient)	Input Components	Refreshing the content of dataset in more than one client within the input component FS_DATASET could lead to an inadequate refresh.
150285	All Users	SiteArchitect (JavaClient)	Input Components	Selection of media from remote projects in the input component FS_REFERENCE has been improved.
150743	All Users	SiteArchitect (JavaClient)	Input Components	In nested FS_LIST input components with a specific configuration, values of the inner FS_LIST were occasionally not processed during a save operation.
151789	All Users	SiteArchitect (JavaClient)	Input Components	Saving a new dataset within a FS_LIST input component in which mandatory fields are not filled in correctly could lead to erroneous behavior.
152605	All Users	SiteArchitect (JavaClient)	Input Components	The option "Hide in selection list" can be selected within link templates. The input component FS_LIST has temporarily not taken into account this option within the selection list.
153970	All Users	SiteArchitect (JavaClient)	Input Components	Images from the Media Store can be selected within the input component FS_LIST (DATABASE type) in the gallery mode (tag MEDIAMODE). The display of the selection area in the selection dialog has been optimized for the selection of larger quantities of images.
154959	All Users	SiteArchitect (JavaClient)	Input Components	Texts from a web site can be inserted per drag and drop into the input component CMS_INPUT_TEXTAREA in FirstSpirit. HTML tags have been taken over by mistake too.
155010	All Users	SiteArchitect (JavaClient)	Input Components	If the parameter "maxEntries" was used in the input component FS_LIST (type DATABASE), the editing status of the input component was not determined correctly.
155683	All Users	SiteArchitect (JavaClient)	Input Components	Retrieval values in the cell properties dialog of inline tables were by mistake not taken into account within the input component CMS_INPUT_DOM.
112817	All Users	SiteArchitect (JavaClient)	Media Store	The image cropping function has been improved.
127190	All Users	SiteArchitect (JavaClient)	Media Store	When editing an image, an error occurred in that the image could only be rotated after selecting an image section.
137025	All Users	SiteArchitect (JavaClient)	Media Store	In very rare instances, an error occurred when selecting the preview image for a medium.
139953	All Users	SiteArchitect (JavaClient)	Media Store	Media files can be moved from File Explorer to the Media Store using drag-and-drop. The detection of certain file types has been improved in this context.
141878	All Users	SiteArchitect (JavaClient)	Media Store	The appropriate icon is now displayed in the Media Store for Microsoft Office files that contain macros (file extensions: ".docm", ".dotm", ".xlsm", and ".pptm").
142169	All Users	SiteArchitect (JavaClient)	Media Store	When a media file (file extensions ".wma", ".wmv", and ".asf") was uploaded, an error occurred in that the file type was not detected correctly.
144573	All Users	SiteArchitect (JavaClient)	Media Store	Detection of the file type has been improved when transferring images in FirstSpirit.
146692	All Users	SiteArchitect (JavaClient)	Media Store	Various resolutions can be defined for images. An error occurred when the user attempted to crop an image that had a resolution stored for it.
149927	All Users	SiteArchitect (JavaClient)	Media Store	Type detection has been improved and a more comprehensible error message added should the user attempt to create a medium with an invalid extension.

ID	Role	Category	Sub Category	Description
150127	All Users	SiteArchitect (JavaClient)	Media Store	A malfunction occurred when dragging-and-dropping or copying and pasting media files from File Explorer.
150388	All Users	SiteArchitect (JavaClient)	Media Store	The correct preview icon is now displayed for files of type potx (Microsoft PowerPoint Template).
150776	All Users	SiteArchitect (JavaClient)	Media Store	Deleting a medium from the Media Store led to an error in rare cases.
152839	All Users	SiteArchitect (JavaClient)	Media Store	Image cropping functionality has been optimized.
134432	All Users	SiteArchitect (JavaClient)	Modules	The "Office Connect" module can be used to import data into FirstSpirit from Microsoft Office applications. An error occurred when pasting text from Microsoft Word into the CMS_INPUT_DOM input component with the <Ctrl>+<V> key combination in that the "Standard (text only import)" set of transformation rules was not evaluated correctly.
148101	All Users	SiteArchitect (JavaClient)	Modules	While using the example geolocation implementation (example implementation for FirstSpirit components in the FirstSpirit online documentation), a display error would sometimes occur when applying a location.
126982	All Users	SiteArchitect (JavaClient)	Page Store	Creating new sections by using the shortcut <Ctrl>+<N> and navigating within the "New" dialog using the keyboard (for example by means of the <Tab> key) have been improved.
