ODABA Releases TODBMS and Tools 17.2.3

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, October 1st, 2022. With ODABA 17.2.3 a version with several bug-fixes, some new features 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**).

run Software-Werkstatt GmbH
Winckelmannstrasse 61
12487 Berlin

Tel: +49 (30) 609 853 44
e-mail: run@run-software.com
web: www.run-software.com

Berlin, October 2022

Content

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Detailed changes (ODABA)

The behavior of several features, especially executing OSI functions, 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:

EMail support

- Generating email messages has been improved by translating subject and receivers to quoted printable strings when containing non ASCII characters

HTTP Server:.

- Supporting file transfer from server to client and specific allowance for running OSI functions

Multiple arrays

- Supporting multiple arrays (maximum five dimension values) for attributes and in OSI functions.

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`**
  - changeAccessKey (updated, C++, osi)
  - changeFilter (new, C++, osi)
  - changeKeyFilter (new, C++, osi)
  - fastEraseCollection (new, C++, osi)
  - insertObject (expanded, C++, osi)
- **`String`**
  - Constructor (expanded, C++, osi)
- **`Email`**
  - addReceiver (new, C++, osi)
  - clearReceivers (new, C++, osi)
  - replaceReceiver (new, C++, osi)
  - replaceReceiverName (removed, C++, osi)
- **`HTTP`**
  - DELETE (updated, C++, osi)
  - GET (updated, C++, osi)
  - PATCH (updated, C++, osi)
  - POST (updated, C++, osi)
  - PUT (updated, C++, osi)
- **`File`**
  - canAccess (new, C++, 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. Several bugs when executing OSI functions have been removed and internal behavior has been optimized.

Open document support

No changes made.

Detailed changes (ODE and GUI framework)

New application for defining and testing HTTP server requests has been provided. The Associate feature has been improved. Also, some bugs in managing GUI resources have been removed.

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, when source and target are compatible.

ODE tools (ode)

An enhanced mapping tool for defining and testing HTTP server requests has been provided (HTTPMapper), which is documented in the HTTPServer documentation.

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`
- regionFilter (new, C++, osi)

Resource classes

No changes made for resource classes.

ODABA Documentation

The documentation tree has been extended by adding new function and HTTPServer documentation has been extended by adding HTTPMapper description.

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 17.2.3 we declare the end of live for all previous released ODABA versions less than version 17.2.0. Bug fixes on 17.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