

#### #EEMUG2020

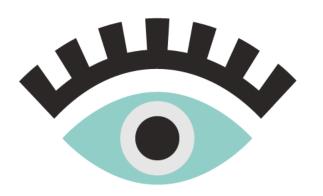
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# LiXuid Manuscript

Update and demonstration



#### **#EEMUG2020**

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#### Aiming for XML-First

So why are we doing this?

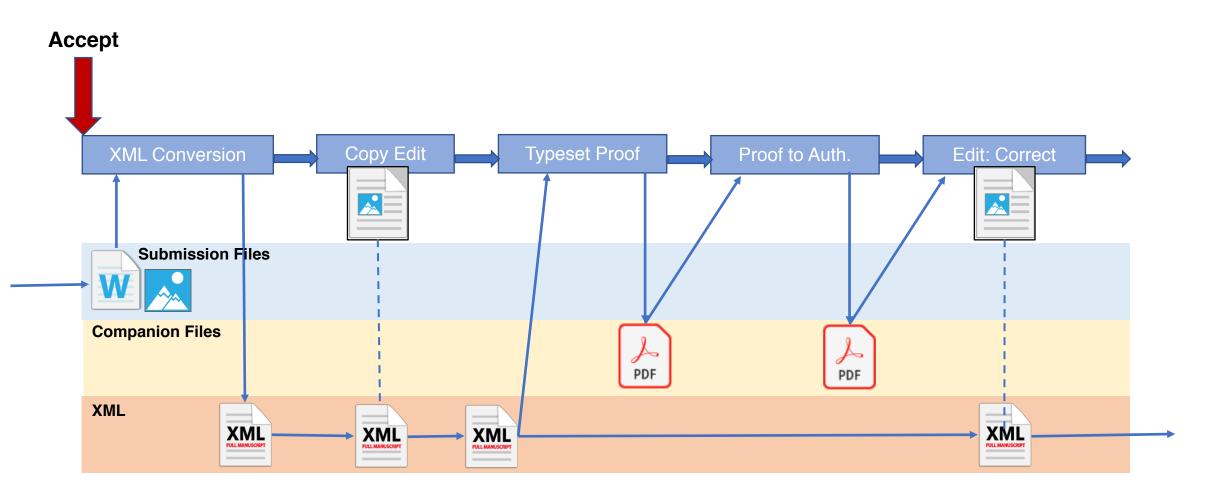


# What is an 'XML-First' workflow?

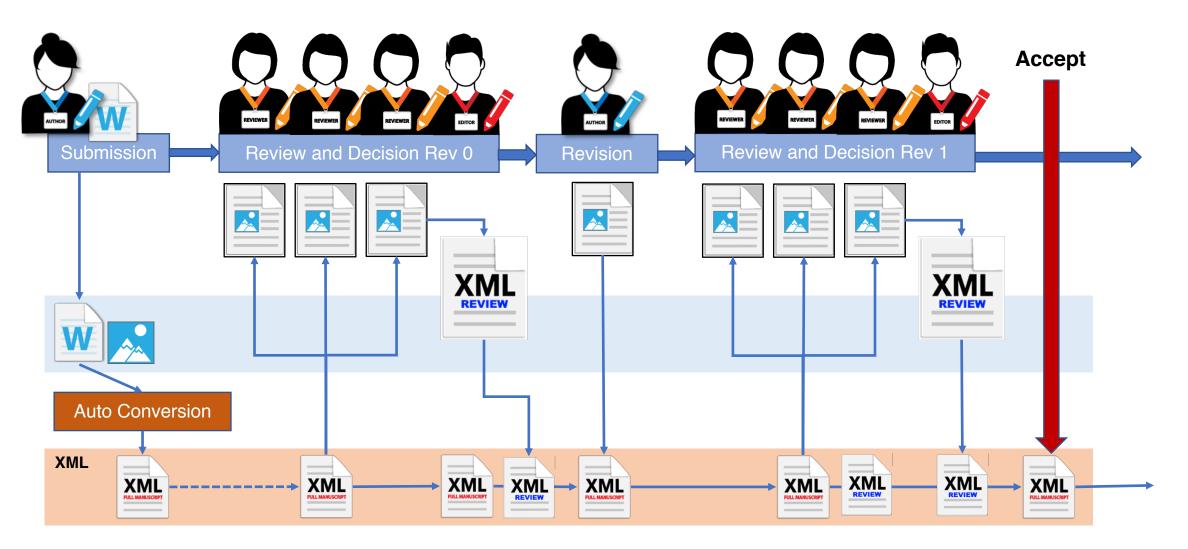
- In Production: base document files are XML throughout
  - Conversion after Acceptance
  - All outputs based on processing/rendering XML
  - Corrections made to XML. Usually by expert, 3<sup>rd</sup> party operators
- For Peer-Review/Editorial: the same, only sooner
  - MS is rendered into XML format 'around' submission
  - So uses XML to represent the MS throughout Review process



