First Spirit™
Unlock Your Content

FirstSpirit™ Release Notes
FirstSpirit™ Version 5.2 Release 21

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e-Spirit

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1   Release of Oracle Berkeley DB version 7

The latest FirstSpirit version has officially released the use of the integrated Berkeley DB in version 7, as well as the use of the "BerkeleyUtil" (`BerkeleyUtil.jar`) conversion tool. At the same time, support for Berkeley DB versions 3 and 5 is scheduled to be discontinued by November 2018 (FirstSpirit version 5.2R27 or 2018-11).

What does this mean?

FirstSpirit uses Berkeley DB for two purposes: for the repositories of individual projects ("project repositories"), and for storing system data ("internal repositories" such as the registry, archiving database, and access control database). Both purposes are affected by an update to version 7 and must be handled as necessary on existing FirstSpirit Servers. Where the technical requirements are concerned, the data stored in the Berkeley DBs must be converted to the new data format. This is normally carried out in a few seconds.

A server-wide switch to version 7 must be executed before the support for versions 3 and 5 is discontinued, as any FirstSpirit Servers that are still running version 3 and/or 5 **will no longer start** after this time. We therefore recommend switching from version 3 or 5 to 7 as soon as possible.

Berkeley 7 is not compatible with Java 7. The FirstSpirit Server therefore requires at least Java 8 in order to use Berkeley 7.

FirstSpirit projects that are created or imported with version 5.2R21 or higher will automatically use version 7 of Berkeley DB for internal repositories as standard. (The *FirstSpirit Manual for Administrators* has not yet been updated at the relevant location: it still assumes that version 5 is used by default (Chapter "FirstSpirit ServerManager / Project properties / Repository"). The text segment will be adapted as of the next publication.)

Further optimizations have been made in the latest FirstSpirit version. See chapter "Further optimizations to "BerkeleyUtil"".

For information converting via the GUI or the conversion tool, see *FirstSpirit Manual for Administrators*, "FirstSpirit ServerManager / Project properties / Repository".

2   Support for Debian GNU/Linux 9

As of the current FirstSpirit version, Debian GNU/Linux version 9 can officially be used for FirstSpirit Servers.

However, version 7 is only supported "passively".

For more information, see the *FirstSpirit Technical Data Sheet*.

3   Oracle Java: Discontinuing support for version 7 and other restrictions relating to version 9+

FirstSpirit is currently released for use with Oracle Java 7, 8, and 9; use with Oracle Java 10 is currently supported as part of the early access program ("EAP").

As part of product maintenance, discontinuation of support for Java 7 was announced with FirstSpirit version 5.2R15: FirstSpirit is scheduled to no longer support **Oracle Java 7** from June 2018 (FirstSpirit version 5.2R22 or 2018-06). This means that FirstSpirit will no longer be able to run with Oracle Java 7 and e-Spirit AG will no longer implement any measures designed to eliminate errors or problems associated with Java 7. We recommend that you switch to a higher Java version in good time.
Oracle itself has not provided any public updates for Java 7 since 2015 and recommends that developers and end users transition to Java 8 in order to continue receiving public updates and security enhancements.

Regarding the use of FirstSpirit with **Oracle Java 9+**, internal tests have shown that, in particular cases, incompatibilities can occur if the FirstSpirit Server uses Oracle Java 9+ and FirstSpirit SiteArchitect uses Java 8 or lower. For example, this affects the SiteArchitect function that restores older versions (error message: `java.io.InvalidClassException: java.util.EnumSet; local class incompatible:`...). This is caused by an incompatibility between the versions from Oracle, the manufacturer. e-Spirit is currently working on a solution to this problem.

4   Announcement: New release names

e-Spirit releases a new FirstSpirit version approximately 12 times per year. All releases are generally equivalent and are usually compatible with the previous version, which means that it is no longer necessary to make a distinction between "maintenance", "release," "minor", and "major" builds. In this way, new FirstSpirit functions are quickly provided to customers and the software quality is continuously enhanced. There is a balanced mix of bug fixes and new features in each release.

This strategy will now be reflected more clearly in the names of individual releases. For this purpose, a new release name schema is scheduled to be implemented as of the next FirstSpirit release. This is based on the release year and month:

```
FirstSpirit <JJJJ>-<MM>
```

The current FirstSpirit version 5.2R21 is followed by version "FirstSpirit 2018-06", then by "FirstSpirit 2018-07", and so on.

This makes it possible to determine the release period quickly and easily based on the release name, and therefore determine whether the software status of a FirstSpirit installation is up to date.

