**BOOK XML in BITS\***

\*In BITS, every publication is called a book – regardless of whether it is an actual book or not. In this context, “book” is used to refer to a broad range of publication types, such as: **proceeding, nondiv\_book, div\_book, tech\_report, d\_thesis, m\_thesis, rfc, play\_drama, bibliography, encyclopedia**

If the publication is one of the above, then its metadata must be created in BITS format (by contrast, all periodicals must be in JATS – more on this in separate documentation). Following are the elements of a BITS .xml file for ingestion by Literatum.

[File Structure and Naming](#_top)

First things first: Any submission to Literatum must be a zip file.

It should be named according to this scheme: title\_objectID\_datestamp-yyyymmdd.zip (e.g. acmconferences\_3343031\_20200131.zip, acmotherconferences\_3368567\_20200129.zip, dlproceedings\_3370272\_20200109.zip, guideproceedings\_3379957\_20200116.zip).

***Type of proceedings******Title***

*ACM-sponsored conference 🡪 acmconferences*

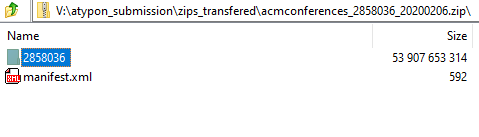
*ICPS conference 🡪 acmotherconferences*

*Non-ACM proc hosted with FT 🡪 dlproceedings*

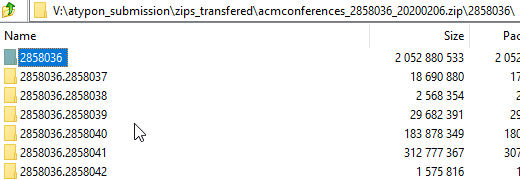
*Non-ACM proc indexed in “Guide” 🡪 guideproceedings*

The zip file must follow ***a very specific file structure***. Open one of our sample zip files and you’ll find…

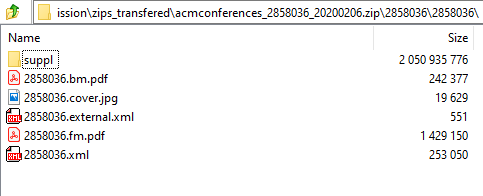
**Level 1** contains only 2 things – a folder named after the proceedings object ID, and a [manifest.xml](#additions):



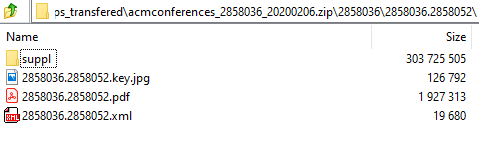
**Level 2** contains another folder named after the proceedings object ID, as well as a sub-folder for each article (named after the article’s unique DOI, of course):



**Level 3a** – the folder named after the proceedings DOI contains cover images, FM/BM files, [the main book .xml](#document), an [external.xml](#additions) and, occasionally, supplemental files:



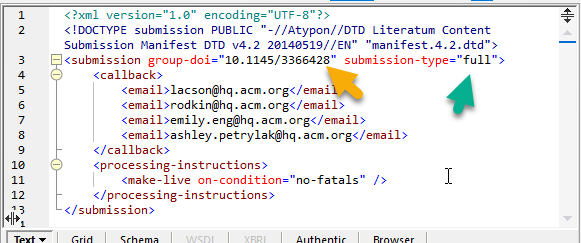
**Level 3b** – an individual article sub-folder contains all files related to that article (e.g. article.xml, PDF, image files, supplements):



[Two Small—but Vital!—Additions](#_top)

Every zip file submitted to Literatum should contain (1) a manifest and (2) an external .xml.

1. **manifest.xml**



Any of the sample manifest.xml’s provided will serve our purpose. *For the most part*, all you will need to customize is the DOI information. (For discussion at a later date: submission-type=“full” should be changed to submission-type=“partial” for the second+ part/s of a proceedings that is delivered in 2+ parts. As you know, a multi-part proceedings is still pretty rare.)