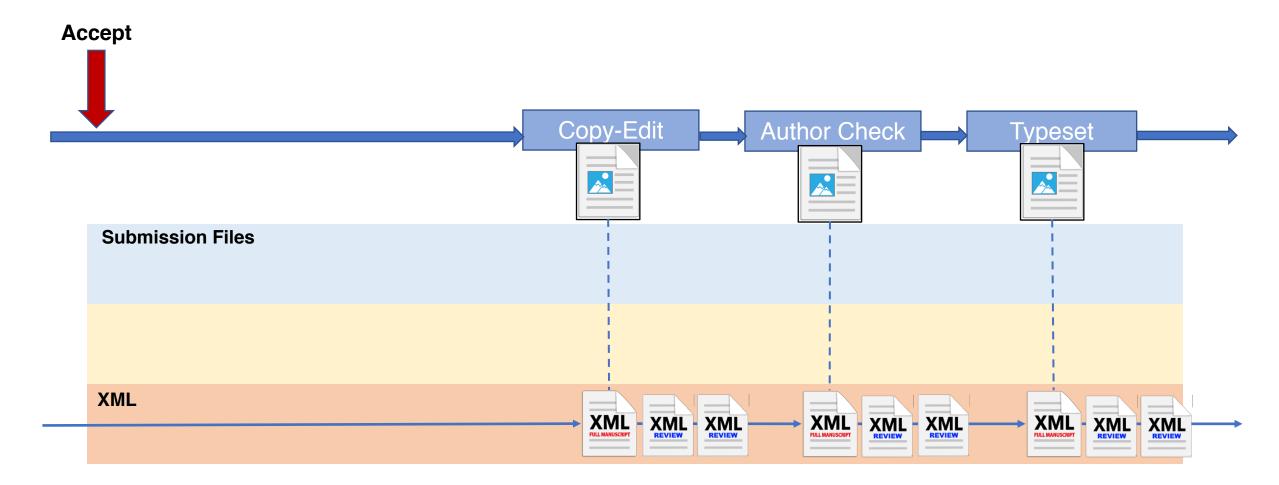
# XML-First in Production (typically)



