

IMS Standards in Action

Colin Smythe (IMS Chief Architect) csmythe@imsglobal.org

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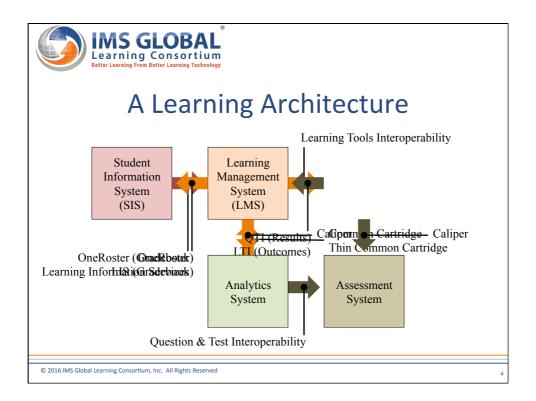


From the Specification to Adoption

- The aim is improve learning
- Creating an interoperability specification is only part of the solution
- IMS must simplify and accelerate adoption of a specification
- IMS has a significant legacy (15 years +) and so backwards/forwards compatibility are issues

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IMS Specification Artifacts

- The Specification Documentation
- Conformance Test Systems
- Reference Test Sets
- Reference Implementations
- Code-level APIs and API Documentation
- Tiered and multi-specification enabled APIs

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Data Definition Specifications

- A specification where IMS define the data formats in which the information is to be exchanged i.e. NOT HOW the data exchange takes place
- Typical data definition specifications are:
 - Common Cartridge & Thin Common Cartridge
 - Question & Test Interoperability (QTI)
 - OpenVideo (new and to be released early 2017)

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Question & Test Interoperability

- QTI 1.0 released in May 2000
- QTI 2.2 released in September 2015
- Several Profiles produced for specific member-community needs
- Experimenting with a new 3rd Generation QTI, called aQTI, based on Web-components
- Adopt QTI 2.2

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Service Definition Specifications

- A specification where IMS define the data formats and how the information is to be exchanged
- Typical data definition specifications are:
 - Learning Tools Interoperability (LTI)
 - OneRoster
 - Caliper
 - Competency Services (new, to be released early 2017)

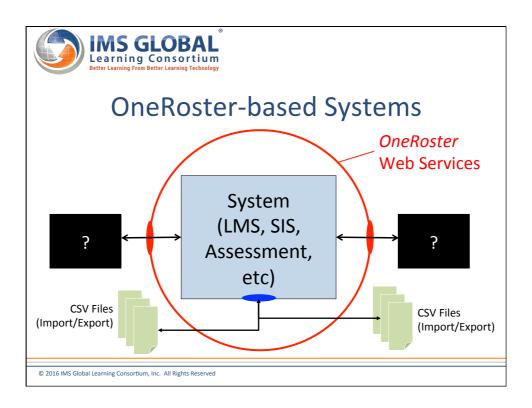
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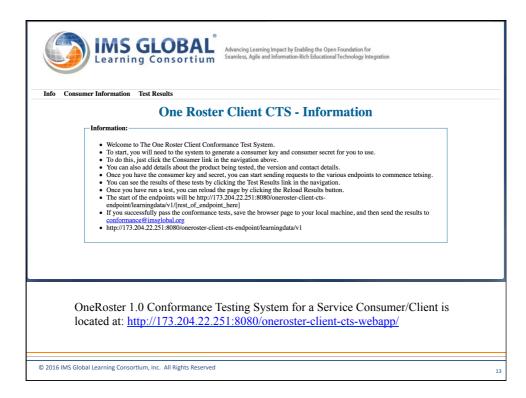