150199	All Users	SiteArchitect (JavaClient)	Page Store	Evaluation of the section restrictions has been improved.
150886	All Users	SiteArchitect (JavaClient)	Page Store	The behavior of active and inactive language tabs has been changed in the editing area (see subpoint "JavaClient: Language tabs of pages and sections" in the introduction.)
154922	All Users	SiteArchitect (JavaClient)	Page Store	Copying a section could lead to an error if the tag "LANG" was contained in the related data XML of the source section.
154346	All Users	SiteArchitect (JavaClient)	Preview	Support for using the Microsoft Internet Explorer 8 in the integrated preview has been improved.
145560	All Users	SiteArchitect (JavaClient)	Projects	Cookies for authentication can be passed on using the parameter "clientCookieNames" (server configuration file "fs-server.conf"). The current values have temporarily not been taken into account when switching the project.
143528	All Users	SiteArchitect (JavaClient)	Search	In the global search, the "Default" sorting option has been renamed "Relevance" to make it easier to understand.
145126	All Users	SiteArchitect (JavaClient)	Search	A search function is available for searching in data sources. Scrolling has been optimized within the search dialog for the "Simple Search".
147440	All Users	SiteArchitect (JavaClient)	Search	Sometimes, the global search function was unable to find link texts from the CMS_INPUT_DOMTABLE input component.
132004	All Users	SiteArchitect (JavaClient)	Tasks	Under Mac OS X, an error occurred in rare cases when executing a schedule (menu item: "Projects/Schedules").
144408	All Users	SiteArchitect (JavaClient)	Tasks	In FirstSpirit, a folder containing explicitly set metadata could only be released if the user had the "View metadata" permission.
149158	All Users	SiteArchitect (JavaClient)	Template Development	An incorrect result was sometimes returned in the instructions for a template (CMS tags) when performing an equality comparison on an entry from the FS_LIST (DATABASE type) input component.
150528	All Users	SiteArchitect (JavaClient)	Version History	The manner in which data is displayed in the version comparison has been optimized.
145592	All Users	SiteArchitect (JavaClient)	Workflow	An error occurred if a workflow was started on a dataset and switching to another state by another user.
149285	All Users	SiteArchitect (JavaClient)	Workflow	An error message occurred on the open task display if the associated workflow had been deleted in the meantime.
128383	All Users	SiteArchitect (JavaClient) and ContentCreator (WebClient)	All Stores	Synchronization of bookmarks between ContentCreator (formerly: WebClient) and SiteArchitect (formerly: JavaClient) has been optimized.
141102	All Users	SiteArchitect (JavaClient) and ContentCreator (WebClient)	Input Components	The year of date specifications will be given with 4 digits in the default format from now (see subpoint "CMS_INPUT_DATE: Specification of year for the default date format" in the introduction).
143898	All Users	SiteArchitect (JavaClient) and ContentCreator (WebClient)	Search	The global search function also supports the "*" or "?" placeholders. These now also work for queries in the "fs" namespace (e.g., "fs.uid=homepage_" or "fs.uid=homepage_?").
146865	All Users	SiteArchitect (JavaClient) and ContentCreator (WebClient)	Workflow	Workflows which have been started within SiteArchitect could not be switched to another state within ContentCreator in rare cases.
149547	All Users	SiteArchitect (JavaClient) and ContentCreator (WebClient)	Workflow	In relation to a dataset, the synchronization of workflows and their associated states has been improved.
144234	Developer	ContentCreator (WebClient)	Input Components	Rules ("dynamic forms") within link templates were partly not taken into account within the input component CMS_INPUT_LINK.
133059	Developer	ContentCreator (WebClient)	Scripting	The method "perform(Form, List<Language>)" of the interface "ShowFormDialogOperation" (Developer API, Package "de.espirit.firstspirit.ui.operations") can be used to show a form within a dialog. Using the input component FS_REFERENCE could lead to problems with displaying search results in the case of folders (for example within the Page Store).
136393	Developer	ContentCreator (WebClient)	Scripting	The method "perform(IDProvider)" of the interface "DisplayElementOperation" (Developer API, package "de.espirit.firstspirit.ui.operations") took into account also elements which are not supported (for example pages) temporarily.
143422	Developer	ContentCreator (WebClient)	Scripting	The interfaces "OpenElementMetaFormOperation" and "OpenElementDataFormOperation" (Developer API, package "de.espirit.firstspirit.ui.operations") have been optimized for use in ContentCreator.
