



## Olympos

Chronos Web Tools

*Installation 0.9.7*

*Author: Giuseppe Platania*

*Owner: Giuseppe Platania*

*Customer: eEnergy*



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## Document History

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### Document Location

This is a snapshot of an on-line document. Paper copies are valid only on the day they are printed. Refer to the author if you are in any doubt about the currency of this document.

The source of the document will be found in the Subversion repository on Source Forge.

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### Revision History

Date of this revision: 04/09/09	Date of next revision <i>TBD</i>
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Revision Number	Revision Date	Summary of Changes
(#)	(-)	(Describe change)
0.1	18/12/08	created
0.2	03/02/09	Update installation steps
0.8.1	04/02/09	Update for 0.8.1
0.9	04/30/09	Update for 0.9
0.9.5	09/04/09	Update for 0.9.5
0.9.7	09/04/09	Update for 0.9.7



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## 1. Abstract

This file helps to configure and install the **Chronos Web Tools**, including the **Chronos Web Modeller** and the **Chronos web Browser**. It is addressed to system administrators only. If you are an user start with the help.

You can download the most recent CWT version from: <http://sourceforge.net/projects/olympus/>

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## 2. License

The CWT and the accompanying materials are made available under the terms of the Eclipse Public License v1.0 which accompanies this distribution, and is available at <http://www.eclipse.org/legal/epl-v10.html>.

The concept of Chronos is made available under the Creative Common license.

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## 3. Requirements

Please consider the following list of requirements before installing the Chronos Web Modeler

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### 3.1 Server hardware

Minimal configuration (development)

<b>CPU</b>	1x2,5 GHz
<b>RAM</b>	1 GB
<b>HD</b>	1 x 500 GB
<b>RAID Level</b>	0

Suggested (productive)

<b>CPU</b>	4 x 2,5 GHz
<b>RAM</b>	8 GB
<b>HD</b>	2 x 1000 GB
<b>RAID Level</b>	5

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### 3.2 Server Software stack

The development was tested under Windows XP SP2, Linux Ubuntu Server 64 and Linux Debian (Etch 4.0 Kernelname: 2.6.18-6-686-bigmem). Other Linuxes distribution (like SUSE or Redhat) should also works (but until now where not tested) .

The server needs following components:

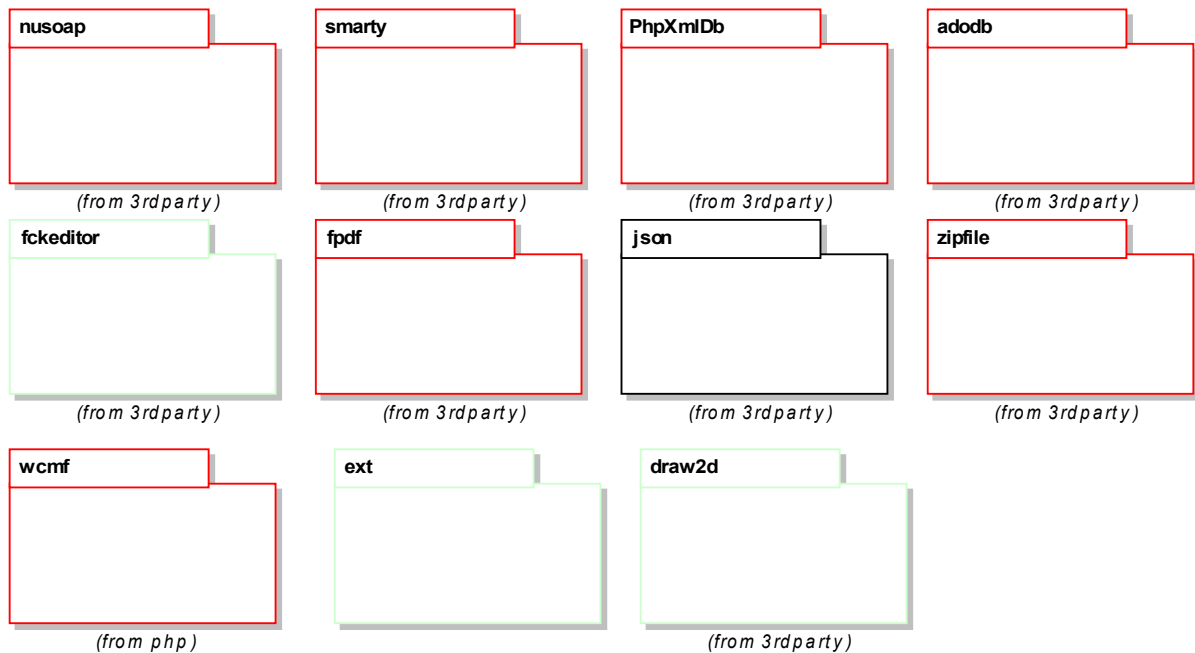
- Apache (2.2.11) [Linux]
- Apache (2.2.10) [Windows]
- MySQL (5.0.00)
- PHP (5.2.8) (with JSON library active)
- Java 1.6
- phpMyAdmin (3.1.1) [Linux]
- phpMyAdmin (3.1.0) [Windows]
- unzip

