FirstSpirit™ Unlock Your Content

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e-Spirit

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1 Java support (Oracle Java 9)

FirstSpirit 5.2 is compatible with Oracle Java 7 and Oracle Java 8 (for information on restrictions and reference versions please see "FirstSpirit Technical Datasheet").

Internal testing has shown that FirstSpirit is not compatible with Oracle Java 9, which will be officially released in September 2017. However it is intended to support Java 9 in the future.

2 Administration

2.1 Archiving: Tagged revisions are now partly taken into account

Some FirstSpirit actions automatically generate tags for revisions (e.g., generation, content transport). Such tags can also be generated via API (`createTag` method in the `Project` interface, `de.espirit.firstspirit.access.project` package, FirstSpirit Access API).
Revisions with these tags have previously not been taken into account during archiving. In the current FirstSpirit version, revisions and tags whose tag name ends with the suffix "Task" are now archived, e.g., revisions and tags created automatically during generation or other Scheduler entries. This archived data can be deleted at a later date, in order to free up memory space and therefore increase the performance of the FirstSpirit Server.

2.2 Importing a project with missing presentation channel

If a project with a template set ("ServerManager / Project properties / Template sets") is imported to a FirstSpirit Server for which there is no presentation channel ("ServerManager / Server properties / Presentation channels") on the server, this is now logged with the following error:

```
Error: Unable to map channel for template set 'html', channel 5 not found
```

In order to use the project, it must be activated in the ServerManager after importing via the "Project / Reactivate" function, and the desired template set (available on the server) must be selected under "Project properties / Template sets".

2.3 Isolated mode: Jetty web server is now also available as a module

Using the open source product "Eclipse Jetty", which is integrated into FirstSpirit, a web server as well as a JSP/Servlet-Engine are provided, running as part of the FirstSpirit server in the same VM.

As part of the refactoring for the module development in the so-called "Isolated mode" (see *FirstSpirit Developer Manual for components (German only)*, chapter "Isolated mode"), Jetty has been implemented as a module: `fs-jetty.fsm`. Because of the isolated class loading the Jetty server behaves like an external web server and is therefore suitable for being used with a FirstSpirit server operated in "Isolated mode". The module may be installed parallel to the previous implementation "InternalJetty" (see *FirstSpirit Manual for Administrators*, chapter "Apache HTTP Server with the Jetty servlet engine" e.g. the parameter `INTERNAL_SERVLET_ENGINE` in `fs-server.conf` is set to 1 or undefined).