#### **XML-First in Peer Review**



#### XML-First Editorial *through* Production (ideally)



# Aries' Roadmap

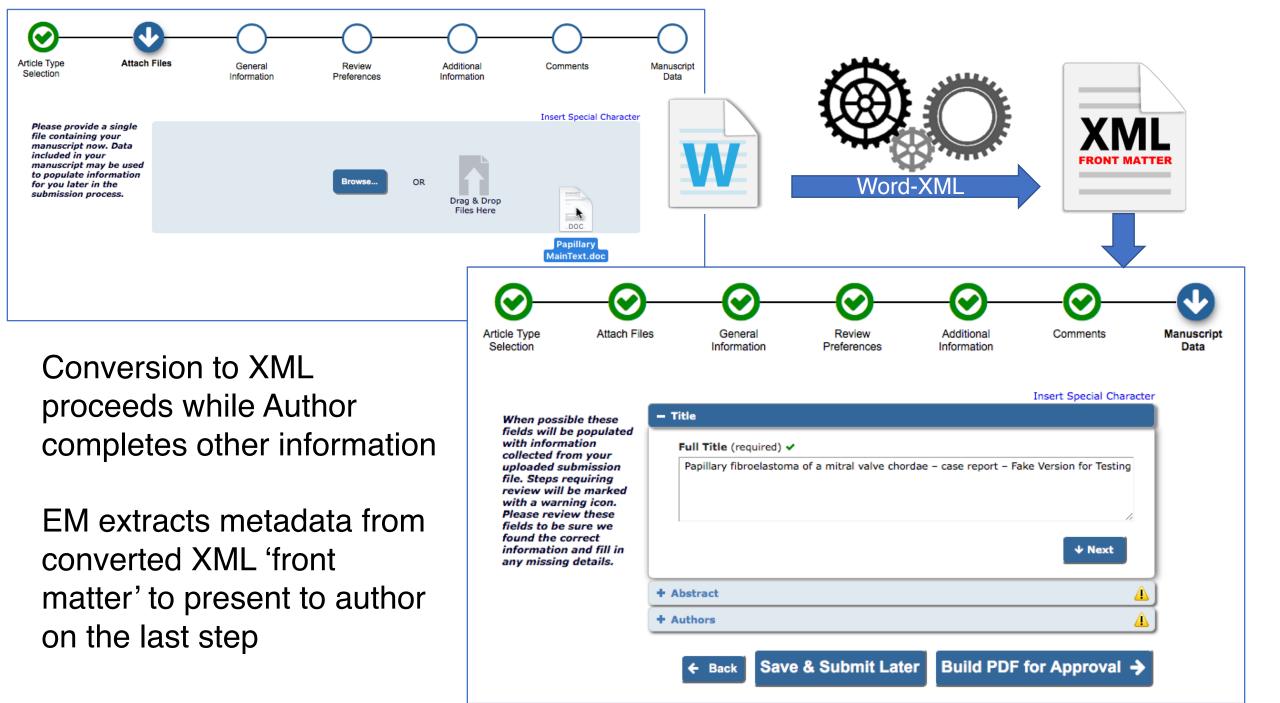
- Phase 1 done! Front Matter conversion to XML
  - Used for metadata extraction during submission
  - Live for some time
- Phase 2 in development. Production-oriented Tasks
  - But TaskManager will allow pre-Production use if you want
  - Ongoing development and testing of new tools
- Phase 3 Future Plans. Bring into Peer-Review



#### Phase 1

All done!





#### Phase 1 Goals Achieved

- Improved Submission Process
  - Better look-and-feel (not specific to LiXuid)
- Submission Process ready for Phase 3
  - Redesigned Process includes a conversion step
  - Ready to replace Metadata-only conversion with Full-text conversion



#### Phase 2

XML in ProduXionManager/ TaskManager Workflows



# New 'XML Tool' Tasks to cover key processes

- Transforming, Validating and Importing XML ('Process' Task)
  - Custom transforms for converting XML (e.g. to/from Aries XML)
  - Validating to Aries or non-Aries XML DTDs (structure)
  - Applying Schematron Rules (structure and content)
- Sending XML to third parties (any Task)
  - Any Task can send out Companion File XML or Aries XML
- Online Editing of the full document text in EM ('XML Editing' Task)
  - By content experts; we hide the XML
  - Requires Aries XML file
- 'Full-Text Conversion' Task
- Page makeup/layout ('AutoPagination')



# Aries XML?

- XML Files can be handled as Companion Files
- But LiXuid MS adds new 'Aries XML' file stream
- Specific XML format
  - Subset of JATS
  - Allows us to develop internal tools that expect this format

#### File Inventory



Aries XML – special XML file stream per submission





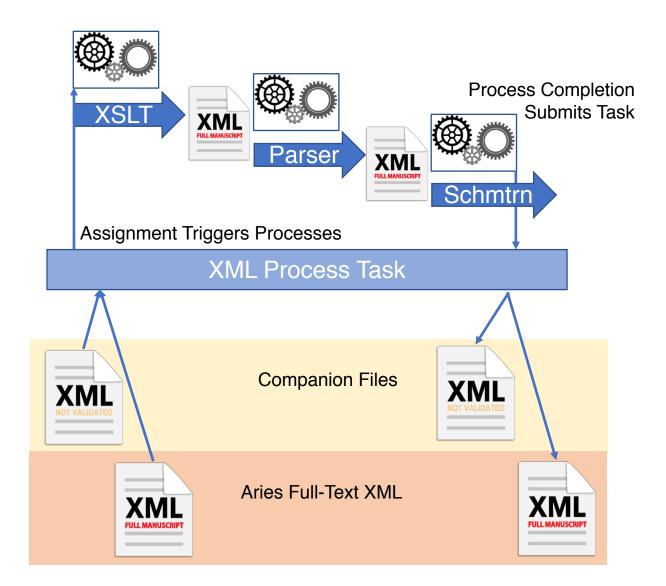
#### Custom XML Processing Task

For any XML file



# **XML Process Task**

- Supports up to three Custom processes in sequence:
  - Transform (using XSLT)
  - Validation (e.g. to DTD)
  - Schematron validation 'content rules'
- Can process:
  - Non-Aries XML Companion File
  - Aries XML File
- Result can be:
  - Left as Companion File
  - Validated to replace Aries XML File