The release name is used in familiar places such as the start page and info dialog boxes.
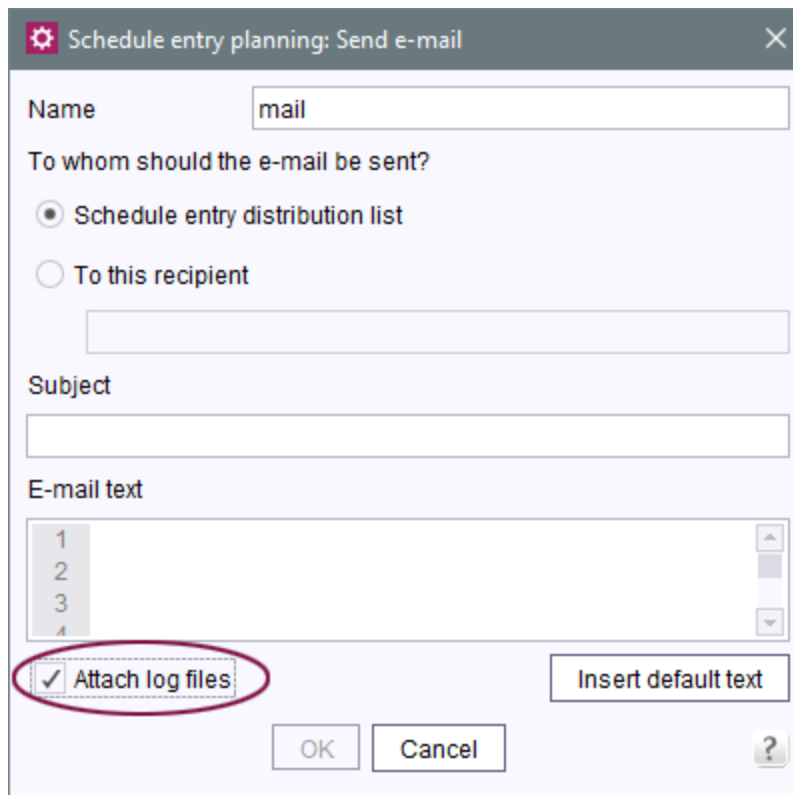
For more information on the FirstSpirit release strategy, see the FirstSpirit Community (https://community.e-spirit.com/docs/DOC-2073).

5   Administration

5.1   "Attach log files:" in schedules where e-mail is sent

As as result of a code change in Oracle Java 9 and higher, the FirstSpirit function "Attach log files" is no longer supported in the "Send e-mail" schedule, e.g.,

("FirstSpirit ServerManager / Server properties / Schedule management / Add or edit / Actions / Add or edit / Send e-mail")

Error message:

```
java.util.concurrent.ExecutionException: java.lang.NoClassDefFoundError:
  javax/activation/FileTypeMap
```

This incompatibility has been rectified in the most recent version of FirstSpirit.

For new installations with FirstSpirit version 5.2R21 and later that use Oracle Java 9 or higher, no modifications are necessary.

For existing FirstSpirit installations that use Oracle Java 9 or higher, the following parameters must be defined in the wrapper file containing the start parameters for Java 9 and higher (file `fs-wrapper-j2.include.conf` by default) in the `<FirstSpiritROOT>/conf` subdirectory:

```
wrapper.java.additional.26=--add-modules=java.activation
```

Installations that use Oracle Java 8 or 7 are not affected by this error.

Note: Oracle Java 10 has not yet been officially released for use with FirstSpirit; its current status is "EAP" (early access program).

5.2 Further optimizations to "BerkeleyUtil"

The following optimizations have been made to the "BerkeleyUtil" (`BerkeleyUtil.jar`) conversion tool in the latest FirstSpirit version:

Log file

The conversion actions are now logged in a log file as standard. The log file name is `berkeley_util_yyyyMMdd_HHmmss.log`; for example:

```
berkeley_util_20180502_113208.log
```

If you convert an entire FirstSpirit Server, the file is stored in the *log* directory of the server. If you convert individual databases, the file is stored in the directory which was specified as the start directory (`PATH` parameter).
The creation of this log file can be deactivated with the `--no-log-file` option.

Calculating the amount of hard disk space that is likely to be required

While converting the Berkeley databases of a FirstSpirit Server using the tool, you may temporarily require three times the memory space of the largest database that is being converted.The latest FirstSpirit version now checks to see if there is sufficient free hard disk space before converting each database. If this is not the case, the conversion will **not** be executed. The conversion for this database then stops with an `Insufficient free space` error message. If this happens, create more space or remove files from the directory before starting a new conversion.

Note: In very rare cases, the conversion tool is unable to calculate the required storage space reliably. If the available disk space is too low, the conversion terminates with the following error message: `Error converting BerkeleyDB`. If this happens, please contact Technical Support.

