

A decorative orange circle is positioned on the left side of the slide, partially overlapping a horizontal bar. The bar has a dark green left section and a light green right section. A grey bracket is on the left side of the bar, and a cyan bracket is on the right side. The title text is centered within the bar.

The Experiment Result of Japan

Jan.30, 2004

Advanced Learning Infrastructure Consortium/
e-Learning Consortium Japan/

Table of Japanese experiment result 1/4

Name of Product	Name of Product	Error Detect Test Suite				Phenomenon	Cause	Detect SCORM Standard Violation of the Product	Detection of Test Suite problems	Unclear Reason, and others	No Problem	Explaining Sample No
		LMS	SCO	Meta Data	Contents							
LMS	Typical WBT					The value can not be captured with LMS Get Value	Violates SCORM standard of LMS					2_1
						Can not practice test of SCO after #05	Violates SCORM standard of LMS					2_2
						Error occurred at the line of setAPIConformance	Predicted as a bug of contents for LMS test					2_3
						SCORM adopting level of LMS is not indicated	Violates SCORM standard of LMS					2_4

Table of Japanese experiment result 2/4

Name of Product	Name of Product	Error Detect Test Suite				Phenomenon	Cause	Detect SCORM Standard Violation of the Product	Detection of Test Suite	Unclear Reason, and	No Problem	Explaining Sample No
		LMS	SCO	Meta Data	Conte							
LMS	Product of Company A					Contents 1 for LMS test can not be registered	Violates SCORM standard of LMS					2_5
						Stops in the middle of test.. It operates when JAVA runtime is set at Ver. 1.4.4, however judgment after the completion of test indicates it does not conform SCORM	The cause is unknown though it assumed to be a problem of the JAVA runtime ver. (It operates with only ver. that ADL does not supports)					2_6

Table of Japanese experiment result 3/4

Name of Product	Name of Product	Error Detect Test Suite				Phenomenon	Cause	Detect SCORM Standard Violation of the Product	Detection of Test Suite problems	Unclear Reason, and others	No Problem	Explaining Sample No
		LMS	SCO	Meta Data	Contents							
Contents	Product of Company B					Multi-byte transfer transaction ends up irregularly	Lack of specification examination of multilingualizing module					2_7
						Contents package transfer transaction ends up irregularly	Violates SCORM standard of LMS					2_8

Summary of Japanese Experiment Result 1/2

Conclusion:

2 with multilingualizing module, and 4 with Test Suite SCORM standard validations were taken out as result of tests with 2 LMS products, and 3 contents products. These facts explains multilingualized ADL Test Suite is effective as testing tool of SCORM conformation.

Category of Result				Explanation	Correspondence etc.
Detection of SCORM standard violation of the product	6	Multilingualizing Module	2	Detection of tag name against SCORM standard validation	Examination of revising for the product
				Detection of multi-byte use with multi-byte un-conforming SCO data model	
	Test Suite	4		Detection of LMS run time SCORM standard validation The fact LMSGetValue (value acquisition order) unable to obtain value caused error	
				Detection of SCORM standard validation of LMS passing or failing judging rule	
				SCORM standard violated LMS conforming test is unable to perform until the end and SCORM conforming level does not get indicated.	
				Detection of SCORM standard violation related to LMS file name. The model of LMS can not register when there is a space in the contents file name.	

