



# cmi5

Andy Johnson

Contractor with Problem Solutions, LLC in support of the ADL Initiative  
xAPI Bootcamp  
14-15 July 2015  
Alexandria, VA

Sponsored by the Office of the Under Secretary of Defense for Personnel and Readiness (OUSD P&R)



# Problem cmi5 Seeks to Solve



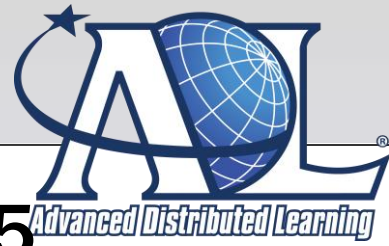
- “Today’s e-learning content and LMS systems are limited by the current standards for tracking trainee performance.”
- “If a data element was not "on the list," it could not be recorded unless there was custom LMS development.”
- “With...CMI-5...Designers of content can record virtually any data they need and their content will pass that data to any CMI-5 compliant LMS; the limitations on what is possible to record in your LMS will be lifted.”

# The First Spec Profile of xAPI



- **There isn't official criteria for this, but**
  - **cmi5 was started by AICC (Aviation Industry CBT (Computer Based Training) Committee**
  - **Wasn't founded with xAPI in mind, a real need for "what was after SCORM" was needed**
  - **Weekly meetings for over two years**
  - **Decisions require support of all on the call**

# Current Status



- Released “Sandstone” version–May 2015
  - Don’t want to cause confusion with numbers as it is an xAPI profile
- Encouraging Vendor Adoption
  - Conceptually very stable, need to see it in practice
  - Would like to see some beta versions in implementation and software
  - ADL will be making a mark here too
- Next version is “Quartz”
  - Anticipating adjustments from early adopters
  - Currently no “pain points”

# cmi5 Not an Acronym!



- Used to be for “Computer Managed Instruction”
- In time, it has become more, especially with cmi5
- And, like Kentucky Fried Chicken, some words just aren’t good ones to advertize with

# So What Does cmi5 Get Me?



- **xAPI – multi-platform support**
- **Defined set of verbs and behaviors**
- **Interoperability in tracking completions, scores, “moveOn” criteria, etc.**
- **Special tag for searching cmi5 Statements in an LRS**
- **Launch mechanism**
- **Course Structure if needed**

# Frees The Data



- **While xAPI allows the data to be free, cmi5 implements just this**
  - Requirement that users can retrieve all of their data
  - Coupled with defined ways to search for cmi5 Statements
  - Which include interoperable ways to pass scores, completions, etc.
  - I can now query “How many of my students got question 6 wrong?” (/fistpump)

# cmi5 Vs. SCORM Profile



- **cmi5 is an xAPI implementation based on lessons learned from SCORM and other specs to have learning and training content in the traditional (LMS) environment behave in an interoperable way.**
- **The SCORM Profile is an EXACT mapping of SCORM to xAPI. All of the benefits of SCORM, but none of the lessons learned that cmi5 has.**
- **Both overlap wherever possible**



# cmi5 Vs. SCORM Profile



- **So...if you:**
  - Are starting from scratch or have never heard of SCORM
  - Are dissatisfied with part of SCORM (Sequencing)
  - Are using an LMS-type solution
  - Are trying to do SCORM on Mobile or other non-LMS environments
- **Consider cmi5!**
- **The SCORM Profile could be better if you**
  - Need every SCORM data point mapped to xAPI
  - Are looking for a practical starting point in moving existing SCORM implementations to xAPI



**Andy Johnson**  
**Advanced Distributed Learning (ADL)**

[andy.johnson.ctr@adlnet.gov](mailto:andy.johnson.ctr@adlnet.gov)

Resources: [xapi.adlnet.gov](http://xapi.adlnet.gov)



@ADLTechTeam



@ADL\_Initiative



@ADLmobile