In order to help calculate the conversion time with more accuracy, a list of the individual databases by type and size as well as a summary of the amount of data to be converted is now added when the `-l` or `--list` parameter (`Disk space usage:...`) is used.
For example:

```
02.05.2018 11:26:05.504 [INFO BdbScanner] Scanning BerkeleyDBs in: firstspirit
02.05.2018 11:26:33.044 [INFO BdbList] V7 Repository: firstspirit/data/projects/
    project_221354/repository/bdb7 - 2,56 MB + 16,95 MB BLOBs
...
02.05.2018 11:26:33.053 [INFO BdbList] V5 Repository: firstspirit/data/projects/
    project_287731/repository/bdb5 - 16,77 MB + 2,32 MB BLOBs
...
02.05.2018 11:26:33.062 [INFO BdbList] V7 Registry: firstspirit/data/projects/
    project_221582/registry - 6,92 KB
...
02.05.2018 11:26:33.073 [INFO BdbList] V7 Registry: firstspirit/data/registry
     - 23,11 MB
02.05.2018 11:26:33.073 [INFO BdbList] V7 ArchiveDB: firstspirit/archive/
    project_221354/db2 - 17,55 KB
...
02.05.2018 11:26:33.076 [INFO BdbList] V7 AccessControlDB: firstspirit/data/schedule/
    225219/acl - 1,69 MB
...
02.05.2018 11:26:33.079 [INFO BdbList] Disk space usage:
02.05.2018 11:26:33.080 [INFO BdbList] V5 Repository - 55,26 MB + 68,61 MB BLOBs
02.05.2018 11:26:33.080 [INFO BdbList] V7 Repository - 28,9 GB + 7,74 GB BLOBs
02.05.2018 11:26:33.081 [INFO BdbList] V7 Registry - 169,51 MB
02.05.2018 11:26:33.081 [INFO BdbList] V7 ArchiveDB - 848,59 MB
02.05.2018 11:26:33.081 [INFO BdbList] V7 AccessControlDB - 35,67 MB
02.05.2018 11:26:33.082 [INFO BdbList] Total - 29,98 GB + 7,81 GB BLOBs
```

Examples of conversion times

Large FirstSpirit Server:

- More than 100 projects

- FirstSpirit installation directory > 1 TB, of which > 500 GB in Berkeley DB directories (without "blob" directories)

- With a very large project ("bdb" directory > 250 GB)

Conversion time with 20 GB of main memory: < 12 hours
Conversion time with 4 GB of main memory: > 24 hours

Medium-sized FirstSpirit Server:

- 27 projects

- FirstSpirit installation directory < 1 TB, of which > 250 GB in Berkeley DB directories (without "blob" directories)

- With a large project ("bdb" directory > 50 GB)

Conversion time with 4 GB of main memory: < 6 hours

Medium-sized FirstSpirit Server:

- 27 projects

- FirstSpirit installation directory > 100 GB, of which > 50 GB in Berkeley DB directories (without "blob" directories)

- "bdb" directory of the largest project approximately 25 GB

Conversion time with 20 GB of main memory: < 2 hours
Fast conversion of the same server: > 8 minutes

The information above distinguishes between the "bdb" directories and the "blob" directories of the FirstSpirit Server because they are handled differently:
If there is a project in Berkeley version 5, the "blob" directory will not be changed during the conversion. If there is a project in Berkeley version 3, the files in the "blob" directory will be moved into new subfolders, but this will not affect the duration of the conversion.
Unless the -f option has been enabled, however, the contents of the "bdb" directories are exported to new files and then imported into a newly created database.

Note: The values shown here are only comparison values, as FirstSpirit installations differ greatly from customer to customer. The duration of a FirstSpirit Server conversion is highly dependent on the number and size of projects as well as on the specific way in which the customer is using the system.

Note: On Unix systems, the BerkeleyUtil.jar conversion should be executed by the user who will then be using the Berkeley databases. In practice, this means the user who is the administrator for the FirstSpirit Server or the Application Server.

6 Input components

6.1 CMS_INPUT_IMAGEMAP can obtain an additional "upload" attribute

CMS_INPUT_IMAGEMAP can be expanded to include an additional `upload` attribute.

If the additional `upload="YES"` attribute is set, the following upload functions are released:

In ContentCreator

- Additional icon in the input component for uploading a file from the file system on the workstation computer

- Dragging and dropping a file from the file system on the workstation computer
  - onto the Imagemap in the preview

  - onto the input component in the open edit window

In SiteArchitect

- Additional icon in the input component for uploading a file from the file system on the workstation computer

- Dragging and dropping from the file system on the workstation computer directly onto the input form

For more information, see

- *FirstSpirit Online Documentation*, "Template development / Forms / Input components / IMAGEMAP"

- *Documentation for FirstSpirit SiteArchitect*, "Input forms / Link-sensitive graphic"

- *FirstSpirit Manual for Editors (ContentCreator)*, "Editing a preview page / Input elements / Imagemap"

7 Module Development, Scripts, API

7.1 Image Map: Setting Areas With Links Via API (Interface "ImageMapAgent")

By means of the input component CMS_INPUT_IMAGEMAP, links can be added at various locations over a selected image. Using the GUI, at first, a frame object is created for each link (in SiteArchitect: rectangle, circle, or polygon; in ContentCreator: rectangle only). Then, a link may be added to such a frame (also, "link-sensitive region", technically: "area").

Until now, the API only supported setting the image in the image map and adding links to areas. As of the current version of FirstSpirit, the API now also supports definition of areas and optional adding links on these areas via the new interface `ImageMapAgent` in the package `de.espirit.firstspirit.access.editor.value.imagemap` (FirstSpirit Access API).

