



# IMS Quarterly Briefing

## EDUPUB

Proposed Approach to  
Analytics Data Feeds

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# EDUPUB Analytics

## EDU Functional Gaps in ePub to be Addressed

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- Embeddable inline Assessment within context
- Embeddable inline edu Apps to enable a wide spectrum of learning activity types to be leveraged in context
- Results / grades and outcomes from assignable activities to automatically synchronize with an associated Learning Delivery system
- ALL ePub e-text activity and embedded activity elements intrinsically measured at a very granular level for engagement, performance and activity specific measures
- Analytics measurement enabled across both web and mobile delivery modalities
- Ensure overall consistency and interoperability of analytics measures taken via standards based service frameworks

# EDUPUB Analytics

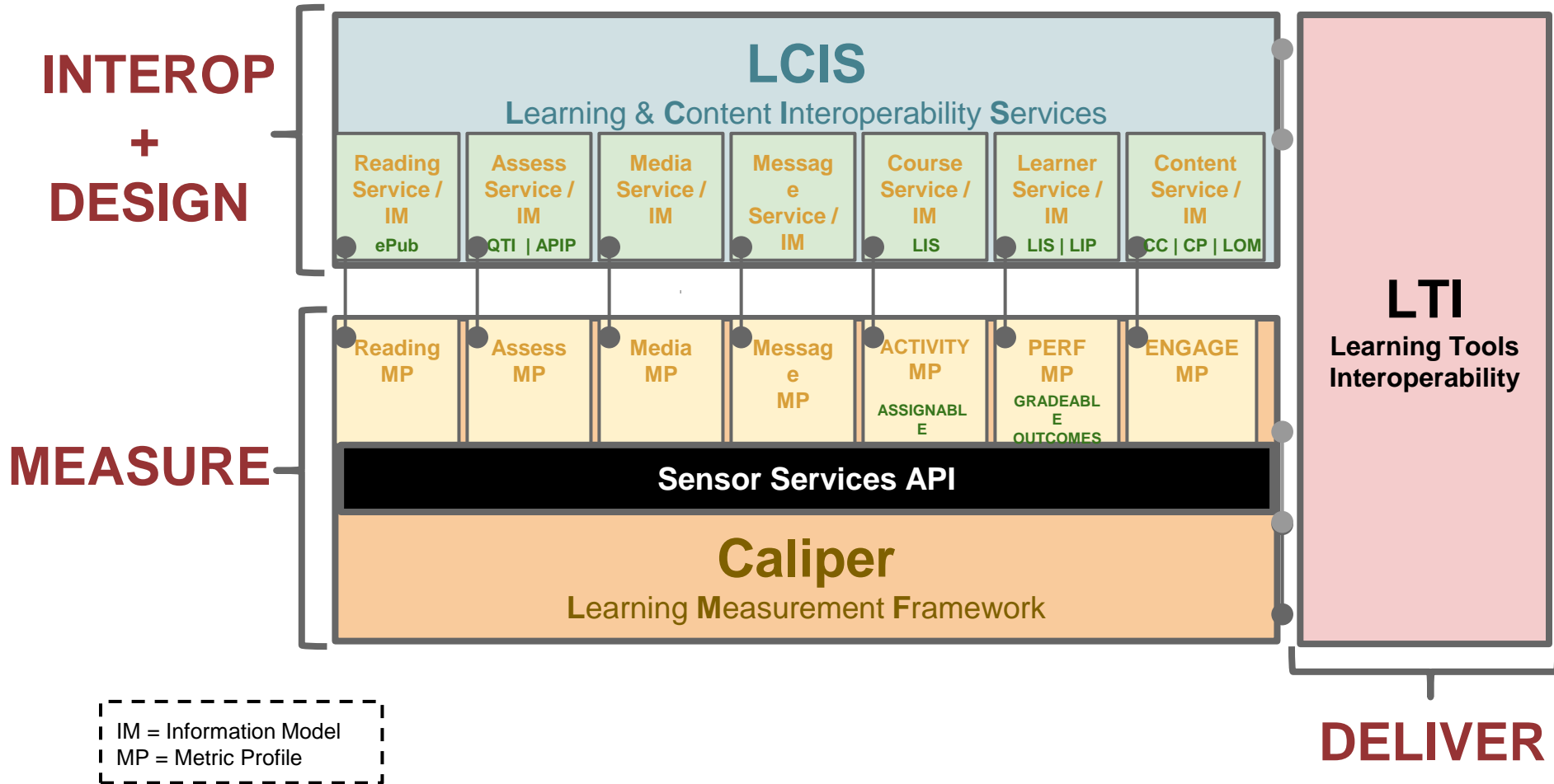
## Foundational IMS Services Integrated with ePub

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- Caliper - enables intrinsic learning measurement enabled analytics for ePub e-text and all integrated IMS service enabled elements
- LTI - enables interoperable edu App / tool consumers and providers to introduce a wide spectrum of embeddable functionality within ePub
- QTI / APIP - enables assessment test and item level content delivery and response handling to embed within the ePub context
- LIS - for learning delivery system and learner information model context and interoperability as required
- CC, CP, LOM and other Learning Content packaging and metadata services for content specific information model context and interoperability as required

# IMS Caliper

Comprehensive IMS Service Orientation...