In order to use Jetty as a module, the module has to be installed on the FirstSpirit server and the corresponding service "JettyService" has to be started in the server properties of the ServerManager. Here it is also possible to configure the favored port (changing the port requires a restart of the service):
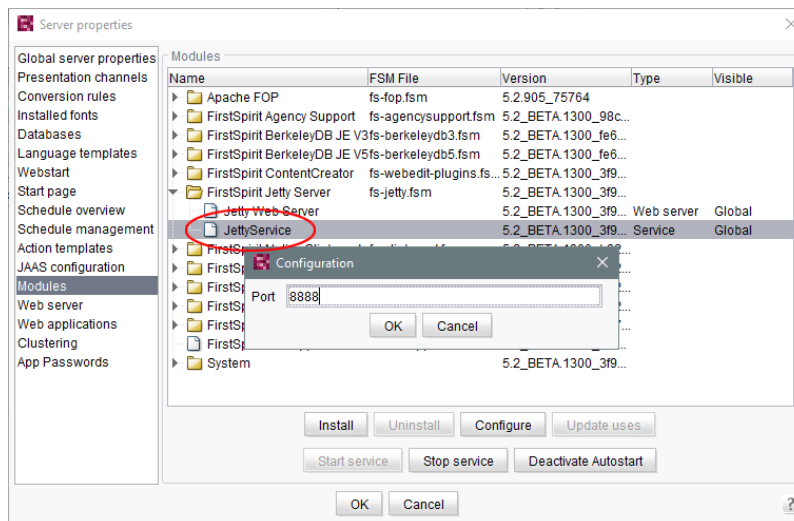
A new web server of the type "Jetty Web Server" may be added using "Webserver" in the server properties (e.g. with the name "IsolatedJetty"):
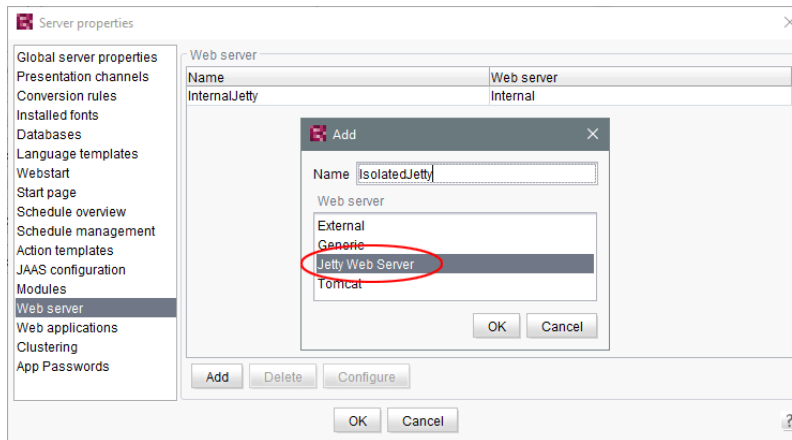
The web server may now be selected in the project properties under "Web components":
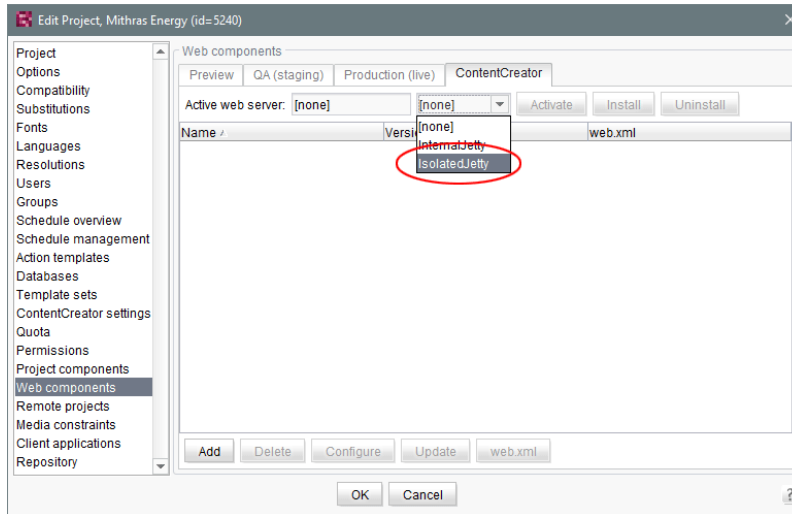
> **!** Both the previous implementation "InternalJetty" as well as the new module are not suitable for productive use and should only be used for testing purposes.

3 External Synchronization / Content Transport

3.1 Export of database schema information has been modified

By using the keyword COMMON it is possible to export or import the properties of a project:

```
fs-cli export projectproperty:COMMON
```

The current FirstSpirit version does not transmit information about layers used by the project anymore (FirstSpirit ServerManager, "Project properties/ Databases"):
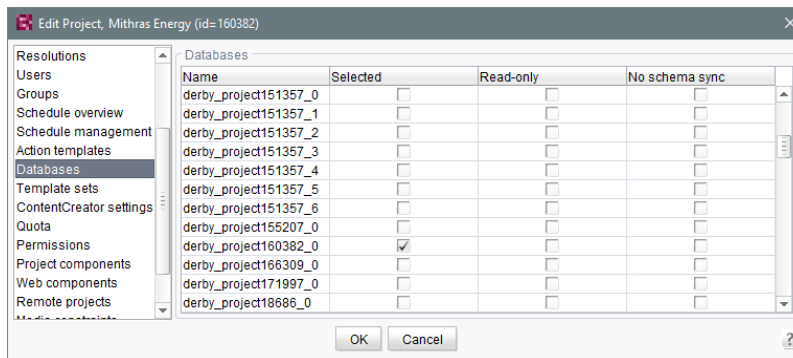
- "Selected"

- "Read-only"

- "No schema sync"

This change also affects FirstSpirit Content Transport.

