database solutions	CIRCA – BUGFIX
total pages: 4 date: 23.03.2009 revision: 1.02	**Wrong document version in "What's New"**

Table of Content

1 Non-technical Bug Description

Links in the "What's New" section refer to the wrong version of documents. If documents with version numbers above 1.9 are inserted, the link in the "What's New" section always refers to version 1.9 of the document until a document with a version number of 1.91 or higher is uploaded. The same happens on higher main version numbers (i.e. 2.10).

2 Technical Bug Description

To identify the bug the Non-technical Bug Description is sufficient.

3 Reported by

This bug has been reported by the federal office for consumer protection and food safety in Germany.

4 Related Versions

This bug is confirmed for CIRCA Version 3.4 Patch 9.

In all probability all prior versions are affected.

The bugfix is only tested and verified for CIRCA version 3.4 patch 9.

5 Reason

The information in the "What's New" section is generated by a database query. In this query the latest version of a document is selected by the SQL-max function from a SQL-varchar field. This function selects the maximum value of the row by sorting the values in alpha-numeric order. In this sorting order the value 1.9 is higher than 1.10 but in CIRCA 1.10 should be the higher version number. So if you insert 1.91 or 2.0 as version, the SQL-max function returns the expected result. The same behaviour appears on higher main version numbers (i.e. 3.10).

The related source code of this bug could be found at line:

www/enc/lib/search_dbi/Query.pm:213

www/enc/lib/search_dbi/Query.pm:219

After fixing this bug the information in "What's New" is not updated instantly because this information is cached in system files.

6 Description of Bugfix

The bugfix replaces the SQL-max function in the affected SQL-query by a custom function which returns the maximum version number as expected by CIRCA.

6.1 Modifications

The bugfix modifies only two affected lines in the file Query.pm

At line 213:

max(t2.$Meta::version) as $Meta::version

is replaced by:

replace(max(concat(substring_index(t2.$Meta::version, \'.\', 1), \'.\', lpad(substring_index(t2.$Meta::version, \'.\', -1), 2, \' \'))), \' \', \'\') as $Meta::version

At line 219:

max($Meta::version) as $Meta::version

is replaced by:

replace(max(concat(substring_index($Meta::version, \'.\', 1), \'.\', lpad(substring_index($Meta::version, \'.\', -1), 2, \' \'))), \' \', \'\') as $Meta::version

This custom function inserts a space between the dot an the sub version number if the sub version number only has one digit. (i.e. "1.9" is converted to "1. 9", a space between "." and "9"). After this the maximum value is selected, now 1. 9 is lower than 1.10. In the last step all spaces are stripped to get the correct string for the version number.

Because the output of this query is cached by CIRCA, no loss of performance will appear. To remove the cache files to update the "What's New" information instantly see Installation of Bugfix.

7 Installation of Bugfix

WARNING: This bugfix is only tested and verified for CIRCA version 3.4 patch 9. Regardless of which version you are using, you install this bugfix at your own risk. This bugfix is not an official release.

7.1 Installation

Apply the Modifications as described above to your system. Restart your CIRCA instance.

No files are provided because customer specific modifications have been applied to the related file.

7.2 Removing Cache Files

The information used for the "What's New" section is cached in a system file for every IG. The cache files are newly generated if these files do not exist. So removing these files updates the version numbers in "What's New" directly.

The file called "LIB" is stored in every IG data directory.

To delete all related cache files switch to the CIRCA user and run:

find $IRC_HOME/www/data/ -name LIB -exec rm {} -i \;

8 Building a Bugfix for Other Versions

This bugfix should work on all affected versions of CIRCA. But it is not tested to other versions. Do tests before releasing this bugfix to other versions.

9 Questions

If you have any questions about this document, please contact the CIRCA support at ni database solutions. Please refer to this document in the subject.

E-mail address: support@circa-support.eu

10 Disclaimer

You use all information in this document at your own risk. ni database solutions does not guarantee the completeness or correctness of the information in this document. ni database solutions may modify this document at any time without any notification. ni database solutions will only take responsibility for losses if it is required by European and/or German laws.