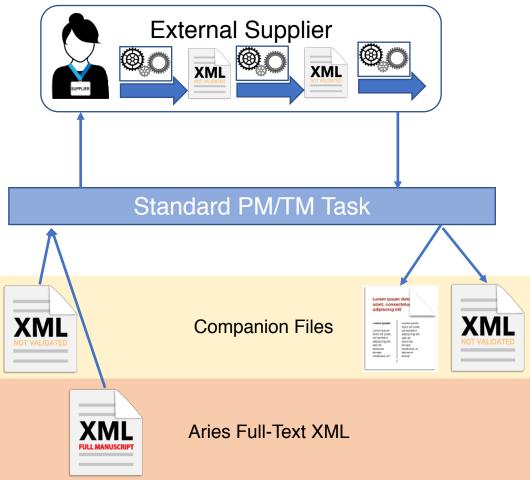
#### Aries XML Export

Available for any task



# XML Transfer, any Task

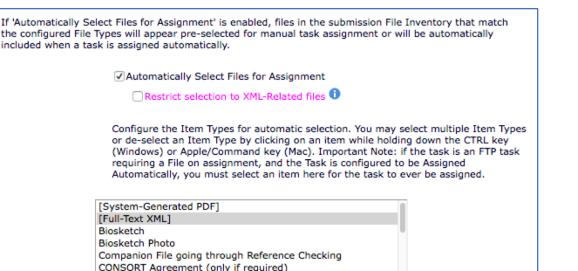
- Export Aries JATS XML to 3<sup>rd</sup> parties
  - If your supplier can use it directly
- Or send a Non-Aries XML Companion File, as now
  - Option to Automate this selection
- For whatever purpose
  - To get more XML back
  - Or to e.g. Typeset proofs from it
- Use a Process Task to 'Round-Trip' Aries XML with a 3<sup>rd</sup> Party.





# Aries XML as an Assignment File

- Aries XML selectable for any Task Assignment.
- Or configurable under Automatic Assignment File Selection
- Or you can use Companion Files in XML format

