

## LTI Tool Consumers Comparison Tables

### Launch types

	WebCT PowerLink 1.3.01	Blackboard Learn 9.1SP4+	Blackboard Building Block 2.0.0	Moodle 2.2	BasicLTI4Mo odle Module	Sakai CLE 2.9	Sakai OAE 1.1 <sup>1</sup>	Jenzabar	Instructure Canvas
signed	✓	✓	✓	✓	✓	✓	✓	✓	✓
unsigned <sup>2</sup>				✓	✓				

### Launch parameters

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context_id	✓	✓	✓	✓	✓	✓	✓	✓	✓
context_label	✓	✓	✓	✓	✓	✓	✓	✓	✓
context_title	✓	✓	✓	✓	✓	✓	✓	✓	✓
context_type	✓		✓				✓	✓	
custom_keyname	✓	✓	✓		✓	✓	✓	✓	✓
launch_presentation_css_url	✓		✓			✓			
launch_presentation_document_target	✓	✓	✓				✓	✓	✓
launch_presentation_height									✓
launch_presentation_locale	✓	✓	✓	✓	✓	✓	✓		✓
launch_presentation_return_url	✓	✓	✓	<sup>3</sup>				✓	✓
launch_presentation_width									✓
lis_course_offering_sourcedid	✓		✓						✓
lis_course_section_sourcedid	✓		✓					✓	
lis_outcome_service_url	✓		✓	✓		✓			✓
lis_person_contact_email_primary	✓	✓	✓	✓	✓	✓	✓	✓	✓
lis_person_name_family	✓	✓	✓	✓	✓	✓	✓	✓	✓
lis_person_name_full	✓	✓	✓	✓	✓	✓	✓	✓	✓
lis_person_name_given	✓	✓	✓	✓	✓	✓	✓	✓	✓
lis_person_sourcedid	✓		✓			✓		✓	✓
lis_result_sourcedid	✓		✓	✓	✓	✓		✓	✓
lti_message_type	✓	✓	✓	✓	✓	✓	✓	✓	✓
lti_version	✓	✓	✓	✓	✓	✓	✓	✓	✓
resource_link_description		✓	✓	✓	✓			✓	
resource_link_id	✓	✓	✓	✓	✓	✓	✓	✓	✓
resource_link_title	✓	✓	✓	✓	✓			✓	✓
roles	✓	✓	✓	✓	✓	✓	✓	✓	✓
tool_consumer_info_product_family_code	✓		✓	✓		✓			✓
tool_consumer_info_version	✓		✓	✓		✓			✓
tool_consumer_instance_contact_email	✓	✓	✓				✓		✓
tool_consumer_instance_description	✓		✓				✓		

<sup>1</sup> The entries for Sakai OAE are draft only and have yet to be verified.

<sup>2</sup> An unsigned launch is made when either the consumer key or shared secret (or both) are not specified.

<sup>3</sup> This parameter is only passed when the connection is not signed.

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tool_consumer_instance_guid	✓	✓	✓	✓			✓	✓	✓
tool_consumer_instance_name	✓	✓	✓				✓		✓
tool_consumer_instance_url	✓		✓				✓		
user_id	✓	✓	✓	✓	✓	✓	✓	✓	✓
user_image			✓						

#### Other parameters

- Sakai CLE: ext\_sakai\_server, ext\_sakai\_serverid, ext\_sakai\_session

#### Unofficial Basic LTI extensions

	WebCT PowerLink 1.3.01	Blackboard Learn 9.1SP4+	Blackboard Building Block 2.0.0	Moodle 2.2	BasicLTI4Mo odle Module	Sakai CLE 2.9	Sakai OAE 1.1 <sup>1</sup>	Jenzabar	Instructure Canvas
ext_ims_lis_basic_outcome_url	✓		✓		✓	✓			
ext_ims_lis_memberships_id	✓		✓		✓	✓			
ext_ims_lis_memberships_url	✓		✓		✓	✓			
ext_ims_lis_resultvalue_sourcedids	✓		✓						
ext_ims_lti_tool_setting	✓		✓		✓ <sup>4</sup>	✓ <sup>5</sup>			
ext_ims_lti_tool_setting_id	✓		✓		✓	✓			
ext_ims_lti_tool_setting_url	✓		✓		✓	✓			
ext_launch_presentation_css_url	✓		✓						
ext_lms	✓		✓	✓	✓	✓			
ext_resource_link_content	✓		✓			✓			
ext_resource_link_content_signature	✓		✓						

#### Result value types

	WebCT PowerLink 1.3.01	Blackboard Learn 9.1SP4+	Blackboard Building Block 2.0.0	Moodle 2.2	BasicLTI4Mo odle Module	Sakai CLE 2.9	Sakai OAE 1.1 <sup>1</sup>	Jenzabar	Instructure Canvas	
decimal	✓	NA	✓	NA	✓	✓				
percentage	✓		✓							
ratio	✓		✓							
letteraf	✓		✓							
letterafplus	✓		✓							
passfail	✓		✓							
freetext	✓		✓							

#### Roles

Domain: urn:lti:role:ims/lis

	WebCT PowerLink 1.3.01	Blackboard Learn 9.1SP4+	Blackboard Building Block 2.0.0	Moodle 2.2	BasicLTI4Mo odle Module	Sakai CLE 2.9	Sakai OAE 1.1 <sup>1</sup>	Jenzabar	Instructure Canvas
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<sup>4</sup> Not sent until a setting value has been saved (but empty parameter still sent after value has been deleted).

<sup>5</sup> Not sent until a setting value has been saved.

	WebCT PowerLink 1.3.01	Blackboard Learn 9.1SP4+	Blackboard Building Block 2.0.0	Moodle 2.2	BasicLTI4Mo odle Module	Sakai CLE 2.9	Sakai OAE 1.1 <sup>1</sup>	Jenzabar	Instructure Canvas
Administrator	✓		✓	✓	✓	✓			✓
ContentDeveloper	✓	✓	✓						
Instructor	✓	✓	✓	✓	✓	✓	✓	✓	✓
Learner	✓	✓	✓	✓	✓	✓	✓	✓	✓
Learner/GuestLearner		✓							
Manager									
Member									
Mentor	✓		✓						
TeachingAssistant	✓	✓	✓						
TeachingAssistant/Grader		✓							

#### Other roles

- Sakai 3 - None

#### Return parameters

	WebCT PowerLink 1.3.01	Blackboard Learn 9.1SP4+	Blackboard Building Block 2.0.0	Moodle 2.2 <sup>6</sup>	BasicLTI4Mo odle Module	Sakai CLE 2.9	Sakai OAE 1.1 <sup>1</sup>	Jenzabar	Instructure Canvas	
lti_errorlog	✓	✓	✓		NA	NA				
lti_errormsg	✓	✓	✓	✓						✓
lti_log	✓	✓	✓							
lti_msg	✓	✓	✓							

<sup>6</sup> Return parameters only apply to unsigned launches because a return URL is not otherwise available.