Component Framework

How to create a new Component...

Requirements:

- Eclipse Equinox can be downloaded at http://download.eclipse.org/equinox/
- SVN-Plug-in for Eclipse use the following update-site: http://download.eclipse.org/technology/subversive/0.7/update-site/
- SVN Connectors for Eclipse Ganymede or Galileo:
 Galileo: http://community.polarion.com/projects/subversive/download/eclipse/2.0/galileo-site/
 Ganymede:
 - http://community.polarion.com/projects/subversive/download/eclipse/2.0/ganymede-site/
- Plug-ins for the new component wizard can be acquired from the wiki at http://qe-informatik.uibk.ac.at/trac/cheetah

Creating a new component:

- → Check out the following bundles from SVN:
 - o "at.component"
 - o "at.component.group"
 - o "at.component.util.manager"
 - o "at.component.util.services"
- → Open the "Java" or "Plug-in Development" Perspective
- → Click on the "New" button and select "Component" within the "OSGi Components" folder.
- → Enter a project name, choose a meaningful component name (this name is displayed on the user interface), choose the OSGi Framework (Equinox is preferred) and the execution environment (JavaSE-1.6)
- → Click "Finish"
- → A plug-in with the given project name is created. This plug-in includes some classes from scratch, where only the ComponentUiController has to be edited.
- → Open the ComponentUiController class, hop into the Constructor and create a new UIClass, which takes the given composite as parameter.
- → Open the Manifest.MF-file, go to the Dependencies-Tab, click the "Add"-Button under "Required Plug-ins" and add the org.eclipse.swt-plug-in.
- → Go to the UIClass and set the layout (org.eclipse.swt.layout. GridLayout) as well as the layoutdata (org.eclipse.swt.layout.GridData) of the given composite. Finally you create a Label with the given composite as parent and set the text ("Hello World")
- → Your first component is finished

Launching the Framework:

- → Go to the "at.component.util.manager" plug-in folder and open the "OSGi Component.product" file
- → Add your newly created plug-in to the "Dependencies"
- → Add your newly created plug-in to the "Configuration"
- → Go to the "Overview"-Tab and "Launch an Eclipse application"