



# FirstSpirit™

*Unlock Your Content*

## FirstSpirit™ Release Notes

### FirstSpirit™ Version 5.2 Release 9

|                   |                         |
|-------------------|-------------------------|
| <b>Version</b>    | <b>5.2.905</b>          |
| <b>Status</b>     | <b>RELEASED</b>         |
| <b>Date</b>       | <b>2017-05-31</b>       |
| <b>Department</b> | FS-Core                 |
| <b>Copyright</b>  | 2017 <b>e-Spirit AG</b> |
| <b>File name</b>  | Releasenotes_5.2.905_EN |

#### **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)

e-Spirit

# Table of contents

- 1 General..... 4**
  - 1.1 Code signing certificate updated.....4
  - 1.2 Publication of FirstSpirit Javadoc via separate Jar files.....4
- 2 Module Development, Scripts, API..... 4**
  - 2.1 Schedules: Creating and configuring an archival schedule action via API (de.espirit.firstspirit.access.schedule.ProjectCleanupTask)..... 4
  - 2.2 SwingGadget Development: New Class "SwingFormViewMode" ..... 4
- 3 SiteArchitect..... 5**
  - 3.1 Jumping to References in Template Code..... 5
- 4 Overview..... 8**
- 5 Categories..... 10**
  - 5.1 Advanced URL..... 10
  - 5.2 Archiving..... 10
  - 5.3 ContentCreator..... 11
  - 5.4 Developer..... 11
  - 5.5 Dynamic Forms..... 12
  - 5.6 FirstSpirit API..... 12
  - 5.7 FirstSpirit Administrator..... 12
  - 5.8 Generation..... 13
  - 5.9 Input Components..... 13



|      |                           |    |
|------|---------------------------|----|
| 5.10 | Launcher.....             | 13 |
| 5.11 | Media Store.....          | 14 |
| 5.12 | Module development.....   | 14 |
| 5.13 | Modules.....              | 14 |
| 5.14 | Preview.....              | 14 |
| 5.15 | ServerManager.....        | 15 |
| 5.16 | SiteArchitect.....        | 15 |
| 5.17 | Tasks.....                | 16 |
| 5.18 | Template Development..... | 16 |
| 5.19 | Template Store.....       | 16 |
| 5.20 | Webstart.....             | 17 |



## 1 General

### 1.1 Code signing certificate updated

The content of FirstSpirit JAR files is signed with a certificate. This procedure is also called “code signing”. In the current FirstSpirit version, the content is signed with a new certificate that is valid until 2019-07-24 (24 July 2019).

Some certificates used by existing FirstSpirit servers expired on 2017-05-21 (21 May 2017), affected FirstSpirit servers must be updated.

### 1.2 Publication of FirstSpirit Javadoc via separate Jar files

Javadoc is used for documenting the FirstSpirit API. Starting with the current FirstSpirit version, this documentation is published additionally in separate Jar files (`fs-api-javadoc.jar` and `fs-isolated-runtime-javadoc.jar`), for example in order to make it easier to access it from IDEs.

## 2 Module Development, Scripts, API

### 2.1 Schedules: Creating and configuring an archival schedule action via API (`de.espirit.firstspirit.access.schedule.ProjectCleanupTask`)

By using the schedule action “Archive old project states” (FirstSpirit ServerManager / Project properties / Schedule management / Add / Actions) it is possible to swap out files which are not longer required (automatically and regularly at a defined point in time), therefore increasing the performance of the FirstSpirit server.

Until now it was only possible to create and configure such a schedule using the graphical interface. With the current version of FirstSpirit, this can also be achieved by using the API. For this purpose the interface `ProjectCleanupTask` in the package `de.espirit.firstspirit.access.schedule` has been added (FirstSpirit Developer API).

### 2.2 SwingGadget Development: New Class "SwingFormViewMode"

A SwingGadget is the graphical representation of an input component in the FirstSpirit SiteArchitect. SwingGadgets are implemented in Java and contain graphical interface elements (“Swing”) like buttons and input components as well as functional aspects like saving values. Furthermore user interactions and changes are evaluated by SwingGadgets and transferred to the visual representation of the



component. Classes and methods required for implementing SwingGadgets can be found in the package `de.espirit.firstspirit.ui.gadgets.swing` (FirstSpirit Developer-API).

With the current version of FirstSpirit this package has been extended by the class `SwingFormViewMode`. Previously this class was available in the non-public API. Making it accessible was necessary because the class `AbstractValueHoldingSwingGadget` existing in the same package `de.espirit.firstspirit.ui.gadgets.swing` contains a method using `SwingFormViewMode` as a return type.

