CONVERGENCE PEER KIT (CPK) INSTALLATION TUTORIAL

Requirements:

– Java Runtime Environment(jre) 1.5 or higher is required

Installation steps:

1) Install JBOSS Application Server (if you have already installed jboss you can skip this point):

   - download JBOSS 5.1.0 GA or JBOSS 5.1.0-jdk6, depending on your java version, at "http://sourceforge.net/projects/jboss/files/JBoss/JBoss-5.1.0.GA/" accordingly to your operating system
   - extract the jboss archive into a directory
   - set the JBOSS_HOME variable to the absolute path of the jboss installation folder
   - be sure that on your system the port "8080" is free (this is the default port that Jboss will use during its startup), otherwise the Jboss startup will fail.

2) Extract the "CPK.zip" archive, you downloaded in the Convergence web site, into a directory.

3) Open a command line, go into the directory where you extracted the CPK.zip and type "java -jar cpk.jar" to launch the "Convergence Peer Kit" installer.

4) A wizard will guide you during the installation.

5) When the installation is completed, you can find into the installation directory the scripts necessary to start and stop the demo.

6) On Windows OS you have "start_script.bat" and "stop_script.bat" executable files, respectively to start and stop the demo. In a similar way, on GNU/Linux OS you have "start_script.sh" and "stop_script.sh" executable scripts.

7) When the server fineshes its startup phase, you are able to start the demo opening a web browser and typing this address "http://localhost:8080/cpk".

CONVERGENCE PEER KIT (CPK) APPLICATION GUIDE

Convergence demo application offers people the possibility to get acquainted with Convergence world. The demo illustrates a typical Convergence scenario where some users need a simple, robust and safe mechanism to delivery and "consume" digital contents. This scenario is an extract of a real use case addressed by Convergence designers.

The figure below illustrates the "home" page of the web application, which presents a brief introduction to the CPK.
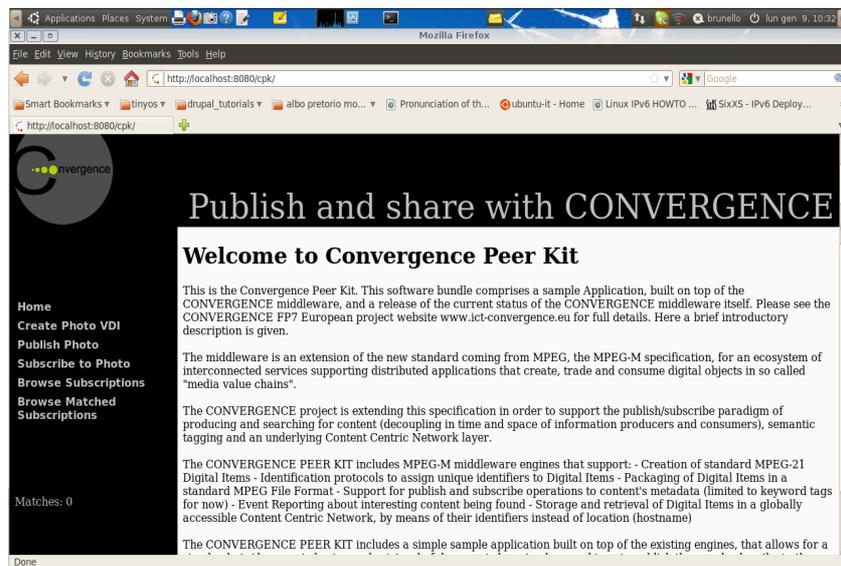
Figure 1. Convergence Peer Kit home page

Convergence demo allows users to experiment with publishing of and subscribing to photos or documents. Let's analyze how exploiting the left-side menu of the web application to share photos:

Publish walktrough:

- CPK makes possible to prepare photos (for later publish in Convergence) through "Create photo VDI" menu (figure 2), putting together the photo name, the photo path and some descriptive informations, called "tags" in Convergence.
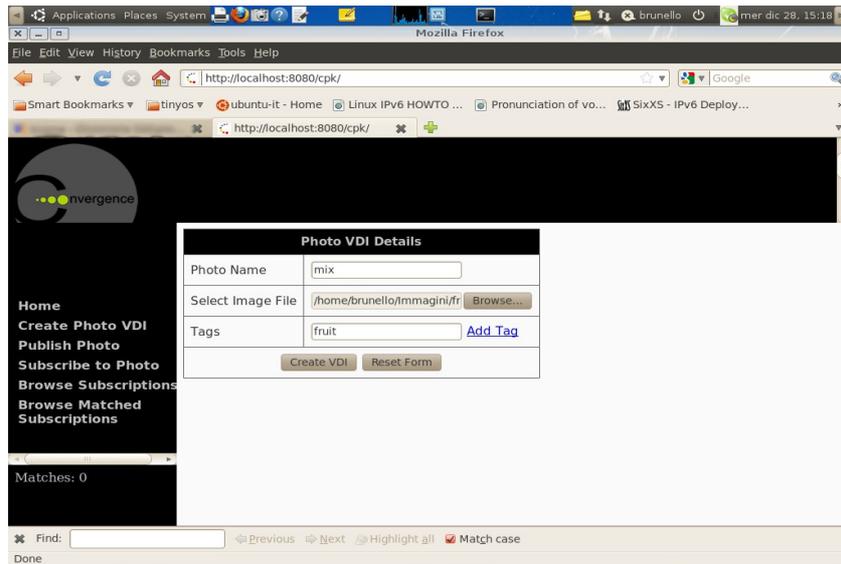
Figure 2. "Create Photo VDI" menu

- Once having created a VDI (Convergence basic unit of information), CPK allows publishing it through the "Publish Photo" menu (figure 3). This menu lists all contents prepared by the user and their state publish/unpublish. Just clicking one item, that is unpublished, to publish it.
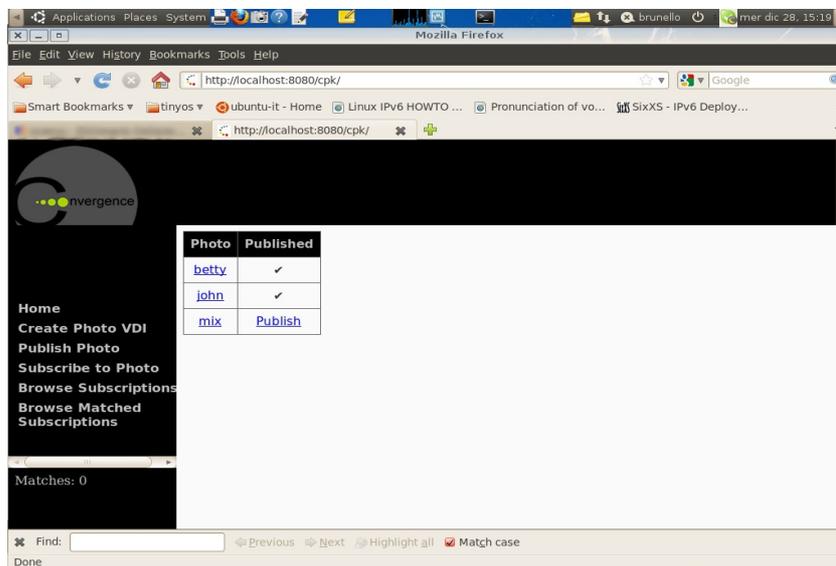
Figure 3. "Publish Photo" menu

- Once an user has decided to publish an item from the above mentioned list of its contents, CPK asks to him an "expiry date", i.e. the publication lifetime, for publishing the selected item under the area of interest defined by previous specified "tags".

Subscribe walkthrough:

- CPK offers the "Subscribe to Photo" menu (figure 4) to search for some photos in Convergence. A subscription is composed by a name, an area of interest and a lifetime.
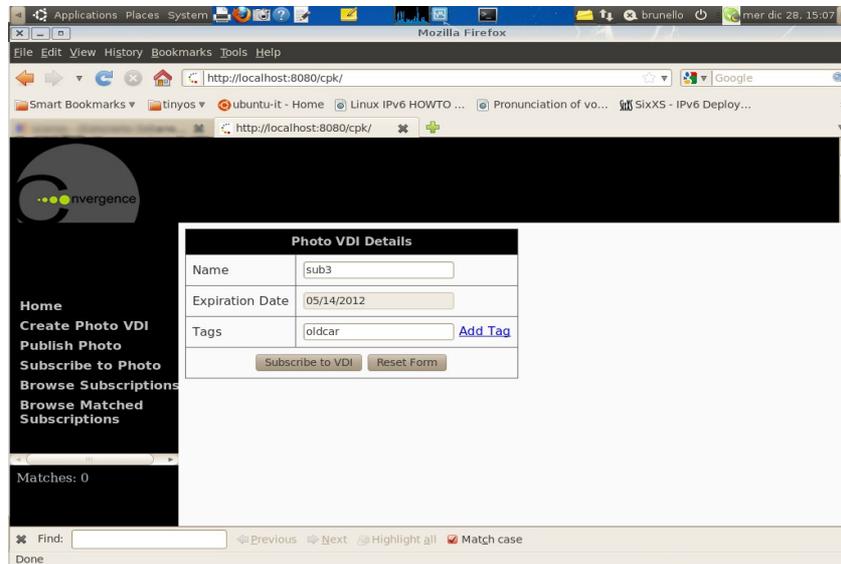
Figure 4. "Subscribe to Photo" menu

