

Manuscript Exchange Common Approach



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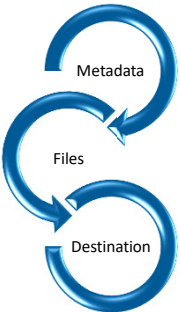
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Problem


- Authors are irritated at time, effort, **delays when re-submitting articles**
- Reviewers' time is wasted when **reviews are re-done or replicated**
- New publication flows demand **transfers to/from preprint servers**
- Each workflow system has to **implement separate interfaces** to each other system – inefficient to work 'pairwise'


Opportunity

- A common approach to moving manuscripts solves the above use cases and can also solve some additional workflow problems!
- ***All we need is for a group of competitors to collaborate!***



- A group of vendors and publishers
 - Aries: Editorial Manager
 - Clarivate Analytics: Scholar One
 - eJournalPress: eJPress
 - HighWire: BenchPress
 - PLOS
- Develop a common approach
 - Not software, not a central service, not a database
 - Recommended best practices
 - Non-proprietary, CC-BY
- Hope for wide adoption
 - National Information Standards Organization (NISO) – Project approved March of 2018 and Working group established





Principles

- **Journals & authors set the rules on what transfers... not MECA**
- **Seamless transfer between publications and platforms... but not necessarily a complete submission**
- Define minimal required data for transfer
 - **The data needed to *start* a submission**
- Define MVP (Minimal Viable Product)
 - **Get going now**, but build for future use cases
- Protocol based on best practices and industry standards
 - Low barriers to entry to use MECA
- **Recommendations, not code**
 - **No hub, no software, no service**
 - **Not like Crossref or ORCID; no tracing of manuscripts**

Use Cases – Manuscript Transfer Across Boundaries

- **Journal**
 - Submission System to Submission System (primary)
- **Preprint**
 - Preprint System to/from Submission System (primary)
- **Syndication: Import from ...**
 - Authoring Systems to Submission System (primary)
- **Syndication: Export to ...**
 - Submission System to Various Services (secondary)

Project Area - Packaging

- **Goal:** simple, flexible, standard way to **assemble files**
- Zip File
- One manuscript per zip file
- Package contains:
 - **Manifest.xml** * (new DTD for file manifest)
 - **Transfer.xml** * (new DTD for source/destination, contact, and security information)
 - **Article.xml** (JATS-compliant)
 - **PeerReview.xml** (optional - JATS-like)
 - Source files

* Required Item

Project Area – Transfer Information

- **Goal:** To be able to pass **transfer information** from system to system
 - Source Information
 - Service Provider
 - Contact Information
 - Publication Type, Title, Acronym
 - Destination Information
 - Service Provider
 - Contact Information
 - Publication Type, Title, Acronym
 - Security Information
 - Authentication Code
 - Processing Instructions
- **Transfer.xml** (new DTD)

Project Area – Submission Metadata

- **Goal:** To be able to pass **submission information** from system to system
- **Article.xml** (file in JATS format – Green DTD compliant)
- Defines minimal required data*
- Only the highest revision of the submission is written to the XML
 - Article Identifiers (Manuscript Number, UUID, DOI)
 - Article Title *
 - Article Type, Category, Classifications, Keywords
 - Corresponding Author* and Co-Authors (with affiliations)
 - Related articles, Preprints
 - Funding Information, Custom Metadata
 - Figures, tables, supplementary material

Submission Metadata – JATS XML

```

<!DOCTYPE article PUBLIC "-//NLM//DTD JATS (Z39.96) Journal Archiving and Interchange DTD v1.2d1 20170631//EN"
"https://jats.nlm.nih.gov/archiving/1.2d1/JATS-archivearticle1-mathml3.dtd">
<article dtd-version="1.2d1" article-type="Original Study">
  <front>
    <article-meta>
      <article-id pub-id-type="manuscript">DEMO1234</article-id>
      <article-id pub-id-type="doi">10.1234/91.1191023</article-id>
      <article-categories>
        <sub-group sub-group-type="Article Type">
          <subject id="custom_id_value">Rapid Communication</subject>
        </sub-group>
        <sub-group sub-group-type="Category">
          <subject>Medical Sciences</subject>
        </sub-group>
        <sub-group sub-group-type="Classification">
          <subject vocab-term-identifier="100.1">Medical Sciences</subject>
          <subject vocab-term-identifier="100.1.3">Anatomy and Pathology</subject>
        </sub-group>
      </article-categories>
      <title-group>
        <article-title>This is the article full title</article-title>
        <alt-title alt-title-type="running-head">This is where the short title or running title goes</alt-title>
      </title-group>
      <contrib-group> </contrib-group>
      <ext-link specific-use="Custom_Metadata_ID" xlink:href="my manuscript.docx" xlink:title="description of the file"/>
      <history />
      <abstract><p>This is the manuscript abstract as a separate field outside of the word doc</p></abstract>
      <kw-group> </kw-group>
      <funding-group> </funding-group>
      <funding-group> </funding-group>
      <counts> </counts>
      <custom-meta-group> </custom-meta-group>
    </article-meta>
  </front>
</body />
</article>

