FirstSpirit™
Unlock Your Content

Release Notes
FirstSpirit™ 2023.9

Status   **RELEASED**

Department   FS-Core
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1   Administration

1.1   Display of the derby layers used in the project

In the ServerManager, derby layers are now hidden in the project properties under the "Databases" option if they have not been selected.

Using the new checkbox "Show databases for all projects", all database layers can be shown.
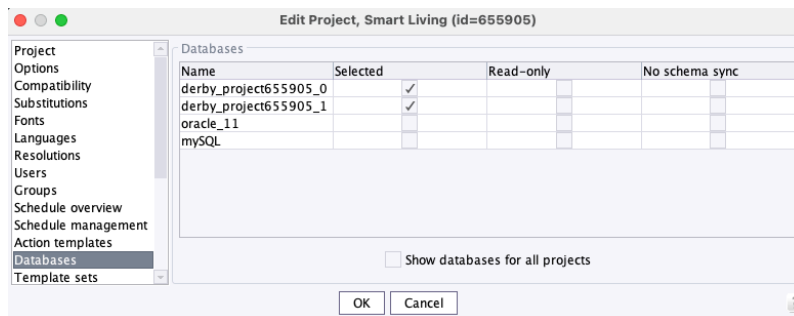
Show database for all projects

2   Administration / Modules

2.1   Migration to Jakarta EE 6.0

The migration to Jakarta EE 6.0 is an essential step to ensure the security of web applications.

With the current FirstSpirit version **2023.9**, the changeover to Jakarta EE 6.0 with support for automatic migration took place.

Support for automatic migration will be removed with FirstSpirit **2024.9**.

In contrast to the phased rollout for cloud customers, on-premises customers are able to test and migrate their FirstSpirit servers once version **2023.9** has been released.

> **!** However, we strongly recommend to wait with the update of productive servers at least until release 2023.11 since we aim to guarantee the compatibility for modules provided by Crownpeak with that release.

Important:

- If FirstSpirit is run in an on-premises scenario, the Tomcat version must be updated when migrating to the FirstSpirit JakartaEE edition. Since the servlet version will be updated to 6.0, a **10.1.x** version of **Tomcat** is required.

- The use of FirstSpirit version 2023.9 requires that Java version 17 is used.

The FirstSpirit installation may be affected if any of the following conditions apply:

- The FirstSpirit installation is not maintained in the Crownpeak Cloud and deploys web-applications to an application server like Apache Tomcat.

- A custom module is used that contains a WebApp component with code that uses the legacy JavaEE API, such as the Servlet API.

- A custom module is used that contains a WebApp component with dependencies that use the old JavaEE API, e.g., `Spring Boot 2.x`.

More information and updates can be found in the Crownpeak Community and the detailed Jakarta FAQ.

Contact Customer Support Team if you have questions or feedback regarding the migration.

3 ContentCreator

3.1 SEO URLs in ContentCreator

SEO URLs could so far only be managed in SiteArchitect (see *Global settings / URL Settings / "SEO URLs" tab* (→*Documentation FirstSpirit SiteArchitect*))

The SEO URL functionality now is also available in ContentCreator.

Configuration

With the new project component "CXT ContentCreator: URL Configuration ProjectApp" a list of "UrlCreators" can be configured.

Action

There is a new action Show URLs with which the new functionality can be called up. The action is available in the navigation for the menu structure.
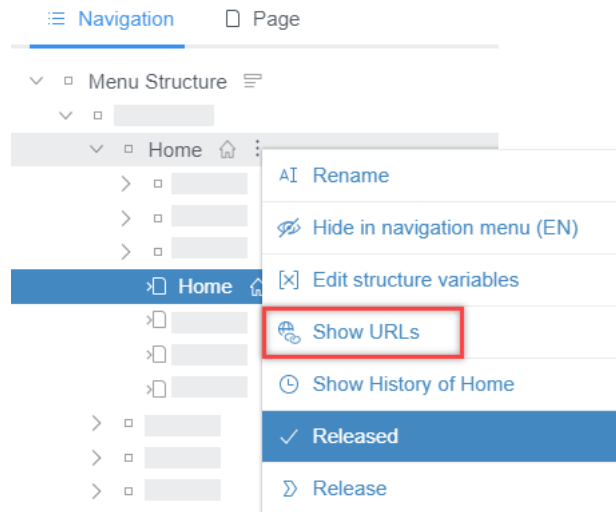
For media and media folders, the functionality can be accessd via the icon in the action menu.
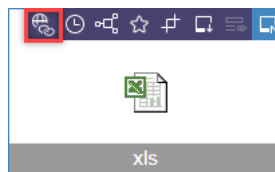
Both actions can be deactivated via TailoredUI and are active by default.

