Distributed Learning - Diagnostic, Advisement, and Technical Research (DL DART) Support Services

ALMS Bookmarking

Content Issue Report

Provided for

The Army Distributed Learning Program

(TCM TADLP)



03 February 2015

**Version History**

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| --- | --- | --- |
| **Version** | **Revision Date** | **Description** |
| 1.0 | 03 February 2015 | Initial release |

# Introduction

This document discusses a Sharable Content Object Reference Model (SCORM)-related bookmarking issue in courseware on the Army Learning Management System (ALMS) during January 2015. The nature and cause of the issue are explained along with the solution recommendation.

# Issue Summary

The issue affecting course content not bookmarking when the browser exit button, red “X”, was used to close the course. Diagnosis of the issue showed the cause rooted in a function in the JavaScript file, *scorm\_2004\_init.js*. The function named *chkCloz2* is called when the course is closed using the browser exit button, and sets final SCORM values prior to the window closing. Additionally, the *chkCloz2* function is based on a similar function, *chkCloz1*, which is called when the User Interface (UI) exit button within the course content is used to exit the course. The *chkCloz2* function was not setting a *cmi.exit* value that allowed the content to bookmark progress. Table 1 shows the *chkCloz2* function within *scorm\_2004\_init.js*, and the modifications required to enable bookmarking.

**Table 1**

**Changes for bookmarking in *scorm\_2004\_init.js***

|  |  |
| --- | --- |
| ***chkCloz2* function in *scorm\_2004\_init.js* (No Bookmarking)** | ***chkCloz2* function in *scorm\_2004\_init.js* (Bookmarking)** |
| function chkCloz2(){ if(CMI[9]!=1){ doSetValue( "cmi.exit", "" ); CMI[9] = 1; setSCOFinalValues(); }} | function chkCloz2(){ if(CMI[9]!=1){ doSetValue( "cmi.exit", "suspend" ); CMI[9] = 1; setSCOFinalValues(); }} |

The code shown in the table is used by course content to set SCORM values, such as *cmi.exit* denoting how the user exited the course and instructs the ALMS to retain attempt data. A blank value for *cmi.exit* will contribute to the ALMS beginning a new attempt on content when it is re-launched after being exited, as would a value of “normal”. In contrast, a *cmi.exit* value of “suspend” instructs the ALMS to resume a previously exited attempt upon entry, thus allowing bookmarked progress data to be used by the content.

# Recommended Solution

The DL DART Team recommended modification to the *scorm\_2004\_init.js* file in each affected SCORM Content Package to remedy the bookmarking issues the course content exhibited.