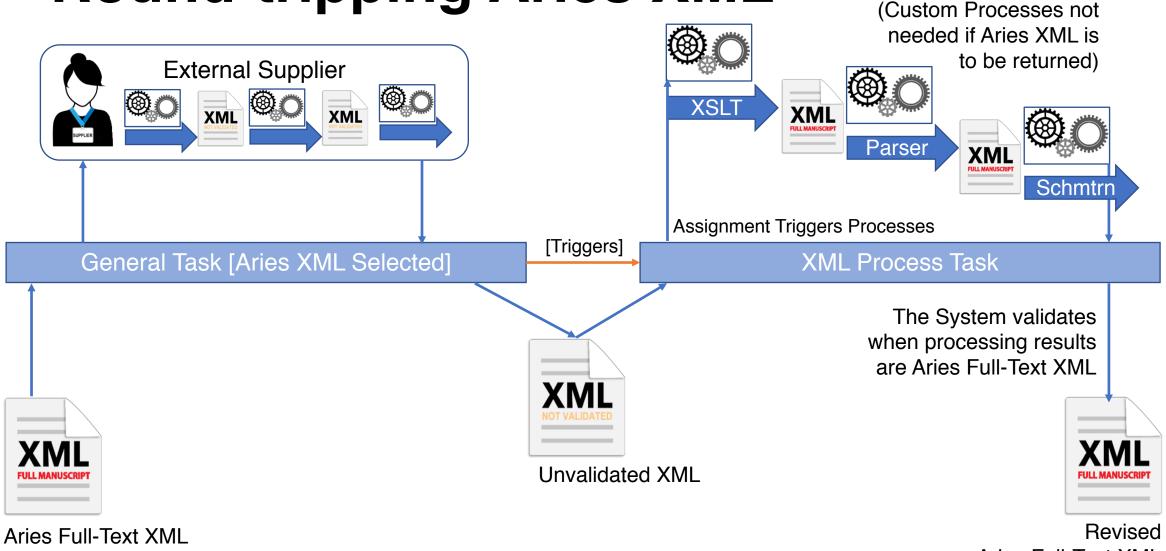


Contributions of Authors Form

[	Submission Files									
	Item		Item Family	File Name	File Reference	Size	Last Modified	QC Results	Use in XML	Allow Download
		PDF						N/A	✓	0
	Full-Text XML	XML		AJO_AJO-04-1344.xml		429.5 KB	Nov 01 2004 5:15PM	N/A	~	
	Abstract (MUST be submitted as	Abstract (MUST be submitted as a	Default	041002 Safety Abstract		20 KB	Oct 4 2004	N/A		



