EDUPUB 2 Theme 2: Proposed Approach to Grade-book Outcomes from EDUPUB
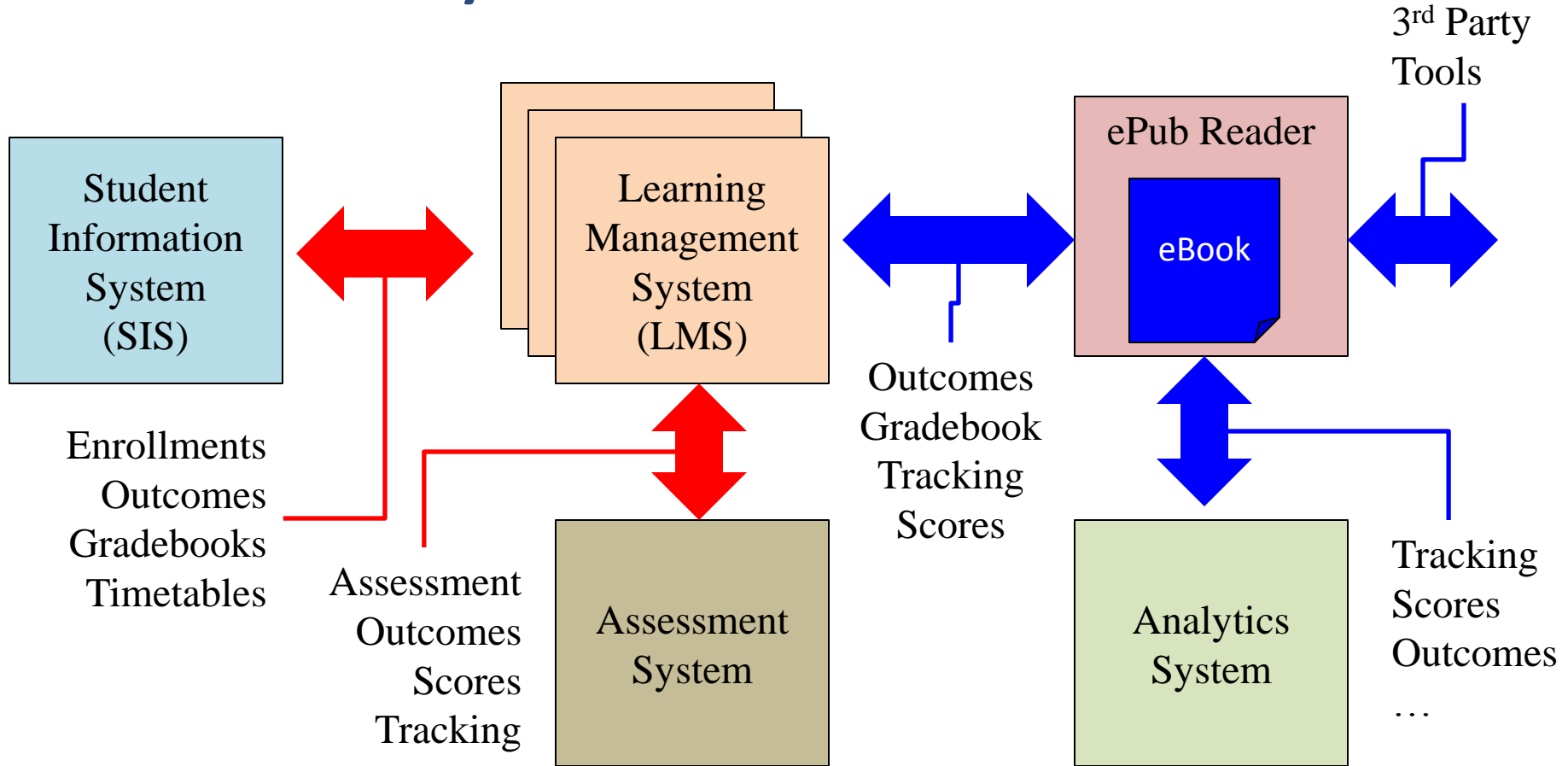
Colin Smythe (IMS Chief Architect)
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IMS & Outcomes/Gradebooks

