

# Putting the DoDI 1322.26 into Practice

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# 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**

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# About Rustici Software

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**eLearning standards experts  
since 2002**

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



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# DoDI 1322.26 was re-issued in October 2017

# What's DoDI 1322.26?

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- 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

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

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# You can solve problems by selecting the right tool

# Think of the standards as tools

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SCORM

xAPI

cmi5



# SCORM

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## **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

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## **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

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## **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

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# Each of the eLearning standards has its limits

# SCORM

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## Limitations

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

# xAPI

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## Limitations

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

# cmi5

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## Limitations

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

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# What's the right standard for common scenarios?



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**Have learners taken this course?  
Did they pass?**

# Reporting completion and status

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## 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

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

# Reporting on learning experiences

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## 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

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**Did my learners improve? Did they  
actually learn anything?**

# Reporting on improvement

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## 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

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

# Training via diverse devices

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## 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)



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

# Addressing trust and security

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## 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

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# Questions about this stuff?



# Thank you!

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