Compiling against the `fs-api.jar` resulted in the error

```
The type de.espirit.firstspirit.ui.gadgets.swing.SwingFormViewMode cannot be resolved.  
It is indirectly referenced from required .class files
```

This error message no longer happens with the current version of FirstSpirit, the affected class is now part of the JAR file.

For more information regarding the implementation of SwingGadgets please see also *Plug-In Development / Universal Extensions / Input Components / SiteArchitect* (→*FirstSpirit Online Documentation*).

## 3 SiteArchitect

### 3.1 Jumping to References in Template Code

In addition to functions for software-supported completion of template code, the current version of FirstSpirit also provides means for switching to elements referenced in the code (other templates, FirstSpirit objects) and form definitions (“GOM”) conveniently with a single click.

When the mouse cursor is hovered over the respective code expression, `Ctrl` displays information (name, object type, preview, path) regarding the referenced element in a tooltip.

Using `Ctrl + KCLICK` allows for jumping to the referenced element directly.

This new functionality is available for the following template tabs:

- **Tab “Form”**

Reference to referenced templates and other FirstSpirit objects

Example: `CMS_INPUT_DOM` – Limit to link templates using the tag `LINKEDITORS`



```

<CMS_INPUT_DOM name="pt_intro" hFill="yes" ...
  <FORMATS>
    <TEMPLATE name="p"/>
  </FORMATS>
  <LANGINFOS>
    <LANGINFO lang="*" label="Introduction" ...
  </LANGINFOS>
  <LINKEDITORS>
    <LINKEDITOR name="textlinkexternal"/>
    <LINKEDITOR name="textlinkexternal"/>
  </LINKEDITORS>
</CMS_INPUT_DOM>

```

**Text link (external)**  
Link Templates

Example: **FS\_DATASET** – Limit to a data source using the tag **SOURCES**

```

<FS_DATASET name="st_contact" allowDelete="..."
  <LANGINFOS>
    <LANGINFO lang="*" label="Contact" desc...
  </LANGINFOS>
  <SOURCES>
    <CONTENT name="contacts"/>
  </SOURCES>
</FS_DATASET>

```

**Contacts**  
Contacts

▪ **Tab “Rules”**

Reference to form definitions in the tab “Form” of the template, attribute “source”:

```

<RULES>
  <RULE>
    <WITH>
      <NOT>
        <LESS_THAN>
          <PROPERTY name="VALUE" source="st_rows"/>
          <NUMBER>1</NUMBER>
        </LESS_THAN>
      </NOT>
    </WITH>
    <DO>
      <VALIDATION scope="SAVE">
        <PROPERTY name="VALID" source="st_rows"/>
        <MESSAGE lang="*" text="The value may not be less than 1."/>
        <MESSAGE lang="DE" text="Der Wert darf nicht unter 1 sein."/>
      </VALIDATION>
    </DO>
  </RULE>

```

**Press releases teaser**  
st\_rows (CMS\_INPUT\_NUMBER)

▪ **Output Channels Tab**



Reference to form definitions in the tab “Form” of the template:

```

--$</h3>
<div class="clearfix te:st_linklist (FS_LIST)
  --$CMS_IF(!isWebEdit)$--
    --$CMS_VALUE(editorId(editorName:"st_linklist"))$--
  --$CMS_END_IF$--
--$>
    
```

A tooltip box titled "Tag-Cloud" is positioned over the text "st\_linklist" in the code. The tooltip contains the text "Tag-Cloud" and "Format Templates/Technical format templates". A mouse cursor is pointing at the "st\_linklist" text in the code.

and referenced FirstSpirit objects

Example: referenced medium

```

$-- Footer --$
<div class="footer">
  <ul>
    <li>$--
      --$<a href="#top"$CMS_VALUE(editorId(element:#glo
        --$$--
      --$</li>
    <li>$--
      --$<a href="#top" onclick="self.print();return fa
        --$$--
    --$$--
    
```

A tooltip box titled "Link to homepage" is positioned over the text "homepage" in the code. The tooltip contains the text "Link to homepage" and "Global Content Area/Language dependent lab". A mouse cursor is pointing at the "homepage" text in the code.

Example: referenced template

```

$CMS_VALUE(pt_hear
$CMS_I
$C
$CMS_END_IF$
$CMS_RENDER(template:"tooltip",
  infoLayer:pt_infoLayer,
  infoLink:pt_infoLink,
  infoPicture:pt_infoPicture,
  infoHeadline:pt_infoHeadline)$
    
```

A tooltip box titled "Tooltip" is positioned over the text "tooltip" in the code. The tooltip contains the text "Tooltip" and "Format Templates/Technical format templates". A mouse cursor is pointing at the "tooltip" text in the code.