145341	Developer	None	Corporate Content	Workflows and scripts can be used for the Corporate Content functionality (formerly: PackagePool) to allow comfortable working within complex project environments or to avoid errors when importing. Using the inherited method "requireSpecialist(SpecialistType<S> type)" in WorkflowScriptContext (Access API, Interface "WorkflowScriptContext", Package "de.espirit.firstspirit.access.store.templatestore") of a workflow script malfunction could occur.
155446	Developer	None	Preview	User-defined cookies can be set for the preview by means of an external web application (for example a PHP interpreter). As a result, cookies which are set and required by FirstSpirit were removed by mistake.
149203	Developer	None	Template Development	The header function "PageGroup" is used for outputting page groups. The page was output as not selected ("directoryRendering") by mistake in the case where the page group contained only one page.

ID	Role	Category	Sub Category	Description
149120	Developer	ServerManager (Server and Project Configuration)	Scripting	The interface "ExecutableGroupingToolbarItem" (Developer API, Package "de.espirit.firstspirit.client.plugin.toolbar") provides functions and objects for creating additional entries in the toolbar and in the context menu. The return value of the method "isVisible(ToolbarContext)" was not evaluated correctly by mistake.
143943	Developer	SiteArchitect (JavaClient)	Input Components	In the CMS_INPUT_NUMBER input component, the display of tooltips has been improved.
151937	Developer	SiteArchitect (JavaClient)	Input Components	Using nested CMS_GROUP design elements within a form could lead to an error if they were hidden partly by means of rules ("Dynamic forms").
137190	Developer	SiteArchitect (JavaClient)	Scripting	Under "Actions" in the Organize area, it is possible to list all the menu and context menu scripts that are available for the currently activated object in the editing area. An error occurred here in that the client had to be restarted in order for new elements to be displayed.
138388	Developer	SiteArchitect (JavaClient)	Scripting	Default values which have been set by means of the method "setDefaultValues(FormData defaults)" of the interface "ShowFormDialogOperation" (Developer API, package "de.espirit.firstspirit.ui.operations") were by mistake not taken into account within forms.
143234	Developer	SiteArchitect (JavaClient)	Scripting	The method "getStore(Store.Type, boolean, boolean)" of the interface "UserService" (Access API, package "de.espirit.firstspirit.access") took partly not into account the last changes within the returned object.
143324	Developer	SiteArchitect (JavaClient)	Scripting	The method "perform(DataProvider)" of the interface "OpenElementDataFormOperation" (Developer API, package "de.espirit.firstspirit.ui.operations") can be used to show the form of an object. In addition, the method "setField(String)" can be used to highlight an input component within this form. This highlighting did not take place temporarily.
143479	Developer	SiteArchitect (JavaClient)	Scripting	An error would sometimes occur in the script when the "toXML()" method of the "BaseContextStoreElement" interface (Access API, "de.espirit.firstspirit.access.store" package) was called at the "Dataset" object level (Access API, interface: "Dataset", "de.espirit.firstspirit.access.store.contentstore" package).
146927	Developer	SiteArchitect (JavaClient)	Scripting	In the "hasIncomingReferences()" method of the "StoreElement" interface (Access API, "de.espirit.firstspirit.access.store" package), usage in relation to templates has been improved in the case of a referencing object that has not yet been released.
148029	Developer	SiteArchitect (JavaClient)	Scripting	In "Advanced URL Creator" (SEO URLs), configuration parameters can be transferred in a generation schedule using "#urlCreatorSettings". A case-sensitive approach has now been introduced for the parameters (see subpoint "URL Creator development" in the introduction).
142273	Developer	SiteArchitect (JavaClient)	Template Development	In the CMS_INPUT_NUMBER input component, the "format" parameter can be used in the LANGINFO tag to specify how numbers should be represented within the input component. If an invalid value is entered for the parameter, an error message is now displayed and the user is prevented from saving the input component.
144038	Developer	SiteArchitect (JavaClient)	Template Development	The snippet definition of the link templates is now also taken into account in the version history.
145503	Developer	SiteArchitect (JavaClient)	Template Development	The Content Highlighting and EasyEdit/InEdit functionalities can be configured by means of the instructional function "editorId(...)". A template can be specified as a parameter of this function. Unfortunately, an invalid reference was created in this case.
150023	Developer	SiteArchitect (JavaClient)	Template Development	In migration projects of FirstSpirit version 4.2 Release 4, use of the input component FS_BUTTON in conjunction with the attribute "allowEmpty" led to a display error in FirstSpirit version 5.0. In the context of the FS_BUTTON input component, the attribute "allowEmpty" has been marked deprecated and should no longer be used.