Summary of Japanese Experiment Result 2/2

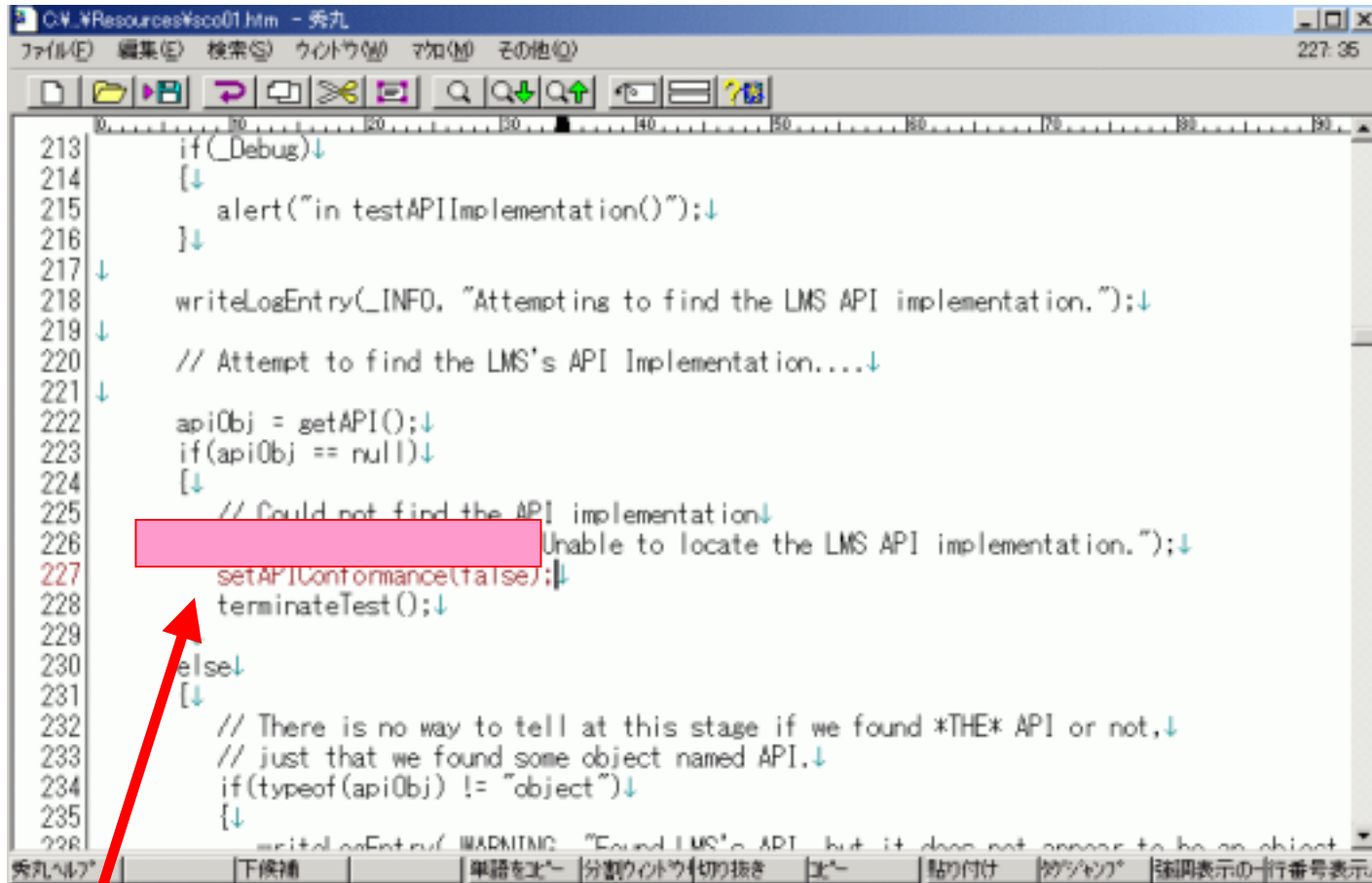
Category of Result				Explanation	Correspondence etc.
Detection of test suite assignment	2	Multilingualizing Module	1	Translation transaction was interrupted when multi-byte was used at out of multi-byte application because of model examination lack of multilingualizing module.	Revising of multilingualizing module
		Test Suite	1	Variable that is not defined was described with LMS test contents and error was happening.	Examination of revising test suite
Unclear Reason, and others	1	Test Suite	1	LMS does not operate unless it is Ver. 1.4.1 that is out of JAVA run time version ADL Test Suite operation guarantee. It operates with Ver1.4.1 but resulted as SCORM standard validation after LMS conforming test. The reason is unclear since it uses JAVA runtime not operation guaranteed	Examination of the latest version of test suite JAVA run time
No problem	1	Multilingualizing Module	1	The error of numbers of letter at contents title occurs when meta data conforming test is practiced without transferring multi-byte of meta data.	

Explaining Sample 2_1

```
SCORM Conformance Test Suite LMS RTE Test Log - Microsoft Internet Explorer
ファイル(F) 編集(E) 表示(V) お気に入り(A) ツール(T) ヘルプ(H)
LMSGetValue(cmi.core._children) returned:
"lesson_status,student_id,score,time,total_time,session_time,lesson_location,student_name,les
LMSGetValue(cmi.core.student_id) returned: "1"
LMSGetValue(cmi.core.student_name) returned: ""
LMSSetValue(cmi.core.lesson_location, "end") succeeded
LMSGetValue(cmi.core.lesson_location) returned: ""
ERROR: The LMS returned a value that is different than the previously set value for
Mandatory element cmi.core.lesson_location
Expected value: "end"
LMS Returned: ""
LMSGetValue(cmi.core.credit) returned: "credit"
LMSGetValue(cmi.core.lesson_status) returned: "not attempted"
LMSGetValue(cmi.core.entry) returned: "ab-initio"
LMSGetValue(cmi.core.score._children) returned: "max,raw,min"
LMSSetValue(cmi.core.score.raw, "0") succeeded
LMSGetValue(cmi.core.score.raw) returned: "0"
```

LMSGetValue is not obtained though LMSSetValue is set at 1 line before.
It is LMS SCORM standard validation since the regulation with SCORM standard
is set to be able to obtain GetValue right after Set Value.