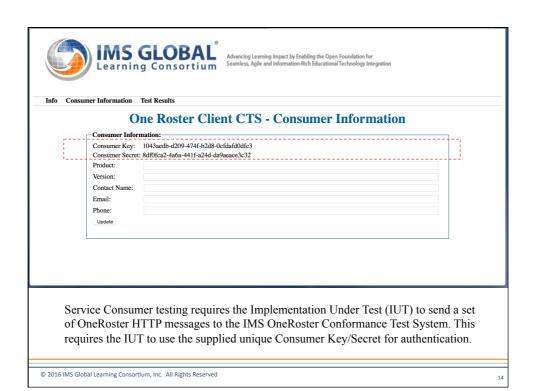
OneRoster Specification

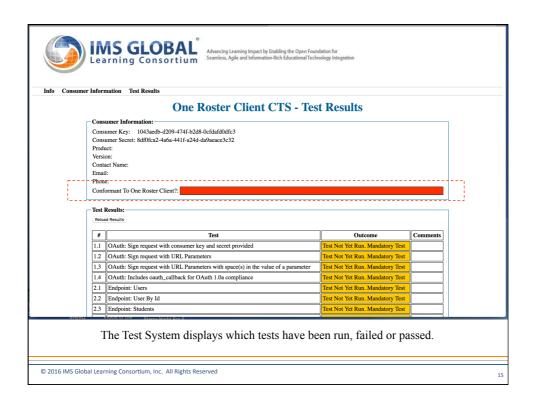
- Support information exchange between a Student Information System (SIS) and a Learning Management System (LMS)
- Will be supplying wide range of APIs (ORCA) based upon the OpenAPI Specification
- Conformance is available for:
 - CSV Import/Export
 - Service Provider (REST/JSON)
 - Service Consumer (REST/API)

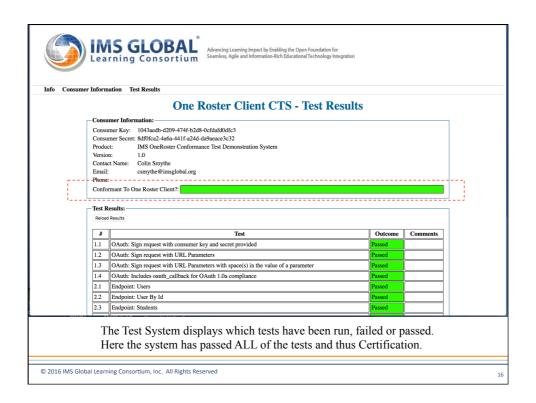
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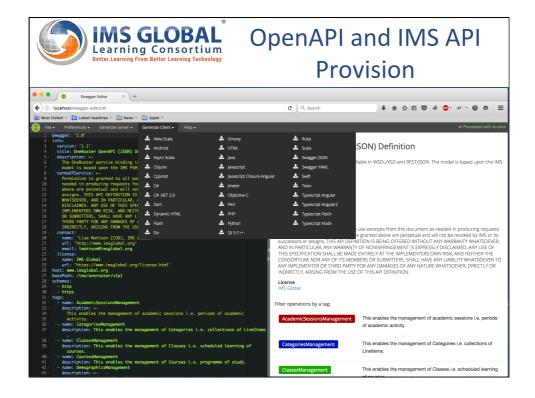