- Exchange of Outcomes/Gradebook for Learners on Courses

- Exchange of Outcomes/Scores/Tracking for Learners on Assessments

- Exchange of Outcomes/Scores/Gradebook for Learners on Activities

- Exchange of Outcomes/Tracking for Analytics on Assessments/Activities/Courses/Learners
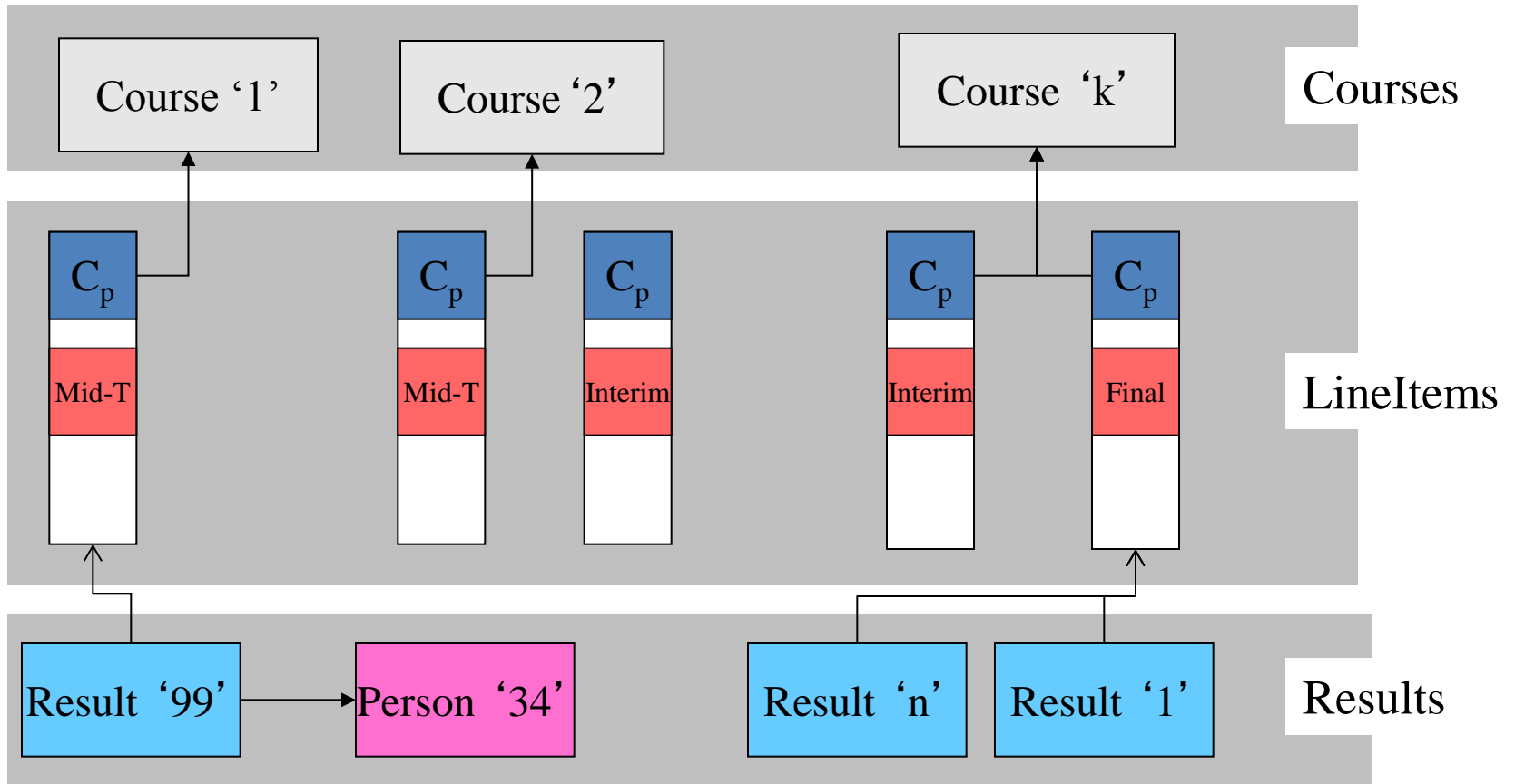
A System Architecture

Student Information System (SIS)

