

What is EDUPUB

EDUPUB 2 Workshop
Salt Lake City 12-13 February 2014

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EDUPUB Alliance Global Initiative

- Global community for focused coordination of ongoing work among multiple standards organizations (currently IDPF, IMS Global, W3C)
- Not YASO (Yet Another Standards Organization) creating EMFF (Even More File Formats)
- A lightweight superstructure to help ensure that existing widely-adopted standards mesh and meet **requirements of next-generation learning content**

Benefits of next-generation learning content

1. The Publisher

- achieve **economies-of-scale** in
 - design
 - development
 - distribution
- greater **sourcing flexibility**
- enable **consistency of presentation** and **functionality**
- ensure highest **quality across multiple platforms** and devices
- **avoid overhead** from needless output variants
- drive **product/service innovation**

Benefits of next-generation learning content

2. The Platform Provider

-
- develop features and support based on a **known, consistent content format**
- **increased volume** of educational content from publishers
- high quality products **expand markets** for eBooks

Benefits of next-generation learning content

3. The Educator

- content is easily **integrated with LMS** and other services;
 - assessments, outcomes
 - teacher-student, peer exchanges (annotations)
 - analytics
- **trackable** through metadata-driven services to enable adaptive learning, efficacy reporting
- content is easily **repurposed** by teachers
- avoid **vendor-lockin** solutions;
 - allowing content to be retrieved from multiple sources
 - ... and seamlessly deployed on multiple devices and platforms (eBooks, LMS, OER)

Benefits of next-generation learning content

4. The Learner

- **responsive** to the Learners:
 - learning style
 - personal preferences
 - ability/disability
- **richer** learning experiences (rich media, interactivity)
- adaptability and accessibility improving **learning outcomes**
- faster subject mastery and increased retention
- **usable** in both classroom/off-campus and online/offline environments
- lower cost

The EDUPUB deliverable

a comprehensive model for the interchange and deployment of educational content

based on the W3C Open Web Platform

and expressed as an integrated set of specifications including EPUB 3 (IDPF), LTI, QTI (IMS), LRMI and other emerging standards

EDUPUB 1: Work items

Educational Profile of EPUB 3

Structural Semantics & Content Model

Assessments

Widgets

Discrete Entities

Outcomes services

Analytics services

Linkage to LTI

A11Y Metadata

LRMI Metadata

ARIA

Annotations

EDUPUB 1: Work items

- **Assessments**
 - QTI roundtripping, EPUB integration, A11Y
- **EPUB Widgets**
 - Specification + open source library
- **Discrete Entities**
 - Predictable & efficient repurposing

EDUPUB 1: Work items

- Outcomes Services
- Analytics Services
- Linkage to LTI

EDUPUB 1: Work items

- **A11Y Metadata**
 - Integration guide, inclusion requirements
- **LRMI Metadata**
 - Integration guide, inclusion requirements
- **ARIA**
 - Forum for assessments and STEM
- **Annotations**
 - W3C OA CG + IDPF joint effort
 - Public draft March 19

EDUPUB 2: Intended Outcomes

- Updates & status reports from EDUPUB 1 subprojects
 - Open discussion about **issues & challenges**
- Developing the EDUPUB **business case**
- Establishment of cross-project communication forum
- Establishment of **next steps & timeline(s)**
 - for existing subprojects
 - roadmap for start of new subprojects?

Today's first report: EDUPUB Profile

Structural Semantics & Content Model

- EPUB3 WG working on fundamental structural semantics and content model restrictions for XHTML content
- Based on submissions from Pearson & O'Reilly
- WG review & consolidation ongoing
- Current editors draft available this afternoon at <http://idpf.org/epub/profiles/edu/10/>
- *Note; spec intended to eventually incorporate / link to*
 - *widgets specification*
 - *analytics/outcomes*
 - *A11Y/LRMI metadata integration*
 - *assessments integration, etc.*

EDUPUB Profile: discourse

- balance act: richness vs economy
- balance act: predictability vs flexibility
- structural semantics
 - style/structure separation
 - ... and OWP integration
- ensuring accessibility

	A	B	C
24	biblioentry	Bibliographies	In V1
25	bibliography	Bibliographies	In V1
26	continued	Block	Deferred
27	attribution	Block	Duplicate
28	letter	Block	Deferred
29	feature	Block, asides	CSS class
30	caution	Block, asides	In V1
31	important	Block, asides	In V1
32	tip	Block, asides	In V1
33	warning	Block, asides	In V1
34	case-study	Block, asides	In V1
35	case	Block, asides	Rejected
36	footnote_opener	Block, asides	CSS class
37	annotation_instructor	Block, asides	Deferred
38	displayedtext	Block, asides	CSS class
39	example	Block, asides	In V1
40	pullquote	Block, asides	In V1
41	annotation	Block, asides	In V1
42	footnote	Block, asides	In V1
43	marginalia	Block, asides	In V1
44	note	Block, asides	In V1
45	notice	Block, asides	In V1
46	sidebar	Block, asides	In V1
47	vignette	Block, asides	Deferred
48	programlisting	Block, code	In V1, TBC
49	informalfigure	Block, figures	Rejected
50	figure	Block, figures	Rejected
51	opener	Block, figures	CSS class
52	blockquotegroup	Block, groupings	Rejected
53	listgroup	Block, groupings	Deferred
54	steplist	Block, lists	Deferred
55	staticlist	Block lists	CSS class

Today's first report: EDUPUB Profile

Timelines

- Content Model & Structural Semantics
 - developed using iterative approach
 - first usable version: **synced with Widgets: May 2014**
- LTI integration, Analytics, QTI roundtripping
 - *TBD at end of this workshop*

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You're welcome!