4 Module Development, Scripts, API

4.1 Interface "Executable" (package "de.espirit.firstspirit.access.script") improved

The signature of the method `execute` in the interface `Executable` (package `de.espirit.firstspirit.access.script`, FirstSpirit Access-API) no longer uses `ExecutionException` (`de.espirit.firstspirit.access.script.ExecutionException`) and is therefore easier to implement.

4.2 Reacting to page navigation events in ContentCreator

ContentCreator provides a JavaScript API which allows control of some aspects of the user interface and the preview. This API's `Common` object has been extended with the method

`addPreviewElementListener(PreviewElementListener listener)`. The listener receives events pertaining to changes of the current preview element in ContentCreator. If a page navigation event is detected, the listeners' `onChanged(FSID)` function will be called. Depending on the current preview element, the FSID of the page reference or the FSID of the content projection will be passed as a parameter.

This API is accessed via the JavaScript object `top.WE_API`. The API can be used in preview HTML as well as in JavaScript-based actions (e.g. InlineEdit buttons or report actions). Additionally, the JavaScript API for ContentCreator can be used from within FirstSpirit scripts and executable classes by using a specialized operation (see *Template development / JavaScript APIs / ContentCreator* (→*FirstSpirit Online Documentation*)).

Example:

```
<script type="text/javascript">
  function handlePageReload(fsid) {
    if (fsid.getContentId() != -1) {
      // Page is based on a dataset
      console.log("This page is based on a dataset with contentID "
                  + fsid.getContentId() + " and content2ID " + fsid.getContent2());
    } else {
      // Page is based on a "normal" Pageref
      console.log("This page has the pagerefID " + fsid.getPageref());
    }
  }
  // Register function "handlePageReload" as a page reload listener
  top.WE_API.Common.addPreviewElementListener(handlePageReload);
</script>
```

5 Modules: Corporate Content

5.1 Allowed section templates are now only "optionally" required during an import process

Restrictions can be defined for page templates (for each content area) with regard to the allowed section templates ("Properties / Content areas" tab, "selected" option, "Allowed section templates" area):

The dependencies between page template and section template(s) when using "FirstSpirit Content Transport" were previously classified as "required". This meant, for example, that all of the allowed section templates belonging to a specific page template had to be imported at the same time as the page template. If the respective templates were missing in the target project, it was not possible to carry out the import. This prompted the following error message:

```
ERROR 10.02.2016 09:53:49.958 (de.espirit.firstspirit.impl.access.ScriptContextImpl):
Could not Install feature.
de.espirit.firstspirit.store.access.feature.FeatureInstallException: Error installing
feature. Broken id reference (id=57371, projectId=8, uid='home',
type=SectionTemplateImpl)
```

In the current FirstSpirit version, such dependencies between page template and allowed section templates are now classified as "optional": It is possible to carry out an import even if the target project does not contain the dependent templates. In this case, the non-resolvable dependencies are removed from the page template in the target project, i.e., the configured allowed section templates in the page template if the section templates are missing in the target project.