For more information, see *FirstSpirit Manual for Editors (ContentCreator)*, "Menu functions / Navigation / SEO URLs".

4   FirstSpirit Content Experience Tools (CXT)

4.1   Latest module versions

FirstSpirit 2023.9 supports the following module versions for FirstSpirit Content Experience Tools.

Module / file name	Version number
FirstSpirit CXT Plattform `platform-[version].fsm`	5.0.1
FirstSpirit CXT DAP Bridge `dataservice-[version].fsm`	1.44.14
FirstSpirit CXT FragmentCreator `fragment-creator-[version].fsm`	5.0.0
FirstSpirit Fragment DAP `fragmentdap-[version].fsm`	1.40.22
FirstSpirit Media DAP `mediadap-[version].fsm`	1.31.13
FirstSpirit PageRef DAP `pageref-[version].fsm`	1.9.13
FirstSpirit Markdown Editor `markdown-editor-[version].fsm`	1.29.12
FirstSpirit Tagging Editor `tagging-editor-[version].fsm`	1.29.12
FirstSpirit CXT FragmentCreator - CaaS Integration `caas-integration-[version].fsm`	1.31.12

4.2 Access the MicroApp management page via the FirstSpirit start page

Under

```
/management
```

(appended to the URL of the platform), a management page can be reached that can be used to configure the availability of the MicroApps, for example:

```
http://myServer:8080/cxt-platform/management
```

To reach the management page without having to know the URL, a start button can be configured on the FirstSpirit start page.

For this, the "ApplicationPlugin: MicroApp Management" has to be added to the web application "Start page"".
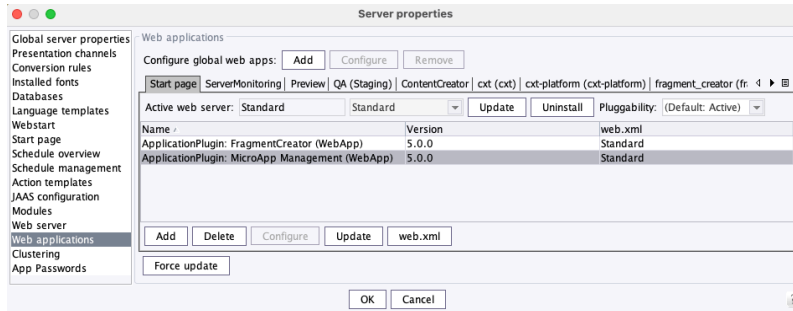
The web component must also be deployed there ("Install" / "Update" button).

The ApplicationPlugin for "MicroApp Management" then has to be added in the "Home page" area ("FirstSpirit ServerManager / Server / Properties / Home page"):
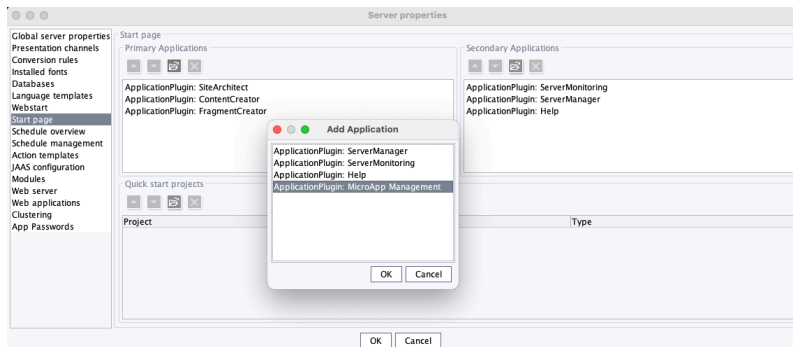
Once the plugin has been selected, the icon for launching "MicroApp Management" is available on the start page.