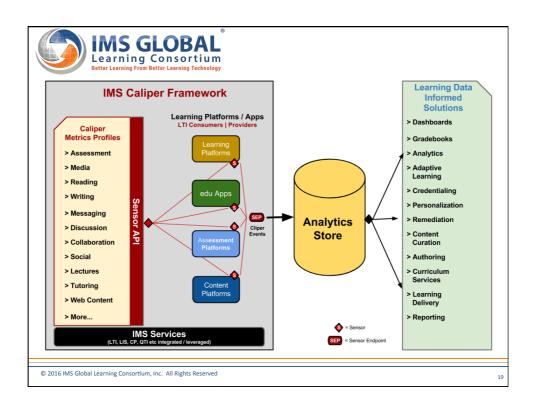


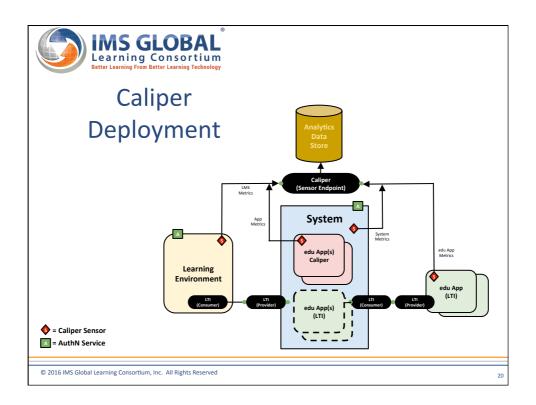


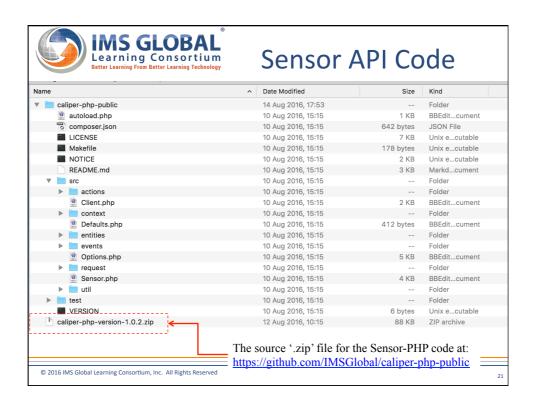


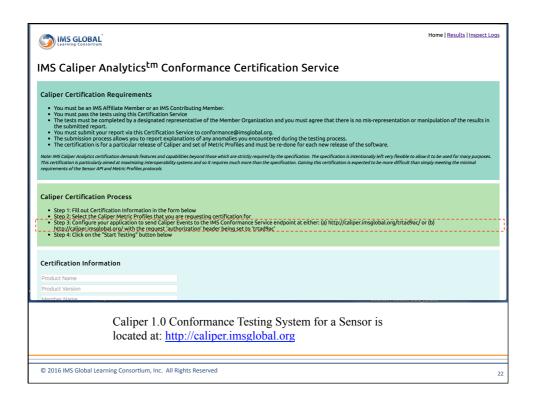
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	One Roster Ser	er CTS - Cons	umer Inforn	nation Setup	
Consumer Inform	ation Setup:				
Product:					
Version:					
Contact Name:					
Email:					
Phone:					
	ll of the Server's endpoint up ll change, e.g. /users, tts, etc.):				
Consumer Key:					
Consumer Secret:					
User Id (for users/-	id} endpoint):				
Student Id (for stud	dents/{id} endpoint):				
Teacher Id (for tea	chers/{id} endpoint):				
Org Id (for orgs/{ie	i} endpoint):				
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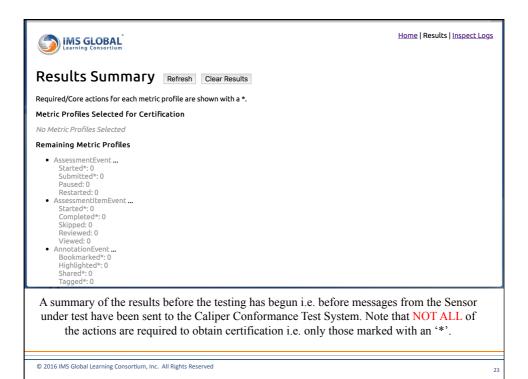


