

Package Delivery - Need for a standard?

Exeter Premedia Services



Requirement?



Publishers need to submit finalised manuscripts and/or publication-ready content to multiple third-party entities

Hosting platforms such as HighWire, Atypon, Ingenta, Silverchair, etc.

Content aggregators like PubMed, CrossRef, Thomson, Ovid, etc.













Challenge?



Differing requirements: leading to repetitive effort

- Each of these entities has their own requirements regarding the manner and format in which content is to be deposited with them
- These requirements around which their systems are built include the DTD, package structure, naming convention of assets (figures, videos, etc.), format of those assets, file types and file sizes.

Lack validation mechanisms: leading to delays

- Service providers, if any, need to be evaluated and certified by hosting solution providers
- If an error is discovered post-submission, then the removal/replacement of content by the host incurs a penalty
- Know-how, once acquired, may be lost due to staff turnover

New repository requirements: leading to extra cost

- Each time a new repository is added, publishers need to understand the requirements of the new entity and set-up a process to ensure the package meets the criteria defined by the provider
- Understanding various formats is a challenge for publishers and it involves time, effort and cost



Lack of a standard is the underlying cause



Despite having XML-converted output, depositing to different entities involves manual effort due to lack of a standard.

This also results in a largely manual process with resources on both sides working to ensure high-quality submission.

Publishers have to deal with multiple online entities directly or via their **service providers** (to whom they may have outsourced this effort)

Delay Effort Cost Online repositories have a high volume of submissions. Any deviation from their prescribed norms involves additional effort



Proposed solution



Automation of the online package creation process

Validate input	Transform data	Generate package(s)	Deploy or deposit
 Validate input against proposed standard(s) Validate XML against the DTD Probe the XML for data quality - based on publishers' requirements for content and semantics Validate assets (broken links, corruption etc.) 	 Transform XML as needed Convert images Rename assets 	 Update XML (with updated names of the assets) Organise assets into folders and link assets (as prescribed by the repository) 	 Upload to online repositories Send confirmation to publishers
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Overview of the solution



Inputs required





Article zip

Article zip and Issue zip with files separated into -

- Article XML in JATS 1.0/1/2* -DOI.xml
- Web PDF of article(s) in the issue -DOI.PDF
- Assets folder for figures, videos, supplementary files, appendices etc. - DOI Assets

Specific naming conventions

Sample files will be provided

* Higher JATS versions and NTM 2.0/higher in future

Kriya online package creator

Validate package

Transform data

Generate package(s)

Deploy or deposit

Outputs & Outcomes



Package (1 per entity ready for upload to respective third-party entity)

Accurate and error-free
On-time (no delays)
Smooth and reliable process

- > Smooth hosting to third-party content aggregators (Atypon, Highwire, Silverchair, Ingenta, Libero etc.)
- > Smooth updation of external databases (PMC, Thomson, Crossref, Ovid etc.)





Eliminates need for knowledge of the different standards of the online repositories (by publishers)

Ensures quality of package delivered because of a reliable process

- First-time right, every time for existing set of online repositories
- Easy and smooth onboarding while adding a new hosting provider

Saves time and money by avoiding errors and delays



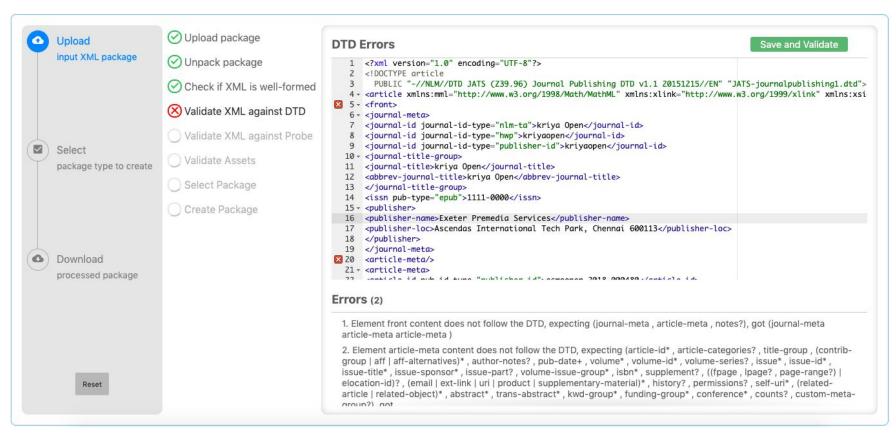


DEMO



Content validation

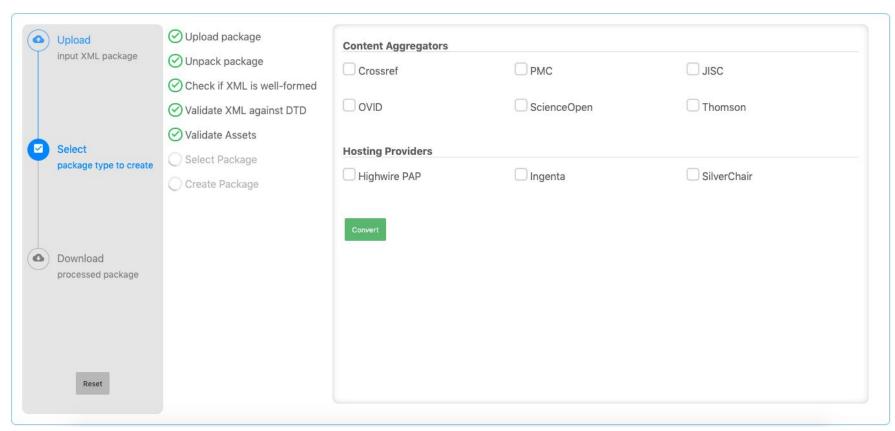






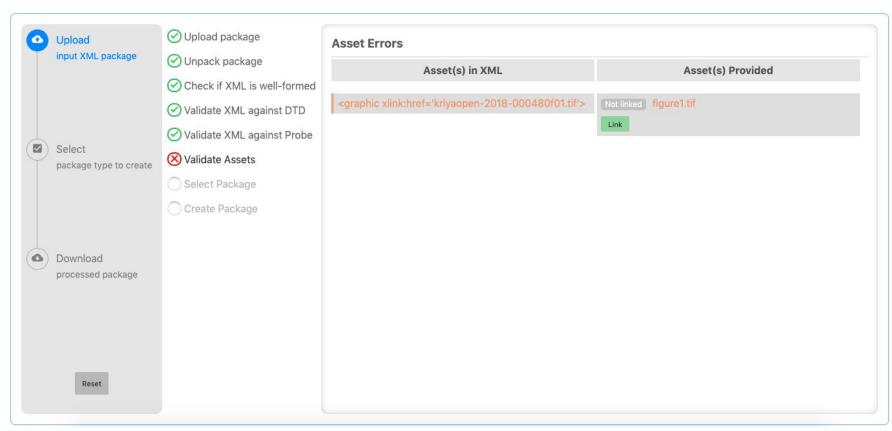
Multiple package formats





Asset validation





Roadmap



Alpha: May 2019

- Ability to create packages for journal articles
- Ability to create packages for journal issues
- Ability to create packages for books

Beta: June 2019

- Dashboard & Metrics
- Connectors to content aggregators/hosting providers
 - Direct uploads
 - Status updates
 - Setting embargoes
- Connectors to printers
 - Preflight checks
 - Flat plans

Go Live: September 2019

- Approval workflows
- Notifications & Alerts
- Ability to configure additional content aggregators/hosting providers/printers
- Support custom validation rules based on publisher requirements



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