> **!** The management page can only be accessed by server or project administrators.

5 Module Development, Scripts, API

5.1 API: Synchronize all existing pages with one template

With the current FirstSpirit version it is possible to apply changes to the definition of the content areas of a page template to all pages based on it via the FirstSpirit API.

The new `SynchronizeTemplateBodiesOperation` (FirstSpirit Access API, Package `de.espirit.firstspirit.store.operations`) allows the content areas of a template to be synchronised in all pages based on it.

6 Modules (general)

6.1 Embedded Tomcat integration

With the current FirstSpirit version 2023.9, "FirstSpirit Embedded Tomcat Web Server" is introduced as an additional web server alongside the "Jetty Web Server".

Both "FirstSpirit Embedded Tomcat Web Server" and "Jetty Web Server" are to be used for testing purposes only and are not intended for productive use.

For further information please refer to *FirstSpirit Manual for Administrators*, Chapter "FirstSpirit ServerManager / Server properties / Web server", "FirstSpirit Embedded Tomcat Web Server" paragraph.

7 SiteArchitect

7.1 GID of a store element in the technical properties

With the current FirstSpirit version, the unique GID ("Global ID") of a store element is displayed in the technical properties of this element (context menu "Extras / Display properties").
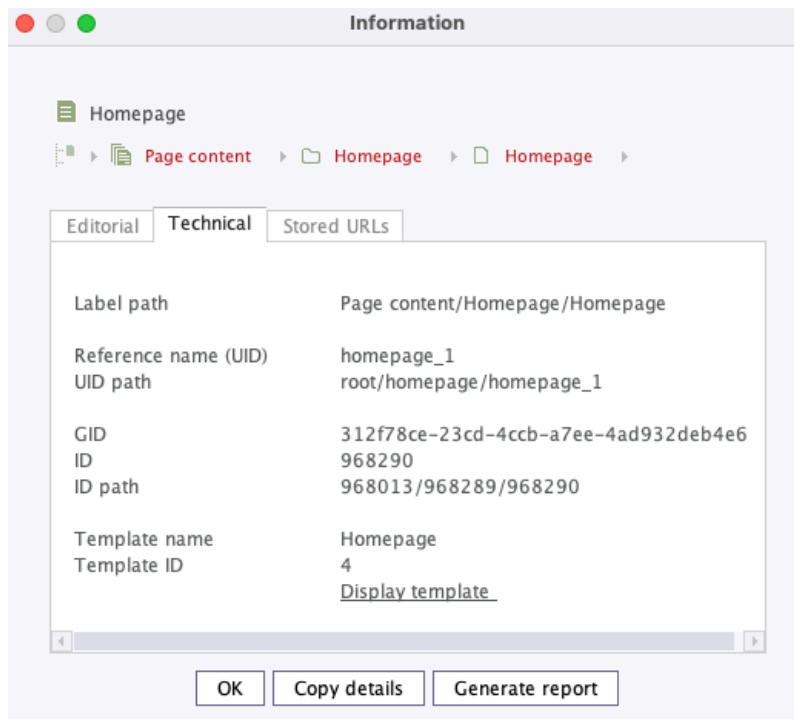
Store element GID

8   System

8.1   Updates to integrated third-party software

The following internally used software was updated with the current FirstSpirit release:

- **Eclipse Jetty**
  Modul `fs-jetty.fsm`: update to 12.0.0

As before, use of Eclipse Jetty for production purposes is not recommended!

