



# FirstSpirit™

*Unlock Your Content*

## **FirstSpirit™ Maintenance Build** **FirstSpirit™ Version 5.2 Release 6**

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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](mailto:info@e-Spirit.com)  
[www.e-Spirit.com](http://www.e-Spirit.com)

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# 1 Administration

## 1.1 Caching of preview files

When a preview is requested, the previewed page may be cached such that, at a later time, further preview requests for this page may be displayed more quickly.

Multi Perspective Preview (MPP) allows previews of pages as they would look at future dates. These previews were previously also cached by default. As of the current FirstSpirit version, caching of these future previews may now be deactivated globally as needed.

Configuration of this caching behavior is carried out in the configuration file `fs-server.conf` using the new parameter `preview.enableTemporalPreviewCache`:

- `true`: Preview pages will be cached. This potentially creates many files, enabling previews for previously viewed pages to load faster. (Default value)
- `false`: Preview pages will **not** be cached. This causes all relevant files to be created anew upon a preview request. This potentially causes more load but creates fewer files in the cache directory.

Use of `true` is recommended if editors are able to request previews for pages as they would look at future dates via the MPP timeline.

Until now, due to the previous caching implementation, it was possible that previews of pages representing future states were not always up-to-date or correct. This erroneous behavior was also corrected in this context.

For further information about MPP, see

- *FirstSpirit SiteArchitect / FirstSpirit AppCenter / Integrated preview / Multi Perspective Preview (→Documentation FirstSpirit SiteArchitect)*
- *Template development / JavaScript APIs / Multi Perspective Preview (→FirstSpirit Online Documentation)*



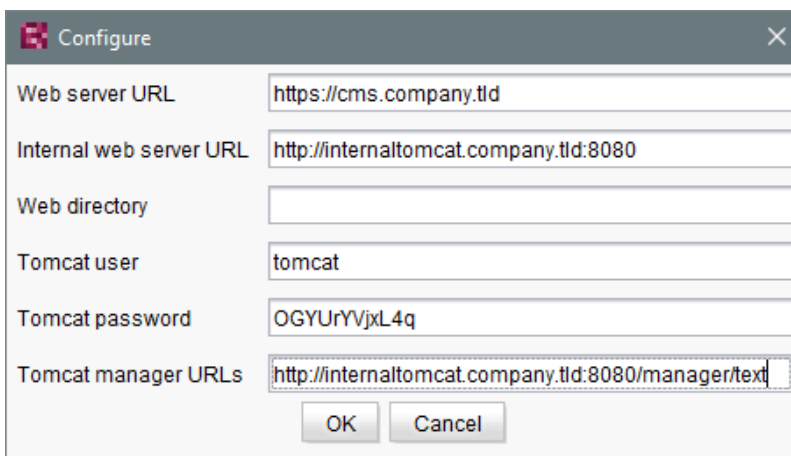
For further information about the new parameter `preview.enableTemporalPreviewCache`, see *FirstSpirit Manual for Administrators*, chapter “Area: Preview”.

## 1.2 Updating web applications on external web servers

FirstSpirit may be operated with external web servers (e.g. Apache Tomcat), for example in order to use special server-side implementations such as PHP or ASP.

During each start-up phase, the FirstSpirit server checks if the version of each web application rolled out to an external web server is up-to-date. If this is not the case, the FirstSpirit server updates the web application. Generally, the check if a web application is up-to-date is possible with the previous web server configuration (via the “Web server URL”, see illustration below). In some cases, however, this check is not possible via this URL, such that the web applications would be updated during each start-up phase of the FirstSpirit server. In these cases, from the current FirstSpirit version onwards, the internal web server URL of the web server may be configured for each web server (ServerManager / Server properties / area “Web server”, field “Internal web server URL”).

E.g. for the type “Tomcat”:



The screenshot shows a 'Configure' dialog box with the following fields and values:

Field	Value
Web server URL	https://cms.company.tld
Internal web server URL	http://internaltomcat.company.tld:8080
Web directory	
Tomcat user	tomcat
Tomcat password	OGYUrYVjxL4q
Tomcat manager URLs	http://internaltomcat.company.tld:8080/manager/text

Buttons: OK, Cancel

Notes: The URL will only be used if the web directory is not set (field “Web directory”). The field “Internal web server URL” is not evaluated for web servers of the type “External” at the moment.