Use the "Required missing references" or "Optional missing references" area to view the missing dependencies for a FirstSpirit object:
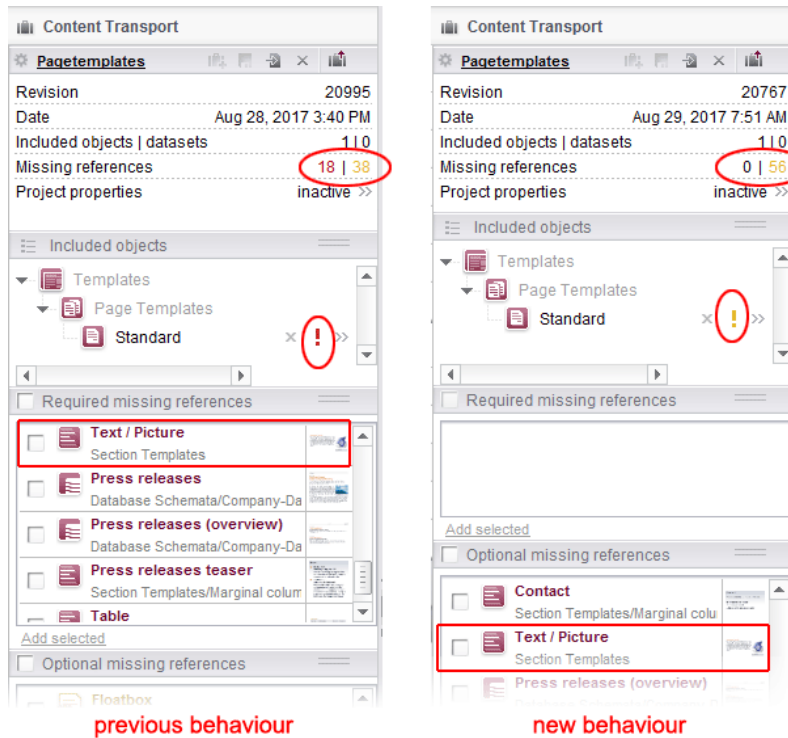
6 SiteArchitect

6.1 List view at folder level in the Media Store

As of the current FirstSpirit version, you can now select a list view in addition to the previously available Thumbnail view for the "Overview" tab at folder level in the Media Store. Use the **Customize layout** icon in the top right-hand corner to switch between the two views. The selected view applies to all folders in the Media Store and is also used for the respective user in other projects on the server.

List view
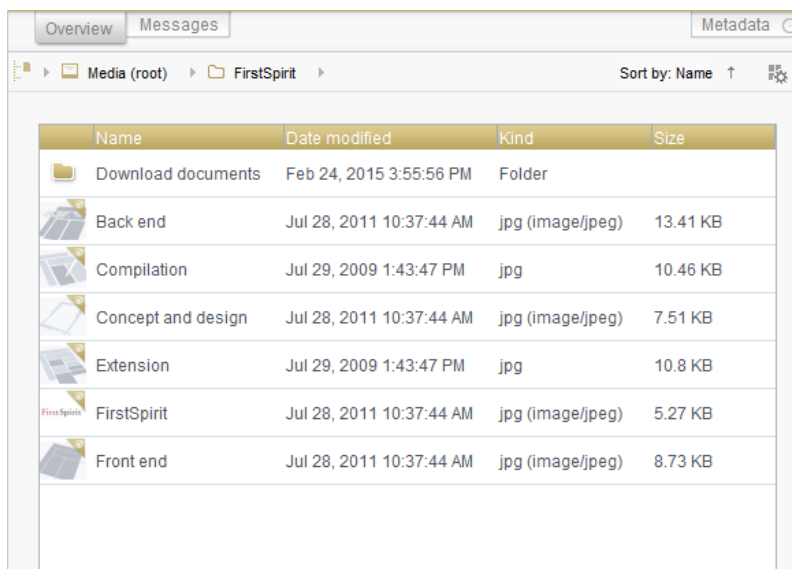
The list view contains columns for the preview icon, display name, change date, file type, and file size.

The width of the individual columns can be adjusted by dragging the column border with the mouse.

Click on a column heading to display the media sorted according to the values in the relevant column.

