

# TOOLBOOK 11

## Using ToolBook Content in an LMS • Cheat Sheet

### GENERAL

ToolBook utilizes SCORM 1.2/2004 or AICC to communicate with any Learning Management System that supports these standards.

#### ENABLING LMS COMMUNICATION

Configuring a ToolBook DHTML lesson to properly communicate with an AICC or SCORM compliant LMS involves the following steps:

1. Add question objects.
2. Add appropriate exit buttons.
3. Publish your lesson to DHTML and choose an appropriate SCORM or AICC "Package for" option.

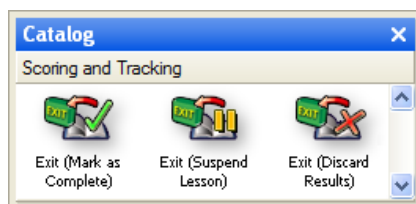
#### APPROPRIATE EXIT OPTIONS

When dealing with a ToolBook lesson which has been launched from an LMS, it is important to consider the different possible ways to allow the ToolBook lesson to be exited.

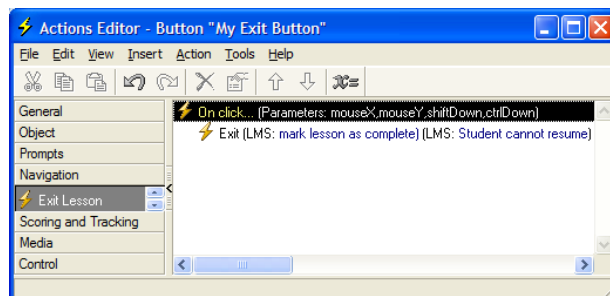
Each of these ways has an effect on the data that is reported back to the LMS.

- **Exit—Mark As Complete**  
This tells the LMS that the lesson is completed.
- **Exit—Suspend Lesson**  
This tells the LMS that the lesson is not yet complete and that the lesson will be suspended until a later time when the learner can re-launch and continue with the lesson.
- **Exit—Discard Results**  
This effectively tells the LMS to ignore the most recent launch of the lesson. No data about the most recent launch will be communicated to the LMS.
- **Using the "X" button on the Browser Window**  
The default behavior for this non-standard way of exiting a lesson, is for ToolBook to perform an Exit—Suspend Lesson. To change this behavior, see the following article:  
<http://www.toolbook.com/kb/P758>

In the **Scoring and Tracking** category of the Catalog you will find three exit buttons which offer the standard functionality listed above.



If you are interested in programmatically adding an exit command to an existing object in your lesson, you can do so by using the Exit Lesson action within the Navigation section of the Actions Editor.



Typical settings would be **Mark Lesson As Complete | Student Cannot Resume** or **Suspend Lesson | Student Can Resume**.

### RELAUNCHING A LESSON

#### RESUMING A SUSPENDED LESSON

Resuming is a term used to describe relaunching a lesson which was previously exited using the Exit—Suspend Lesson feature. The idea is that the suspended lesson can be further worked on, at a later time.

- When a suspended lesson is relaunched, the learner is automatically returned to the same page they last exited from—referred to as the bookmark location.
- The learner will notice that any questions previously answered will still appear answered.

#### REVIEW MODE

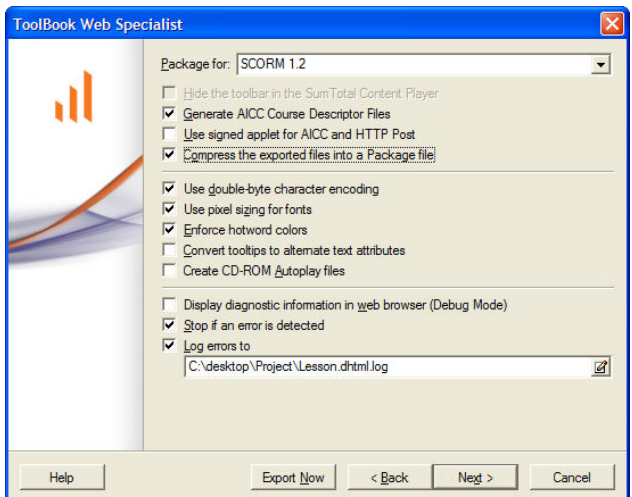
Review mode is a term typically used to describe relaunching a lesson which was previously exited using the Exit—Mark As Complete feature. The idea is that a learner may want to review what they did within a lesson.

- When a completed lesson is relaunched in a review mode, the learner is automatically returned to page 1 of the lesson.
- The learner will notice that any questions previously answered will still appear answered.
- Not all LMSs support the ability to relaunch a completed lesson, and even those that do may not support launching the lesson in an official Review mode. Check with your LMS vendor.

### PACKAGE FILE

Most LMSs which support AICC/SCORM content will want the content to be uploaded as a Package file. This package file is simply the exported files created by ToolBook, all wrapped up into a single ZIP file. The idea behind this is that it is much easier to upload into your LMS a single file representing your lesson than to try to upload a folder full of files.

ToolBook can create this Package file for you. Simply enable the Web Export option entitled: **Compress the exported files into a Package file**



Once this export process is complete, the Web Export Specialist will tell you where to locate the ZIP file which was created for you.

The process for getting this ZIP file into your LMS will differ depending on which LMS you are using, though most LMSs will have an upload mechanism that you can use to import the lesson into your LMS. Contact your LMS vendor for specific instructions on this process.

