OpenRIMS Release Notes 2024-08-15

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# Motivation

The main goal of this release is to upgrade the database to MySQL 8.

Additionally:

* Upgrading JDK used to JDK 21
* Upgrading the Google Maps component
* A new Timeline feature has been introduced
* Upgrading the development environment to the newest versions of Eclipse, MySQL Workbench, Visual Paradigm
* New electronic administrative help document
* Upgrading the Deployment Guide
* Various support-related improvements

# Important notes

Since this release:

* The database model provided to upgrade the database will work only for the MySQL 8 database server
* The Google Map feature will not work unless the Google Maps API key is defined in the application.properties:
  + Getting API key manual can be found here <https://developers.google.com/maps/documentation/javascript/get-api-key>
  + The key should be defined in application.properties  
    pharmadex.google.map.api.key=*The API Key*

# Issues closed

| **#** | **Tracker** | **Subject** | **Due date** | **Description** |
| --- | --- | --- | --- | --- |
| 1903 | Support | Swap columns in the monitoring tables | 06/17/2024 | The department should be before NRA employees, see the picture |
| 1902 | Support | Workflow assistance. Reconsider resources and dictionaries that are marked as wrong | 06/17/2024 |  |
| 1901 | Support | Do we need a checklist for an applicant in the Public Form? | 06/17/2024 | suppose the application is under consideration by NRA... |
| 1899 | Support | Re-consider placement of the Notes when the application has been returned to the applicant | 06/17/2024 | Currently, it is unclear |
| 1898 | Support | Add checklists to the Application History, even if there is no Activity Data Form | 06/17/2024 |  |
| 1905 | Bug | EL Assistant. Madagascar 404 | 06/19/2024 | The configuration issue |
| 1904 | Support | Check resource definition and usage | 06/20/2024 |  |
| 1867 | Support | Allow Java 21 and MySQL 8 | 06/27/2024 | 1 Configure the development workstation for the subj - Java 21, Eclipse 2024, MySQL 8  2 Install the database from the dump  3 Maven install  4 Try to develop in the new env  5 How to use a model from 5 to update structure on 8. Do we need two models? |
| 1906 | Design | Move pdxmodel and pharmadex2 to the latest IDE | 07/03/2024 |  |
| 1896 | Support | General Administrate Help | 07/15/2024 | The Administrate feature became complex. It will be necessary to provide task-oriented help. Having this help directly under the Administrative menu will be nice because there is a lot of unused space here. |
| 1907 | Support | check all stored procedures for column names in quotas! | 07/23/2024 | Checked along with the database upgrade procedure |
| 1912 | Support | Preparation of the final 5.7 model | 07/25/2024 |  |
| 1908 | Support | Resolve sql\_mode in the dump 5.7 | 07/26/2024 | The Windows Power Shell script has been added |
| 1910 | Support | Covert VP ORM model from MySQL 8 database - the first step | 07/29/2024 | The testing will be needed |
| 1911 | Support | Database migration manual | 08/05/2024 | 5.7->8.X.X |
| 1913 | Support | Can a guest application be submitted if the scheduled run error? No! | 08/06/2024 | No, it can’t |
| 1887 | Support | Add to workflow breadcrumb durations in days for completed activities | 08/07/2024 | The timeline |
| 1914 | Support | Avoid race conditions in the new Application Dashboard | 08/08/2024 | The reason for the race condition has been eliminated |
| 1917 | Support | Does revoke or cancel all activities? | 08/09/2024 | Yes, it does |
| 1916 | Support | Connection parameters for Looker Studio and MySQL 8 | 08/09/2024 | The allowPublicKeyRetrieval=true parameter should be added to the JDBC connect string |
| 1915 | Support | Revise fix administrate online help | 08/09/2024 | Exclude unnecessary items |
| 1909 | Support | Google map software actualization | 08/09/2024 | Google introduced new APIs for map service. The previous API has been declared as outdated and will not work |
| 1897 | Support | check schedulers, guest host | 08/09/2024 | Yes, all necessary validations are in place |

# Documentation changes

| **Document** | **Status** | **Redmine address** | **Wiki Address** |
| --- | --- | --- | --- |
| Deployment guide | improved | https://redmine.openrims.org/documents/116 |  |
| OpenRIMS approach for application process automation | new | https://redmine.openrims.org/documents/243 |  |
| Features for the OpenRIMS Supervisor User | New | https://redmine.openrims.org/documents/244 |  |
| Migration of OpenRIMS database from MySQL 5.7 to MySQL 8 | New | https://redmine.openrims.org/documents/245 |  |

# Messages that should be defined

**Use the Administrate-Messages-Lost Messages feature for the other new messages resolving**

# Disclaimer

All new and improved features have been tested against the particular testing examples.

Thus, this release may contain errors, a bad user interface, and inconsistencies. Please, report them to [alex.kurasoff@gmail.com](mailto:alex.kurasoff@gmail.com).