Creating a frame requires use of a builder that is specific to each frame type (`CircleBuilder`, `RectangleBuilder`, `PolygonBuilder`), which may be obtained by calling the method `get*Builder()`, e.g.

```
getCircleBuilder()
```

Each builder requires specific parameters which are provided to it by calling specialized builder methods:

- `CircleBuilder` requires information about the x and y coordinates of the center point (`center(int x, int y)`) as well as the desired radius of the circle (`radius(int radius)`)

- `RectangleBuilder` requires information about the x and y coordinates of both the upper left and the lower right corners of the rectangle (`bounds(int left, int top, int right, int bottom)`)

- `PolygonBuilder` requires information about the x and y coordinates of each of the polygon's vertices (`add(int x, int y)`); the area's boundary is drawn along the vertices in the order in which they are added, whereas the first and last vertices added via the builder will automatically be connected

All builders support the method `link(Link link)` which may be used to assign a link object to the area that is being configured.

The builder pattern supports chained calls to a builder's methods, e.g.:

```
circleBuilder.center(151, 106).radius(102)
```

After configuring the builder with the desired parameters, the area is created using the method `build()`, e.g.:

```
circleBuilder.center(151, 106).radius(102).build();
```

Example: Configuring an image map with various areas using `ImageMapAgent`

Obtaining an `ImageMapAgent` object

```
import de.espirit.firstspirit.access.editor.value.imagemap.ImageMapAgent;
imageMapAgent = context.requireSpecialist(ImageMapAgent.TYPE);
```

Building an area object

The following code configures and builds a circular area, centered at (80, 80), with a radius of 70 pixels:

```
circleBuilder = imageMapAgent.getCircleBuilder();
areaCircle = circleBuilder.center(80, 80).radius(70).build();
```

The following code configures and builds a rectangular area with a top-left vertex at (328, 258) and a bottom-right vertex at (573, 422):

```
rectangleBuilder = imageMapAgent.getRectangleBuilder();
areaRectangle = rectangleBuilder.bounds(328,258,573,422).build();
```

The following code configures a polygonal area in the shape of a triangle (three vertices):

```
polygonBuilder = imageMapAgent.getPolygonBuilder();
polygonBuilder.add(30,660);
polygonBuilder.add(270,260);
polygonBuilder.add(30,260);
// In the following example, we'll use polygonBuilder to add a link to the area;
// polygonBuilder.build() will be called later.
```

Adding a link to an area object

Link data (choice of link template, link text, link target, etc.) is usually added to areas by editors, using the GUI. Via the API, such data may be defined using a link template that was obtained via the interface `StoreElementAgent` (package `de.espirit.firstspirit.agency`, FirstSpirit Developer API), e.g.:

```
storeElementAgent = context.requireSpecialist(StoreElementAgent.TYPE);
linkTemplate = storeElementAgent.loadStoreElement("link",IDProvider.UidType.
  TEMPLATESTORE_LINKTEMPLATE,false);
myLink = linkTemplate.createLink(null);
linkFormData = myLink.getFormData();
linkFormData.get(null,"text").set("e-Spirit Website");
linkFormData.get(null,"link").set("https://www.e-spirit.com");
myLink.setFormData(linkFormData);
```

- In line 2 of the above code example, the string `"link"` indicates the reference name of the desired link template.

- In lines 5 and 6, `"text"` indicates the link form's input component which should carry the link text, and `"link"` indicates the name of the input component which carries the link target (here, a URL).

This fully configured link object, `myLink`, may now be passed to the builder method `link(Link link)`:

```
// Continuing the polygonBuilder example from further above...
areaPolygon = polygonBuilder.link(myLink).build();
```

Adding areas to an imagemap input component

In order to add the configured areas to an imagemap input component's value of type `MappingMedium`, it is necessary to first obtain the imagemap's areas object. For an imagemap input component named `myImagemap` in the form data object `myFormData`, e.g.:

```
myImagemap = myFormData.get(null,"myImagemap").get();
areas = myImagemap.getAreas();
```

The individual area objects that have been built above can be added to the areas object using the method `add(Area area),` passing one `Area` object per call:

```
areas.add(areaCircle);
areas.add(areaRectangle);
areas.add(areaPolygon);
```

Lastly, the `areas` object (now containing at least the three area objects that were added above) is set on the `myImagemap` value object, and the updated `myImagemap` object is set in the fitting form field of the form data:

```
myImagemap.setAreas(areas);
myFormData.get(null,"myImagemap").set(myImagemap);
```

For further information, see *FirstSpirit Online Documentation*

- ▪ Template development / Forms / Input components / IMAGEMAP

- ▪ Template development / Template syntax / Data types / Area

- ▪ Template development / Template syntax / Data types / MappingMedium

8 SiteArchitect / ServerManager

8.1 Use of display names

Many parts of the FirstSpirit interface are flexible and can be adapted to meet the needs of a specific project and its users: Language-specific labels for the tree view, as well as form fields, tool tips, etc., can be entered in the editing area via what is called the "editorial language" (also known as the "display language", if the project administrator has configured this setting accordingly for the project). In SiteArchitect, any editor can select the language in which text should be displayed in the "View – Preferred display language" menu. If required, the technical names of the objects can also be shown. The language display has now been optimized through more stringent use of stored display names and thus standardized.