## 4 Overview

| ID     | Description   | Categories  |
|--------|---|---|
| 160945 | <p>Drag-and-drop of a medium from the Media Store into the local filesystem could lead to erroneous behavior.</p> <p>The launcher has to be updated in order to apply this fix.</p>   | Launcher, SiteArchitect   |
| 178142 | <p>Pressing <b>Ctrl</b> and hovering the mouse cursor over template code now visualizes referenced FirstSpirit elements while <b>Ctrl</b> + <b>KCLICK</b> jumps to the referenced element.</p> <p>Further information can be found in chapter “SiteArchitect: Jumping to References in Template Code”.</p>  | Developer, Template Development, Template Store                                 |
| 180918 | <p>Package <code>de.espirit.firstspirit.ui.gadgets.swing</code> (FirstSpirit Developer-API) extended by the class <code>swingFormViewMode</code>.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: SwingGadget Development: New Class “SwingFormViewMode””.</p>  | Developer, FirstSpirit API, Input Components, Module development, SiteArchitect |
| 190331 | <p>If multiple users requested the preview of a page and the calculation took long, this could have led to erroneous behavior.</p>  | Preview, SiteArchitect  |
| 190647 | <p>It is possible to restrict the choice of data sources for the input component FS_DATASET by using the tag <code>&lt;CONTENT&gt;</code>.</p> <p>The configured data sources are now better respected in the selection dialog.</p>   | SiteArchitect   |
| 195407 | <p>New interface <code>ProjectCleanupTask</code> in the package <code>de.espirit.firstspirit.access.schedule</code> (FirstSpirit Developer API) allows for creating and configuring archival schedule actions.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Schedules: Creating and configuring an archival schedule action via API (<code>de.espirit.firstspirit.access.schedule.ProjectCleanupTask</code>)”.</p> | Advanced URL, Archiving, Developer, FirstSpirit API, Tasks                      |





| ID     | Description  | Categories                            |
|--------|--|---------------------------------------|
| 197199 | Restoring revisions resulted in a malfunction on pages if the child list had been changed by means of a previous restoration process.  | SiteArchitect                         |
| 198560 | Generation on a cluster node could lead to erroneous behavior.   | FirstSpirit Administrator, Generation |
| 198594 | The libraries of the “FirstSpirit BasicSearch” module have been updated.   | FirstSpirit Administrator, Modules    |
| 198639 | The cropping function for alternative pictures of a specific resolution was improved.  | Media Store, SiteArchitect            |
| 198781 | The display of rule violations has been improved.  | ContentCreator, Dynamic Forms         |
| 198865 | Respecting formatted contents in the input components CMS_INPUT_DOM and CMS_INPUT_DOMTABLE was optimized.  | Input Components, SiteArchitect       |
| 198946 | Using the “Google Chrome” browser within the integrated preview could lead to erroneous behavior after having changed the font size within the operating system.   | Preview, SiteArchitect                |
| 198975 | The selection of data sets has been optimized for the input component FS_DATASET.  | ContentCreator                        |
| 199057 | The current logging may be displayed in a separate window using the menu entry “View Log” in the menu “Help”.<br><br>Searching in the log messages has been improved.  | ServerManager, SiteArchitect          |
| 199149 | The parameters <code>jdbc.POOLMIN</code> and <code>jdbc.POOLMAX</code> can be used to specify values in the JDBC configuration of databases which define the number of available database connections reserved for each pool. The establishment and release of these connections was optimized.    | FirstSpirit Administrator             |
| 199403 | Editing a form using EasyEdit could lead to erroneous behavior.  | ContentCreator                        |
| 199628 | The content of FirstSpirit JAR files is signed with a certificate. In the current FirstSpirit version, the content is signed with a new certificate that is valid until 2019-07-24 (24 July 2019).<br><br>Further information can be found in chapter “General: Code signing certificate updated”. | Webstart                              |



| ID     | Description   | Categories                 |
|--------|---|----------------------------|
| 199983 | Starting with the current FirstSpirit version, the documentation of the FirstSpirit API is published additionally in separate Jar files.<br><br>Further information can be found in chapter “General: Publication of FirstSpirit Javadoc via separate Jar files”. | Developer, FirstSpirit API |

## 5 Categories

### 5.1 Advanced URL

| ID     | Description   |
|--------|---|
| 195407 | New interface <code>ProjectCleanupTask</code> in the package <code>de.espirit.firstspirit.access.schedule</code> (FirstSpirit Developer API) allows for creating and configuring archival schedule actions.<br><br>Further information can be found in chapter “Module Development, Scripts, API: Schedules: Creating and configuring an archival schedule action via API (de.espirit.firstspirit.access.schedule.ProjectCleanupTask)”. |