# **Round-tripping Aries XML**



Aries Full-Text XML

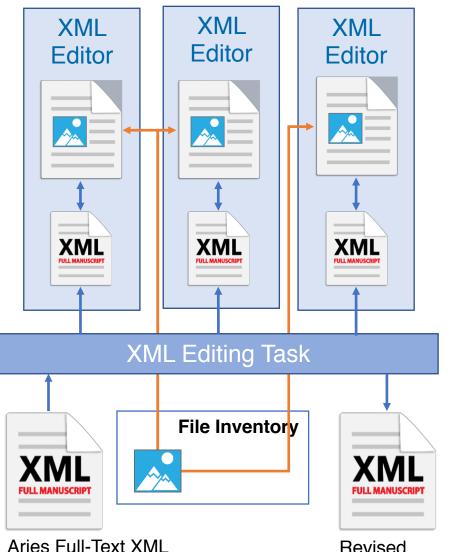
#### Full-Text Editing Task

Revising Aries XML



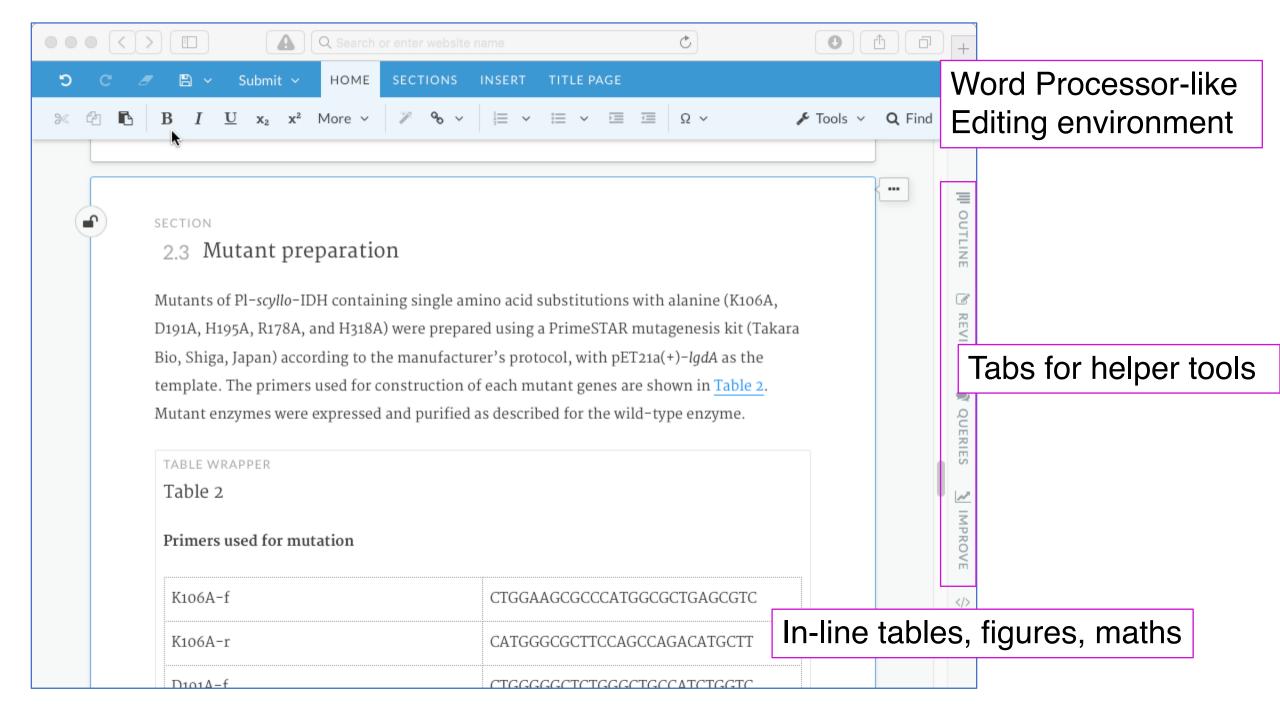
# XML Editing Task

- Assign Task to allow recipient to edit the text via EM XML Editor
  - Based on Fonto-XML
- User sees Word-Processor like UI
  - Hides the XML
  - In-line maths, tables, figures
- The EM XML Editor understands XML rules
  - User cannot create 'bad' XML (we use JATS)
  - But can add new elements, not just edit text
- The EM XML Editor constantly 'validates' the text
  - · We can warn the user of inconsistencies
- We're adding special tools to help you
  - E.g. Queries to the Author



Revised Aries Full-Text XML





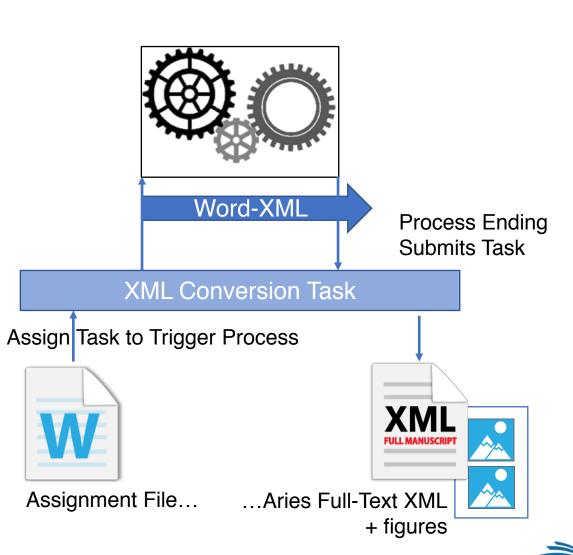
#### Full-Text XML Conversion Task

Work in progress



# **Aries Full-Text Conversion Task**

- XML Tool Task, assigned like any other
- Takes a Word document as the Assignment File
- Triggers a new system process
- Automatically converts Word document to structured XML
  - No template needed
  - Heuristics to deconstruct files with a variety of structures



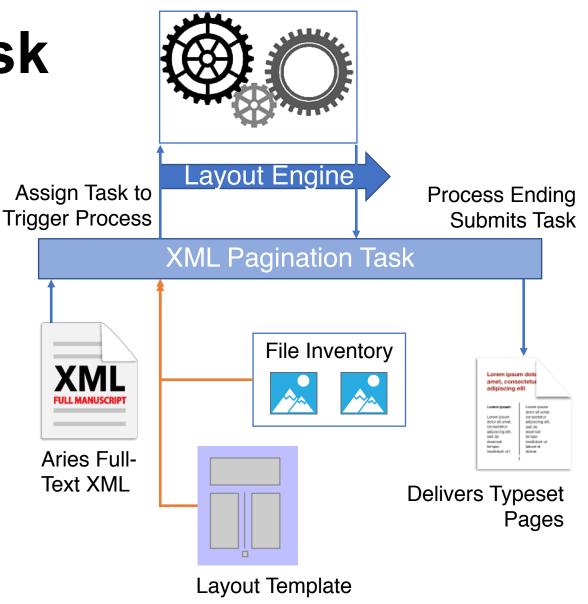
#### **'AutoPagination' Task**

In development



# **'AutoPagination'** Task

- We're integrating a layout/pagination engine
- Will reformat and layout Aries XML for delivery
  - E.g. Print, PDF
- Based on customer-specific layout templates ('Pagination Workflows')
- Solo task for a single submission, can be batched
  - Schedule Groups also planned in ongoing Phase 2+ development





