

## **eCDF 423 Interoperability Expert Review – July 2006**

### **Prepared by:**

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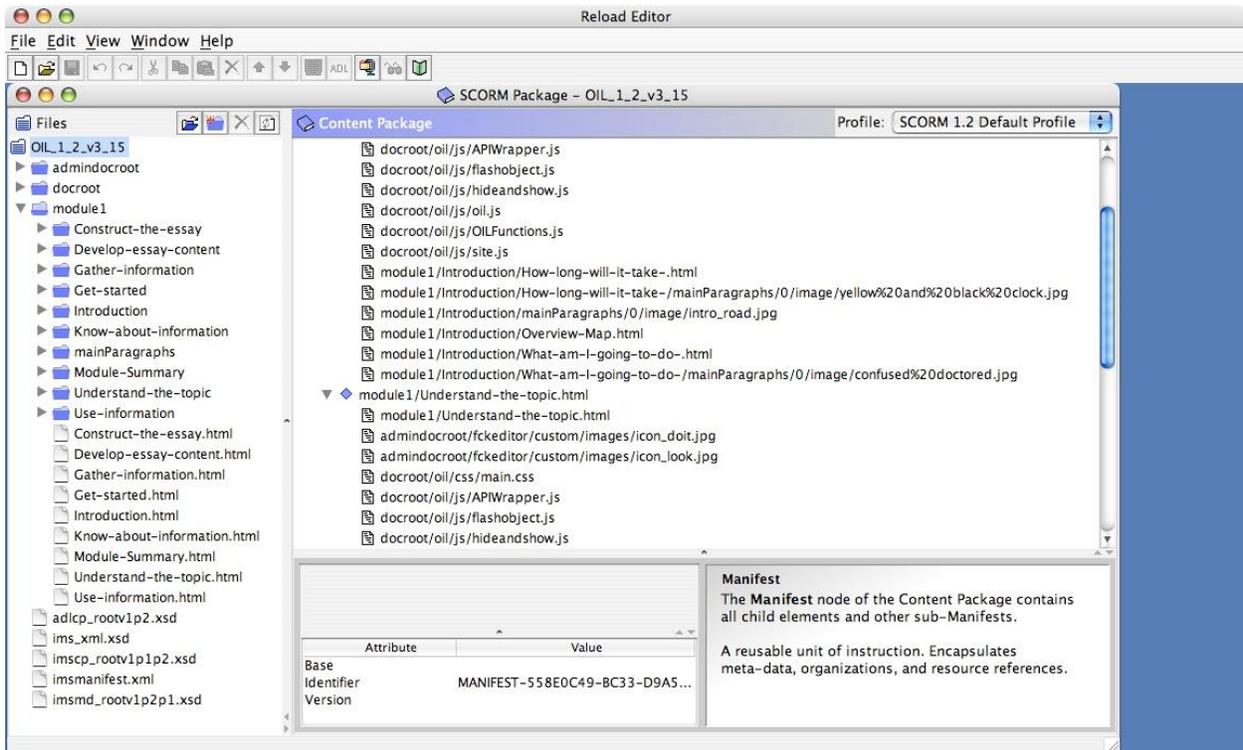
## A5 - Questions to Guide Expert Review by Interoperability/SCORM Experts

Please use the following questions as a guide, when you examine the module(s). The SCORM goals of Reusability, Interoperability, Durability, and Accessibility are incorporated in the following questions:

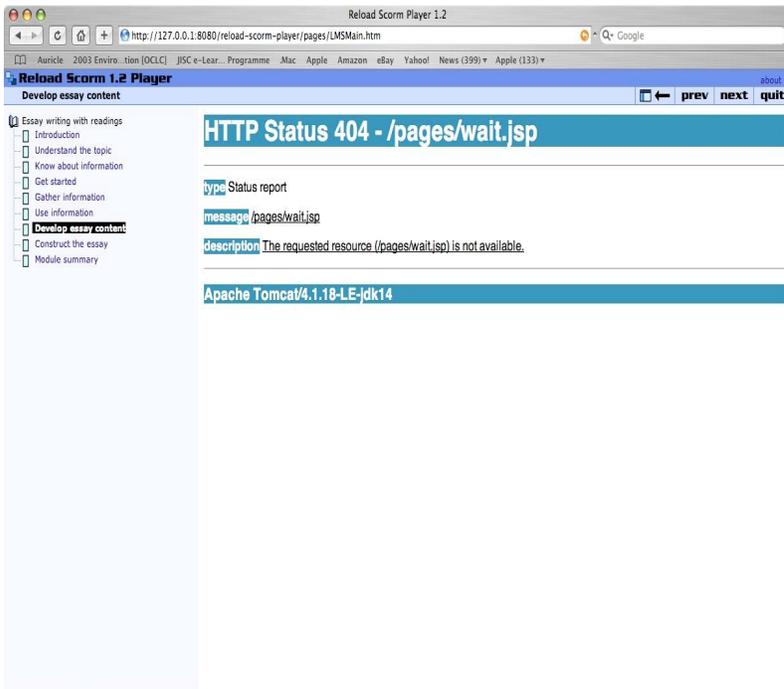
In your expert opinion, does the module have features which enable it to be:		
○ Called a SCO (sharable content object)?	Yes <input type="checkbox"/>	Comment: It appears to be a well formed SCORM package and fits all the conventional definitions of a SCO.
○ Broken into two or more SCOs?	Yes <input type="checkbox"/>	Comment: The package breaks down into nine separate SCOs which are the different sections of the module.
<b><i>If Yes to these first two questions:</i></b> Can the SCOs be linked by a SCORM manifest file and used within different LMSs?	Yes <input type="checkbox"/>	Comment: Yes, the SCOs are contained within an IMS Content Package containing an IMS Manifest file which links the individual SCOs within an organization which can be read by compliant LMSs.
Please continue - does the module have features which enable it to be:		
○ Easily modified and used in different ways – customisable and reusable?	Yes <input type="checkbox"/>	<p>Comment: As the course has been created following the principles of reusability, interoperability, durability and accessibility all the discrete parts of each resources (images, simulations etc) are available within the overall SCORM package allowing those with the relevant tools and skills to adapt them for them own purposes. (See screen shot 1.)</p> <p>By using a tool such as the <a href="#">RELOAD</a> editor it is possible to add additional material to the course to further customize it. RELOAD also affords users the ability to re-order the SCOs and any additional content one may wish to add, allowing for another level of customization. So, for example, if you wanted to begin with the section 'Know about essay content' you could move it's position within the</p>

		organization.
<p>o Operated effectively across a wide variety of hardware, operating systems and browsers?</p>	<p>Yes ✓ <input type="checkbox"/></p>	<p>Comment: Qualified yes to this question. I tested the package on two players SCORM 1.2 Players (RELOAD and Icoden) . The package opened in both systems and I was able to access all the resource files etc. However when ‘played’ the package, there were a couple of instances of material not being found – particularly in RELOAD (see screen shots 2 &amp; 3). The “Develop essay content” and “Know about information” sections seemed particularly prone to this. However I tried the package on several occasions and they did play sometimes. I was therefore unable to deduce if this was a runtime error and not an error with the SCO itself. I suspect the former. Unfortunately I was unable to test it on any other systems.</p> <p>I didn’t test the packages SCORM 2004 players, mainly due to the lack of access to such a player and also the fact that the material was created as a SCORM 1.2 package. The stability and availability of SCORM 2004 players has been considered by the project team, and I would concur with their decision to produce SCORM 1.2 packages.</p>
<p>o Used effectively when software versions change?</p>	<p>Yes ✓ <input type="checkbox"/></p>	<p>Comment: Again qualified yes on this. I was able to test the package on OSX and Windows XP and the package worked on both systems. Adobe and Flash do provide backwards compatibility so I can see no reason why features using those software applications should become problematic when updated versions are released. As with any piece of web based content, regular audits for this type of quality control and content relevance should be part of the development life cycle.</p>