- "Browse Subscriptions" (figure 5) and "Browse matched subscriptions" menus allows respectively looking through the whole own subscription list or looking through just the subscriptions that received some matches. Both menu have a similar structure, they are composed by a list of subscriptions. By clicking one subscription in the list, CPK shows its detail and the received matched objects.
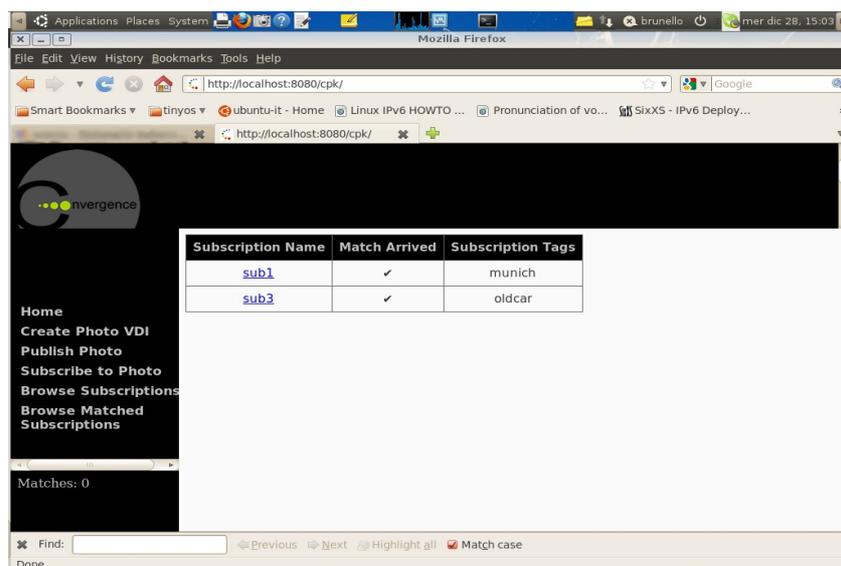
Figure 5. "Browse Subscriptions" menu

- CPK constantly notifies of the received matches, thanks to a real-time updated counter that is located at the bottom left of each web application page.
- Figure 6 illustrates the exploration of a matched subscription.
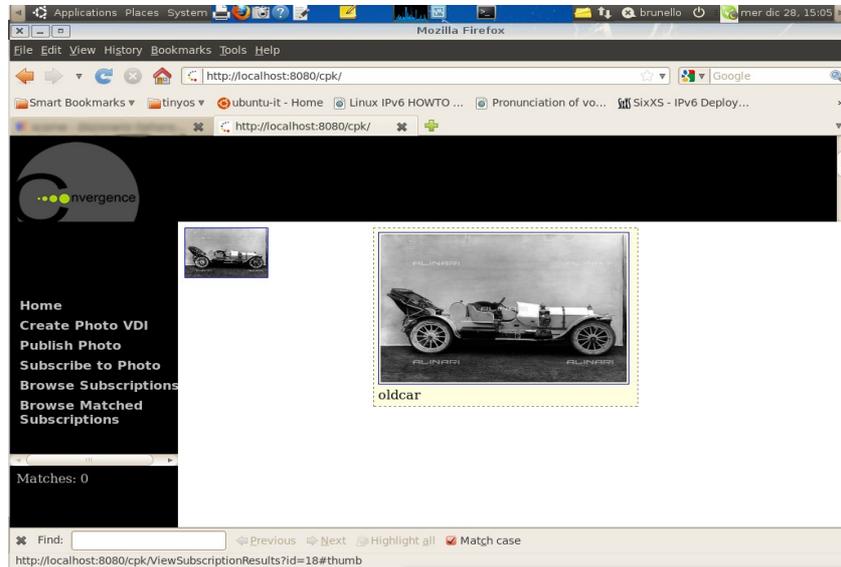
Figure 6. Look at a matched subscription

Advertisements:

The application was thought to give people a short insight in the Convergence world. This is not a stable and ultimate application that is distributed to daily use Convergence. You should use this application to have a "one-shot experience". Convergence is currenlty under development and may be in future some more stable, powerful and long-lasting application will be released to exploit the Convergence functionalities.

Beware; once you've either stopped your application server or cleaned your temp directory, you have to reinstall the application to join the demo again.

If you would like to delve into the Convergence project, you may click the following link: http://www.ict-convergence.eu/.