As part of this optimization measure, the "View/Preferred display language/Display reference names in tree" menu item has been renamed "View/Preferred display language/Display reference names":
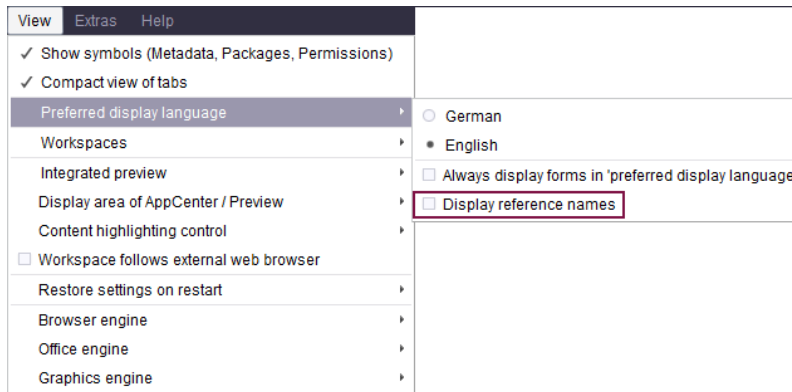
because this function is linked not only to the tree view but also, for example, to the editing area.

9   SiteArchitect

9.1   Browser integration: "Internet Explorer"

With the current version of FirstSpirit, the discontinued "Internet Explorer" variant for the "integrated preview" in FirstSpirit SiteArchitect is no longer supported. The current BETA version "Internet Explorer (BETA)" is being released to replace it. The corresponding menu entry has been changed to "Internet Explorer" and the "Internet Explorer (BETA)" menu item has been removed from SiteArchitect.

Up to and including FirstSpirit version 5.2R20:
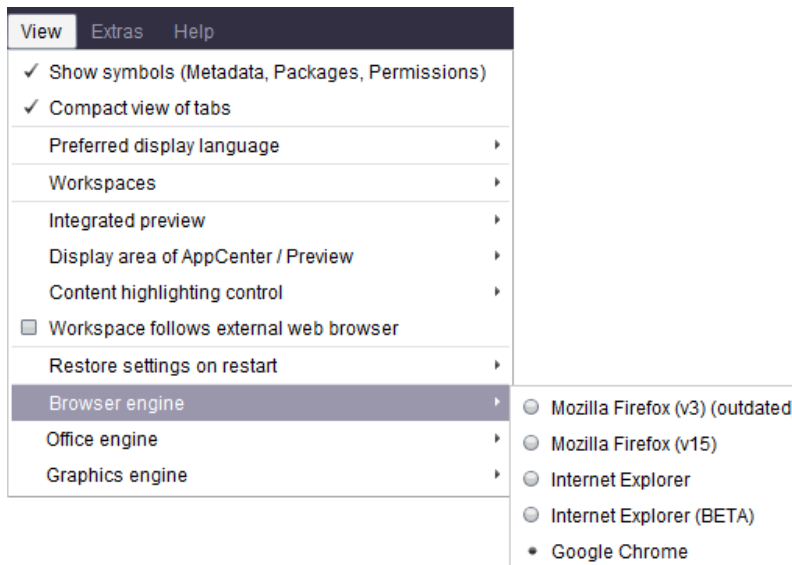
From FirstSpirit version 5.2R21:
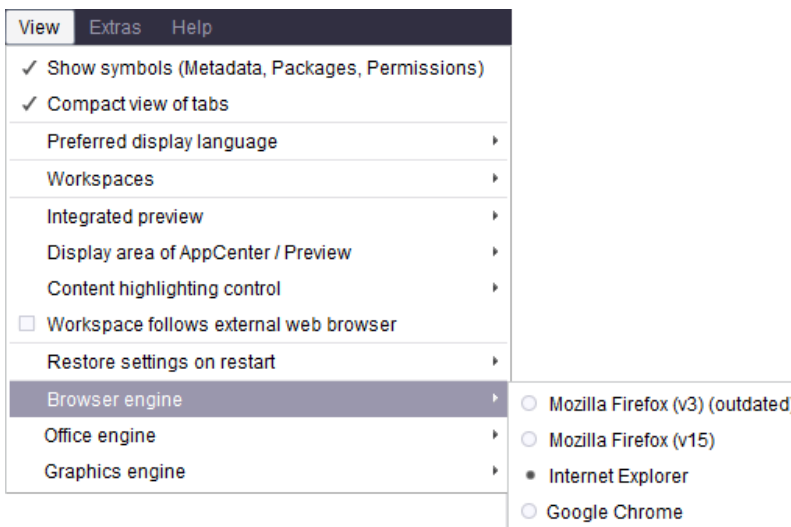
10   System