In this context, a method `getInternalURL` has been added to the interface `WebServer` (FirstSpirit Developer API, package `de.espirit.firstspirit.module`). This method provides the URL that is set for a web server in the field “Internal web server URL”.



**Note:** The corresponding API documentation (see e.g. *Online Documentation for FirstSpirit (ODFS)*, “Template development / FirstSpirit API / API documentation”) will be published with the next release of FirstSpirit, however, the new functionality may already be used as of the current FirstSpirit version.

For further information about use and configuration of web servers, see *FirstSpirit Manual for Administrators*:

- “Web server configuration (fs-webapp.xml)”
- “Integration into an external web server”
- “Web server”

## 2 Module Development, Scripts, API

### 2.1 Triggering a preview update via API (SiteArchitect and ContentCreator)

In order to make changes to data visible in the preview (SiteArchitect and ContentCreator), an update of the preview must be triggered. Generally, this happens automatically upon saving forms, sections, pages, datasets, etc.

As of the current FirstSpirit version, it is also possible to trigger a preview update via API for actions and changes that do not affect content-relevant data (e.g. changes made from within a workflow). In the past, preview updates could already be triggered in ContentCreator via `WE_API.Preview.reload()`.

In both SiteArchitect and ContentCreator, an update of the preview may now be triggered via the newly-implemented interface `PreviewOperation` (package `de.espirit.firstspirit.ui.operations`, FirstSpirit Developer API).

- The method `perform()` triggers a reload of the currently displayed preview.
- Using the method `setElement(IDProvider element)`, an ID of an element may be supplied for which the preview should be updated (page reference, page, section, dataset, medium, etc.). If the supplied element cannot be displayed in the preview, an error message indicating this will be output (“The element 'xyz' cannot be displayed in the preview.”).



Sample script to trigger a preview update for a page reference (ID 866948):

```
import de.espirit.firstspirit.agency.OperationAgent;
import de.espirit.firstspirit.ui.operations.PreviewOperation;
import de.espirit.firstspirit.agency.StoreAgent;
import de.espirit.firstspirit.access.store.Store;
// -- fetch element from site store
storeAgt = context.requireSpecialist(StoreAgent.TYPE);
sitestore = storeAgt.getStore(Store.Type.SITESTORE);
element = sitestore.getStoreElement(866948);
print(element);
// -- load and perform preview operation with element
operationAgt = context.requireSpecialist(OperationAgent.TYPE);
operation = operationAgt.getOperation(PreviewOperation.TYPE);
operation.setElement(element);
operation.perform();
```

**Note:** The corresponding API documentation (see e.g. *Online Documentation for FirstSpirit (ODFS)*, “Template development / FirstSpirit API / API documentation”) will be published with the next release of FirstSpirit, however, the new functionality may already be used as of the current FirstSpirit version.

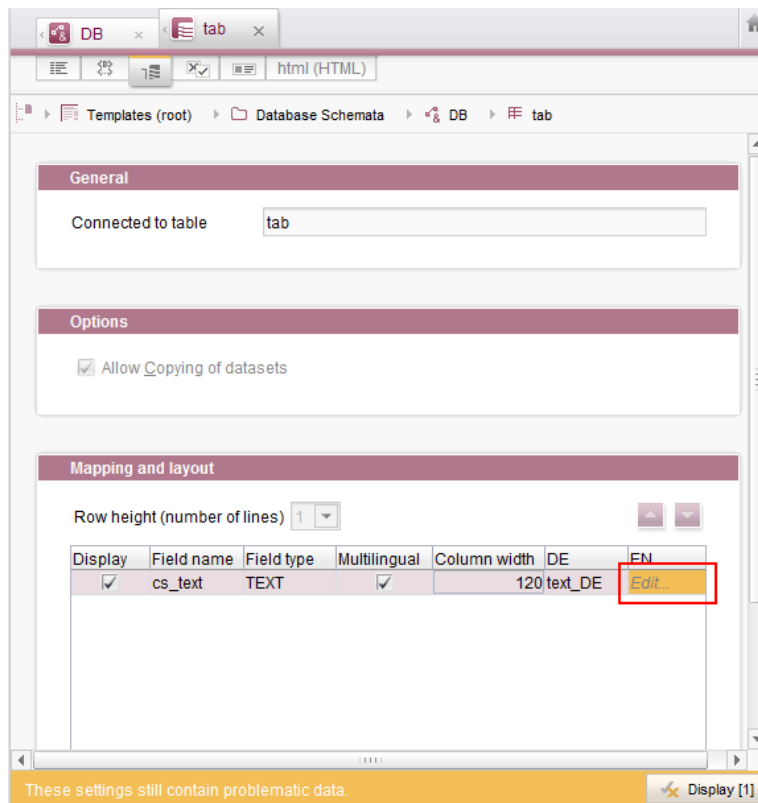
### 3 Modules: Corporate Content

#### 3.1 Multisite Management: Transport of table templates into projects with different language counts

The multisite management functionalities “FirstSpirit ContentTransport” and “External Synchronization” enable transport of project contents and project properties from a source project into a target project.