9   Template development

9.1   Images: Automatic detection of configuration changes regarding scaling

If the configuration for calculating resolutions is changed via the `ImageWriteParams` (the user-defined project property), the corresponding resolutions are recalculated once the next time they are accessed.

Note: During the first generation with the current FirstSpirit version, provided `ImageWriteParams` has been set, the resolutions are recalculated once. This does not applies to manually defined resolutions.

10   Deprecations

For e-Spirit, an important goal in software development is to avoid introducing incompatibilities and migration expenditures related to updating from one FirstSpirit release to the next as much as possible or to compensate for these within the software. FirstSpirit updates should generally be deployable with little effort or able to be carried out in a fully automated fashion.

However - not least in order to ensure maintainability and to future-proof the software - e-Spirit cannot fully avoid replacing existing functionality with new mechanisms. In the future, functionality that will be removed from the software will be listed in this section, including the date at which time the functionality will be removed.

Functionality	Deprecated as of	Will be removed/ Was removed as of
Input component CMS_INPUT_CONTENTAREALIST	5.2R3	
Input component CMS_INPUT_CONTENTLIST	5.2R3	
Input component CMS_INPUT_FILE	5.2R3	
Input component CMS_INPUT_LINKLIST	5.2R3	
Input component CMS_INPUT_OBJECTCHOOSER	5.2R3	
Input component CMS_INPUT_PAGEREF	5.2R3	
Input component CMS_INPUT_PICTURE	5.2R3	
Input component CMS_INPUT_TABLIST	5.2R3	

Functionality	Deprecated as of	Will be removed/ Was removed as of
FirstSpirit Developer API: de.espirit.firstspirit.agency.GroupsAgent	5.2R15	
FirstSpirit Access API: delete (de.espirit.firstspirit.access.AccessUtil)	5.2R18	
FirstSpirit Access API: release (de.espirit.firstspirit.access.AccessUtil)	2018-06	
FirstSpirit Developer API: getLastLoginAsDate (de.espirit.firstspirit.agency.UserStatisticsAgent)	2018-07	
FirstSpirit Developer API: remainingDurationOfCurrentStageInMillis (de.espirit.firstspirit.server.MaintenanceModeInfo)	2018-07	
FirstSpirit Developer API: getStartingTimeOfStageAsDate (de.espirit.firstspirit.server.MaintenanceModeInfo)	2018-07	
FirstSpirit Access API: getSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: setSelectedWebserverConfiguration (de.espirit.firstspirit.access.serverConfiguration)	2018-10	
FirstSpirit Access API: getSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Access API: setSelectedWebServer (de.espirit.firstspirit.access.project.Project)	2018-10	
FirstSpirit Developer API: getLostAndFoundStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Developer API: getDeletedStoreNodes(); (de.espirit.firstspirit.feature.FeatureInstallResult)	2018-10	
FirstSpirit Access API: de.espirit.firstspirit.access.store.Previewable	2019-01	

Functionality	Deprecated as of	Will be removed/ Was removed as of
WebSphere Application Server support for FirstSpirit	2019-05	
Control files for Windows and Linux operating systems (old)	2020-08	
Database layer for Oracle Database 11g/12c	2020-12	
FirstSpirit Developer API: redirectTemplateLogToDefaultLog() (Interface RenderingAgent.Renderer)	2021-05	
Support for Log4j 1	2022-05	

11   Overview

ID	Description	Categories
CORE-4719	With the current FirstSpirit version it is possible to apply changes to the definition of the content areas of a page template to all pages based on it via the FirstSpirit API. Further information can be found in chapter "Module Development, Scripts, API: API: Synchronize all existing pages with one template".	FirstSpirit API, Template Development
CORE-7880	In project properties only derby layers used in the project are displayed by default ("FirstSpirit ServerManager / Project properties / Databases"). Further information can be found in chapter "Administration: Display of the derby layers used in the project".	Database, ServerManager
CORE-13284	In SiteArchitect, the currently selected language for a Store Element is now automatically shown when opening the Translation help window for the Element.	SiteArchitect
CORE-15194	If a link template is hidden, it will no longer be shown in the selection of a FS_CATALOG input component in SiteArchitect.	SiteArchitect

