

“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*

What is EDUPUB?

*“A comprehensive model for the interchange and deployment of educational content
...based on the Open Web Platform
...and expressed as an integrated set of specifications including EPUB 3 (IDPF), LTI, QTI (IMS), LRMI, and other emerging standards”*

(See slides of Paul Belfanti and Markus Gylling:

<http://www.imsglobal.org/edupub/whatIsEdupubBelfantiGylling.pdf>)

Various work items have been defined for EDUPUB



- ▶ Assessments
- ▶ Widgets
- ▶ Structured EDUPUB profile, discrete entities
- ▶ Services (outcome, analytics)
- ▶ Linkage to LTI
- ▶ A11Y Metadata
- ▶ LRMI Metadata
- ▶ Annotation
- ▶ ARIA

*Some of these have direct connections to OWP;
some are built on top*

Widgets

- ▶ Definition of user-interface widgets + open source library
 - based on JavaScript usage + CSS
 - includes some specific security model
- ▶ Used to ensure a consistent user interface

W3C/OWP Connection:

- ▶ *Making use of the work in the Rich Web Client Activity, Web Components*
- ▶ *Creation of a separate Community Group for more general usage was discussed last year*

EDUPUB Profiles, “Discrete Entities”

- ▶ What are the smallest “chunks” within a content that are separately addressable?
 - e.g., paragraphs, sentences
- ▶ How does one select, marks up such chunks?

W3C/OWP Connection:

- ▶ *Definition of link anchors (included now in the Annotation WG charter)*
- ▶ *HTML5 extension to mark up “semantic” knowledge on content*
 - ▶ *cooperation of the DPUB IG with P&F WG (ARIA) WG ongoing on how to do it in an HTML5 compatible way*

Metadata (A11Y, LRMI)

- ▶ Definition of suitable vocabularies, identifiers
- ▶ Syntax to express metadata (RDFa, microdata, etc.)

```
<dc:type>edupub</dc:type>  
<meta property="schema:typicalAgeRange">18+</meta>  
<meta property="schema:accessibilityFeature">alternativeText</meta>  
<meta property="schema:accessibilityFeature">printPageNumbers</meta>  
<meta property="schema:accessibilityFeature">readingOrder</meta>  
<meta property="schema:accessibilityFeature">structuralNavigation</meta>  
<meta property="schema:accessibilityFeature">tableOfContents</meta>
```

W3C/OWP Connection:

- ▶ *Relationships with schema.org (LRMI is in schema.org...)*
- ▶ *Definition of link anchors (included in the Annotation WG plans)*
- ▶ *Related to the “Discrete Entities” EDUPUB work*

Accessibility/ARIA

- ▶ Use of ARIA attributes to annotate elements
- ▶ This is a general WAI feature, but terms (i.e., attribute values) are defined specifically for education, too

W3C/OWP Connection:

- ▶ *Relationship to the next version of ARIA in terms of term definitions, ongoing work*
- ▶ *Co-Chair of PF WG, Rich Schwerdtfeger, is also the active person in EDUPUB*

Annotation

- ▶ Provide standard ways to exchange annotations
- ▶ Various access level of annotations should be possible (personal, student ↔ student, student ↔ teacher, parent ↔ teacher)
- ▶ EPUB has already adopted the Open Annotation Model

W3C/OWP Connection:

- ▶ *Annotation Working Group is closely followed by EDUPUB*
- ▶ *Rob Sanderson, Annotation WG chair, is also the person working with IDPF for EPUB*

Public Drafts Available Now:

- EPUB 3 EDUPUB Profile public draft 2 released Sep 8 <http://idpf.org/epub/profiles/edu/spec/>
 - Community feedback is encouraged
 - Spec will continue to develop through iterations
- “Satellite Specs” referenced in EDUPUB Profile:
 - Open Annotation in EPUB <http://idpf.org/epub/oa/>
 - EPUB Discrete Objects <http://idpf.org/epub/do/>
 - EPUB Widgets Packaging and Integration
 - <http://idpf.org/epub/widgets/>
- And from IMS: Using Caliper Analytics, QTI and LTI with EPUB 3: EDUPUB Best Practices: <http://www.imsglobal.org/edupub/index.html>

EDUPUB Alliance: Roadmap ahead



EDUPUB 2014

Finalize current specification deliverables

Work on OSS implementations (Radium, other)

EDUPUB 2015...

Gather input from community on EDUPUB 2014 feature set

Identify critical next steps & who needs to be involved

EDUPUB Implementation Workshop: Phoenix Feb 2015