If a table template is transported from a source project into a target project which is configured with a different set of languages, the columns of languages that are not present in the source will be removed in the target project. Until now, this also caused removal of the mapping for these additional, non-present languages in the target project, e.g.



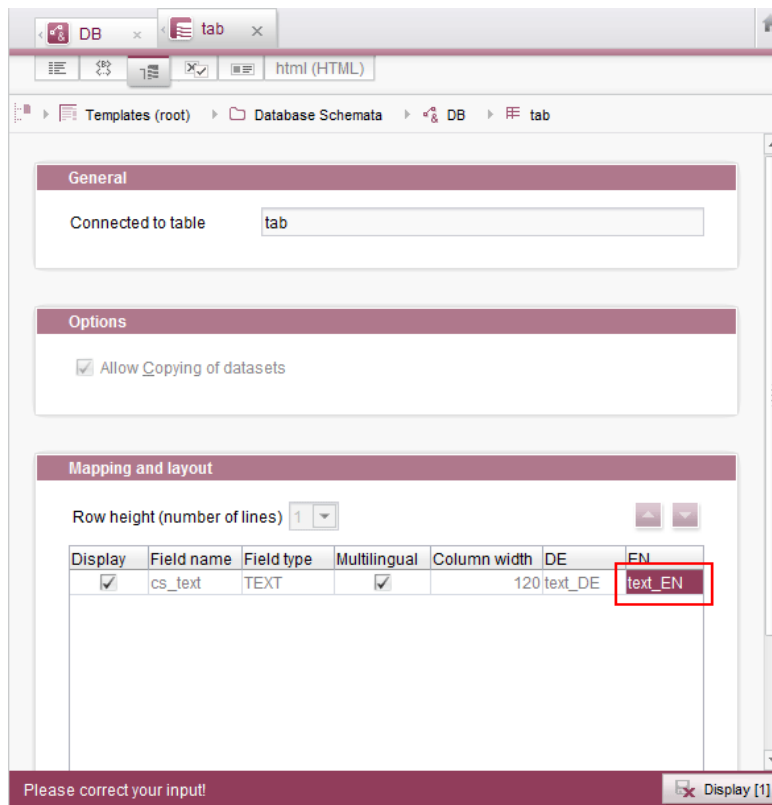


In this case, the mapping had to be adjusted manually if the missing language column was added to the database schema in the target project.

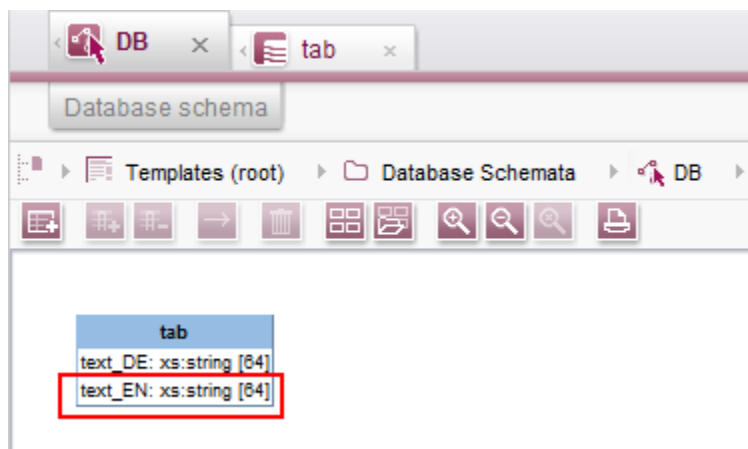
As of the current FirstSpirit version, the mapping will be preserved. In the “Mapping” tab, the missing language column will be visualized with a red highlight after import into the target project:







In order to restore the mapping, it is now sufficient to create the missing language column anew in the database schema, e.g.:



The mapping will then be adjusted automatically.