10.1   Integrated Software

With the current FirstSpirit version, the following, internally used software has been updated:

- **Java Development Kit** ("JDK", included in FirstSpirit Launcher)
  Update from version 8u161 to 8u171

11   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
Oracle Java 7 Support	5.2R15	5.2R22
FirstSpirit Developer API: de.espirit.firstspirit.agency.GroupsAgent	5.2R15	
Integrated preview for content (Mozilla Firefox, v3 and v15)	5.2R18	August 2018
Integrated preview for content (Internet Explorer old)	5.2R18	May 2018
Integrated Jetty	5.2R18	August 2018
FirstSpirit Developer-API: de.espirit.firstspirit.access.AccessUtil#delete	5.2R18	
Operating-system specific third-party applications in the AppCenter of the FirstSpirit SiteArchitect (exception: browser Integration)	5.2R19	September 2018
Oracle Java 7 Support	5.2R21	November 2018
Oracle Java 7 Support	5.2R21	November 2018

12 Overview

ID	Description	Categories
189069	Improved localization of the rich-text editor (input component CMS_INPUT_DOM).	ContentCreator
194135	Optimized display of long link texts in the input component CMS_INPUT_LINK.	ContentCreator
194795	The language display has now been optimized through more stringent use of stored display names. Further information can be found in chapter "SiteArchitect / Server-Manager: Use of display names".	Languages, Server-Manager, SiteArchitect
203110	When using Drag & Drop to replace media contents (.css files), erroneous behavior could occur.	Media Store

ID	Description	Categories
203171	Using the default URL mode when generating, file name extensions where not taken into account for the building of unique file names.	Generation
204629	Erroneous behavior could arise when displaying customer-specific filter parameters in the FS_INDEX selection dialog.	ContentCreator
204906	During import, duplicate style node definitions in a format template will now be removed.	Content Transport
204975	In the FirstSpirit ContentTransport Storage app, the dialog for configuration of the file system path can now be resized manually such that long paths, too, can be shown completely.	Content Transport, ServerManager
205473	For image maps (CMS_INPUT_IMAGEMAP), areas with links can now be set via API as well (interface `ImageMapAgent`). Further information can be found in chapter "Module Development, Scripts, API: Image Map: Setting Areas With Links Via API (Interface "ImageMapAgent")".	Developer, FirstSpirit API, Input Components
205858	It is now also possible to use the CMS_INPUT_IMAGEMAP input component for uploading media using drag-and-drop. Further information can be found in chapter "Input components: CMS_INPUT_IMAGEMAP can obtain an additional "upload" attribute".	ContentCreator, Developer, Editor, Input Components, Media Store, SiteArchitect
206970	Under rare circumstances a rule violation was erroneously displayed in the FS_CATALOG input component.	Dynamic Forms, Input Components
207878	Berkeley DB Java Edition V7 is now used automatically as default for new and imported projects. (The *FirstSpirit Manual for Administrators* has not yet been updated at the relevant location: it still assumes that version 5 is used by default (Chapter "FirstSpirit ServerManager / Project properties / Repository"). The text segment will be adapted as of the next publication.)	FirstSpirit Administrator, Repository
208149	Further optimizations have been made to the "BerkeleyUtil" (`Berke- leyUtil.jar`) conversion tool in the latest FirstSpirit version. Further information can be found in chapter "Administration: Further optimizations to "BerkeleyUtil"".	FirstSpirit Administrator, Integrated software

ID	Description	Categories
208255	When installing a feature erroneous behavior could occur under certain circumstances.	Content Transport, External synchronization
208415	Under rare circumstances erroneous behavior could occur when executing the project schedule "Repair references".	Tasks
208491	Project re-import after repeated project exports was improved.	Archiving
208701	Optimized several system messages in the language "German".	ContentCreator, SiteArchitect
208715	Improved internal date format in reports.	Java 10 (EAP)
208726	When using the "JettyService" erroneous behavior could occur on FirstSpirit server shutdown.	FirstSpirit Administrator, Services
208742	The updating of web apps when using the Jetty module was improved.	Modules
208755	With the current version of FirstSpirit, the discontinued "Internet Explorer" variant for the "integrated preview" in FirstSpirit SiteArchitect is no longer supported. The current BETA version "Internet Explorer (BETA)" is being released to replace it. The menu entry has been changed to "Internet Explorer" and the "Internet Explorer (BETA)" menu item has been removed from SiteArchitect. Further information can be found in chapter "SiteArchitect: Browser integration: "Internet Explorer"".	Integrated software, SiteArchitect
208794	Security improvements in FirstSpirit ServerMonitoring.	Security
208862	When importing a feature an error could occur, when a database schema in the source project and a special element in the destination project had the same ID.	Content Transport
208867	Improved performance when loading contents from nested form elements (FS_CATALOG, FS_LIST).	ContentCreator