7 Overview

ID	Description	Categories
156177	The interface `Executable` has been improved. Further information can be found in chapter "Module Development, Scripts, API: Interface "Executable" (package "de.espirit.firstspirit.access.script") improved".	Developer, FirstSpirit API
184333	Allowed section templates are now only "optionally" required during an import process. Further information can be found in chapter "Modules: Corporate Content: Allowed section templates are now only "optionally" required during an import process".	Content Transport

ID	Description	Categories
194677	You can suppress the media preview in the project properties in the ServerManager. This setting is now correctly evaluated in the SiteArchitect.	Preview, SiteArchitect
196130	When editing content using the "InEdit" function in the CMS_INPUT_RADIOBUTTON input component (single selection from a displayed list), the options could be displayed incorrectly.	ContentCreator
197485	Client logging has been optimized for the ServerManager.	ServerManager
197955	The detection of changes while renaming the display name of an element in the edit mode has been improved.	SiteArchitect
198570	Use the **Customize layout** icon in the top right-hand corner to switch between the "Thumbnail" and "List view" views. Further information can be found in chapter "SiteArchitect: List view at folder level in the Media Store".	Editor, Media Store, SiteArchitect
199837	Displaying the change date of datasets in the overview and sorting by the date of the latest change have been improved.	SiteArchitect
200630	As part of the refactoring for the module development in the so-called "Isolated mode" the integrated web server Jetty has been implemented as a module. Further information can be found in chapter "Administration: Isolated mode: Jetty web server is now also available as a module".	FirstSpirit Administrator, Integrated software, Isolated mode (BETA), Modules
200648	The detection of the file to be imported has been optimized when using the Import project function.	FirstSpirit Administrator, Project export / import
200757	The logging has been improved when a rule ("dynamic forms") is erroneous.	Dynamic Forms
200899	The current FirstSpirit version now archives revisions and tags whose tag name ends with the , such as revisions and tags created automatically during generation or other Scheduler entries. Further information can be found in chapter "Administration: Archiving: Tagged revisions are now partly taken into account".	Archiving, FirstSpirit API, FirstSpirit Administrator

ID	Description	Categories
201502	When deleting elements using project-specific workflows, the database write protection was incorrectly not taken into account.	Database, Workflow
201532	Creating a media folder in the Media Store has been improved.	ContentCreator
201679	In rare cases, erroneous behavior could occur when opening the selection dialog of the input component FS_INDEX.	Input Components, SiteArchitect
201922	As of the current FirstSpirit version, it is possible to react via API to page navigation events in ContentCreator. Further information can be found in chapter "Module Development, Scripts, API: Reacting to page navigation events in ContentCreator".	ContentCreator, Developer, FirstSpirit API
201974	When browsing the "Deleted objects" dialog, malfunctions could occur if a project has been archived beforehand.	Archiving, SiteArchitect
201978	Remote project configurations have been optimized to take account of deactivated projects.	Remote access
202051	While editing list entries in the input components FS_CATALOG or FS_LIST, erroneous behavior could occur when using drag-and-drop from a report.	ContentCreator, Reports
202101	Not maintaining language-dependent media for all languages could lead to malfunctions during the generation process.	Generation
202109	The server configuration layout has been improved.	ServerMonitoring
202127	It is now not possible to import a project with a template set which is missing on the destination server. The import will fail. Further information can be found in chapter "Administration: Importing a project with missing presentation channel".	Project export / import
202175	When creating a new dataset in a data source the consideration of the edit mode while saving has been improved.	SiteArchitect
202437	Synchronizing group definitions which may be transported within the project properties has been improved.	External synchronization
202504	Multiple reflexive configurations for remote projects in a project could lead to erroneous behavior in the selection dialog of the input component FS_REFERENCE.	SiteArchitect

ID	Description	Categories
202510	The persistence of web components used in global web applications (fs5root, fs5preview, fs5staging, fs5webedit) after a server start has been improved.	FirstSpirit Administrator
202600	The current FirstSpirit version does not transmit information about layers used by the project anymore. Further information can be found in chapter "External Synchronization / Content Transport: Export of database schema information has been modified".	Content Transport, External synchronization
202606	The rule evaluation in combination with the time of execution ONSAVE for the input component FS_LIST (Type SERVICE) has been optimized for ContentCreator.	ContentCreator, Dynamic Forms
202640	Refreshing preview images in templates has been optimized for External Synchronization.	External synchronization
202680	Selecting a different template for a page (context menu "Extras / Select another template") has been improved.	SiteArchitect
202965	The display of controls has been optimized for use with Google Chrome browser in version 61 and higher.	ContentCreator

