| **Row #** | **Trench Journals APS-style element** | **Attribute** | **Ingest Schema Element**  *(Assumed to be direct children of /IngestRecord, unless an absolute XPath expression is given)* | **Default Search** | **Fielded Search** | **Browse/Navigator** | **Display** | **Notes/Transformation Rules** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | N/A |  | //MinorVersion |  |  |  |  | Ingest schema minor version for current content. |
|  | N/A |  | //ControlStructure/ActionCode |  |  |  |  | ‘change’ or ‘delete’ |
|  | N/A |  | //ControlStructure/LegacyPlatform |  |  |  |  | ‘CH’ |
|  | N/A |  | //ControlStructure/LastLegacyUpdateTime |  |  |  |  | Timestamp in YYYYMMDDHHMMSS format. |
|  | N/A |  | //ControlStructure/Component  See section below for detailed mapping. |  |  |  |  |  |
|  | N/A |  | //RECORD/Version |  |  |  |  | “Global\_Schema\_v5.1.xsd” |
|  | N/A |  | //ControlStructure/Cover |  |  |  |  | “true” for the first document of each issue, “false” elsewhere. |
|  | APS\_article | pmid | //ControlStructure/PublicationInfo/LegacyPubID |  |  |  |  | Journal PMID prefixed with “TRJ” |
|  | APS\_article | type | //RECORD/ObjectInfo/ObjectType |  |  |  |  | Possible object type values defined below. |
|  | APS\_feature |  | //RECORD/ObjectInfo/DocFeatures/DocFeature |  |  |  |  | Features (same as EIMA):  Cartoons  Diagrams  Graphs  Illustrations  Photographs  References  Tables |
|  | APS\_title |  | //RECORD/ObjectInfo/Title |  |  |  |  |  |
|  | APS\_subhead |  | //RECORD/ObjectInfo/SubTitle |  |  |  |  | Pick first APS\_subhead that appears in each file |
|  | APS\_author |  | //RECORD/Contributors/Contributor/OriginalForm |  |  |  |  | Set @ContribRole to ‘Author’ and @ContribOrder to the sequence of the author within the document. |
|  | APS\_ident/APS\_volume |  | //ControlStructure/Parent/ParentInfo/Volume |  |  |  |  |  |
|  | APS\_ident/APS\_issue |  | //ControlStructure/Parent/ParentInfo/Issue |  |  |  |  |  |
|  | APS\_issue\_date/APS\_printed\_date |  | //ControlStructure/Parent/ParentInfo/RawPubDate |  |  |  |  | Printed date. |
|  | APS\_issue\_date/APS\_date\_8601 |  | //ControlStructure/Parent/ParentInfo/NumericPubDate  //ControlStructure/Parent/ParentInfo/StartDate |  |  |  |  | 8-digit date. |
|  | APS\_languages/APS\_language |  | //RECORD/ObjectInfo/Language/RawLang |  |  |  |  | Use two-letter ISO code. |
|  | APS\_abstract |  | //RECORD/ObjectInfo/Abstract[@AbstractType="Summary"]/AbsText |  |  |  |  |  |
|  | APS\_zone/APS\_content/APS\_word/APS\_text |  | //RECORD/ObjectInfo/TextInfo/HiddenText/ |  |  |  |  | Extract from APS\_text elements and concatenated into a single string. Mark up as CDATA |
|  | N/A |  | N/A |  |  |  |  | The following should all come from TRACS:   * Publication title * Publisher * Place of Publication * Country of Publication * Journal Subject * ISSN * Source type * Language of publication * Unit information (name, type, origin, location) * Holding Institutions |
|  | File name |  | //ControlStructure/LegacyID,  //RECORD/ObjectInfo/ObjectIDs/ObjectID[@IDOrigin=”CH”, @IDType=”CHLegacyID”],  //RECORD/ObjectInfo/ObjectIDs/ObjectID[@IDOrigin=”CH”, @IDType=”CHOriginalLegacyID”] |  |  |  |  | This is the unique record ID. Use the source file name, without the ‘.xml’ extension.  All versions except CHOriginalLegacyID should have a prefix: “trj-” |
|  | APS\_article pmid attribute, APS\_issue\_date/APS\_date\_8601 |  | //ControlStructure/Parent/ParentInfo/LegacyID |  |  |  |  | Issue-level identifier for grouping content. Constructed by joining PMID to numeric date with an underscore – e.g. TRJ123456\_19150216. |
|  | APS\_zone/APS\_zone\_location/APS\_zone\_pagenumber |  | //RECORD/ObjectInfo/PrintLocation/StartPage |  |  |  |  | Take this value from the first APS\_zone in the file. |
|  | APS\_zone/APS\_zone\_location/APS\_zone\_pagenumber |  | //RECORD/ObjectInfo/PrintLocation/Pagination |  |  |  |  | All APS\_zone\_pagenumber values in document. Render consecutive page numbers as a range, separate non-consecutive pages with commas e.g. ’48-51, 82’. |
|  | APS\_zone/APS\_zone\_credit |  | //RECORD/ObjectInfo/ImageInfo/ImageSequence |  |  |  |  | Set to sequence of zone\_credit within the file |
|  | APS\_zone/APS\_zone\_location/APS\_zone\_pagenumber |  | //RECORD/ObjectInfo/ImageInfo/ImageStartPage |  |  |  |  |  |
|  | APS\_zone/APS\_zone\_caption |  | //RECORD/ObjectInfo/ImageInfo/Caption |  |  |  |  | Used for tabular or image based zones. |
|  | N/A |  | //RECORD/ObjectInfo/Copyright/CopyrightData |  |  |  |  | Copyright information will apply at the journal level. TRACS cannot provide this yet so it will be added from a separate lookup during transformation. |
| 1. A | APS\_srcinst? Possibly from an external lookup instead. |  | //RECORD/ObjectInfo/SourceAttribution ? |  |  |  |  | Name of the Institution that supplied the current issue. |