ID	Description	Categories
208906	For existing FirstSpirit installations that use Oracle Java 9 or higher, the wrapper file containing the start parameters for Java 9 and higher (file `fs-wrapper-j2.include.conf` by default) should be modified manually. Further information can be found in chapter "Administration: "Attach log files:" in schedules where e-mail is sent".	FirstSpirit Administrator, Java 10 (EAP), Tasks
208936	In the current FirstSpirit version, updated internally used software. Further information can be found in chapter "System: Integrated Software".	Integrated software, Launcher
208987	When using CRC deployment (module "FirstSpirit Security") errors could occur.	Modules
209075 209061	Security improvements in access control.	Security
209096	ContentCreator dialogues were not always closing as expected, when using FirstSpirit Third Party Preview (TPP).	ContentCreator
209131	The "Legal notices" for the licence and for third party software used in FirstSpirit were improved.	FirstSpirit home page
209197	Display of the project icon has been corrected in the project properties dialogue.	ServerManager

13   Categories

13.1   Archiving

ID	Description
208491	Project re-import after repeated project exports was improved.

13.2 Content Transport

ID	Description
204906	During import, duplicate style node definitions in a format template will now be removed.
204975	In the FirstSpirit ContentTransport Storage app, the dialog for configuration of the file system path can now be resized manually such that long paths, too, can be shown completely.
208255	When installing a feature erroneous behavior could occur under certain circumstances.
208862	When importing a feature an error could occur, when a database schema in the source project and a special element in the destination project had the same ID.

13.3 ContentCreator

ID	Description
189069	Improved localization of the rich-text editor (input component CMS_INPUT_DOM).
194135	Optimized display of long link texts in the input component CMS_INPUT_LINK.
204629	Erroneous behavior could arise when displaying customer-specific filter parameters in the FS_INDEX selection dialog.
205858	It is now also possible to use the CMS_INPUT_IMAGEMAP input component for uploading media using drag-and-drop. Further information can be found in chapter "Input components: CMS_INPUT_IMAGEMAP can obtain an additional "upload" attribute".
208701	Optimized several system messages in the language "German".
208867	Improved performance when loading contents from nested form elements (FS_CATALOG, FS_LIST).
209096	ContentCreator dialogues were not always closing as expected, when using FirstSpirit Third Party Preview (TPP).

13.4 Developer

ID	Description
205473	For image maps (CMS_INPUT_IMAGEMAP), areas with links can now be set via API as well (interface `ImageMapAgent`). Further information can be found in chapter "Module Development, Scripts, API: Image Map: Setting Areas With Links Via API (Interface "ImageMapAgent")".
205858	It is now also possible to use the CMS_INPUT_IMAGEMAP input component for uploading media using drag-and-drop. Further information can be found in chapter "Input components: CMS_INPUT_IMAGEMAP can obtain an additional "upload" attribute".

13.5 Dynamic Forms

ID	Description
206970	Under rare circumstances a rule violation was erroneously displayed in the FS_CATALOG input component.

13.6 Editor

ID	Description
205858	It is now also possible to use the CMS_INPUT_IMAGEMAP input component for uploading media using drag-and-drop. Further information can be found in chapter "Input components: CMS_INPUT_IMAGEMAP can obtain an additional "upload" attribute".

13.7   External synchronization

ID	Description
208255	When installing a feature erroneous behavior could occur under certain circumstances.

13.8   FirstSpirit API

ID	Description
205473	For image maps (CMS_INPUT_IMAGEMAP), areas with links can now be set via API as well (interface `ImageMapAgent`). Further information can be found in chapter "Module Development, Scripts, API: Image Map: Setting Areas With Links Via API (Interface "ImageMapAgent")".

13.9   FirstSpirit Administrator

ID	Description
207878	Berkeley DB Java Edition V7 is now used automatically as default for new and imported projects. (The *FirstSpirit Manual for Administrators* has not yet been updated at the relevant location: it still assumes that version 5 is used by default (Chapter "FirstSpirit ServerManager / Project properties / Repository"). The text segment will be adapted as of the next publication.)
208149	Further optimizations have been made to the "BerkeleyUtil" (`BerkeleyUtil.jar`) conversion tool in the latest FirstSpirit version. Further information can be found in chapter "Administration: Further optimizations to "BerkeleyUtil"".
208726	When using the "JettyService" erroneous behavior could occur on FirstSpirit server shutdown.
208906	For existing FirstSpirit installations that use Oracle Java 9 or higher, the wrapper file containing the start parameters for Java 9 and higher (file `fs-wrapper-j2.include.conf` by default) should be modified manually. Further information can be found in chapter "Administration: "Attach log files:" in schedules where e-mail is sent".

13.10 FirstSpirit home page

ID	Description
209131	The "Legal notices" for the licence and for third party software used in FirstSpirit were improved.

13.11 Generation

ID	Description
203171	Using the default URL mode when generating, file name extensions where not taken into account for the building of unique file names.

