

SAKAI integration manual for the Sferyx JSyndrome HTML Editor Applet Edition



1. Can the Sferyx HTML Editor Applet Edition and the Sferyx Equation Editor be integrated into the entire SAKAI system?

Yes, both editors are fully integrated - there is a special Sferyx JSyndrome HTML Editor Applet+EquationEditor bundle and the major part of the Sakai users are this product. We have created it upon request from the Sakai community and it integrates seamlessly with the system - this way out of the box there are both advanced HTML and Equation editing capabilities for the entire system. The Sferyx JSyndrome HTML Editor Applet+EquationEditor is already integrated with the [Melete Lesson Builder](#) out of the box, and this manual explains integration into the entire SAKAI system and all its modules. We have also provided the new Flow toolbar layout especially to be able to accommodate the editor into all small form spaces inside the SAKAI modules.

The installation is very simple and does not require even a single line of code on your side and consists of simply replacing the FCKEditor files with the ones here provided into the "InstantSferyx for Sakai" integration package. In order to proceed with the installation follow the steps below:

2. How can I integrate the editor into the SAKAI system?

The installation is very simple and does not require even a single line of code on your side and consists of simply replacing the FCKEditor files with the ones here provided. Follow the steps below:

1) Note: This latest package has been tested against the 2.5.4 Sakai build, but it could be working also with previous releases. If you want to be sure it will be working out of the box simply install the latest Sakai 2.5.4 demo and use it for testing.

2) To replace the FCKEditor with the Sferyx HTML Editor Applet you will need simply to replace the editor folder into the running instance of Sakai with the files here attached,

so rename

the existing "sakai-install/webapps/library/editor/FCKeditor" to "sakai-install/webapps/library/editor/FCKeditor-original" or something similar in order to keep the original files.

where "sakai-install" - is the root Sakai installation folder.

Now, create new FCKeditor folder on the same place and unzip the attached files there so it becomes

"sakai-install/webapps/library/editor/FCKeditor/HTML Editor Applet Pro.jar"
"sakai-install/webapps/library/editor/FCKeditor/fckeditor.js"
"sakai-install/webapps/library/editor/FCKeditor/sakai_fckconfig.js"

That's all - there is even no need to restart the Sakai instance - simply make sure to reload the page shown in your browser and the iframes inside as it may be showing a cached copy.

3. How to configure the file uploads for the Sferyx JSyndrome HTML Editor Applet Edition within the SAKAI system?

Note on the file Uploads:

There is only one note to observe - everything will be working as expected including the file uploads from inside the editor- the only limitation currently is that the original Sakai `org.sakaiproject.connector.fck.FCKConnector` accepts only one file at a time as this is the capability of the FCKEditor itself, while the Sferyx HTML Editor Applet does not have limitations on the number of the uploaded files and can upload anything, simply currently only one file will be written down by the FCKConnector although all of them are actually received by the server. This can be easily changed by simply modifying the FCKConnector to accept multiple files and it is ready or install and use the Sferyx's `SferyxUploadConnector`. No need to modify or configure the Sferyx HTML Editor Applet further.

To install the `SferyxUploadConnector` you will need to copy the class file into your Sakai installation at the following location:

```
"sakai-install/webapps/sakai-fck-connector/WEB-INF/classes/org/sakaiproject/connector/sferyx/SferyxUploadConnector.class"
```

where "sakai-install" - is the root Sakai installation folder.

The full classname of the connector is `org.sakaiproject.connector.sferyx.SferyxUploadConnector` and you will need to modify the `web.xml` file in order to add the servlet entry for the `SferyxUploadConnector`. The file in question is:

```
"sakai-install/webapps/sakai-fck-connector/WEB-INF/web.xml"
```

You need to add (simply copy&paste) the following lines to it:

```
<filter-mapping>
<filter-name>sakai.request</filter-name>
<servlet-name>SferyxUploadConnector</servlet-name>
<dispatcher>REQUEST</dispatcher>
<dispatcher>FORWARD</dispatcher>
<dispatcher>INCLUDE</dispatcher>
</filter-mapping>

<servlet>
<servlet-name>SferyxUploadConnector</servlet-name>
<servlet-class>org.sakaiproject.connector.sferyx.SferyxUploadConnector</servlet-class>
<load-on-startup>1</load-on-startup>
</servlet>

<servlet-mapping>
<servlet-name>SferyxUploadConnector</servlet-name>
<url-pattern>/SferyxUpload/*</url-pattern>
</servlet-mapping>
```

After doing this you are ready and you will need either to reload the `/sakai-fck-connector` application from the Tomcat manager or to restart the Sakai instance.

4. How to enable the Sferyx JSyndrome HTML Editor Applet within the Melete Lesson Builder for SAKAI?

The [Melete Lesson Builder](#) comes already with integration package for Sferyx by default, you can enable it directly from the user preferences menu. There is no need to do anything else, it will work out of the box.

5. What advantages could bring the integration of the Sferyx HTML Editor Applet, Equation Editor and PDFExport into the SAKAI system?

In first place this way out of the box there are delivered both advanced HTML and Equation editing capabilities for the entire system combined with instant PDF generation capability. Furthermore, the Sferyx HTML Editor is capable of publishing many files simultaneously which is very useful when for example is pasted a Word document which contains many images and other external linked files. This way only by submitting the form everything is sent to the server and the entire document is published within seconds without the need the user uploads all files separately, renaming them and linking them back to the document. All this is done automatically by Sferyx, also it is capable of generating unique image filenames in order to avoid name collisions. This saves a lot of work both for the users and the developers and gets the work done within seconds and if you add to the whole this thing also the PDFExport it can generate on-the-fly PDF files from the documents and publish them together with the HTML to the server.

Sferyx HTML Editor Applet Edition + Equation Editor running inside a SAKAI instance:

The screenshot shows a SAKAI workspace interface. At the top, there's a navigation bar with 'My Workspace' and several discussion tabs. A left sidebar contains various user options like Home, Profile, Membership, etc. The main content area is titled 'Resources' and shows an 'Edit HTML Page alert' window. This window contains a rich text editor with a toolbar and a preview of a news article. The article title is 'Finally, an Average Black Hole' by Phil Berardelli, published on 1 July 2009. The text describes the discovery of a middleweight black hole. A 'Continue' button is visible at the bottom of the alert window. The footer of the page reads 'Powered by Sakai'.

Sferyx HTML Editor Applet Edition + Equation Editor running inside a SAKAI instance:



The screenshot displays a Sakai workspace interface. At the top, there are navigation tabs for 'My Workspace', 'Discussion 1 SMPL101 Spring 2009', 'Discussion 2 SMPL101 Spring 2009', and 'Discussion 5 SMPL202 Spring 2009'. On the left, a sidebar contains various user options like Home, Profile, Membership, Schedule, Resources, Announcements, Worksite Setup, Preferences, Account, and Help. The main content area is titled 'Edit HTML Page alert('Revise HTML'):' and shows a rich text editor with a toolbar. Overlaid on this is the 'Equation Editor' applet, which has its own toolbar and a menu. The menu is open, showing options like Copy, Cut, Paste, Undo, Redo, Layout, Accents, Fences, Trigonometry, Calculus, Matrices & Vectors, Arrows, Operators, Relations, Theory, and Logic. The 'Layout' submenu is also open, listing options such as subscript, superscript, sub and superscript, underscript, overscript, under and overscript, fraction, square root, and root. The equation editor's main window contains the text 'x+y=z'. At the bottom of the page, it says 'Powered by Sakai'.

Our Services and assistance

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