ID	Description	Categories
CORE-15222	With the current FirstSpirit version 2023.9, a new embedded web server "FirstSpirit Embedded Tomcat Web Server" with Tomcat 10.1 was made available. Further information can be found in chapter "Modules (general): Embedded Tomcat integration".	Integrated software, Modules, Server Administrator
CORE-15240	Problems loading certain image formats have been improved by adding explicit initialisation of the Java ImageIO plugins.	Media
CORE-15396	The technical properties of a store element in SiteArchitect now also display the GID ("Global ID"). Further information can be found in chapter "SiteArchitect: GID of a store element in the technical properties".	SiteArchitect
CORE-15406	If the configuration for calculating resolutions is changed via the `ImageWriteParams`, the corresponding resolutions are recalculated once the next time they are accessed. Further information can be found in chapter "Template development: Images: Automatic detection of configuration changes regarding scaling".	Media
CORE-15430	Fixed a bug that in very rare cases could cause changes to SEO URLs for folders to not be applied immediately.	SiteArchitect
CORE-15480	The discussion forum ("menu bar / Extras") has been removed from SiteArchitect.	SiteArchitect
CORE-15518	A classloading problem with Gson on the server was fixed.	Developer
CORE-15520	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".	FirstSpirit Content Experience Tools (CXT)
CORE-15525	The "FirstSpirit Personalisation" module did not define required dependencies to `Log4J`, which caused errors when used in web applications that did not provide `Log4J` themselves. This has been fixed.	Modules

ID	Description	Categories
CORE-15534	Migration to Jakarta EE 6.0 Further information can be found in chapter "Administration / Modules: Migration to Jakarta EE 6.0".	FirstSpirit Administrator, Java, Module development, Modules, Server Administrator
CORE-15546	Updates to integrated third-party software Further information can be found in chapter "System: Updates to integrated third-party software".	Integrated software
CXT-1621	Improved display when multiple MicroApps are open (e.g. Edit Fragment --> Upload Media).	FirstSpirit Content Experience Tools (CXT), FragmentCreator
CXT-2414	SEO URL management possible in ContentCreator Further information can be found in chapter "ContentCreator: SEO URLs in ContentCreator".	ContentCreator
CXT-2819	The MicroApp management page can now be accessed via the FirstSpirit start page. Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Access the MicroApp management page via the FirstSpirit start page".	FirstSpirit Content Experience Tools (CXT), Server Administrator
CXT-2947	In rare cases, the display of the Markdown editor could lead to erroneous behavior.	FragmentCreator

12   Categories

12.1   ContentCreator

ID	Description
CXT-2414	SEO URL management possible in ContentCreator Further information can be found in chapter "ContentCreator: SEO URLs in ContentCreator".

12.2   Database

ID	Description
CORE-7880	In project properties only derby layers used in the project are displayed by default ("FirstSpirit ServerManager / Project properties / Databases"). Further information can be found in chapter "Administration: Display of the derby layers used in the project".

12.3   Developer

ID	Description
CORE-15518	A classloading problem with Gson on the server was fixed.

12.4   FirstSpirit Content Experience Tools (CXT)

ID	Description
CORE-15520	FirstSpirit Content Experience Tools: Latest module versions Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Latest module versions".
CXT-1621	Improved display when multiple MicroApps are open (e.g. Edit Fragment --> Upload Media).
CXT-2819	The MicroApp management page can now be accessed via the FirstSpirit start page. Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Access the MicroApp management page via the FirstSpirit start page".

12.5   FirstSpirit Administrator

ID	Description
CORE-15534	Migration to Jakarta EE 6.0

ID	Description
	Further information can be found in chapter "Administration / Modules: Migration to Jakarta EE 6.0".

12.6   FirstSpirit API

ID	Description
CORE-4719	With the current FirstSpirit version it is possible to apply changes to the definition of the content areas of a page template to all pages based on it via the FirstSpirit API. Further information can be found in chapter "Module Development, Scripts, API: API: Synchronize all existing pages with one template".