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# EDUPUB PoC Demo...

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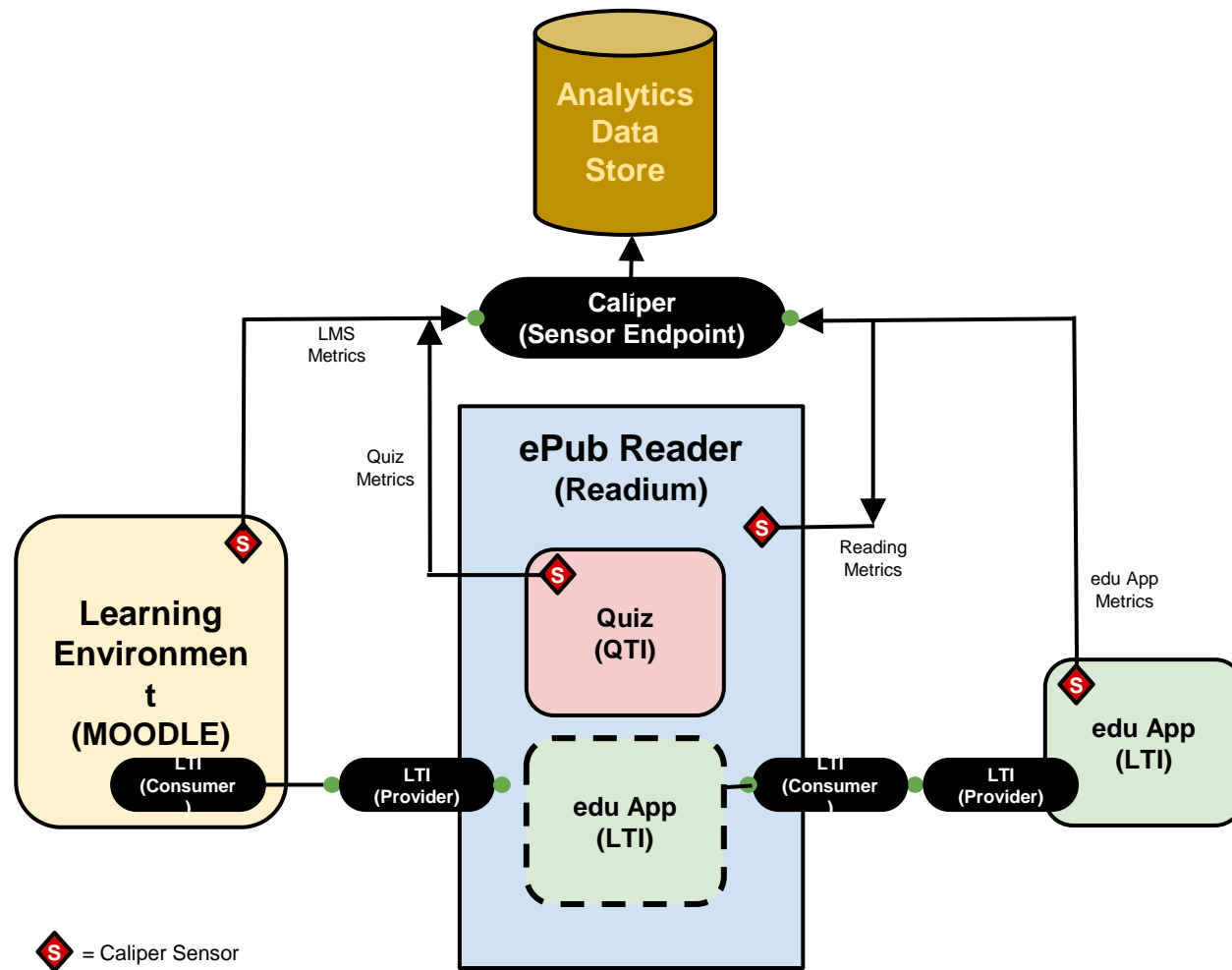
## Overview of Moving Parts...

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- Moodle Course with single EDUPUB delivered lesson
  - Moodle LTI launch of Radium app as LTI Tool / Provider
- Lesson contains two Learning Activities
  - Reading - provided by Radium open ePub3 web app
  - Quiz - provided by embedded QTI generated JS run-time delivery agent)
- Moodle, Radium and the QTI Quiz Player each have a Caliper Sensor embedded in them via the SensorAPI
  - Moodle Sensor - provides context of Course, Students and LTI
  - Radium Sensor - provides context of Reading as well as LearningEvents using the Caliper Reading Metric Profile
  - EDUPUB QTI Sensor - provides context of Quiz/Items as well as Learning Events using the Caliper Quiz Metric Profile
- Caliper Sensor Endpoint, Learning Data Store and PoC Visualizations via Intellify

# EDUPUB PoC Overview

## Interoperability with Analytics Enabling ...



# EDUPUB PoC Demo

## Measures / Analytics Spanning Learning Delivery