### 3.3 CWM Application Libraries

The CWM application uses the libraries depicted below:

Name: CWM 3rd party libraries  
 Package: uwm  
 Version: 1.0  
 Author: Giuseppe Platania

#### Legend



### 3.4 Client

The client need to be able to run a supported browser.

#### 3.4.1 Hardware

Minimal :

Key	Value
<b>CPU</b>	Celeron 900 MHz Class
<b>RAM</b>	752 MB
<b>Monitor</b>	15"

Suggested:

Key	Value
<b>CPU</b>	CORE2 2 GHz class

<b>RAM</b>	2 GB
<b>Monitor</b>	21"

### 3.4.2 Software

The client runs in following browsers with activated JavaScript:

- Firefox 3 or better (*Preferred*)
- Google Chrome 2

Not (yet) supported:

- 
- Opera
- IE 8



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## Installation

The installation of the CWM needs following steps:

1. Install the LAMP or WAMP stack.
2. Configure PHP.
3. Install phpMyAdmin.
4. Create the CWM database.
5. Install Java.
6. Install OpenOffice
7. Deploy the CWM package.
8. Configure the application.

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### 3.5 Install the LAMP or WAMP stack

Follows the specific installation instruction of your Operating System or distribution.

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### 3.6 Configure PHP

Configure the resource limit for PHP

find the position of your php.ini

edit php.ini as following:

```
;;;;;;;;;;
; Resource Limits ;
;;;;;;;;;;
max_execution_time = 600
max_input_time = 300
memory_limit = 256M

;;;;;;;;;;
; Fopen wrappers ;
;;;;;;;;;;
...
default_socket_timeout = 300
```

---

### 3.7 Install phpMyAdmin

Phpmyadmin is a supported package in many Linux distribution.

Under Ubuntu you can install it by using the following command:

```
sudo apt-get install phpmyadmin
```

### 3.8 Create the CWM database

- Open PHPMyAdmin
- Create a BD name “cwm”:

**Actions**

**MySQL localhost**

Create new database ?

cwm utf8\_unicode\_ci Create

MySQL connection collation: utf8\_general\_ci ?

- Create an user with name “cwm” for the new created “cwm” database

Databases SQL Status VariablesCharsetsEnginesPrivilegesProcessesExport

Import

**User overview**

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z [Show all]

	User	Host	Password	Global privileges <sup>1</sup>	Grant	
<input type="checkbox"/>	Any	%	--	USAGE	No	
<input type="checkbox"/>	Any	localhost	No	USAGE	No	
<input type="checkbox"/>	pma	localhost	No	RELOAD, SHUTDOWN, PROCESS	No	
<input type="checkbox"/>	root	127.0.0.1	No	ALL PRIVILEGES	Yes	
<input type="checkbox"/>	root	localhost	No	ALL PRIVILEGES	Yes	

Check All / Uncheck All

Add a new User

**Add a new User**

**Login Information**

User name: Use text field:

Host: Local

Password: Use text field:

Re-type:

Generate Password:

**Database for user**

☐ None

☒ Create database with same name and grant all privileges

☐ Grant all privileges on wildcard name (username\\_%)

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### 3.9 Install Java

- Check if the correct java version is installed: type in a console "java -version"
- If 1.6 is not available, install java 1.6 or better

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### 3.10 Install OpenOffice

Install the package

**openoffice.org**

the version number must be 2.0.4 or better.