To schedule availability of the full text (PDFs, etc.), add the following text to the manifest.xml (see item in yellow); this particular example schedules full text availability for November 8, 2020 at 1AM (EST). You may change the date as necessary, but not the time – the time should always be 1AM (EST):

<processing-instructions>

        <make-live on-condition="no-fatals" at-time="2020-11-08T01:00-05:00"/>

     </processing-instructions>

1. **external.xml**

* When naming this file, “external.xml” must be preceded by the DOI (e.g. 3374920.external.xml)
* If you open one of the samples, you will find that this .xml does not contain much information either. But whatever is there is absolutely crucial, so please be very careful when filling this in:



* ACM-sponsored proceedings usually have OpenTOC and/or OpenSurround information (this is found in our CMS; any questions, please ask). For procs without OpenTOC or OpenSurround, you can just delete/omit those tags altogether.

**\*\*The manifest and external .xmls must be put in the *exact* places in the zip file as shown in the** [**File Structuring and Naming**](#structure) **portion of this document.**

[Outline of Main XML](#_top)

(Click on the hyperlinks for more information about each tag.)

[DOCTYPE](#doctype)

[ROOT](#root)

[Book Collections](#collections)

[Book Meta](#meta)

[book-id](#bookid)

[subj-group](#subjgroup)

[book-title-group](#booktitlegroup)

[contrib-group](#contribgroup)

[pub-date](#pubdate)

[isbn](#isbn)

[publisher](#publisher)

[edition](#edition)

[supplementary-materials](#supplements)

[pub-history](#history)

[permissions](#permissions)

[self-uri (front/back matter)](#fmbm)

[self-uri (full text)](#fulltext)

[abstract](#abstract)

[kwd-group](#keywords)

[funding-group](#funding)

[conference](#conference)

[counts](#counts)

[custom-meta-group](#custom)

[notes](#comments)

[Book Front](#front)

front-matter

toc

[Book Back](#back)

book-back

ref-list

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[**Doctype**](#document)**:**

<!DOCTYPE book PUBLIC "-//NLM//DTD BITS Book Interchange DTD with OASIS and XHTML Tables v2.0 20151225//EN" "BITS-book-oasis2.dtd">

[**Root**](#document)**:**

<book dtd-version="2.0" xml:lang="en" book-type="**BOOKTYPE**" xmlns:xlink="http://www.w3.org/1999/xlink" >

***ACM Object Type******BOOKTYPE***

*nondiv\_book 🡪 monograph*

*d\_thesis 🡪 thesis-doctoral*

*m\_thesis 🡪 thesis-masters*

*bibliography 🡪 reference-work*

*play\_drama 🡪 other*

*rfc 🡪 rfc*

*trech\_report 🡪 report*

*div\_book 🡪 edited-collection*

*proceeding 🡪 conference-proceedings*

*encyclopedia 🡪 reference-work*

\*The above table denotes an if/then relationship; for example, if the publication is a proceeding, then enter “conference-proceedings” as the booktype. Like so:

<book dtd-version="2.0" xml:lang="en" book-type="conference-proceedings" xmlns:xlink="http://www.w3.org/1999/xlink" >

[**Book Collections**](#document)**:**

<collection-meta collection-type="book-series">

<collection-id collection-id-type="doi">**DOI**</collection-id>

<title-group>

<title>**TITLE**</title>

</title-group>

</collection-meta>

***DOI TITLE***

*10.1145/acmconferences 🡪* [*ACM Conferences*](#type)

*10.1145/acmotherconferences 🡪* [*ACM Other Conferences*](#type)

*10.5555/dlproceedings 🡪* [*DL Proceedings*](#type)

*10.5555/guideproceedings 🡪* [*Guide Proceedings*](#type)

\*The above table denotes an if/then relationship; for example, if the DOI is 10.1145/acmotherconferences, then enter “ACM Other Conferences” as the title. Like so:

<collection-meta collection-type="book-series">

<collection-id collection-id-type="doi">10.1145/acmotherconferences</collection-id>

<title-group>

<title>ACM Other Conferences</title>

</title-group>

</collection-meta>

[**Book Meta**](#document)**:**

<book-meta>

<book-id book-id-type="acm-id">**ACM OBJECT ID**</book-id>

<book-id book-id-type="doi">**DOI**</book-id>

<book-id book-id-type="order-no">**ORDER NO (thesis)**</book-id>

[**Subject Groups**](#document)**:**

<subj-group subj-group-type="ccs2012">

<compound-subject>

<compound-subject-part content-type="code">**CONCEPT-ID**</compound-subject-part>

<compound-subject-part content-type="text">**CONCEPT-DESCR**</compound-subject-part>

<compound-subject-part content-type="weight">**SIGNIFICANCE**</compound-subject-part>

</compound-subject>

</subj-group>

<subj-group subj-group-type="conference-collections">

***If ICPS Proceeding:***

<compound-subject>

<compound-subject-part content-type="code">icpsproc</compound-subject-part>

<compound-subject-part content-type="text">ACM ICPS Proceeding</compound-subject-part>

</compound-subject>

***If part of conference taxonomy:***

<compound-subject>

<compound-subject-part content-type="code">**RM-CODE**</compound-subject-part>

<compound-subject-part content-type="text">**RM-TITLE**</compound-subject-part>

</compound-subject>

</subj-group>

<subj-group subj-group-type="acmsig">

<compound-subject>

<compound-subject-part content-type="code">**SIG-CODE**</compound-subject-part>

<compound-subject-part content-type="text">**SIG-NAME**</compound-subject-part>

<compound-subject-part content-type="percent">**SIG-PERCENTAGE**</compound-subject-part>

</compound-subject>

</subj-group>

<subj-group subj-group-type="acceptance-rates">

<compound-subject>

<compound-subject-part content-type="tract\_type">Main</compound-subject-part>

<compound-subject-part content-type="total\_submitted">**#SUBMITTED**

</compound-subject-part>');

<compound-subject-part content-type="total\_accepted">**#ACCEPTED**

</compound-subject-part>');

</compound-subject>

<subj-group>

<compound-subject-part content-type="tract\_type">**TRACT-TYPE**</compound-subject-part>

<compound-subject-part content-type="total\_submitted">**#SUBMITTED**

</compound-subject-part>');

<compound-subject-part content-type="total\_accepted">**#ACCEPTED**

</compound-subject-part>');

</subj-group>

</subj-group>

[**Book Title**](#document)**:**

<book-title-group>

<book-title>**BOOK-TITLE**</book-title>

<alt-title alt-title-type="acronym">**ACRONYM**</alt-title>

<subtitle>**BOOK-SUBTITLE**</subtitle>

</book-title-group>

[**Contributor Group**](#document):

<contrib-group>

<contrib contrib-type="**CONTRIB-TYPE**" id="**seq\_no**">

<contrib-id contrib-id-type="person\_id">**PERSON-ID**</contrib-id>

<contrib-id contrib-id-type="orcid\_id">**ORCID-ID**</contrib-id>

<name>

<surname>**LAST-NAME**<surname>

<given-names>**FIRST-NAME MIDDLE-NAME**</given-names>

<suffix>**SUFFIX**</suffix>

<aff>**AFFILIATION**</aff>

<email>**EMAIL**</email>

<role>**ROLE**</role>

</contrib>

</contrib-group>

***CONTRIB-TYPE*** *: author*

*editor*

*adviser*

*other*

*Note: PERSON-ID (e.g. P6983226, P6983227) is not a mandatory field. If the value is known, enter it; otherwise, delete this part.*