150222	Developer	SiteArchitect (JavaClient)	Template Development	During full generations, a CMS_INPUT_COMBOBOX column could not be accessed by means of the system object "#row" in migration projects in very rare cases.
146812	Developer	SiteArchitect (JavaClient)	Template Store	In FirstSpirit, the process of assigning IDs for templates (known as: template IDs) has been improved.
150709	FirstSpirit Administrator	Administration	Backup	Importing a snapshot export ("Enterprise Backup" functionality) on another FirstSpirit server has could lead to a problem in very rare cases so far if one element of the export had a higher ID than the target server. The target server will be adapted to the deviating ID space from now on.
143996	FirstSpirit Administrator	Administration	None	Symlinks can be created in the file system in Unix and Linux operating systems. In case of a faulty configuration they can refer to themselves. This could lead to a defective result in FirstSpirit when checking the used disc space (quota).
141162	FirstSpirit Administrator	Administration	Preview	A FirstSpirit server can be configured such that, for example, PHP pages are served via an Apache web server (fs-server.conf, parameters "preview.externalDelivery" and "preview.externalDeliveryURL"). This caused erroneous behavior.
154682	FirstSpirit Administrator	None	Modules	Using the "FirstSpirit™ Security" module in combination with the generation of Advanced URLs (Generation) could lead to malfunctions.
144674	FirstSpirit Administrator	ServerManager (Server and Project Configuration)	Export / Import	Project exports in FirstSpirit can be restricted to a specific revision. Temporarily, the IDs from the original project have been retained by mistake for some objects when importing such an export file.
147193	FirstSpirit Administrator	ServerManager (Server and Project Configuration)	Export / Import	During project import, import files with an invalid file extension are rejected.
148005	FirstSpirit Administrator	ServerManager (Server and Project Configuration)	Export / Import	Security improvements have been made with regard to the project export function.
148166	FirstSpirit Administrator	ServerManager (Server and Project Configuration)	Export / Import	New IDs are assigned during project import in place of the old IDs. The API (field "CUSTOM_PROPERTY_IMPORT_IDMAP", interface "Project", Access API, package "de.espirit.firstspirit.access.project.Project") can be used to determine the assignment between old and new IDs. These assignments have not been stored temporarily during project imports.
144159	FirstSpirit Administrator	ServerManager (Server and Project Configuration)	Generation	After addition of datasets, delta generation in conjunction with a combination of several languages and output channels could lead to redundant generation of content projection pages. Now, generation will be stopped if these have already been generated
149328	FirstSpirit Administrator	ServerManager (Server and Project Configuration)	Preview	An encoding can be defined for the preview, in fact within the application for Server and project configuration / Project properties / area "Languages" and within JavaClient / Media Store / Media / Detailed information). These definitions were not taken into account for the external preview.
143798	FirstSpirit Administrator	ServerManager (Server and Project Configuration)	Tasks	In FirstSpirit, parallel schedule execution has been made more stable.
146085	FirstSpirit Administrator	ServerManager (Server and Project Configuration)	Tasks	When a schedule is created, it is possible to store users and groups who are authorized to execute the schedule concerned. When a change is made in these lists, the overview is now refreshed immediately.
150816	FirstSpirit Administrator	SiteArchitect (JavaClient)	ContentTransport	Transporting a dataset using the "ContentTransport" functionality could lead to inappropriate behavior within the target project, if a table in the database schema of the target project contained more columns than the source project.

ID	Role	Category	Sub Category	Description
142820	FirstSpirit Administrator	SiteArchitect (JavaClient)	Corporate Content	Adding a database schema to a template package (Corporate Content, formerly: PackagePool) could lead to an error.
149472	FirstSpirit Administrator	SiteArchitect (JavaClient)	Generation	The attempt to generate a dataset referenced in a language-dependent FS_LIST or FS_DATASET component using a language which is set to not be generated caused a WARN-level message to be logged during generation. Now, an INFO-level message will be logged instead. This also affects datasets that do not have a release revision.
147797	FirstSpirit Administrator	SiteArchitect (JavaClient)	Modules	When developing an individual module for the URLCreator the parameter "UseRegistry" can be defined within the "module.xml" file. If the value "false" was set here, other parameter have not been processed.
141397	Server Administrator	Administration	None	The management of temporary module files of the FirstSpirit server has been improved. These files have been kept within the Temp directory of the system (for example "/tmp/...") so far. From now on these files are stored within the working directory of the FirstSpirit server ("work" directory).