### 5.2 Archiving

| ID     | Description   |
|--------|---|
| 195407 | New interface <code>ProjectCleanupTask</code> in the package <code>de.espirit.firstspirit.access.schedule</code> (FirstSpirit Developer API) allows for creating and configuring archival schedule actions.<br><br>Further information can be found in chapter “Module Development, Scripts, API: Schedules: Creating and configuring an archival schedule action via API (de.espirit.firstspirit.access.schedule.ProjectCleanupTask)”. |



## 5.3 ContentCreator

| ID     | Description   |
|--------|---|
| 198781 | The display of rule violations has been improved.                                 |
| 198975 | The selection of data sets has been optimized for the input component FS_DATASET. |
| 199403 | Editing a form using EasyEdit could lead to erroneous behavior.                   |

## 5.4 Developer

| ID     | Description  |
|--------|--|
| 178142 | <p>Pressing <code>Ctrl</code> and hovering the mouse cursor over template code now visualizes referenced FirstSpirit elements while <code>Ctrl + KCLICK</code> jumps to the referenced element.</p> <p>Further information can be found in chapter “SiteArchitect: Jumping to References in Template Code”.</p>  |
| 180918 | <p>Package <code>de.espirit.firstspirit.ui.gadgets.swing</code> (FirstSpirit Developer-API) extended by the class <code>SwingFormViewMode</code>.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: SwingGadget Development: New Class “SwingFormViewMode””.</p>   |
| 195407 | <p>New interface <code>ProjectCleanupTask</code> in the package <code>de.espirit.firstspirit.access.schedule</code> (FirstSpirit Developer API) allows for creating and configuring archival schedule actions.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Schedules: Creating and configuring an archival schedule action via API (de.espirit.firstspirit.access.schedule.ProjectCleanupTask)”.</p> |
| 199983 | <p>Starting with the current FirstSpirit version, the documentation of the FirstSpirit API is published additionally in separate Jar files.</p> <p>Further information can be found in chapter “General: Publication of FirstSpirit Javadoc via separate Jar files”.</p>   |



## 5.5 Dynamic Forms

| ID     | Description                                       |
|--------|---|
| 198781 | The display of rule violations has been improved. |

## 5.6 FirstSpirit API

| ID     | Description  |
|--------|--|
| 180918 | <p>Package <code>de.espirit.firstspirit.ui.gadgets.swing</code> (FirstSpirit Developer-API) extended by the class <code>SwingFormViewMode</code>.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: SwingGadget Development: New Class “SwingFormViewMode””.</p>   |
| 195407 | <p>New interface <code>ProjectCleanupTask</code> in the package <code>de.espirit.firstspirit.access.schedule</code> (FirstSpirit Developer API) allows for creating and configuring archival schedule actions.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Schedules: Creating and configuring an archival schedule action via API (de.espirit.firstspirit.access.schedule.ProjectCleanupTask)”.</p> |
| 199983 | <p>Starting with the current FirstSpirit version, the documentation of the FirstSpirit API is published additionally in separate Jar files.</p> <p>Further information can be found in chapter “General: Publication of FirstSpirit Javadoc via separate Jar files”.</p>   |

## 5.7 FirstSpirit Administrator

| ID     | Description  |
|--------|--|
| 198560 | Generation on a cluster node could lead to erroneous behavior.           |
| 198594 | The libraries of the “FirstSpirit BasicSearch” module have been updated. |



| ID     | Description   |
|--------|---|
| 199149 | The parameters <code>jdbc.POOLMIN</code> and <code>jdbc.POOLMAX</code> can be used to specify values in the JDBC configuration of databases which define the number of available database connections reserved for each pool. The establishment and release of these connections was optimized. |

## 5.8 Generation

| ID     | Description  |
|--------|--|
| 198560 | Generation on a cluster node could lead to erroneous behavior. |

## 5.9 Input Components

| ID     | Description  |
|--------|--|
| 180918 | Package <code>de.espirit.firstspirit.ui.gadgets.swing</code> (FirstSpirit Developer-API) extended by the class <code>SwingFormViewMode</code> .<br><br>Further information can be found in chapter "Module Development, Scripts, API: SwingGadget Development: New Class "SwingFormViewMode"". |
| 198865 | Respecting formatted contents in the input components <code>CMS_INPUT_DOM</code> and <code>CMS_INPUT_DOMTABLE</code> was optimized.  |