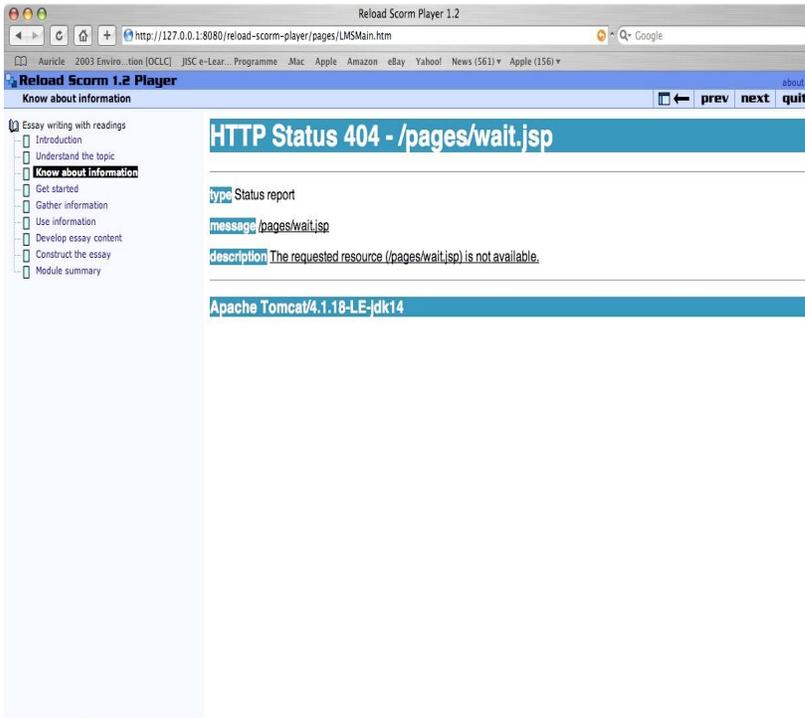
<p>○ Indexed according to a recognised system of metadata so it can be easily located?</p>	<p>Yes <input checked="" type="checkbox"/></p>	<p>Comment: Basic SCORM 1.2 schema provided which was easily accessible from the manifest file.</p>
<p>Comments: Overall I would say that this module adhered very well to the SCORM principles of re-usability, interoperability, durability, and accessibility.</p> <p>In terms of the content schedule. It is possible in some systems to switch this function off (see screen shot 4 &amp; 5 of RELOAD player). An alternative organisation could be added which provides self navigating and doesn't use the navigation system of a LMS. However, this could provide problematic if more alternative pathways were being offered. The reviewer agrees that page numbering would be helpful. Each unit could be given a section number too to again help with navigation of the content schedule. But again, if alternative pathways were introduced this could lead to confusion as described above.</p> <p>In terms of interoperability the package functioned well over two systems.</p>		



