



VitalSource®

# eTextbook Outcome Architecture

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# Evolution of eTextbook

Simple reader of published content

Operate online or offline

Many devices supported (browsers, iOS, Android, etc)

Data gathering

- Usage data, notes, highlights

Dynamic, interactive eTextbooks

- Interactive quizzes, assessments, models, etc

- Activity outcomes need to integrate with grade books of some learning system



# Outcome Standards

Aimed at standalone activities, not eTextbooks

- Prerequisites
  - Course, user, grade book entry exists
- Start the quiz
- Do the work
- Score the work
- Submit result (with one-time access ticket)



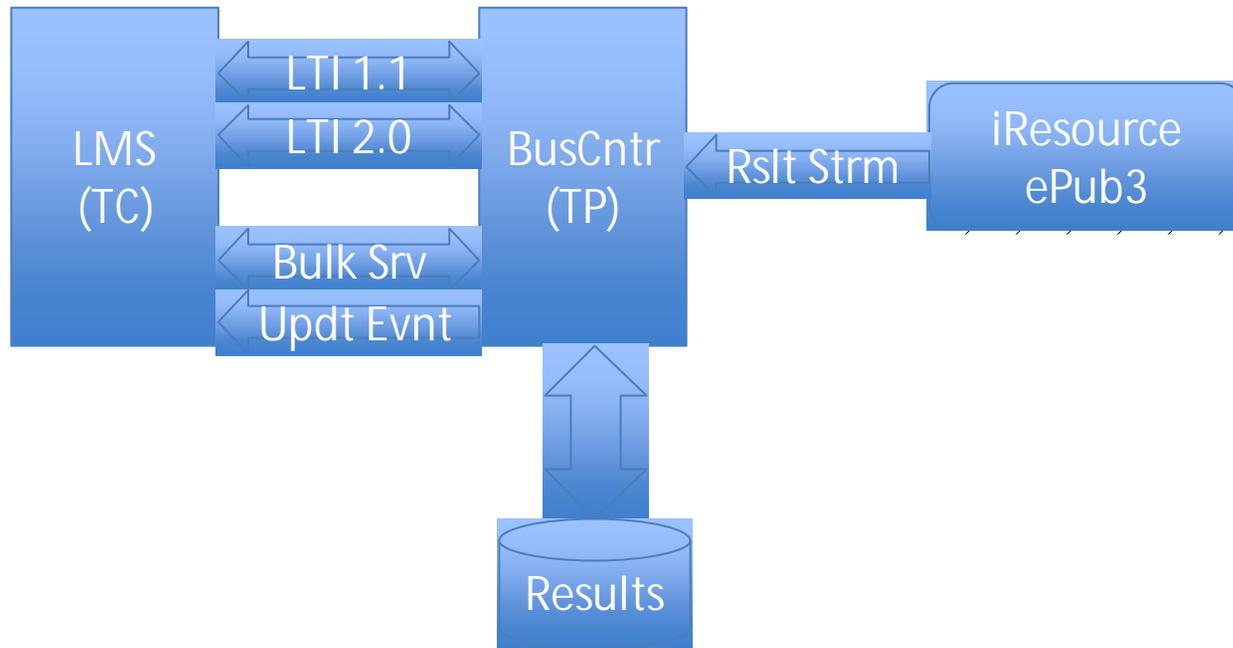
# Proposed eTextbook Standards

Any activity in any order at any time

- Prerequisite: student has eTextbook
- Student opens and browses around the book
- On activity completion, post or queue outcome
- On course activity request, petition an outcome (bid/ask)
- Also bulk grade request from LMS



# VST approach

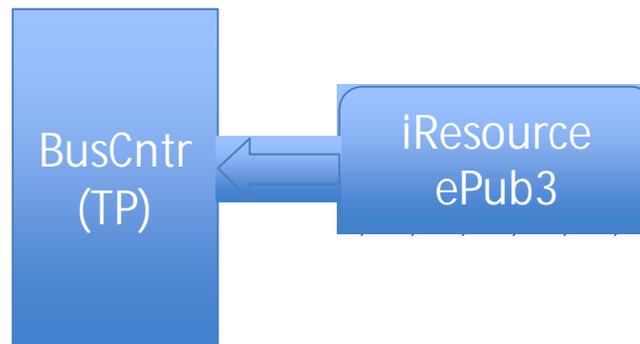




# Matches can be complicated

## TP Knows

- ISBN
- TenantUser
- Course context
- QuizIDs needed for course



## iResource Knows

- ISBN
- QuizID
- UserGUID.



IMS/LTI

Bulk grade petitions

# Standards implications

IMS/LTI (maybe)

Result event protocol

This would be first resource → TP protocol

Needs to work for low-level devices

IDPF/ePub3

Markup for result reporting