

How Does JATS 1.2 (in vote) Differ From JATS 1.1?

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Status of JATS 1.2

An update

- Standing Committee vote
- NISO membership vote
- ANSI vote

New Elements

New Article Metadata

Article Current Version Status or Number

<article-version>

- **Rationale:** Many articles “published” more than once
 - preprints
 - continuous maintenance
 - revised article
- **Content:** One status type, version number, lifecycle stage, etc.
- **Caution:** JATS is agnostic about the exact definition of “version”

```
<article-version
  @article-version-type="preprint">XJDAL-pre-34752</article-version>
```

```
<article-version
  vocab="JAV"
  vocab-identifier="http://www.niso.org/publications/rp/RP-8-2008.pdf"
  article-version-type="VoR"
  vocab-term="Version of Record">version-of-record</article-version>
```

Publication History

<pub-history>

- **Rationale:** Publishing history of an article used to be <date>s for received/accepted/published.
Things can be more complicated now.
- **Content:** Not just the date of an event, but description of it in a new <event> element
- **Usage:** Keep the publishing history with the XML of the article, not in a production database

Events

```
<event>
  <event-desc>The first version of this work was submitted
  to Journal A and rejected because "the subject matter
  is outside the editorial scope of the journal"</event-desc>
  <date date-type="submitted" iso-8601-date="2015-01-29">
    <day>29</day><month>01</month>
    <year>2015</year>
  </date>
  <date date-type="rejected" iso-8601-date="2015-02-15">
    <day>15</day><month>02</month>
    <year>2015</year>
  </date>
  <self-uri
    xlink:href="http://journala.puba.com/preprints/abcd12390"
    content-type="preprint" />
</event>
```

```
<event>
  <event-desc>A slightly reworked manuscript of this
  article was accepted at Journal B</event-desc>
  <date date-type="submitted" iso-8601-date="2017-03-03">
    <day>03</day><month>03</month>
    <year>2017</year>
  </date>
  <date date-type="accepted" iso-8601-date="2017-06-15">
    <day>15</day><month>06</month>
    <year>2017</year>
  </date>
  <self-uri
    xlink:href="http://journalB.pubB.com/preprint/abrft6789"
    content-type="preprint" />
</event>
```

Publication Date Not Available Flag

`<pub-date-not-available>`

- **Rationale:** Folks put in EMPTY publication date in Blue because `<pub-date>` element is required
- **Content:** EMPTY element, just a flag
- **Usage:** Either
 - put in a `<pub-date>`, or
 - put in a `<pub-date-not-available>`

Non-monetary Funding Information

- **Rationale:** JATS metadata `<funding-group>` describes funding sources, awards, contracts, principles, etc
- But not all support is *money*:
 - facilities
 - computer time
 - data sets provided
 - photographic processing
 - deep sea sampling

Structures to describe non-monetary support added

Grouping Element for Both Kinds of Funding

<support-group>

- Container for all support (money *and* other)
- Contains
 - <funding-group> (describes money support)
 - <contributed-resource-group> (describes resources support)

... inside metadata ...

```
funding-group*
support-group
  funding-group*
  contributed-resource-group*
```

Inside metadata, <funding-group> is peer of <support-group> for backwards compatibility

<contributed-resource-group> Parallels

<funding-group>

- Both may contain award groups
- Both may contain human readable statements
- <contributed-resource-group> also includes resource descriptions

```
funding-group*
  award-group*
  funding-statement*
  open-access*
contributed-resource-group*
  award-group*
  support-description*
  resource-group*
```

Other New Elements

Inline Index Terms (to generate index) (model adopted from BITS)

- Term embedded in the text; programs generate indexes
- Attribute @index-type allows for multiple indexes
- An <index-term> contains:
 - a **term** (maybe nothing else)
 - maybe **See entries**
 - maybe **See-Also entries**
 - maybe a lower-level index term

<p>However, the First Amendment does not bar the issuance or execution of a warrant to search a newsroom <index-term><term>Newspapers</term><see-also>Speech and press</see-also></index-term> to obtain photographs of demonstrators who had injured several policemen, although the Court appeared to suggest ...</p>

Inline Media

<inline-media>

Description of/pointer to external media object file

(a pronunciation file for a word or character)

