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IMS Learning Tools Interoperability (LTI)

Project Lead(s):	Charles Severance (Michigan), Zhen Qian (Michigan), Steve Swinsburg (Flying Kite), Matt Jones (LongSight), Noah Botimer (Michigan)
Project Links:	<ul style="list-style-type: none">• Sakai LTI Source Code https://source.sakaiproject.org/svn/basiclti/• IMS LTI 1.1 Specification: http://www.imsglobal.org/LTI/v1p1p1/ltiIMGv1p1p1.html• IMS LTI 2.0 Specification: http://www.imsglobal.org/LTI/ltiv2p0/ltiIMGv2p0.html• IMS LTI Developer Documentation: http://developers.imsglobal.org/• Sample Tool Code: https://github.com/sakaiproject/sakai/tree/master/basiclti/basiclti-docs/resources/docs/sakai-api-test• Sample Tool Endpoint for Testing: http://www.dr-chuck.com/sakai-api-test/tool.php• Documentation: https://source.sakaiproject.org/contrib/csev/trunk/basiclti/docs/sakai_basiclti_portlet.doc• External Tool API Documentation: https://github.com/sakaiproject/sakai/blob/master/basiclti/basiclti-docs/resources/docs/sakai_basiclti_api.doc?raw=true• LTI Provider Documentation: https://github.com/sakaiproject/sakai/blob/master/basiclti/basiclti-docs/resources/docs/sakai_basiclti_provider.doc?raw=true

Note that the documentation and test plans are kept in SVN rather than Confluence so each release of LTI has tagged copies of the documentation files as well as the code.

Current Release

The latest release is Sakai 10 which supports LTI 1.0, 1.1 and 2.0. To use LTI 2.0 in Sakai 10, you need to define a number of LTI 2.0 values according to the LMS LTI 2.0 documentation:

<http://www.imsglobal.org/LTI/ltiv2p0/ltiIMGv2p0.html>

The LTI 2.0 configuration values for **sakai.properties** are:

```
lti2.guid
lti2.support_email
lti2.service_owner.id
lti2.service_owner.owner_name
lti2.service_owner.description
lti2.service_owner.support_email
lti2.service_provider.id
lti2.service_provider.provider_name
lti2.service_provider.description
lti2.service_provider.support_email
lti2.product_family.product_code
lti2.product_family.vendor_code
lti2.product_family.vendor_name
lti2.product_family.vendor_description
lti2.product_family.vendor_website
lti2.product_family.vendor_contact
lti2.product_info.product_name
lti2.product_info.product_version
lti2.product_info.product_description
```

Releases

The current release that is part of Sakai 2.9.0 and 2.9.1 is LTI 2.0.0 - Sakai 2.9.2 includes LTI 2.1.0

[LTI 2.1.0 Release Notes](#)

[LTI 2.1.1 Release Notes](#)

[LTI 2.1.2 Release Notes](#) (Notes in-progress on a potential 2.1.2 release)

The mapping between Sakai CLE Version, Sakai LTI Component Version, and IMS LTI Version (spec) is in the table below.

As of Sakai 10 and later, the Basiclti Artifact is versioned the same as the overall Sakai release so this table applies to Sakai 2.9 and earlier releases.

	2.7.0	2.8.0	2.9.0	2.9.2	2.9.3	10	IMS LTI Version
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1.1.3 ¹	+	!	x	x	x	x	LTI 1.0
1.3.1 ²	x	+	✓	!	!	!	LTI 1.0
2.0.x ³	x	x	+	✓	✓	✓	LTI 1.1
2.1.0 ⁴	x	x	✓	+	✓	✓	LTI 1.1
2.1.1 ⁴	x	x	✓	✓	+	✓	LTI 1.1
10.0	x	x	✓	✓	✓	+	LTI 1.1 LTI 2.0

Plus indicates the release of Sakai a particular release of LTI was shipped with - and yes, the IMS Spec version numbers and the Sakai LTI Software version numbers are very badly aligned.

Sakai Release Cheat Sheet: [Maven release plugin cheat sheet](#)