

# Compound Registration System Requirements

## Software requirements, server side

- OS: OS-independent, tested only on Linux, Windows 10 Professional and Windows Server 2012 R2
- Java: JRE 1.8.0\_91 and newer

 If you want to use encryption to encrypt the DB password, we recommend using **JRE 1.8.0\_161** and newer, or if you are using older versions you have to install the JCE Unlimited Strength extension from here: <http://www.oracle.com/technetwork/java/javase/downloads/jce8-download-2133166.html> (the downloaded zip contains the readme and the installation instructions).

- Apache Tomcat 8.5+

 Make sure that you follow the installation steps carefully:

<https://tomcat.apache.org/tomcat-8.5-doc/appdev/installation.html>

- MySQL 5.1 - 5.7 or Oracle 11g or 12c for the internal registration database, and theoretically any JDBC-compatible DBMS for the configured upstream connection

 Check the installation guide for make the DBSM deployment easier.

Oracle: [https://docs.oracle.com/cd/E11882\\_01/nav/portal\\_11.htm](https://docs.oracle.com/cd/E11882_01/nav/portal_11.htm)

MySQL: <https://dev.mysql.com/doc/mysql-installation-excerpt/5.7/en/>

- Configured SMTP mail server for e-mail feedback on registration
- JChem Oracle Cartridge is not needed

## Software requirements, client side

- Java: JRE 1.6 - 1.8 (needed when using MarvinSketch applet in all browsers, and in Internet Explorer 11 also for the file uploads)
- Web browser: a recent version of Mozilla Firefox, Google Chrome, Safari, or Internet Explorer 11+
- ChemDraw 14 or above has to be installed locally (which installs the browser plugins) if chosen as a structure editor

## Hardware requirements, server side

- Depends mainly on the database size
- At least 2-4 cores are recommended
- 4-8 GB RAM or more, at least 3 GB should be provided explicitly for the Tomcat JVM.
- Cca 500 MB disk space for the application, additional 1 GB during deployment for temporary files; data storage disk space requirements highly depend on the number of structures, approximately 5 GB / 1 M structures

## Hardware requirements, client side

- Standard office hardware that can run Java applets and a modern browser with JavaScript support with a decent performance
- At least 4 GB RAM suggested if large (> 10000 structures) SD files are processed during bulk upload
- Recommended minimum display resolution 1366x768