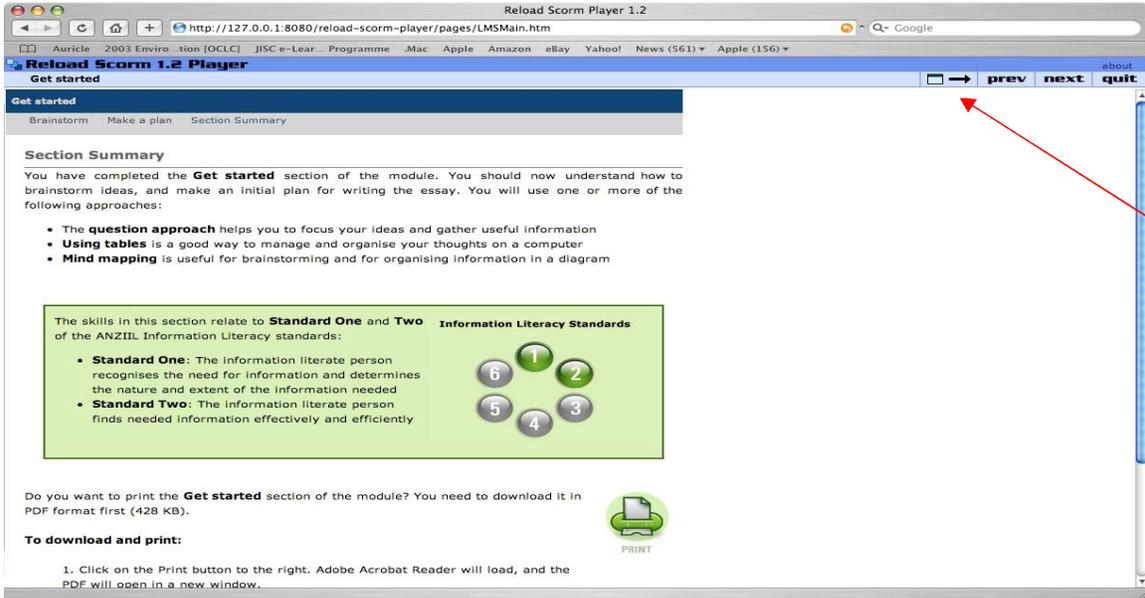
Screen shot 1 – RELOAD Editor showing resources for OIL



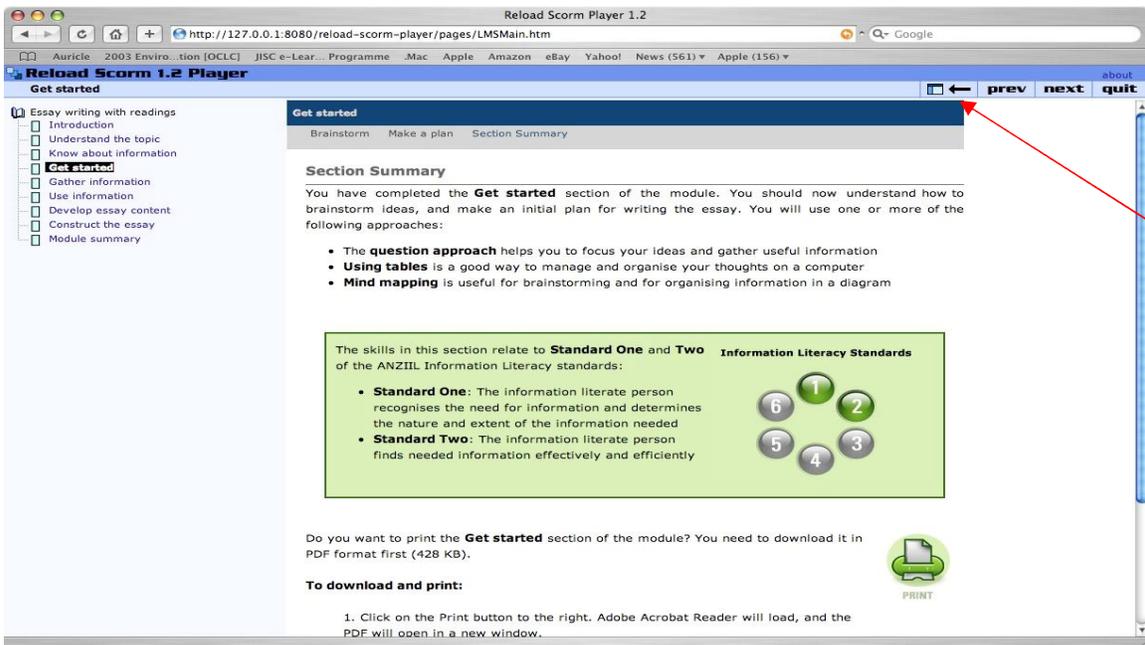
Screen shot 2 – error message from RELOAD SCORM player



Screen shot 3 – error message from RELOAD SCORM player



Screen shot 4 – view with out content schedule (RELOAD)



Screen shot 5 – view with content schedule (RELOAD)