13.12 Input Components

ID	Description
205473	For image maps (CMS_INPUT_IMAGEMAP), areas with links can now be set via API as well (interface `ImageMapAgent`). Further information can be found in chapter "Module Development, Scripts, API: Image Map: Setting Areas With Links Via API (Interface "ImageMapAgent")".
205858	It is now also possible to use the CMS_INPUT_IMAGEMAP input component for uploading media using drag-and-drop. Further information can be found in chapter "Input components: CMS_INPUT_IMAGEMAP can obtain an additional "upload" attribute".
206970	Under rare circumstances a rule violation was erroneously displayed in the FS_CATALOG input component.

13.13 Integrated software

ID	Description
208149	Further optimizations have been made to the "BerkeleyUtil" (`BerkeleyUtil.jar`) conversion tool in the latest FirstSpirit version.

ID	Description
	Further information can be found in chapter "Administration: Further optimizations to "BerkeleyUtil"".
208755	With the current version of FirstSpirit, the discontinued "Internet Explorer" variant for the "integrated preview" in FirstSpirit SiteArchitect is no longer supported. The current BETA version "Internet Explorer (BETA)" is being released to replace it. The menu entry has been changed to "Internet Explorer" and the "Internet Explorer (BETA)" menu item has been removed from SiteArchitect. Further information can be found in chapter "SiteArchitect: Browser integration: "Internet Explorer"".
208936	In the current FirstSpirit version, updated internally used software. Further information can be found in chapter "System: Integrated Software".

13.14 Java 10 (EAP)

ID	Description
208715	Improved internal date format in reports.
208906	For existing FirstSpirit installations that use Oracle Java 9 or higher, the wrapper file containing the start parameters for Java 9 and higher (file `fs-wrapper-j2.include.conf` by default) should be modified manually. Further information can be found in chapter "Administration: "Attach log files:" in schedules where e-mail is sent".

13.15 Languages

ID	Description
194795	The language display has now been optimized through more stringent use of stored display names. Further information can be found in chapter "SiteArchitect / ServerManager: Use of display names".

13.16 Launcher

ID	Description
208936	In the current FirstSpirit version, updated internally used software. Further information can be found in chapter "System: Integrated Software".

13.17 Media Store

ID	Description
203110	When using Drag & Drop to replace media contents (.css files), erroneous behavior could occur.
205858	It is now also possible to use the CMS_INPUT_IMAGEMAP input component for uploading media using drag-and-drop. Further information can be found in chapter "Input components: CMS_INPUT_IMAGEMAP can obtain an additional "upload" attribute".

13.18 Modules

ID	Description
208742	The updating of web apps when using the Jetty module was improved.
208987	When using CRC deployment (module "FirstSpirit Security") errors could occur.

13.19 Repository

ID	Description
207878	Berkeley DB Java Edition V7 is now used automatically as default for new and imported projects. (The *FirstSpirit Manual for Administrators* has not yet been updated at the relevant location: it still assumes that version 5 is used by default (Chapter "FirstSpirit ServerManager / Project properties / Repository"). The text segment will be adapted as of the next publication.)

13.20 Security

ID	Description
208794	Security improvements in FirstSpirit ServerMonitoring.
209075 209061	Security improvements in access control.

13.21 ServerManager

ID	Description
194795	The language display has now been optimized through more stringent use of stored display names. Further information can be found in chapter "SiteArchitect / ServerManager: Use of display names".
204975	In the FirstSpirit ContentTransport Storage app, the dialog for configuration of the file system path can now be resized manually such that long paths, too, can be shown completely.
209197	Display of the project icon has been corrected in the project properties dialogue.

13.22 Services

ID	Description
208726	When using the "JettyService" erroneous behavior could occur on FirstSpirit server shutdown.

13.23 SiteArchitect

ID	Description
194795	The language display has now been optimized through more stringent use of stored display names. Further information can be found in chapter "SiteArchitect / ServerManager: Use of display names".
205858	It is now also possible to use the CMS_INPUT_IMAGEMAP input component for uploading media using drag-and-drop.

ID	Description
	Further information can be found in chapter "Input components: CMS_INPUT_IMAGEMAP can obtain an additional "upload" attribute".
208701	Optimized several system messages in the language "German".
208755	With the current version of FirstSpirit, the discontinued "Internet Explorer" variant for the "integrated preview" in FirstSpirit SiteArchitect is no longer supported. The current BETA version "Internet Explorer (BETA)" is being released to replace it. The menu entry has been changed to "Internet Explorer" and the "Internet Explorer (BETA)" menu item has been removed from SiteArchitect.

Further information can be found in chapter "SiteArchitect: Browser integration: "Internet Explorer"". |
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13.24 Tasks

ID	Description
208415	Under rare circumstances erroneous behavior could occur when executing the project schedule "Repair references".
208906	For existing FirstSpirit installations that use Oracle Java 9 or higher, the wrapper file containing the start parameters for Java 9 and higher (file `fs-wrapper-j2.include.conf` by default) should be modified manually.

Further information can be found in chapter "Administration: "Attach log files:" in schedules where e-mail is sent". |
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