ODABA Releases TODBMS and Tools 17.2.2

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 Friday, December 31st, 2021. With ODABA 17.2.2 a version with several bug-fixes and slight changes has been provided. For Windows users, a DevStudio 2017 compiled version is released in addition for 32 and 64 bit. For Linux users, GCC 6 is supported.

We do not deliver anymore .msi files for Windows installations, since ODABA does not need any kind of registration in the Windows registry. Instead, binary installations for Windows are delivered as 32 and 64 bit versions compiled with MS VS2010 and VS2017.

More details are described in change logs and in notices delivered with the development databases (ODE tools: **Objects/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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Berlin, December 2021

Content

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The latest version of ODABA has been released on Sunday, August 29th, 2021. With ODABA 17.2.1 a version with several bug-fixes and slight changes has been provided. For Windows users, a DevStudio 2017 compiled version is released in addition for 32 and 64 bit. For Linux users, GCC 6 is supported.

We do not deliver anymore .msi files for Windows installations, since ODABA does not need any kind of registration in the Windows registry. Instead, binary installations for Windows are delivered as 32 and 64 bit versions compiled with MS VS2010 and VS2017.

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Detailed changes (ODABA)

The behavior of several features have been improved. Several bugs have been removed. Removed bugs are reported in the change log. Also, a few interface functions fave been changed/added.

ODABA Database kernel (base)

Several ODABA components have been improved or provide extended features:

Database features

- Support for application OSI interface functions
  In order to support OSI interface functions for applications, several functional extensions have been provided

Event handling:.

- Eventhandling has been optimized in order to avoid unnecessary function calls

Some errors within the resource (storage) management have been removed.

ODABA Application Program Interface (base/opa)

Some extensions and some changes have been made on API functionality.

Change status has following meaning:

- new - New function, class, enumeration or enumerator
- updated - Function has been updated
- expanded - Functions with same name but different parameter lists have been added
- removed - Function has been removed from interface
- return - return value data type changed
- osi - Function has been added to OSI interface

Interface changes:

Basic classes (namespace **`odaba`**)

- Property
  - initializeDescription (new, C++, osi interface generation)
  - openExtern (new, with string coding type)
  - closeAll (updated)
- **`Value`**
  - instanceArea (new, C++ only)
- **`IndexDefinition`**
  - changeCodingType (new, osi)
- **`File`**
  - currentDirectory (new, osi)

More details are described in ODABA online documentation: **Reference documentation/ODABA Application Program Interface.**

ODABA Script Interface OSI

OSI interfaces have been provided for all new (or changed) interface functions. Mainly, support for OSI interface generation in applications has been provided.

Open document support

Open document support has been improved and some bugs have been removed.

Detailed changes (ODE and GUI framework)

Some bugs in managing GUI resources have been removed. Moreover, performance has been improved and OSI interface function generation has been provided for C++ application functions.

GUI Framework (gui)

Bug fixes have been made. The Associate action now provides instances from the source collection, which are not yet in the target collection.

ODE tools (ode)

Support for generating OSI interface functions (_IF_ implementation) for C++ application functions, which allows replacing performance critical functions by C++ functions. Interface functions may be updated by pressing Ctrl+I,R while the cursor is in the interface function body.

ODABA GUI Application Program Interface (gui/ode)

Several extensions and some changes have been made on API functionality.

Change status has following meaning:

- new - New function, class, enumeration or enumerator
- updated - Function has been updated
- expanded - Functions with same name but different parameter lists have been added
- removed - Function has been removed from interface
- return - return value data type changed
- osi - Function has been added to OSI interface

Context classes

- `ControlContext`
  - **controlName (new, osi)**

Resource classes

No changes made for resource classes.

ODABA Documentation

The documentation tree has been extended by adding new function.

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
- libmicrohttp - required for OHTTPServer(D)
- Qt4 or Qt5 - for running the ODABA GUI framework

Using optimizing compiler GCC 6, `this` pointer checks must not be optimized. Use `-fno-delete-null-pointer-checks` option when using GCC optimizing compiler.

Previous Releases

With the release of ODABA 17.2.1 we declare the end of live for all previous released ODABA versions less than version 17.1.0. Bug fixes on 16.x.x version are provided on demand.

System model has not been changed and no version upgrade is required.

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