#### Working With LiXuid

Possible Approaches

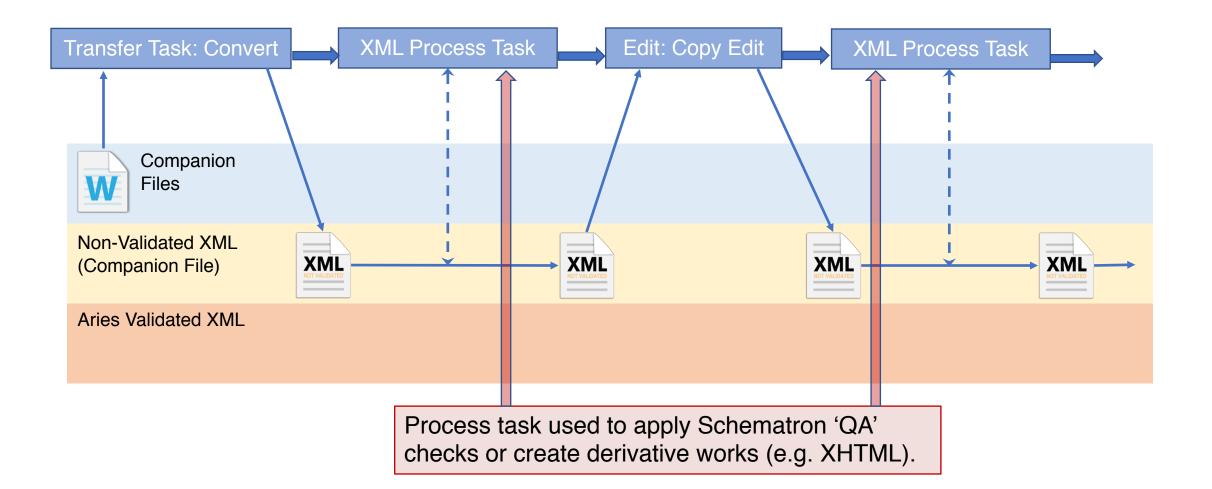


# XML Workflows: Possible Approaches

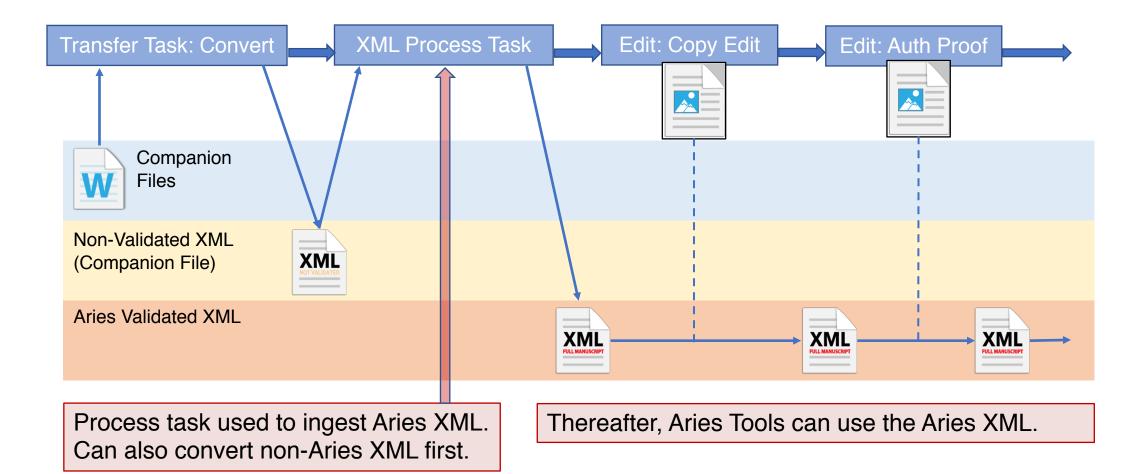
- Work with third party XML
  - Third parties convert text as now
  - Import/Export XML as Companion Files
  - EM tasks can apply XSLT and Schematron transforms if needed
- Work with 'Aries XML'
  - Subset of JATS XML
  - Allows use of XML Editing and AutoPagination Tasks
- Hybrid workflows?
  - Use EM Tasks to convert to/from Aries JATS
  - i.e. EM as online XML Proofing system