8 Categories

8.1 Archiving

ID	Description
200899	The current FirstSpirit version now archives revisions and tags whose tag name ends with the , such as revisions and tags created automatically during generation or other Scheduler entries. Further information can be found in chapter "Administration: Archiving: Tagged revisions are now partly taken into account".
201974	When browsing the "Deleted objects" dialog, malfunctions could occur if a project has been archived beforehand.

8.2   Content Transport

ID	Description
184333	Allowed section templates are now only "optionally" required during an import process. Further information can be found in chapter "Modules: Corporate Content: Allowed section templates are now only "optionally" required during an import process".
202600	The current FirstSpirit version does not transmit information about layers used by the project anymore. Further information can be found in chapter "External Synchronization / Content Transport: Export of database schema information has been modified".

8.3   ContentCreator

ID	Description
196130	When editing content using the "InEdit" function in the CMS_INPUT_RADIOBUTTON input component (single selection from a displayed list), the options could be displayed incorrectly.
201532	Creating a media folder in the Media Store has been improved.
201922	As of the current FirstSpirit version, it is possible to react via API to page navigation events in ContentCreator. Further information can be found in chapter "Module Development, Scripts, API: Reacting to page navigation events in ContentCreator".
202051	While editing list entries in the input components FS_CATALOG or FS_LIST, erroneous behavior could occur when using drag-and-drop from a report.
202606	The rule evaluation in combination with the time of execution ONSAVE for the input component FS_LIST (Type SERVICE) has been optimized for ContentCreator.
202965	The display of controls has been optimized for use with Google Chrome browser in version 61 and higher.

8.4   Database

ID	Description
201502	When deleting elements using project-specific workflows, the database write protection was incorrectly not taken into account.

8.5   Developer

ID	Description
156177	The interface `Executable` has been improved. Further information can be found in chapter "Module Development, Scripts, API: Interface "Executable" (package "de.espirit.firstspirit.access.script") improved".
201922	As of the current FirstSpirit version, it is possible to react via API to page navigation events in ContentCreator. Further information can be found in chapter "Module Development, Scripts, API: Reacting to page navigation events in ContentCreator".

8.6   Dynamic Forms

ID	Description
200757	The logging has been improved when a rule ("dynamic forms") is erroneous.
202606	The rule evaluation in combination with the time of execution `ONSAVE` for the input component FS_LIST (Type SERVICE) has been optimized for ContentCreator.

8.7   Editor

ID	Description
198570	Use the **Customize layout** icon in the top right-hand corner to switch between the "Thumbnail" and "List view" views.

ID	Description
	Further information can be found in chapter "SiteArchitect: List view at folder level in the Media Store".

8.8   External synchronization

ID	Description
202437	Synchronizing group definitions which may be transported within the project properties has been improved.
202600	The current FirstSpirit version does not transmit information about layers used by the project anymore. Further information can be found in chapter "External Synchronization / Content Transport: Export of database schema information has been modified".
202640	Refreshing preview images in templates has been optimized for External Synchronization.

8.9   FirstSpirit API

ID	Description
156177	The interface `Executable` has been improved. Further information can be found in chapter "Module Development, Scripts, API: Interface "Executable" (package "de.espirit.firstspirit.access.script") improved".
200899	The current FirstSpirit version now archives revisions and tags whose tag name ends with the , such as revisions and tags created automatically during generation or other Scheduler entries. Further information can be found in chapter "Administration: Archiving: Tagged revisions are now partly taken into account".
201922	As of the current FirstSpirit version, it is possible to react via API to page navigation events in ContentCreator. Further information can be found in chapter "Module Development, Scripts, API: Reacting to page navigation events in ContentCreator".

