1 Preface

This document describes the installation and the update of Open-LIMS, Version 0.3.9.9-6 and introduces into the first steps of Open-LIMS. To install Open-LIMS, especially to install the required web-server, IT knowledge is necessary.

2 Requirements

Notice: Open-LIMS can not run in XAMPP/WAMP/LAMP-environments. You have to set-up a web-server, PostgreSQL, PHP and its extensions manually.

Minimum

- – PostgreSQL 8.3 or newer
- – PHP 5.3.0 or newer
- – PHP-Extensions: pgsql, gd2, imagick, mbstring

Recommend

- – PostgreSQL 9.0 or newer
- – PHP 5.3.5 or newer (PHP 5.4 is not recommend)
- – PHP-Extensions: pgsql, gd2, imagick, mbstring, uploadprogress (PECL-Package)

3 Update

Important: If you are using Open-LIMS Version 0.3.9.9-3 or below, update your database to Version 0.3.9.9-4 first. Running the update with Version 0.3.9.9-3 or below can destroy your database!

Notice: The structure of the configuration-file has changed, you have to insert your configuration-information again.

3.1 Update Files

1. Save your configuration-file from ./www/config/main.php
2. Delete the content from ./www
3. Insert the content of ./www of the package into your ./www folder
4. **Do not** overwrite ./www/config/main.php with your old config-file
5. Open ./www/config/main.php
6. Change values of $server['main_folder'], $database['database'], $database['user'], $database['password'], $database[0]['server'] and $database[0]['port']
7. Save the file

3.2 Update Database

1. If you are not connecting from localhost, add your IP-address in ./www/install/hosts.config.php
2. Open http://your-open-lims-path/install/index.php in your browser
3. Login with an account with administrator privileges
4. Click on "start update"

4 Installation

4.1 Preparation of the Server

Important: Disable "PHP-Safemode" and "Register Globals".

1. Create a folder for Open-LIMS
2. Copy the folders "www", "filesystem" and "logs" into that folder
3. Reconfigure the webserver-path (htdocs) to [your-open-lims-folder]/www
4. "filesystem" and its subfolders must be writable for the webserver and should be not accessible via http-requests.

Notice: The standard filesize for uploads is limited to 2048KB in Apache and PHP.

Apache: Insert into your configuation file the following lines, to increase this limit to 2GB.

```
php_value post_max_size 2048M
php_value max_upload_size 2048M
php_value file_uploads On
php_value upload_max_filesize 2048M
LimitRequestBody 2147483648
```

4.2 Preparation of Open-LIMS

1. Open ./www/config/main.php
2. Change values of $server['main_folder'], $database['database'], $database['user'], $database['password'], $database[0]['server'] and $database[0]['port']
3. Save the file

4.3 Run Installation

1. If you are not connecting from localhost, add your IP-Adress in ./www/install/hosts.config.php
2. Open http://your-open-lims-path/install/index.php in your browser
3. Click on "start installation"

5 After Installation

You can login into Open-LIMS with:

Username: system
Password: 20080930

Change the password of the user 'system' after your first login. 'system' is the super-user of Open-LIMS.

6 First Administration Steps

Login with an administrator account. The account "system" is the initial administrator account.

Notice: There are no Organisation Units, Project-Templates, Sample-Templates, Value (Forms) Templates, Locations or Equipment. You have to create Templates and Organisation Units first.

6.1 Template Installation

1. Click on "Data" tab
2. Switch to "/templates/OLDL" for Project or Sample templates or to "/templates/OLVDL" for Value templates
3. Click on "Add" -> "Add Files" and upload your template(s)
4. Click on "OL-Admin" tab
5. Select "Project Templates", "Sample Templates" or "Value Templates" in the left menu
6. Click on "Add..."
7. Select your template-file and complete the missing information
8. Click on "new"
9. Repeat the steps 5 – 8 for each uploaded template

6.2 Create First Organisation Unit

Organisation Units are a hierarchical representation of the organisational-structure of your organisation. It allows to create a hierarchical tree of organisational elements (e.g. University -> Faculties -> Institutes -> Lab-Groups -> Subgroups ...)

1. Click on "OL-Admin" tab
2. Select "Organisation Units" in the left menu
3. Click on "Add Organisation Unit"
4. Enter a name and select a type
5. Select "Contains Projects" -> Yes, if this Organisation Unit contains any kind of data. Select no, if it is an organisational parent only.
6. Click on "new" an repeat the steps 3 – 6 for each Organisation Unit on the root of the tree
7. If you want to create a child of an Organisation Unit, click on "CC" of the parent Organisation Unit

6.3 Create User

1. Click on "OL-Admin" tab
2. Select "Users" in the left menu
3. Click on "Add User"
4. Enter the requested information
5. Click on "Add"
6. You'll get an initial password for the new user
7. Repeat the steps 3 – 6 for each new user

7 First User Steps

Login with your personal account.

7.1 Create first Project

1. Click on "Projects" tab
2. Click on "New Project"
3. Select "normal project"
4. Follow the instructions of the assistant
5. After finishing the assistant, you'll see your new Project

7.2 Create first Sample

1. Click on "Samples" tab
2. Click on "New Sample"
3. Follow the instructions of the assistant
4. After finishing the assistant, you'll see your new Sample