## 4 System

### 4.1 Signing with SHA-256

Previously, FirstSpirit JAR files were signed using SHA-1. Oracle is planning to cease support of SHA-1 in the JDK version lines 6, 7, and 8 in April 2017 (see <https://www.java.com/en/jre-jdk-cryptoroadmap.html>).

Due to this reason, as of the current FirstSpirit version, signing is now carried out using SHA-256.

Starting in April 2017, if an existing FirstSpirit installation should be used with a newer Java version which no longer supports SHA-1, an update to the current FirstSpirit version is required as well in order to continue using FirstSpirit with Oracle JDKs.

For further information, see [FirstSpirit Community](#).

If you have further questions about this topic, please contact e-Spirit's Technical Support team via <https://help.e-spirit.com>.

## 5 Overview

ID	Description	Categories
133908	<p>In SiteArchitect and ContentCreator, an update of the preview may be triggered via the newly-implemented interface <code>PreviewOperation</code> (package <code>de.espirit.firstspirit.ui.operations</code>, FirstSpirit Developer API).</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Triggering a preview update via API (SiteArchitect and ContentCreator)”.</p>	ContentCreator, FirstSpirit API, SiteArchitect
171819	When using Oracle databases, archiving datasets could cause erroneous behavior.	Archiving
174427	<p>As of the current FirstSpirit version, signing of FirstSpirit JAR files is carried out using SHA-256.</p> <p>Further information can be found in chapter “System: Signing with SHA-256”.</p>	FirstSpirit Administrator



ID	Description	Categories
175662	Optimized interaction pattern when executing workflows with automatic actions on multiple objects.	SiteArchitect, Workflow
184407	Improved evaluation of parameters passed in connection settings when starting the FirstSpirit Launcher.	Launcher
187137	The new parameter <code>preview.enableTemporalPreviewCache</code> (in the configuration file <code>fs-server.conf</code> ) may be used to affect caching for preview pages.  Further information can be found in chapter “Administration: Caching of preview files”.	FirstSpirit Administrator, Preview
189535	In the input component FS_DATASET with <code>mode="dialog"</code> , saving after switching between languages could lead to erroneous behavior.	Input Components, SiteArchitect
189635	Modified log output for the report “Project History” when starting ContentCreator.	ContentCreator
191363	In the input component CMS_INPUT_DOM with active spell check, erroneous behavior could occur.	ContentCreator
191874	In the input component CMS_INPUT_DATE, input via keyboard could cause erroneous behavior.	ContentCreator
192456	When copying sections, the original order was erroneously not observed.	Page Store, SiteArchitect
192462	Erroneous behavior could occur when using the functionality “LiveEdit”.	ContentCreator
193207	For newly-created sections, toggling the option “Include this section in the output” was erroneously not observed during rule evaluation if the page was already in edit mode.	Dynamic Forms
193885	When using multiple monitors, the position of SiteArchitect was erroneously not considered when displaying confirmation dialogs.	SiteArchitect
193911	Improved observation of restrictions in the input component FS_REFERENCE when multiple remote connections to the own project are used.	Input Components, SiteArchitect
193930	In very rare cases, using code completion in the form could cause erroneous behavior.	Template Development



ID	Description	Categories
194369	Modified logging during FirstSpirit server start-up for the case that web applications are running on an external Tomcat.	FirstSpirit Administrator
194524	Erroneous behavior could occur when using the methods <code>hasGui()</code> and <code>getGui(Frame)</code> of the interface <code>Configuration</code> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.module</code> ).	Developer, Modules
194616	Improved rules evaluation in the input component <code>CMS_INPUT_LINK</code> .	Dynamic Forms, SiteArchitect
194853	In the input component <code>CMS_INPUT_DOM</code> , corrected copying of links between different languages.	ContentCreator
195216	From the current FirstSpirit version onwards, an internal web server URL may be configured for web server.  Further information can be found in chapter “Administration: Updating web applications on external web servers”.	FirstSpirit Administrator, ServerManager
195538	Performance improvements related to the Page Content store when saving a page with many sections.	SiteArchitect
195581	In very rare cases, using the input component <code>FS_INDEX</code> within a language-dependent <code>FS_CATALOG</code> input component could cause erroneous behavior.	ContentCreator
195823	In image galleries (input component <code>FS_LIST</code> , type <code>DATABASE</code> with <code>&lt;MEDIAMODE&gt;</code> tag), a manually created sort order of entries was erroneously not observed.	Input Components, SiteArchitect
195999	Optimized transport of table templates into a target project with a different language set.  Further information can be found in chapter “Modules: Corporate Content: Multisite Management: Transport of table templates into projects with different language counts”.	Content Transport, SiteArchitect, Table templates
196290	In rare cases, the tag “style” could be stored multiple times when saving format templates.	Developer
196370	Improved Java compatibility during FirstSpirit installation on Linux.	FirstSpirit Administrator
196430	Improved error message when uploading images with unmet criteria.	FirstSpirit API