Learning Management System (LMS)

ePub Reader

eBook

3rd Party Tools

Assessment System

Analytics System

Enrollments
Outcomes
Gradebooks
Timetables

Assessment
Outcomes
Scores
Tracking

Outcomes
Gradebook
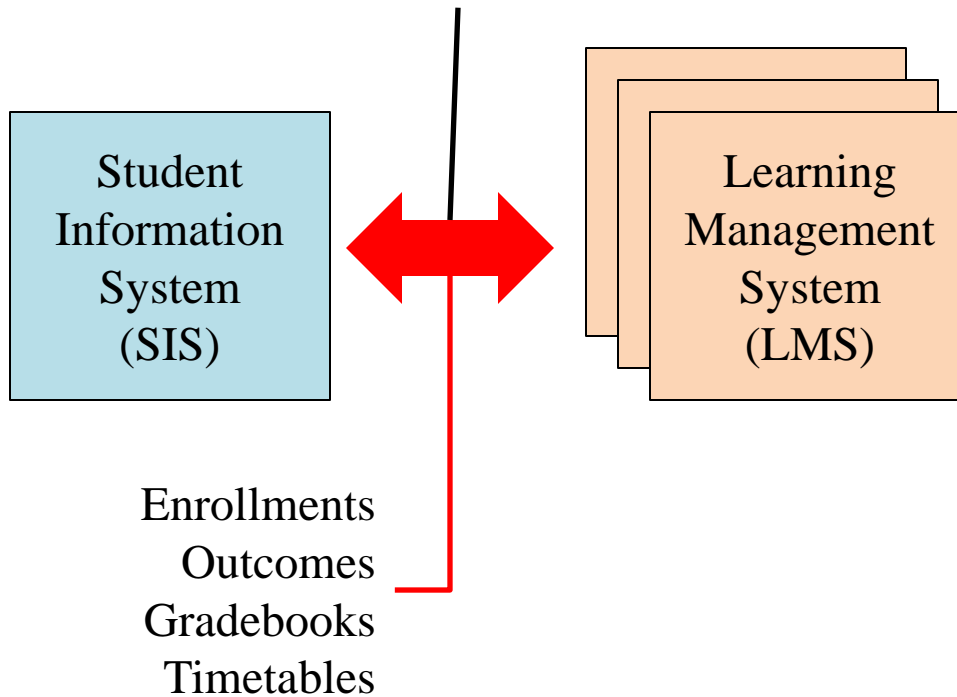Tracking
Scores

Tracking
Scores
Outcomes
…

Excluding Metadata !!!

Outcomes/Gradebook Model

Some SIS/LMS Exchange

IMS Learning Information Services (LIS)
IMS Course Planning & Scheduling (CPS)

Student Information System (SIS)

Learning Management System (LMS)

Enrollments
Outcomes
Gradebooks
Timetables

Assessment System

Learning Management System (SIS)

IMS APIP/QTI
IMS QTI Results Reporting
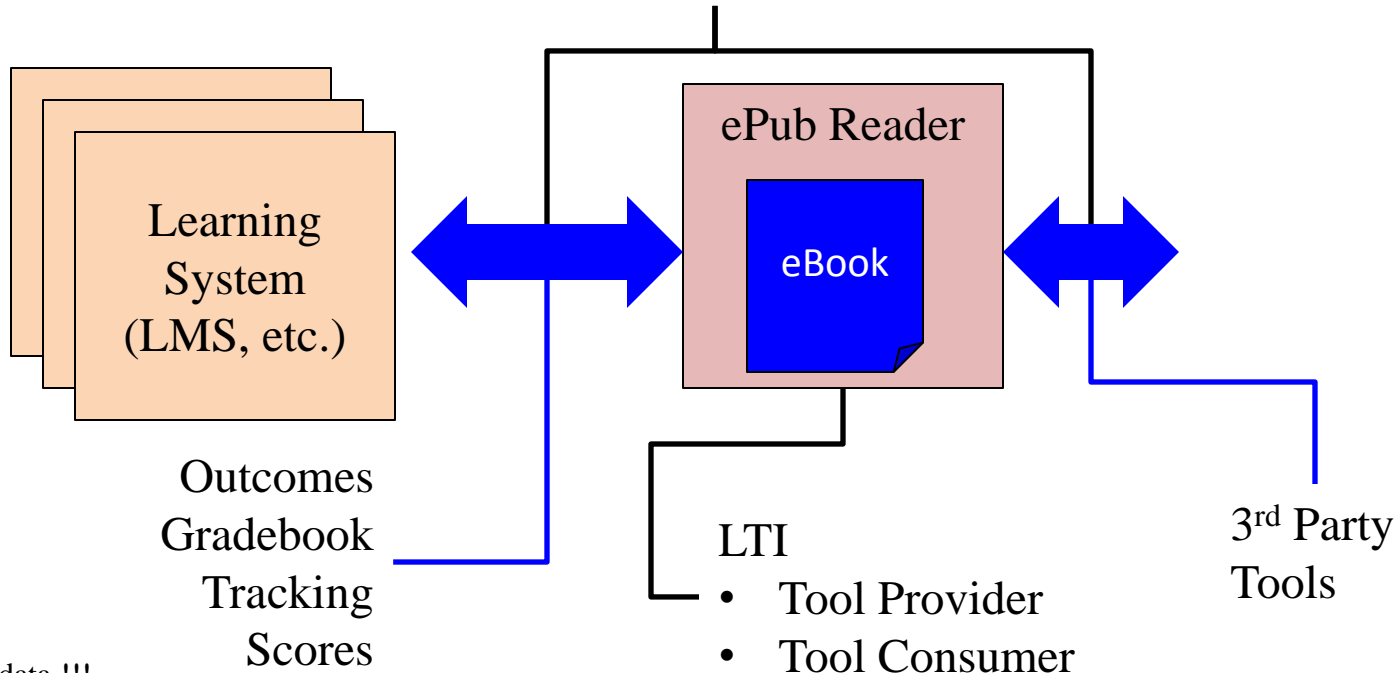
Assessment Outcomes Scores Tracking