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### DATA COMMUNICATED TO THE LMS

The ToolBook lesson will communicate to the LMS all relevant scoring and question related data. This is all completely automatic and there is nothing for you to configure or adjust to make this happen. In fact you have no control over what data ToolBook automatically sends to the LMS. ToolBook will take care of all of this standard AICC/SCORM LMS communication for you.

All LMSs are different and don't all offer identical abilities. For example some LMSs are not interested in storing **Interaction Data** (detailed breakdown of how each question was answered). ToolBook sends this data nonetheless, and leaves it up to the LMS to store it if it decides to.

### QUESTION NAMES

Those of you who use an LMS which will store Interaction Data may have reporting abilities within the LMS to summarize trends on question responses. Looking at this data, it may not be clear which question is which.

The SCORM/AICC standards require that a string identifier be used to denote which question is which within the Interaction Data returned to the LMS. Below is an example of how a generic Multiple Choice question may look in your LMS, as reported from ToolBook:

#### Multiple\_Choice\_P13\_6

What this means is:

*A question named "Multiple Choice" located on page id number 13 with an object id number of 6.*

By default a new Multiple Choice question object in ToolBook has the name of "Multiple Choice", which is why **Multiple\_Choice** exists in the example above. Since you have control over the name of the Question object, it is advised that you change it to something more meaningful such as "The 3 most profitable states".

With this name in place the Interaction Data would have been reported to the LMS as:

#### The\_3\_most\_profitable\_states\_P13\_6

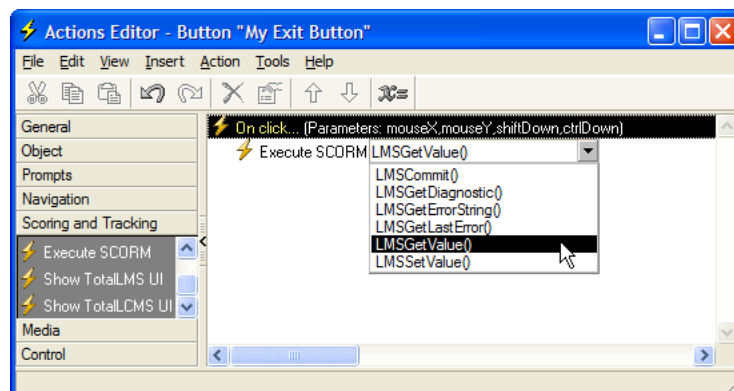
This will allow you to clearly identify which question the response data is for within your LMS reports.

### MAKING YOUR OWN SCORM CALLS

Although ToolBook manages all of the standard SCORM communication between the lesson and the LMS, there may be times when you will want to issue your own SCORM command to perhaps fetch some extra data from the LMS for your own programmatic use. For this purpose, ToolBook offers the Execute SCORM command within the Actions Editor.

This feature is a very advanced feature, in that you must know what you are doing in order to know what SCORM commands to use, when to use them, and most importantly how to properly use them. Learn more about SCORM at <http://www.adlnet.org>.

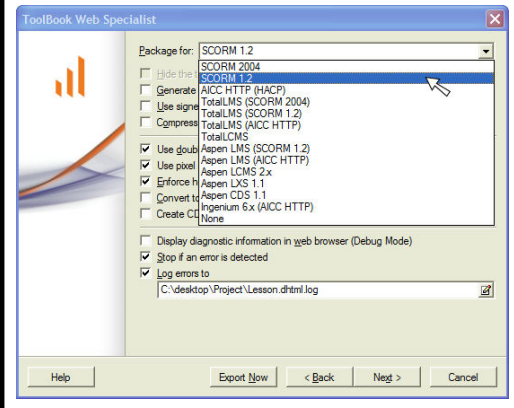
- There is no equivalent AICC feature offered in ToolBook.
- Any SCORM commands you make will not have any effect on the standard SCORM communication that ToolBook manages with the LMS.



### CHOOSING LMS TYPE

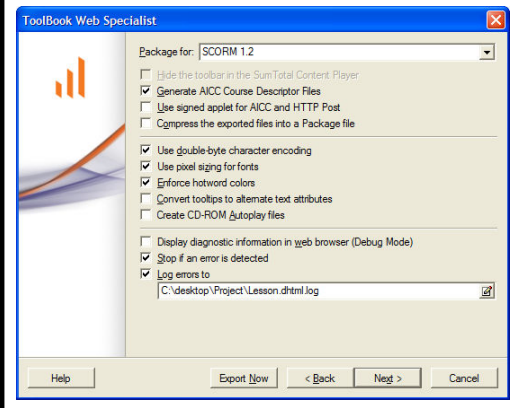
When publishing your lesson to DHTML you'll need to specify if you want to use AICC support, SCORM support or none. The **Package For** option lists a variety of SumTotal owned LMSs, and a few generic options.

If you are using a SumTotal LMS product, choose that product from the list, otherwise choose a generic SCORM or AICC option.



### AICC CDF FILES

Some LMSs may require extra AICC Course Descriptor Files (CDF) to accompany the DHTML exported lesson in order to properly track your AICC content in the LMS. If this is the case, you can have the Publish to Web process create these extra CDF files for you. Simply enable the Web Export option entitled: **Generate AICC Course Descriptor Files**



### MULTIPLE BOOKS

When creating a lesson in ToolBook for use in AICC or SCORM, ensure that you do not split your lesson into separate ToolBook files (.TBK files) and cross link them together. The content for a single lesson should remain in a single ToolBook file.

Trying to navigation between books like this has the effect of breaking the communication link which is created between the LMS and the lesson when the lesson first launches.