[**Publication Date**](#document)**:**

<pub-date date-type="publication">

<day>**DAY**</day>

<month>**MONTH (numeric)**</month>

<year>**YEAR**</year>

<string-date>**STRING DATE**</string-date>

</pub-date>

<book-volume-number>**VOLUME NUMBER**</book-volume-number>

[**ISBN** **(print and/or electronic)**](#document)**:**

<isbn content-type="13-digit">**13 DIGIT ISBN**</isbn>

**OR**

<isbn content-type="10-digit">**10 DIGIT ISBN** </isbn>

[**Publisher**](#document)**:**

<publisher>

<publisher-name>**PUBLISHER NAME**</publisher-name>

<publisher-name specific-use="publisher-id db-only">**PUBLISHER ID**</publisher-name>

<publisher-loc>**PUBLISHER CITE**</publisher-loc>

</publisher>

**[Edition](#document):**

<edition>**EDITION NO**</edition>

[**Supplements**](#document)**:**

<supplementary-material mimetype="**MIME-TYPE**" mime-subtype="**MIME-SUBTYPE**"

**specific-use="do-not-distribute"**

xlink:href="**SUPPLEMENTARY-FILENAME**">

<label>**DISPLAY-TEXT**</label>

<caption>**DESCRIPTION-OF-SUPPLEMENT**</caption>

</supplementary-material>

**[Publication History](#document)****:**

<pub-history>

<date date-type="received">

<day>**DAY**</day>

<month>**MONTH (numeric)**</month>

<year>**YEAR**</year>

</date>

<date date-type="accepted">

<day>**DAY**</day>

<month>**MONTH (numeric)**</month>

<year>**YEAR**</year>

</date>

</pub-history>

[**Permissions**](#document)**:**

<permissions>

copyright-year>**COPYRIGHT YEAR**</copyright-year>

<copyright-holder>**COPYRIGHT HOLDER NAME**</copyright-holder>

</permissions>

[**Frontmatter and Back Matter Files**](#document)**:**

<self-uri content-type="**FILETYPE**" xlink:href="**FILENAME**"

xmlns:xlink="http://www.w3.org/1999/xlink">**TEXT**</self-uri>

***FILETYPE****: fm-pdf*

*fm-html*

*bm-pdf*

*bm-html*

[**Full text**](#document)**:**

<self-uri content-type="**FILE-TYPE**"

xlink:href="**FILENAME”** **specific-use="do-not-distribute"**>**FILE-DESCR**</self-uri>

for magazine site – html:

<self-uri content-type="**CONTENT\_TYPE**"

xlink:href="**MAGAZINE-SITE-URL**"**”** **specific-use="do-not-distribute"**>**FILE-DESCR**</self-uri>

*FILENAME: <DOI>.FileType*

*Digital Editions should also have a self-uri tag*

*Other values of content-type/label are:*

*digital-edition Digital Edtion*

*external External*

*external-pdf PDF-Publisher Site*

*external-sale exernalsale*

[**Abstract**](#document)**:**

<abstract>

<p> …… </p>

<media content-type="video-teaser" xlink:href="embed link"

xlink:show="embed" position="float"/>

</abstract>

[**Keywords**](#document)**:**

<kwd-group>

<kwd>**KEYWORD**</kwd>

</kwd-group>

**[Funding Groups](#document):**

<funding-group specific-use="FundRef">

<award-group id="**UNIQUE AWARD ID e.g. award1**">

<funding-source id="**UNIQUE ID e.g. GS1**">

<institution-wrap>

<institution>**FUNDER NAME**</institution>

<institution-id institution-id-type="FundRef">**FUNDER DOI**</institution-id>

</institution-wrap>

<award-id rid=" **UNIQUE ID e.g. GS1**">**GRANT NO**</award-id>

</award-group>

</funding-group>

[**Conference Info**](#document)**:**

<conference>

<conf-date iso-8601-date="**MM/DD/YYYY**">

<day content-type="start-day">**START DAY-DD**</day>

<month content-type="start-month">**START MONTH-MM**</month>

<year content-type="start-year">**START YEAR-YYYY**</year>

<day content-type="end-day">**END DAY-DD**</day>

<month content-type="end-month">**END MONTH-MM**</month>

<year content-type="end-year">**END YEAR-YYYY**</year>

</conf-date>

<conf-name>

<ext-link ext-link-type="url" xlink:href="**URL**">**CONF ACRONYM**</ext-link>**: CONF NAME**