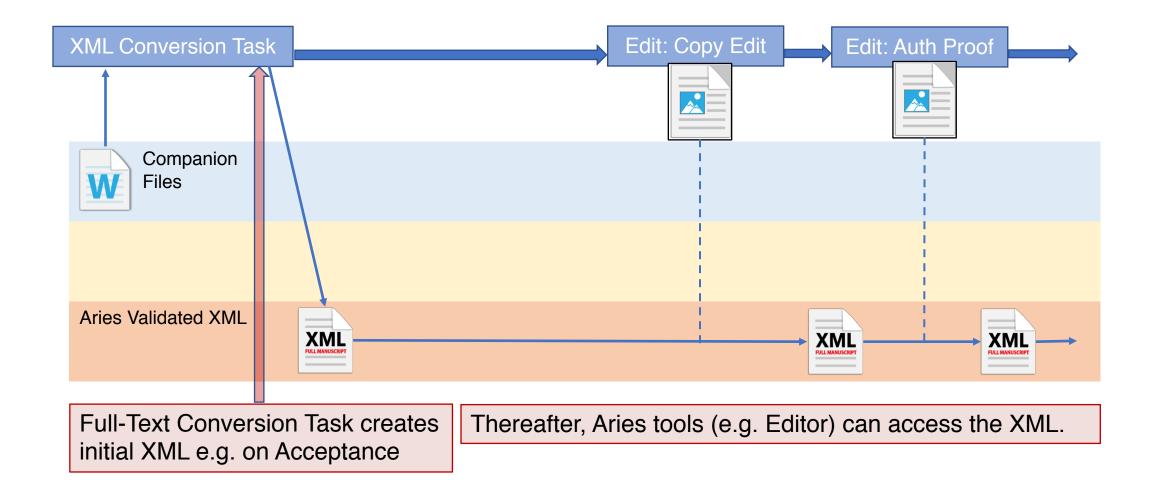
# Working with 3<sup>rd</sup> Party XML



#### **Convert 3<sup>rd</sup> Party XML to Aries XML**



#### **Automated Conversion to Aries XML**



#### Phase 3

Bringing XML into Peer Review



# Phase 3: Full-Text Conversion on Submission

(emÈditorial Manager®

Web-Based

WP-like XML Editor

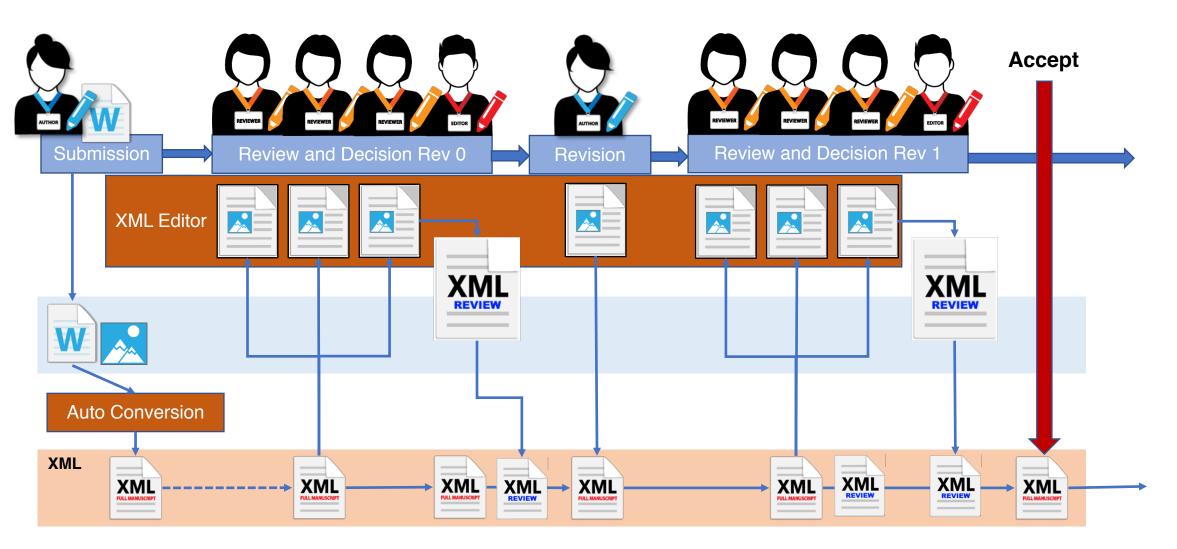
- Structured text from the start
- Capture Peer-Review commentary via EM XML Editor
- Revision Process refines live text via EM XML Editor
- Accepted text is ready to go

# Phase 3 – Building on Phase 2

- Requires Automatic Full-Text XML Conversion Engine
  - The one used for the Full Text XML Conversion Task
  - Needs to be very accurate; will be tested through use in Production
- Will use XML Editor customized for Peer Review
- And XML Editor customized for Author Revision
  - When publications wish to use it



#### **Allowing: XML-First in Editorial**



# Any Questions?

Stop! Demo time...