## 5.10 Launcher

| ID     | Description  |
|--------|--|
| 160945 | Drag-and-drop of a medium from the Media Store into the local filesystem could lead to erroneous behavior.<br><br>The launcher has to be updated in order to apply this fix. |



## 5.11 Media Store

| ID     | Description   |
|--------|---|
| 198639 | The cropping function for alternative pictures of a specific resolution was improved. |

## 5.12 Module development

| ID     | Description  |
|--------|--|
| 180918 | Package <code>de.espirit.firstspirit.ui.gadgets.swing</code> (FirstSpirit Developer-API) extended by the class <code>SwingFormViewMode</code> .<br><br>Further information can be found in chapter “Module Development, Scripts, API: SwingGadget Development: New Class "SwingFormViewMode"”. |

## 5.13 Modules

| ID     | Description  |
|--------|--|
| 198594 | The libraries of the “FirstSpirit BasicSearch” module have been updated. |

## 5.14 Preview

| ID     | Description  |
|--------|--|
| 190331 | If multiple users requested the preview of a page and the calculation took long, this could have led to erroneous behavior.                                      |
| 198946 | Using the “Google Chrome” browser within the integrated preview could lead to erroneous behavior after having changed the font size within the operating system. |



## 5.15 ServerManager

| ID     | Description   |
|--------|---|
| 199057 | The current logging may be displayed in a separate window using the menu entry “View Log” in the menu “Help”.<br><br>Searching in the log messages has been improved. |

## 5.16 SiteArchitect

| ID     | Description  |
|--------|--|
| 160945 | Drag-and-drop of a medium from the Media Store into the local filesystem could lead to erroneous behavior.<br><br>The launcher has to be updated in order to apply this fix.   |
| 180918 | Package <code>de.espirit.firstspirit.ui.gadgets.swing</code> (FirstSpirit Developer-API) extended by the class <code>SwingFormViewMode</code> .<br><br>Further information can be found in chapter “Module Development, Scripts, API: SwingGadget Development: New Class “SwingFormViewMode””. |
| 190331 | If multiple users requested the preview of a page and the calculation took long, this could have led to erroneous behavior.  |
| 190647 | It is possible to restrict the choice of data sources for the input component FS_DATASET by using the tag <code>&lt;CONTENT&gt;</code> .<br><br>The configured data sources are now better respected in the selection dialog.  |
| 197199 | Restoring revisions resulted in a malfunction on pages if the child list had been changed by means of a previous restoration process.  |
| 198639 | The cropping function for alternative pictures of a specific resolution was improved.  |
| 198865 | Respecting formatted contents in the input components CMS_INPUT_DOM and CMS_INPUT_DOMTABLE was optimized.  |
| 198946 | Using the “Google Chrome” browser within the integrated preview could lead to erroneous behavior after having changed the font size within the operating system.   |



| ID     | Description  |
|--------|--|
| 199057 | <p>The current logging may be displayed in a separate window using the menu entry “View Log” in the menu “Help”.</p> <p>Searching in the log messages has been improved.</p> |

## 5.17 Tasks

| ID     | Description   |
|--------|---|
| 195407 | <p>New interface <code>ProjectCleanupTask</code> in the package <code>de.espirit.firstspirit.access.schedule</code> (FirstSpirit Developer API) allows for creating and configuring archival schedule actions.</p> <p>Further information can be found in chapter “Module Development, Scripts, API: Schedules: Creating and configuring an archival schedule action via API (<code>de.espirit.firstspirit.access.schedule.ProjectCleanupTask</code>)”.</p> |

## 5.18 Template Development

| ID     | Description  |
|--------|--|
| 178142 | <p>Pressing <code>Ctrl</code> and hovering the mouse cursor over template code now visualizes referenced FirstSpirit elements while <code>Ctrl + KLICK</code> jumps to the referenced element.</p> <p>Further information can be found in chapter “SiteArchitect: Jumping to References in Template Code”.</p> |

## 5.19 Template Store

| ID     | Description  |
|--------|--|
| 178142 | <p>Pressing <code>Ctrl</code> and hovering the mouse cursor over template code now visualizes referenced FirstSpirit elements while <code>Ctrl + KLICK</code> jumps to the referenced element.</p> |





| ID | Description  |
|----|--|
|    | Further information can be found in chapter “SiteArchitect: Jumping to References in Template Code”. |

## 5.20 Webstart

| ID     | Description  |
|--------|--|
| 199628 | The content of FirstSpirit JAR files is signed with a certificate. In the current FirstSpirit version, the content is signed with a new certificate that is valid until 2019-07-24 (24 July 2019).<br><br>Further information can be found in chapter “General: Code signing certificate updated”. |