</conf-name>

<conf-loc>

<city>**CITY**</city>

<state>**STATE**</state>

<country>**COUNTRY**</country>

</conf-loc>

<conf-sponsor id="**ATYPON SPONSOR ABBR**" **specific-use="sponsor"**>

<abbrev>**SPONSOR-ABBR**</abbrev>**SPONSOR-NAME**</conf-sponsor>

<conf-sponsor id="**ATYPON SPONSOR ABBR**" **specific-use="in-coop"**>

<abbrev>**SPONSOR-ABBR**</abbrev>**SPONSOR-NAME**</conf-sponsor>

<conf-acronym>**CONFERENCE ACRONYM**</conf-acronym>

</conference>

**[Counts](#document):**

<counts><book-page-count count="**TOTAL-PAGES**" /></counts>

*Or*

<counts>

<book-page-count count="**TOTAL-PAGES**" >**PAGES**, addit. pages **ADDITIONAL PAGES**

</book-page-count>

</counts>

[**CUSTOM DATA – Linking to CMS**](#document)**:**

<custom-meta-group>

<custom-meta>

<meta-name>cms\_conf\_id</meta-name>

<meta-value>**CMS-CONFERENCE-ID**</meta-value>

</custom-meta>

<custom-meta>

<meta-name>proc\_id</meta-name>

<meta-value>**CMS-PROCEEDING-ID**</meta-value>

</custom-meta>

</custom-meta-group>

**[Editorial Comments – Public](#document)****:**

<notes notes-type="public"><p>**COMMENTS**</p></notes>

</book-meta>

[**BOOK FRONT (TOC)**](#document)

<front-matter>

<toc>

***Article directly linked***

<toc-entry>

<title>**TITLE**</title>

<subtitle>**SUBTITLE**</subtitle>

<nav-pointer-group>

<nav-pointer>

<ext-link ext-link-type="doi">**DOI**</ext-link>

</nav-pointer>

<nav-pointer content-type="label" specific-use="**article-no**">**ARTICLE NO**

</nav-pointer>

</nav-pointer-group>

</toc-entry>

***section***

<toc-div>

<toc-title-group>

<label>**SECTION-TYPE**</label>

<title>**SECTION-TITLE**</title>

</toc-title-group>

*Write section authors – see* [*contrib-group*](#contribgroup) *above*

<p content-type="abstract">**SECTION ABSTRACT**</p>

<toc-entry>

<title>**TITLE**</title>

<subtitle>**SUBTITLE**</subtitle>

<nav-poiner-group>

<nav-pointer>

<ext-link ext-link-type="doi">**DOI**</ext-link>

</nav-pointer>

<nav-pointer content-type="label" specific-use="**article-no**">**ARTILCE NO**

</nav-pointer>

</nav-poiner-group>

</toc-entry>

</toc-div>

</toc>

</front-matter>

[**BOOK BACK (References)**](#document)

<book-back>

<ref-list specific-use="do-not-distribute unparsed">

**OR**

<ref-list specific-use="unparsed">

<ref id="**REF-ID**">

<label>**REF-LABEL**</label>

<mixed-citation>

**REF-STRING**

***If ref doi is known***

<pub-id pub-id-type="doi" xlink:href="**REF-DOI**"

assigning-authority="crossref">**REF-DOI**</pub-id>

***if ref resolved by Parity***

<pub-id pub-id-type="doi" xlink:href="**DOI of DL Page**" />

</mixed-citation>

</ref>

</ref-list>

</book-back>

</book>

*\*Instructions for preparing BITS .xml for individual articles will be in separate documentation entitled, “articleXML\_instructions.doc.”*