# Putting the DoDI 1322.26 into Practice

Mr. T.J. Seabrooks **Rustici Software** 







# Identify the right eLearning standard

Putting DoDI 1322.26 into practice: how to determine when, where and how to use SCORM and xAPI in your elearning ecosystem

TJ Seabrooks, CEO at Rustici Software August 28, 2018

## **About Rustici Software**

# eLearning standards experts since 2002

We help eLearning platforms work well together through compliance with SCORM, xAPI, cmi5 and AICC.





# DoDI 1322.26 was re-issued in October 2017



### What's DoDI 1322.26?

- Updated last year, signed by the DoD
- Provides guidance for procurement process of Distributed Learning solutions
- Advises DoD entities to use SCORM or xAPI
- Replaces the 2006 version, which mandated (as opposed to advised)
  the use of SCORM in all elearning technology used by the DoD
- Does not mandate usage of xAPI



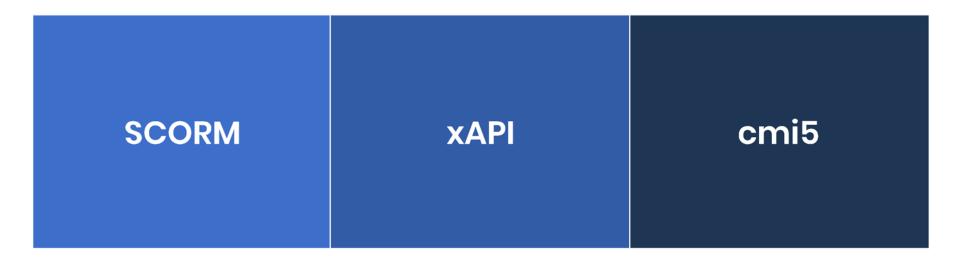
# You have two options: you can check boxes or solve problems



# You can solve problems by selecting the right tool



# Think of the standards as tools





## **SCORM**

### Awesome for traditional environments and tracking compliance

- Most universal of all of the eLearning standards
- Well-defined data model: SCORM tracks completion, pass/fail, score and time spent
- SCORM 2004 offers more detailed insights than its predecessor,
  SCORM 1.2, but both are still used
- Browser-based, JavaScript communication



### **xAPI**

# Better for tracking real-world abilities: xAPI allows you to understand competency and context

- Lets you track activities/events that occur outside the LMS
- Can be more granular and descriptive than SCORM
- Enables mobile-learning and team-based learning
- Removes the need for a web browser, HTTP communication
- Less supported and saturated than SCORM
- Keeps old SCORM data model and adds room for more context



### cmi5

# A great middle ground for those looking to get started with xAPI in a traditional learning environment

- Great for traditional, LMS-style environments
- Enables to tracking of a learner's session
- Defines how to package and launch xAPI content
- Allows the ability to also track any type of learning experience via fully expressive xAPI structures



# Each of the eLearning standards has its limits



## **SCORM**

### **Limitations**

- Challenging for offline training
- Hard to understand training beyond browsers
- Difficult to track what users actually do



### **XAPI**

### **Limitations**

- Nascent and limited industry support
- LMS and authoring tool implementations are challenging
- Generalized reporting can be difficult



## cmi5

#### Limitations

- Doesn't track extra "data" over SCORM
- Like xAPI, there is limited support
- Like xAPI, there is limited industry adoption



# What's the right standard for common scenarios?



# Have learners taken this course? Did they pass?



# Reporting completion and status

#### **SCORM**

- Perfect for a traditional, browser-based elearning course
- LMS and content probably already support SCORM

#### **XAPI**

- Be careful about how LMS reports on xAPI data
- Use cmi5 as the package and launch methodology for an LMS environment



# What parts of my learner's experiences are important? Does my content contain assessments?



# Reporting on learning experiences

#### **SCORM**

- Great for simple assessments launched from an LMS
- Most platforms support SCORM assessments

#### **XAPI**

- Capable of reporting on simple assessments in an LMS
- Better for understanding actual experiences
- Fewer platforms support xAPI but they exist



# Did my learners <u>improve</u>? Did they actually learn anything?



# Reporting on improvement

#### **SCORM**

- Great for simple assessments launched from an LMS
- Most platforms support SCORM assessments

#### **XAPI**

- Capable of reporting on simple assessments in an LMS
- Better for understanding actual experiences
- Fewer platforms support xAPI but they are out there



# Where are my learners? What devices do they have?



# Training via diverse devices

#### SCORM and cmi5

Best for courses launched from a browser

#### **XAPI**

- Capable of reporting offline experiences
- Better for training happening via devices (medical dummy, flight simulator, etc.)
- Better for reporting on experiences within software (e.g. Salesforce)



# Do I need to protect against data modifications? Do I have other security concerns?



# Addressing trust and security

#### **SCORM**

Risk of data being manipulated

#### **XAPI**

- xAPI signatures allow one to verify that statements were not manipulated or modified by any third-party
- Greater control over who has the ability to report data into the system
- Helpful for those producing audit trails



# Questions about this stuff?





# Thank you!

tj.seabrooks@rusticisoftware.com