ODABA Releases TODBMS and Tools 15.0.1

ODABA is a Terminology-Oriented Database Management System (TODBMS) based on standards for object-oriented databases (ODMG 2003). In contrast to other databases that are focused on big data processing, ODABA stands for smart data processing, i.e. it is intended to be used for complex problems and complex data structures in combination with complex processing rules.

The latest version of ODABA has been released on Saturday, Feb 3rd, 2018. With ODABA 15.0.1 a bug fix release has been provided.

More details are described in change logs and in notices delivered with the development databases (ODE tools: **Object/Notices**). Notices delivered with the databases also contain a list of open topics planned for next releases. Notices are stored separately for basic functions (**sos.dev**), database kernel (**opa.dev**), GUI framework (**gui.dev**) and ODE tools (**ode.dev**).

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Detailed changes (ODABA)

Focus for this release was providing support for aggregation model (P3 database model). In order to support aggregation views, `VIEW` definition has been extended. More over, performance has been improved and several minor extensions have been made. Besides, several bugs have been removed, which are reported in the change log.

ODABA Database kernel (base)

A memory bug removing allocated area for attributes has been removed.

ODABA Application Program Interface (base/opa)

No changes made.

ODABA Script Interface OSI

No changes made.

Open Document Support

No changes made.

Detailed changes (ODE and GUI framework)

Replacing ODABA GUI framework call under Windows from **ode90.exe** to **ode.exe**. Calling **ode90.exe** is still supported in version 15 but will be removed in version 16.

GUI Framework (gui)

Providing **ode90.exe** (in addition to **ode.exe**)

ODE tools (ode)

No changes made.

ODABA GUI Application Program Interface (gui/ode)

No changes made.

ODABA Documentation

Replacing ODABA GUI framework call under Windows from **ode90.exe** to **ode.exe**. Calling **ode90.exe** is still supported in version 15 but will be removed in version 16.

Installing ODABA

ODABA, including applications and libraries, is available for free under Open Source licenses (GPL). ODABA runs on various hardware configurations, operating systems and works on many desktop environments. ODABA can be obtained as source code distribution and in various binary formats from http://sourceforge.net/downloads/odaba/.

Several features require third party components, which have to be installed before installing ODABA. When the corresponding libraries are not available, one may install ODABA, but the features referenced below will not work.

- libzip - required for LibreOffice document generation
- zlib - required for data compression and database backup and restore)
- curl - required for enhanced email support)
- hunspell - required for spell check in ODE tools, like terminus

Using optimizing compiler (14), `this` pointer checks must not be optimized. Use `-fno-delete-null-pointer`-checks option when using GNU optimizing compiler.

Previous Releases

With the release of ODABA 15.0.0 we declare the end of live for all previous released ODABA versions less than version 14.0.0. Bug fixes on 13.2.x version are provided on demand.

System model has been changed (extended), but no version upgrade is required. However, development tools do not run with old resource database (ode.dev).
Changes affect view definitions. Views have been moved from functional model (ODC_View) to database model and data type had been renamed to SDB_View. When views have already been stored in a resource database, the resource database has to be updated:

- exporting view definitions to an XML file (using old **ode.dev** database)
- rename ODC_ to SDB_ in xml file
- import updated XML file (using new **ode.dev**)

System Requirements

In order to get the most out of this release, we recommend to use a recent computer with at least 1 GB of memory and 2 GHz CPU or better. In order to install the binaries, about 100 MB are required. Installing sources requires about 50 MB. 80 MB are required in addition, when installing the documentation locally.

About RUN-Software

RUN-Software develops database management system ODABA and tools since 1994. Besides general and particular software solutions, RUN-Software publishes theoretical works about database theory and terminology in connection with data modeling.

See also: www.run-software.com