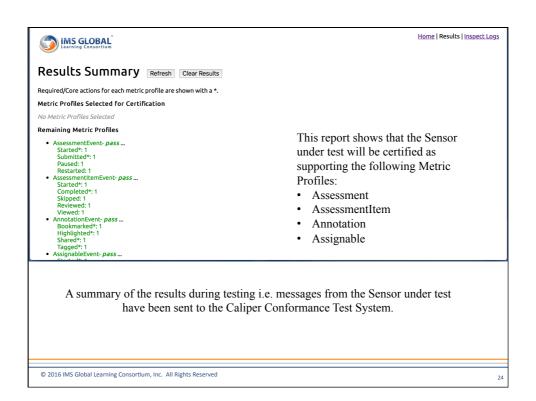


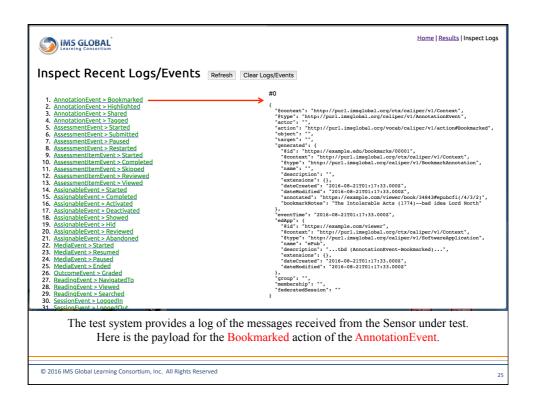


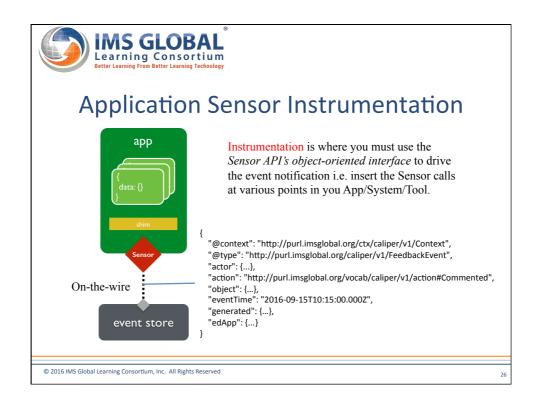


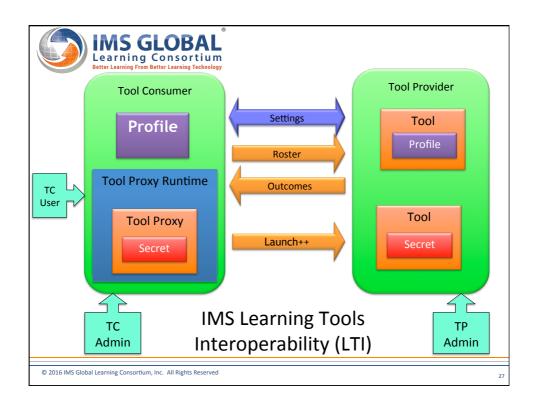


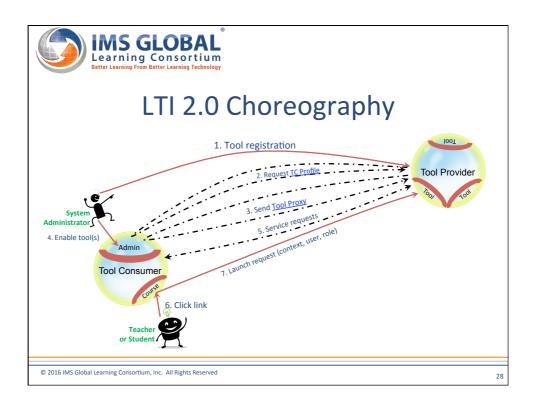






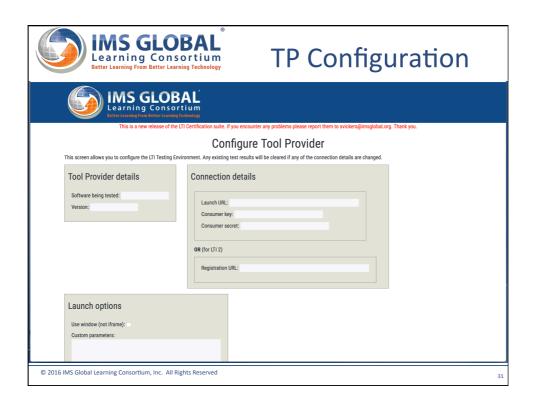


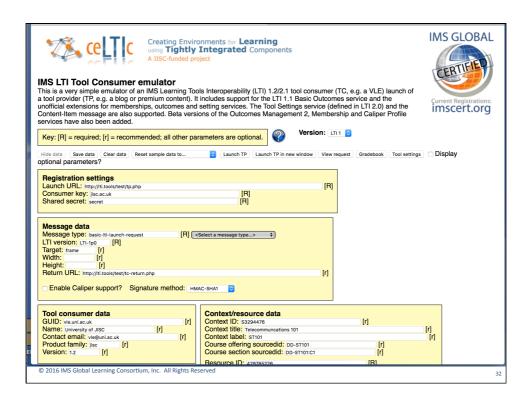


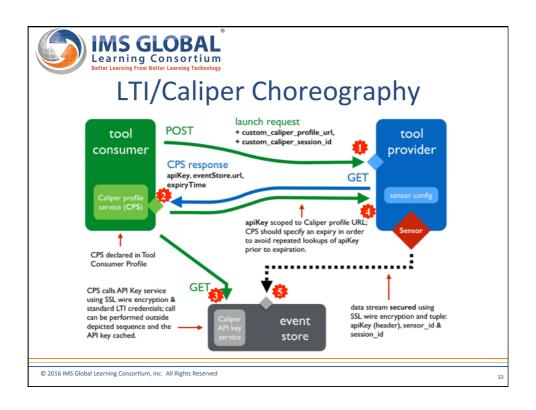


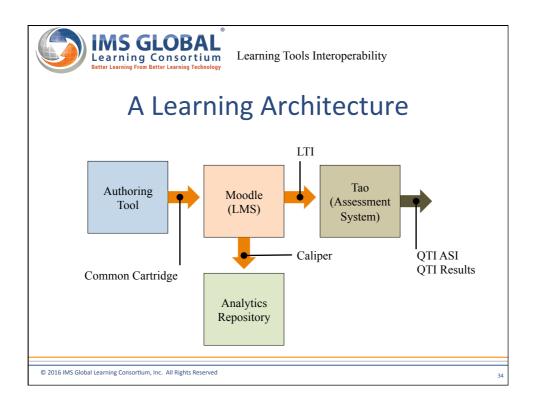














Getting Started with IMS Specifications

- Become a member of the appropriate IMS Working Group/ Task Force
- Access the latest versions of the Specifications
- Download the set of support materials including APIs, Reference Implementations, etc.
- Work through the Conformance & Certification processes
- Contact IMS Staff to support your Conformance & Certification
- Adopt and get certified you must be an IMS member to become certified
- ALL certifications must be renewed every 12 months

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Questions & Comments

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