- Type in a bash shell:  
`soffice -headless -accept="socket,host=localhost,port=8100;urp;" -nofirststartwizard`

Note: if you receive the error "X11 error: Can't open display:" when running the above command, then you may need to install the "headless" OpenOffice.org package from your Linux distribution. On Ubuntu/Debian, this package is called **openoffice.org-headless**.

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### 3.11 Test the access to the Metamodel

To be able to export the CWM need to dynamically read the Metamodel that in this version is under:

<http://cwm.nikostotz.de/chronos.profile.uml>

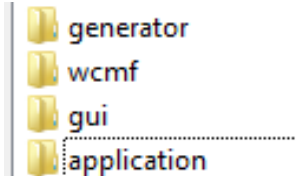
check that your server or firewall can access to this file by typing

```
wget http://cwm.nikostotz.de/chronos.profile.uml
```

---

## 3.12 Deploy the CWM package

- The CWT are provided as single zip file.
  - ◆ **NOTE Optional in case of Upgrade only**  
remove the `server.ini` file from `/cwm/application/include` before unzip the file to avoid overwrite your actual configuration.
- Unzip the package (e.g. `cwm0.9.5.zip`) in the apache http directory e.g. `/var/www` directory
- following structure is created:



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## 3.13 Configure the application

Only in case of a new installation:

- Browse to `cwm\application\include`
- Open with an editor the `server.ini` file
- Edit the section `[database]` with your DB information

```
[database]
dbType = mysql
dbHostName = localhost
dbName = cwm
dbUserName = cwm
dbPassword = cwm
```

---

## 3.14 Configure the generator

Only in case of a new installation:

- on the same file `server.ini` modify the `[generator]` section to point to the position of your `wCMFGenerator.jar`.

```
...
[generator]
executable = /var/www/cwm/wcmf_generator/wCMFGenerator.jar
```

---

## 3.15 give Apache rights to the generated folder

From the version 0.9.7 the CWM can generate a complete application.

Give the Apache all the right for:

```
/var/www/cwm/generated/
```

```
chmod 666 /var/www/cwm/generated/
```

---

## 3.16 Install the standard Models and Users

Only in case of a new installation:

- execute on the created database the provided `cwm.sql.gz`. This will install the default users and roles as well as the standard models

In case of Upgrade:

- Open Firefox 3 and browse to <http://localhost/cwm/application>
- Click on upgrade to upgrade your database

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## 4. Get started

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### 4.1 Administrate users and roles

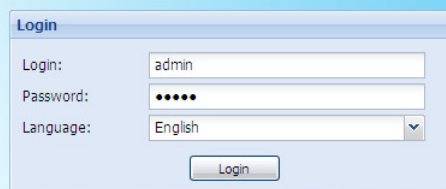
- Click on start application to start the backend application
- Use the standard user:admin with the password:admin to login
- Click on Administration to manage users and roles
- Change immediately the password for the user admin
- Create so many users and roles as necessary.

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### 4.2 Test the CWM

- Browse to <http://localhost/cwm/gui/>
- Login
- welcome to the CWM!!!

CHRONOS WEB MODELER

A screenshot of a web browser showing a login form titled "Login". The form has three input fields: "Login:" with the text "admin", "Password:" with five dots, and "Language:" with a dropdown menu showing "English". Below these fields is a "Login" button.

## 4.3 Test the CWB

- Browse to <http://localhost/cwm/Browser>
- Login
- welcome to the CWB!!!