ID	Description	Categories
196442	When using external logic in dynamic forms, setting a value in the input component CMS_INPUT_TEXT could cause erroneous behavior.	Dynamic Forms, Template Development
196444	Improvements related to the Template Wizard.	Template Wizard
196496	Optimized the method <code>reload(Element)</code> (JavaScript API, JavaScript object: <code>top.WE_API.Preview</code> ), which is used to update part of a document.	ContentCreator
196545	Erroneous behavior could occur when the “pluggability” feature (Java Servlet Specification 3.0) was deactivated.	FirstSpirit Administrator
196612	In the input component CMS_INPUT_DOMTABLE, saving links could lead to erroneous behavior.	ContentCreator
196753	Improved initialization of the class loader in SiteArchitect.	Isolated mode (BETA)
196763	Improved display of keyboard shortcuts in tool tips.	SiteArchitect
196874	In non-Webstart environments (Launcher), the menu entry “Switch Projects” was erroneously active.	SiteArchitect

## 6 Categories

### 6.1 Archiving

ID	Description
171819	When using Oracle databases, archiving datasets could cause erroneous behavior.

### 6.2 Content Transport

ID	Description
195999	Optimized transport of table templates into a target project with a different language set.  Further information can be found in chapter “Modules: Corporate Content: Multisite Management: Transport of table templates into projects with different language counts”.



## 6.3 ContentCreator

ID	Description
133908	In SiteArchitect and ContentCreator, an update of the preview may be triggered via the newly-implemented interface <code>PreviewOperation</code> (package <code>de.espirit.firstspirit.ui.operations</code> , FirstSpirit Developer API).  Further information can be found in chapter “Module Development, Scripts, API: Triggering a preview update via API (SiteArchitect and ContentCreator)”.
189635	Modified log output for the report “Project History” when starting ContentCreator.
191363	In the input component CMS_INPUT_DOM with active spell check, erroneous behavior could occur.
191874	In the input component CMS_INPUT_DATE, input via keyboard could cause erroneous behavior.
192462	Erroneous behavior could occur when using the functionality “LiveEdit”.
194853	In the input component CMS_INPUT_DOM, corrected copying of links between different languages.
195581	In very rare cases, using the input component FS_INDEX within a language-dependent FS_CATALOG input component could cause erroneous behavior.
196496	Optimized the method <code>reload(Element)</code> (JavaScript API, JavaScript object: <code>top.WE_API.Preview</code> ), which is used to update part of a document.
196612	In the input component CMS_INPUT_DOMTABLE, saving links could lead to erroneous behavior.

## 6.4 Developer

ID	Description
194524	Erroneous behavior could occur when using the methods <code>hasGui()</code> and <code>getGui(Frame)</code> of the interface <code>Configuration</code> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.module</code> ).
196290	In rare cases, the tag “style” could be stored multiple times when saving format templates.



## 6.5 Dynamic Forms

ID	Description
193207	For newly-created sections, toggling the option “Include this section in the output” was erroneously not observed during rule evaluation if the page was already in edit mode.
194616	Improved rules evaluation in the input component CMS_INPUT_LINK.
196442	When using external logic in dynamic forms, setting a value in the input component CMS_INPUT_TEXT could cause erroneous behavior.

## 6.6 FirstSpirit API

ID	Description
133908	<p>In SiteArchitect and ContentCreator, an update of the preview may be triggered via the newly-implemented interface <code>PreviewOperation</code> (package <code>de.espirit.firstspirit.ui.operations</code>, FirstSpirit Developer API).</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Triggering a preview update via API (SiteArchitect and ContentCreator)”.</p>
196430	Improved error message when uploading images with unmet criteria.

## 6.7 FirstSpirit Administrator

ID	Description
174427	<p>As of the current FirstSpirit version, signing of FirstSpirit JAR files is carried out using SHA-256.</p> <p>Further information can be found in chapter “System: Signing with SHA-256”.</p>
187137	<p>The new parameter <code>preview.enableTemporalPreviewCache</code> (in the configuration file <code>fs-server.conf</code>) may be used to affect caching for preview pages.</p> <p>Further information can be found in chapter “Administration: Caching of preview files”.</p>
194369	Modified logging during FirstSpirit server start-up for the case that web applications are running on an external Tomcat.