- Relates to <media> as <inline-graphic> does to <graphic>
- Same model as <inline-supplementary-material> (face markup, accessibility, links)
- Takes optional linking and vocabulary attributes

```
<p>Again she called on <inline-media id="celtic-name-hafgan"
content-type="pronunciation" mimetype="audio" mime-subtype="mp3"
xlink:href="http://celtic.cmrs.ucla.edu/csana/pronunciation/hafgan.mp3"
vocab="CSANA Pronunciations for Celtic Texts"
vocab-identifier="http://celtic.cmrs.ucla.edu/csana/pronunciation.html">
Hafgan</inline-media>, to see if he would ...</p>
```

Changed Content Models

<contrib> Model Changed

- Added <string-name> to <contrib>
- So a name may be given as:
 - anonymous
 - collab
 - collab-alternatives (several versions of one collaboration)
 - name
 - name-alternatives (several versions of one name)
 - string-name

Attributes

<role> takes Vocabulary Attributes

- @vocab — vocabulary name (taxonomy, ontology, database)
- @vocab-identifier — pointer to vocabulary (URI or DOI)
- @vocab-term — canonical form of free form prose content
- @vocab-term-identifier — pointer to term in vocabulary (URL, item number)

<role> also takes @degree-of-contribution

- Contributor level of contribution
- Values are unconstrained, but expected values (particularly for CRediT roles) are:
 - Lead — Contributor was one of the lead contributors
 - Supporting — Contributor was one of the supporting contributors, not a lead
 - Equal — Contributor was neither a lead nor a supporting contributor, all contributors were equal
- Attribute *not* intended for numerical values

```
<contrib>
  <string-name><given-names>Barbara</given-names> <surname>Johnston</surname>
</string-name>
  <role degree-contribution="lead"
  vocab="CRediT"
  vocab-identifier="http://dictionary.casrai.org/Contributor_Roles"
  vocab-term="Conceptualization"
  vocab-term-identifier=
    "http://dictionary.casrai.org/Contributor_Roles/Conceptualization"
  study designer</role>
</contrib>

<contrib><string-name>Bonnie Blair</string-name>
  <role degree-contribution="lead"
  vocab="CRediT" vocab-term="Data curation"
  vocab-term-identifier=
    "http://dictionary.casrai.org/Contributor_Roles/Data_curation"
  >Data Curation</role>
</contrib>
```

Assigning Authority Attribute

@assigning-authority

- Names organization/system that administers or is otherwise responsible for (has authority over) an identifier
- Typical examples include:
Crossref, OCLC, GenBank, Ringgold, PDB, Figshare, and ORCID
- The type of identifier (such as a DOI) recorded using a “-type” attribute such as @pub-id-type or @contrib-id-type

@assigning-authority Available for

- <article-id>
- <contrib-id>
- <ext-link>
- <institution-id>
- <issue-id>
- <journal-id>
- <object-id>
- <pub-id>
- <volume-id>

@pub-id-type

- Current value of @pub-id-type may hold *either* a
 - type-of-identifier (“doi”), or
 - authority-for-identifier (“figshare”)
- Now you can say *both* by using:
 - @pub-id-type to say what kind of ID (DOI, URL)
 - @assigning-authority to say whose identifier (Crossref, Figshare, GenBank, whoever)

```
<element-citation publication-type="journal">...  
<pub-id  
  pub-id-type="doi"  
  assigning-authority="figshare"  
>10.6084/m9.figshare.939408</pub-id>  
</element-citation>
```

@style-type Attribute

- Western emphasis (bold, italic) cannot describe some non-Latin languages
- In Japanese, authors use emphasizing marks associated with a Japanese character called, “Kenten” (dots or sesamis)
- The JATS solution: Added attribute @style-detail
 - to the <styled-content> element
 - used in conjunction with the @style, @style-type, @specific-use
 - provides 3 pieces of styling information

```
<styled-content specific-use="emphasis"
  style="sesami"
  style-type="dot"
  style-detail="open" >some content...</styled-content>
```

@use-type

How was the Cited Data used?

- Used on a citation <mixed-citation> or <element-citation>
- Talks about use of cited material with suggested values:
 - generated-data
 - analyzed-data
 - non-analyzed-data

Warning: This may be material that only authors know, that may not be stated in the text currently.

```
<mixed-citation
  publication-type="data"
  use-type="generated-data">...
</mixed-citation>
```

And Lots More Little Stuff

- All backwards compatible
- Too many to mention in 15 minutes!

More details at https://groups.niso.org/apps/group_public/download.php/20333/NISO-JATS-1-1-to-1-2.pdf