```

Project Area – Peer Review Data

- **Goal:** To be able to pass **review information** from system to system
 - Questions/Answers
 - Ratings
 - Comments
 - Annotations
 - Red lines / Marked up files
- **Privacy**
 - Reviewer names/contact information can be redacted
 - Based on sending journal's privacy policy
- **Reviews.xml** (file is similar to JATS)
 - JATS does not support review information
 - Multiple reviews & revisions in one file

Peer Review – Sample XML

```

<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE review-group SYSTEM "reviews.xsd">
<review-group>
  <version revision="0">
    <reviews>
      <review type="review">
        <history>
          <date date-type="completed" iso-8601-date="2018-02-28">
            <year>2018</year>
            <month>2</month>
            <day>28</day>
          </date>
          <date date-type="due" iso-8601-date="2018-02-14">
            <year>2018</year>
            <month>2</month>
            <day>14</day>
          </date>
          <date date-type="assigned" iso-8601-date="2018-01-29">
            <year>2018</year>
            <month>1</month>
            <day>29</day>
          </date>
        </history>
        <contrib-group>
          <contrib contrib-type="reviewer">
            <role content-type="1" />
            <name>
              <surname>Reviewer</surname>
              <given-names>Bob</given-names>
              <prefix>Dr.</prefix>
            </name>
            <contrib-id contrib-id-type="orcid" authenticated="true">1234-0052-2141-3325</contrib-id>
            <degrees>PhD</degrees>
            <email>BReviewer@mit.edu</email>
            <xref ref-type="aff" rid="aff1" />
          </contrib>
        </contrib-group>
      </review>
    </reviews>
  </version>
  <review-item-group>
    <review-item review-item-type="recommendation">
      <review-item-question sequence-number="">
        <title>Recommendation Term</title>
        <alt-title/>
        <text/>
      </review-item-question>
      <review-item-response is-confidential="Yes">
        <text>Reject and Transfer</text>
      </review-item-response>
    </review-item>
    <review-item review-item-type="comments">
      <review-item-question sequence-number="">
        <title>Comments to Editor</title>
        <alt-title/>
        <text/>
      </review-item-question>
      <review-item-response is-confidential="Yes">
        <text>This is a great paper but not for this journal.</text>
      </review-item-response>
    </review-item>
    <review-item review-item-type="comments">
      <review-item-question sequence-number="">
        <title>Comments to Author</title>
        <alt-title/>
        <text/>
      </review-item-question>
      <review-item-response is-confidential="No">
        <text>Nice job but needs some work.</text>
      </review-item-response>
    </review-item>
  </review-item-group>

```

Project Area - Identity

- **Goal:** Unique, **consistent identity** across systems
- Unique identifier
 - When manuscripts are passed from system to system
 - Article number, but not journal specific
- DOI was considered
 - Need for something without a DOI 'prefix' or implied source
- Universally unique identifier - UUID
 - Type 1
 - Date, time, MAC Address, random number
 - d6bf8782-30f7-4cd7-82a8-94ff62352ac4
 - Guarantees no collisions across vendors
 - Support found in many standard coding libraries

Project Area - Transmission

- **Goal:** Simple, consistent way to **send the information** across systems
- SFTP
 - Phase 1
 - Asynchronous
- Potential future development – move to API (REST, SWORD)
 - Provide status message to sender
 - Synchronous
 - Influenced by specific use cases

 **Editorial Manager**[®]

 **ProduXion Manager**[®]

 **Task Manager**

and MECA



EM/PM – Manuscript Transfer Across Boundaries

- **Journal**
 - Editorial Manager journal transfers to a journal on another peer review system
 - A journal on another peer review system transfers to an Editorial Manager journal
- **Preprint**
 - Editorial Manager/ProduXion Manager to Preprint server (using Task Manager or ProduXion Manager SFTP)
- **Syndication: Export to ...**
 - Editorial Manager/ProduXion Manager to Various Services (using Task Manager or ProduXion Manager SFTP)



EM/PM – Manuscript Transfer Across Boundaries

- **Looking into the Future**
 - NISO Recommended Practice to be issued
 - Preprint server to Editorial Manager (when NISO Recommended Practice available)
 - Add support for additional types of transfer



Thank You!