Assessment System
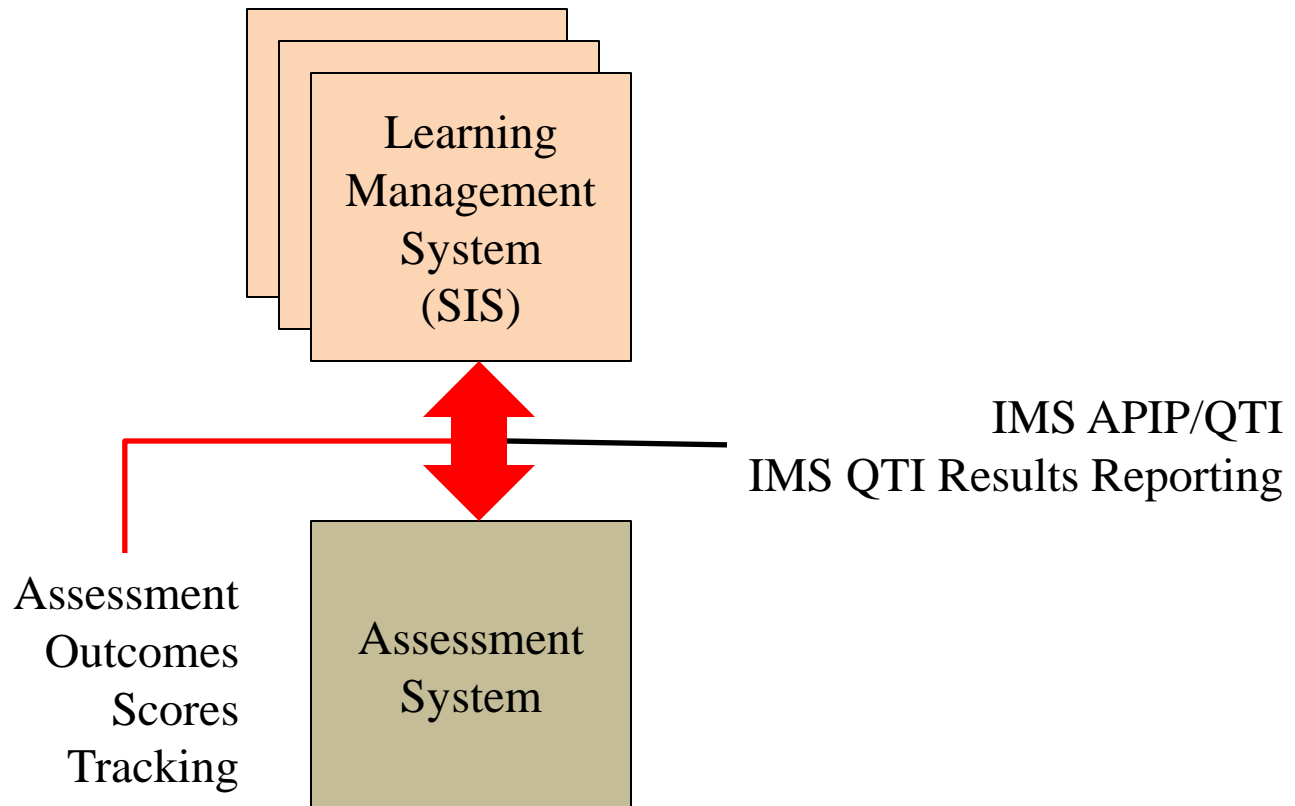
Supporting EPUB3 Interactions