Explaining Sample 2_3

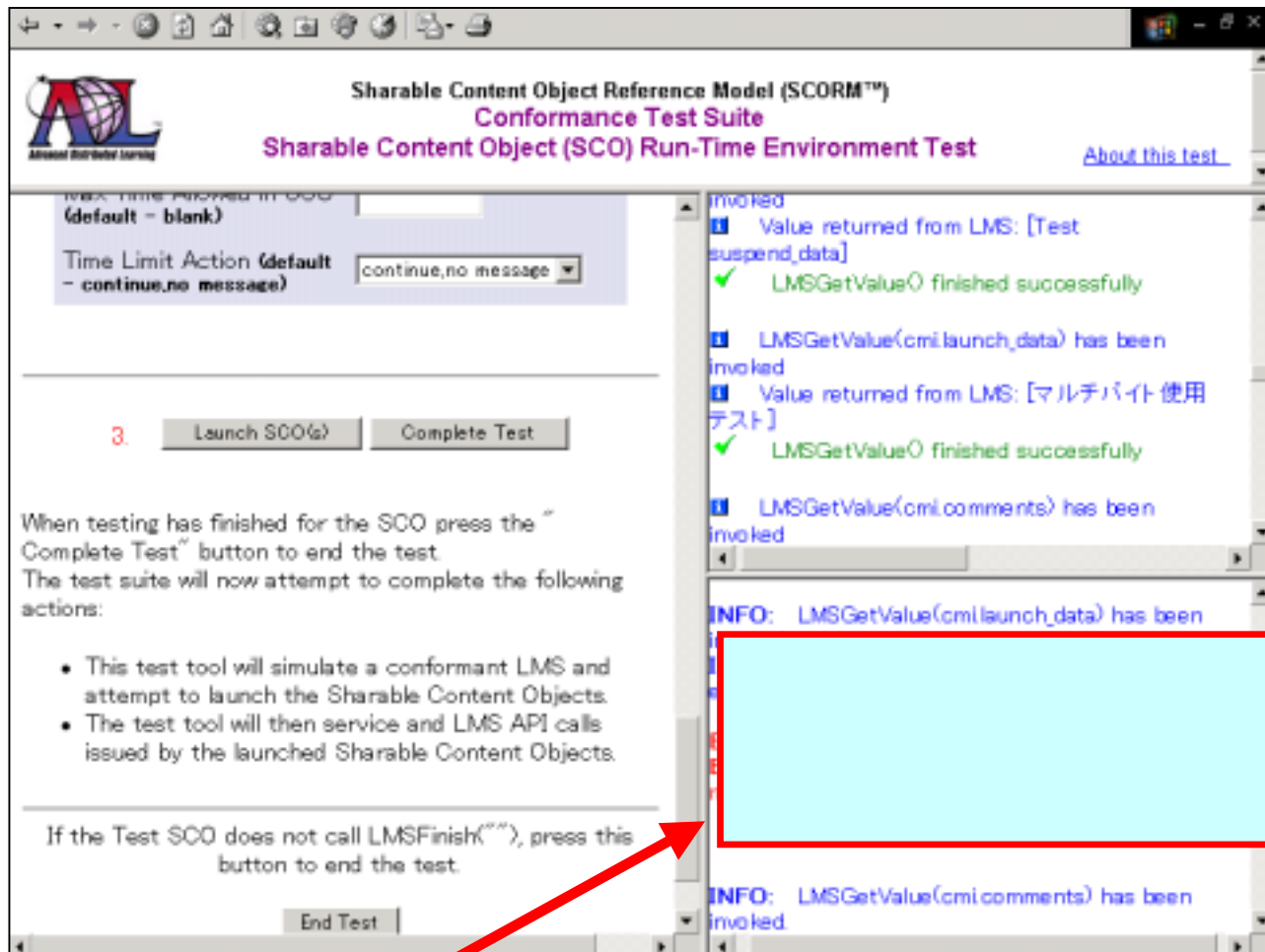
A screenshot of a code editor window titled 'C:_Resources\sco01.htm - 秀丸'. The editor displays JavaScript code with line numbers from 213 to 228. Line 227, 'setAPIConformance(false);', is highlighted in pink. A red arrow points from the bottom left towards this line. The code includes comments and function calls like 'alert()', 'writeLogEntry()', and 'terminateTest()'. The status bar at the bottom shows '秀丸 v1.0.7' and various editing options.

```
213     if(_Debug)↓
214     [↓
215         alert("in testAPIImplementation()");↓
216     ]↓
217 ↓
218     writeLogEntry(_INFO, "Attempting to find the LMS API implementation.");↓
219 ↓
220     // Attempt to find the LMS's API Implementation....↓
221 ↓
222     apiObj = getAPI();↓
223     if(apiObj == null)↓
224     [↓
225         // Could not find the API implementation↓
226         writeLogEntry(_WARN, "Unable to locate the LMS API implementation.");↓
227     setAPIConformance(false);↓
228     terminateTest();↓
229
230     else↓
231     [↓
232         // There is no way to tell at this stage if we found *THE* API or not,↓
233         // just that we found some object named API.↓
234         if(typeof(apiObj) != "object")↓
235         [↓
236             writeLogEntry(_WARNING, "Found LMS's API, but it does not appear to be an object.");↓
237         ]↓
238     ]↓
```

The error occurred when practicing because a function 「setAPIConformance(false);」 that is not defined in real was used for 「sco01.htm」 at the line of 227.

Modification was practiced by switching the line to a function 「lmsRTEApplet.setAPIConformant(false);」.

Explaining Sample 2_9



Error log was recorded because multi-byte was used at the location not proper. Multilingualizing module is finding error as the standard because multi-byte use is Not allowed for data model 「launch_data」 with SCORM standard.