12.7   FragmentCreator

ID	Description
CXT-1621	Improved display when multiple MicroApps are open (e.g. Edit Fragment --> Upload Media).
CXT-2947	In rare cases, the display of the Markdown editor could lead to erroneous behavior.

12.8   Integrated software

ID	Description
CORE-15222	With the current FirstSpirit version 2023.9, a new embedded web server "FirstSpirit Embedded Tomcat Web Server" with Tomcat 10.1 was made available. Further information can be found in chapter "Modules (general): Embedded Tomcat integration".
CORE-15546	Updates to integrated third-party software Further information can be found in chapter "System: Updates to integrated third-party software".

12.9   Java

ID	Description
CORE-15534	Migration to Jakarta EE 6.0 Further information can be found in chapter "Administration / Modules: Migration to Jakarta EE 6.0".

12.10 Media

ID	Description
CORE-15240	Problems loading certain image formats have been improved by adding explicit initialisation of the Java ImageIO plugins.
CORE-15406	If the configuration for calculating resolutions is changed via the `ImageWriteParams`, the corresponding resolutions are recalculated once the next time they are accessed. Further information can be found in chapter "Template development: Images: Automatic detection of configuration changes regarding scaling".

12.11 Module development

ID	Description
CORE-15534	Migration to Jakarta EE 6.0 Further information can be found in chapter "Administration / Modules: Migration to Jakarta EE 6.0".

12.12 Modules

ID	Description
CORE-15222	With the current FirstSpirit version 2023.9, a new embedded web server "FirstSpirit Embedded Tomcat Web Server" with Tomcat 10.1 was made available.

ID	Description
	Further information can be found in chapter "Modules (general): Embedded Tomcat integration".
CORE-15525	The "FirstSpirit Personalisation" module did not define required dependencies to `Log4J`, which caused errors when used in web applications that did not provide `Log4J` themselves. This has been fixed.
CORE-15534	Migration to Jakarta EE 6.0 Further information can be found in chapter "Administration / Modules: Migration to Jakarta EE 6.0".

12.13 Server Administrator

ID	Description
CORE-15222	With the current FirstSpirit version 2023.9, a new embedded web server "FirstSpirit Embedded Tomcat Web Server" with Tomcat 10.1 was made available. Further information can be found in chapter "Modules (general): Embedded Tomcat integration".
CORE-15534	Migration to Jakarta EE 6.0 Further information can be found in chapter "Administration / Modules: Migration to Jakarta EE 6.0".
CXT-2819	The MicroApp management page can now be accessed via the FirstSpirit start page. Further information can be found in chapter "FirstSpirit Content Experience Tools (CXT): Access the MicroApp management page via the FirstSpirit start page".

12.14 ServerManager

ID	Description
CORE-7880	In project properties only derby layers used in the project are displayed by default ("FirstSpirit ServerManager / Project properties / Databases").

ID	Description
	Further information can be found in chapter "Administration: Display of the derby layers used in the project".

12.15 SiteArchitect

ID	Description
CORE-13284	In SiteArchitect, the currently selected language for a Store Element is now automatically shown when opening the Translation help window for the Element.
CORE-15194	If a link template is hidden, it will no longer be shown in the selection of a FS_CATALOG input component in SiteArchitect.
CORE-15396	The technical properties of a store element in SiteArchitect now also display the GID ("Global ID"). Further information can be found in chapter "SiteArchitect: GID of a store element in the technical properties".
CORE-15430	Fixed a bug that in very rare cases could cause changes to SEO URLs for folders to not be applied immediately.
CORE-15480	The discussion forum ("menu bar / Extras") has been removed from SiteArchitect.

12.16 Template Development

ID	Description
CORE-4719	With the current FirstSpirit version it is possible to apply changes to the definition of the content areas of a page template to all pages based on it via the FirstSpirit API. Further information can be found in chapter "Module Development, Scripts, API: API: Synchronize all existing pages with one template".