**Trench Journals Object Type Mappings**

|  |  |  |
| --- | --- | --- |
| **TRJ object type** | **M\* Normalized Value** | **Notes** |
| Ad | Advertisement | Any advertisement page |
| Article | Article |  |
| Back matter | Back Matter |  |
| Comic | Comic | Includes graphics and text in one or more panels. Separate from editorial cartoons |
| Cover | Front Page/Cover Story |  |
| Editorial cartoon |  | Graphical line art representation of a current event usually found in the editorial section of the journal (single image). |
| Front matter | Front Matter |  |
| Illustration | Illustration | A drawing, other than a comic or editorial cartoon. Illustrations may or may not have a caption |
| Letter | Letter |  |
| Obituary | Obituary |  |
| Other | Undefined | Anything that doesn’t fit any of the other object types. |
| Photograph | Photograph | Photograph. May have a title, caption, author, and/or distributor line |
| Poem | Poem |  |
| Recipe | Recipe | Any article that falls within a section called Recipes, or an article in which a list of food ingredients appears |
| Review | Review | includes book reviews, theater reviews, restaurant reviews, travel reviews, etc. |
| Statistics | Statistics/Data Report |  |
| Tbl of contents | Table of Contents/Front Matter |  |

**Control Structure Mappings – Components and Representations**

| **Format** | **Control Structure** | **Notes** |
| --- | --- | --- |
| Citation | <Component ComponentType="Citation">  <Representation RepresentationType="Citation">  <MimeType>text/xml</MimeType>  <Resides>FAST</Resides>  </Representation>  </Component> | Should be present for every document. |
| Abstract | <Component ComponentType="Abstract">  <Representation RepresentationType="Abstract">  <MimeType>text/xml</MimeType>  <Resides>FAST</Resides>  </Representation>  </Component> | Should be present if one abstract exists. |
| Background Full Text / Dirty ASCII | <Component ComponentType="FullText">  <Representation RepresentationType="BackgroundFullText">  <MimeType>text/xml</MimeType>  <Resides>FAST</Resides>  </Representation>  </Component> |  |
| Pages | <Component ComponentType="Pages">  <PageCount>*total page count of doc*</PageCount>  <Representation RepresentationType="Normal">  <MimeType>image/jpeg</MimeType>  <Resides>**CH/TRJ**</Resides>  <Color>*Color/Grayscale*</Color>  <LayoutInfo>*L or R*</LayoutInfo>  <MediaKey>*See notes*</MediaKey>  </Representation>  <Representation RepresentationType="Thumb">  <MimeType>image/jpeg</MimeType>  <Resides>**CH/TRJ**</Resides>  <Color>*Color/Grayscale*</Color>  <MediaKey>*See notes*</MediaKey>  </Representation>  </Component> | Foldout support is not required for TRJ  Color or greyscale depending on record  Layout info can be found in APS\_page\_image/@layout  MediaKey will probably be along the lines of:  /media/ch/trj/doc/191708010079/page/pg.jpg  and  /media/ch/trj/doc/191708010079/thumb/pg.jpg |
| Cover Page indicator | If Cover = “true”  <ControlStructure>  <Cover>yes</Cover>  </ControlStructure>  Else  <ControlStructure>  <Cover>no</Cover>  </ControlStructure> |  |
| Pagemap | <Component ComponentType="IssueMedia">  <Representation RepresentationType="PCMediaIndex">  <MimeType>application/xml</MimeType>  <Resides>**CH/TRJ**</Resides>  <MediaKey> </MediaKey>  </Representation>  </Component> | Media key will probably be along the lines of:  /media/ch/trj/issue/19170801/mindex.xml |