ID	Description
195216	From the current FirstSpirit version onwards, an internal web server URL may be configured for web server.  Further information can be found in chapter “Administration: Updating web applications on external web servers”.
196370	Improved Java compatibility during FirstSpirit installation on Linux.
196545	Erroneous behavior could occur when the “pluggability” feature (Java Servlet Specification 3.0) was deactivated.

## 6.8 Input Components

ID	Description
189535	In the input component FS_DATASET with <code>mode="dialog"</code> , saving after switching between languages could lead to erroneous behavior.
193911	Improved observation of restrictions in the input component FS_REFERENCE when multiple remote connections to the own project are used.
195823	In image galleries (input component FS_LIST, type DATABASE with <code>&lt;MEDIAMODE&gt;</code> tag), a manually created sort order of entries was erroneously not observed.

## 6.9 Isolated mode (BETA)

ID	Description
196753	Improved initialization of the class loader in SiteArchitect.

## 6.10 Launcher

ID	Description
184407	Improved evaluation of parameters passed in connection settings when starting the FirstSpirit Launcher.





## 6.11 Modules

ID	Description
194524	Erroneous behavior could occur when using the methods <code>hasGui()</code> and <code>getGui(Frame)</code> of the interface <code>Configuration</code> (FirstSpirit Developer API, package <code>de.espirit.firstspirit.module</code> ).

## 6.12 Page Store

ID	Description
192456	When copying sections, the original order was erroneously not observed.

## 6.13 Preview

ID	Description
187137	The new parameter <code>preview.enableTemporalPreviewCache</code> (in the configuration file <code>fs-server.conf</code> ) may be used to affect caching for preview pages.  Further information can be found in chapter “Administration: Caching of preview files”.

## 6.14 ServerManager

ID	Description
195216	From the current FirstSpirit version onwards, an internal web server URL may be configured for web server.  Further information can be found in chapter “Administration: Updating web applications on external web servers”.



## 6.15 SiteArchitect

ID	Description
133908	<p>In SiteArchitect and ContentCreator, an update of the preview may be triggered via the newly-implemented interface <code>PreviewOperation</code> (package <code>de.espirit.firstspirit.ui.operations</code>, FirstSpirit Developer API).</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Triggering a preview update via API (SiteArchitect and ContentCreator)”.</p>
175662	Optimized interaction pattern when executing workflows with automatic actions on multiple objects.
189535	In the input component FS_DATASET with <code>mode="dialog"</code> , saving after switching between languages could lead to erroneous behavior.
192456	When copying sections, the original order was erroneously not observed.
193885	When using multiple monitors, the position of SiteArchitect was erroneously not considered when displaying confirmation dialogs.
193911	Improved observation of restrictions in the input component FS_REFERENCE when multiple remote connections to the own project are used.
194616	Improved rules evaluation in the input component CMS_INPUT_LINK.
195538	Performance improvements related to the Page Content store when saving a page with many sections.
195823	In image galleries (input component FS_LIST, type DATABASE with <code>&lt;MEDIAMODE&gt;</code> tag), a manually created sort order of entries was erroneously not observed.
195999	<p>Optimized transport of table templates into a target project with a different language set.</p> <p>Further information can be found in chapter “Modules: Corporate Content: Multisite Management: Transport of table templates into projects with different language counts”.</p>
196763	Improved display of keyboard shortcuts in tool tips.
196874	In non-Webstart environments (Launcher), the menu entry “Switch Projects” was erroneously active.



## 6.16 Table templates

ID	Description
195999	Optimized transport of table templates into a target project with a different language set.  Further information can be found in chapter “Modules: Corporate Content: Multisite Management: Transport of table templates into projects with different language counts”.

## 6.17 Template Development

ID	Description
193930	In very rare cases, using code completion in the form could cause erroneous behavior.
196442	When using external logic in dynamic forms, setting a value in the input component CMS_INPUT_TEXT could cause erroneous behavior.

## 6.18 Template Wizard

ID	Description
196444	Improvements related to the Template Wizard.

## 6.19 Workflow

ID	Description
175662	Optimized interaction pattern when executing workflows with automatic actions on multiple objects.