8.10   FirstSpirit Administrator

ID	Description
200630	As part of the refactoring for the module development in the so-called "Isolated mode" the integrated web server Jetty has been implemented as a module. Further information can be found in chapter "Administration: Isolated mode: Jetty web server is now also available as a module".
200648	The detection of the file to be imported has been optimized when using the Import project function.
200899	The current FirstSpirit version now archives revisions and tags whose tag name ends with the , such as revisions and tags created automatically during generation or other Scheduler entries. Further information can be found in chapter "Administration: Archiving: Tagged revisions are now partly taken into account".
202510	The persistence of web components used in global web applications (fs5root, fs5preview, fs5staging, fs5webedit) after a server start has been improved.

8.11   Generation

ID	Description
202101	Not maintaining language-dependent media for all languages could lead to malfunctions during the generation process.

8.12   Input Components

ID	Description
201679	In rare cases, erroneous behavior could occur when opening the selection dialog of the input component FS_INDEX.

8.13   Integrated software

ID	Description
200630	As part of the refactoring for the module development in the so-called "Isolated mode" the integrated web server Jetty has been implemented as a module. Further information can be found in chapter "Administration: Isolated mode: Jetty web server is now also available as a module".

8.14   Isolated mode (BETA)

ID	Description
200630	As part of the refactoring for the module development in the so-called "Isolated mode" the integrated web server Jetty has been implemented as a module. Further information can be found in chapter "Administration: Isolated mode: Jetty web server is now also available as a module".

8.15   Media Store

ID	Description
198570	Use the **Customize layout** icon in the top right-hand corner to switch between the "Thumbnail" and "List view" views. Further information can be found in chapter "SiteArchitect: List view at folder level in the Media Store".

8.16   Modules

ID	Description
200630	As part of the refactoring for the module development in the so-called "Isolated mode" the integrated web server Jetty has been implemented as a module.

ID	Description
	Further information can be found in chapter "Administration: Isolated mode: Jetty web server is now also available as a module".

8.17   Preview

ID	Description
194677	You can suppress the media preview in the project properties in the ServerManager. This setting is now correctly evaluated in the SiteArchitect.

8.18   Project export / import

ID	Description
200648	The detection of the file to be imported has been optimized when using the Import project function.
202127	It is now not possible to import a project with a template set which is missing on the destination server. The import will fail. Further information can be found in chapter "Administration: Importing a project with missing presentation channel".

8.19   Remote access

ID	Description
201978	Remote project configurations have been optimized to take account of deactivated projects.

8.20   Reports

ID	Description
202051	While editing list entries in the input components FS_CATALOG or FS_LIST, erroneous behavior could occur when using drag-and-drop from a report.

8.21   ServerManager

ID	Description
197485	Client logging has been optimized for the ServerManager.

8.22   ServerMonitoring

ID	Description
202109	The server configuration layout has been improved.

8.23   SiteArchitect

ID	Description
194677	You can suppress the media preview in the project properties in the ServerManager. This setting is now correctly evaluated in the SiteArchitect.
197955	The detection of changes while renaming the display name of an element in the edit mode has been improved.
198570	Use the **Customize layout** icon in the top right-hand corner to switch between the "Thumbnail" and "List view" views. Further information can be found in chapter "SiteArchitect: List view at folder level in the Media Store".
199837	Displaying the change date of datasets in the overview and sorting by the date of the latest change have been improved.
201679	In rare cases, erroneous behavior could occur when opening the selection dialog of the input component FS_INDEX.
201974	When browsing the "Deleted objects" dialog, malfunctions could occur if a project has been archived beforehand.
202175	When creating a new dataset in a data source the consideration of the edit mode while saving has been improved.

ID	Description
202504	Multiple reflexive configurations for remote projects in a project could lead to erroneous behavior in the selection dialog of the input component FS_REFERENCE.
202680	Selecting a different template for a page (context menu "Extras / Select another template") has been improved.

8.24   Workflow

ID	Description
201502	When deleting elements using project-specific workflows, the database write protection was incorrectly not taken into account.