IMS Learning Tools Interoperability
- LTIv1.1 – Single Score
- LTIv2.0 – Outcomes Service/Gradebook

ePub Reader

eBook

Learning System (LMS, etc.)

Outcomes Gradebook Tracking Scores

LTI
- Tool Provider
- Tool Consumer

3rd Party Tools

Excluding Metadata !!!

EPUB3 Learning Analytics

ePub Reader

eBook

IMS Caliper

Analytics System

Tracking
Scores
Outcomes
…
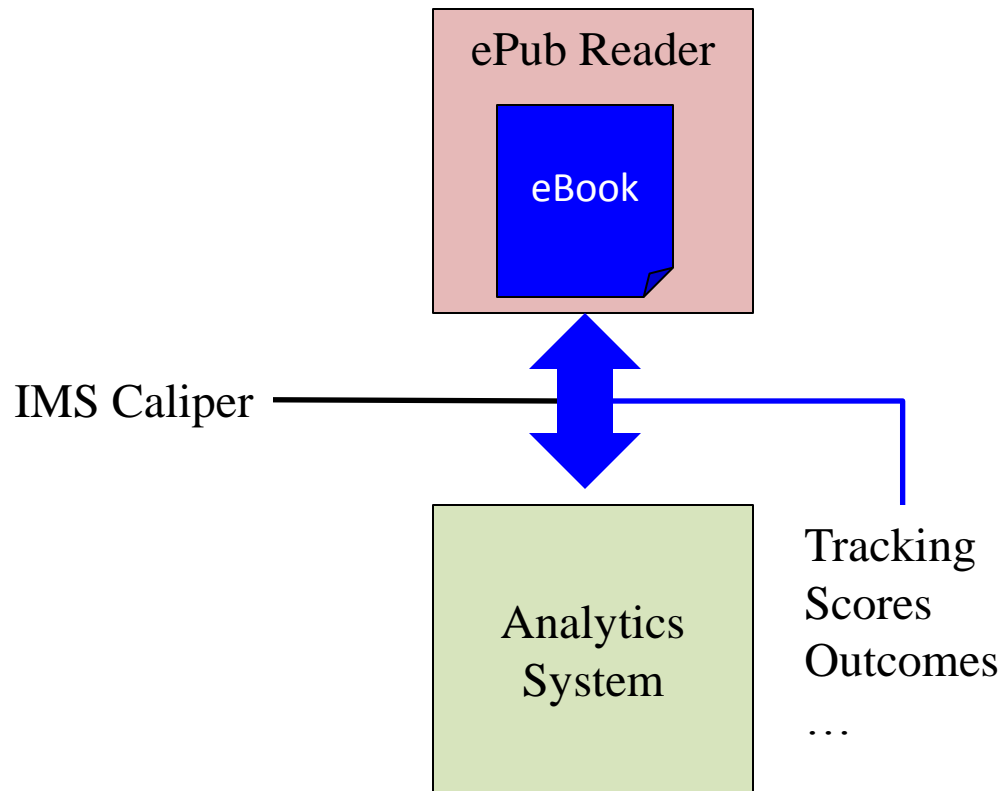
Recommendations

- Ensure eBook/EPUB3 readers **are** IMS LTIv1.1 compliant

- Ensure eBook/EPUB3 readers **are** IMS Caliper compliant

- Ensure eBook/EPUB3 readers become IMS LTIv2.0/LTI 2 Services compliant

- Establish best practices for using these in EPUB3 publications

Questions, Issues & Comments