MARCXML to XC Schema Transformation Service Documentation

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The MARCXML to XCSchema Transformation Service converts a MARCXML Bibliographic or Holdings record into the XC Schema. It moves data from the MARCXML fields into the appropriate FRBR level and elements in an XC Schema record.

Records processed by the Transformation Service are expected to have been processed by the XC MARCXML Normalization Service beforehand. This other service normalizes data from selected coded MARC fields (such as the 007) and populates locally-defined 9XX fields with the corresponding English-language MARC vocabulary term for each code. Other MARC fields that need normalization to remove extraneous information (such as the 020) are also handled by the Normalization Service. The mapping of each of these XC-specific 9XX fields created by the XC MARCXML Normalization Service is included in the description below. If a particular MARC field is not listed below and the field is not processed by the MARCXML Normalization Service, the field is not being mapped to the XC Schema at this time.

This document contains information on where data from each MARCXML field is inserted in the XC record. In order to utilize this Service, the reader is expected to have read the sections of the Metadata Services Toolkit documentation that explain how to set up the MST to harvest records and pass them into Metadata Services.

Before applying the Transformation mappings described in this document, the Service checks the MARCXML Leader 06 to determine the Type of Record to be processed. In cases where a MARC tag is mapped the same way for both MARC Bibliographic and Holdings records, this is indicated below. In other cases when a field is valid for both MARC Bibliographic and Holdings records and there are differences between the mapping for the two formats, these are also indicated below.[[1]](#footnote-1) No indication is given when the tag below is valid in only the MARC Bibliographic Format.

# MARCXML to XC Mappings

The following section describes the actions taken by the Transformation Service on each MARCXML field.

**010 (Bibliographic only):**

The $a subfield is moved into a manifestation level xc:recordID field with a type attribute of LCCN. Whitespace on either side of the number is removed.

**015:**

The $a subfield is moved into a manifestation level xc:identifier field. This field contains a type attribute with a value equal to the MARCXML field’s $2 subfield.

**016 (Bibliographic only):**

The $a subfield is moved into a manifestation level xc:recordID field. This field contains a type attribute with a value equal to the MARCXML field’s $2 subfield. If there is no $2 subfield, the type attribute is set to “LAC”.

**022 (Bibliographic only):**

The $a subfield is moved to a manifestation level xc:identifier field with a type attribute of “ISSN”. The $l subfield is moved to a separate manifestation level xc:identifier field with a type attribute of “ISSN-L”.

**024 (Bibliographic only):**

The $a subfield is moved to a manifestation level xc:identifier with a type attribute based on the 1st indicator according to the following table:

|  |  |
| --- | --- |
| 1st indicator value | Type attribute value |
| \_ | No type attribute |
| 0 | ISRC |
| 1 | UPC |
| 2 | ISMN |
| 3 | IAN |
| 4 | SICI |
| 7 | The value of the $2 subfield |
| 8 | No type attribute |

**028:**

The $a subfield is moved to an element at the manifestation level based on the 1st indicator according to the following table (note that the type attribute values are locally defined):

|  |  |  |
| --- | --- | --- |
| 1st indicator value | Element | Type attribute value |
| 0 | xc:identifier | SoundNr |
| 2 | rdvocab :publisherNumber | No type attribute |
| 3 | rdvocab:plateNumber | No type attribute |
| 4 | xc:identifier | VideoNr |

**030 (Bibliographic only):**

The $a subfield is moved to a manifestation level xc:identifier with a type attribute of “CODEN”.

**035 (Bibliographic only):**

The Transformation Service will ignore all 035 fields which do not contain a $a subfield in the format “(<organization>)<id>” (the Normalization should ensure that invalid 035 fields are fixed so they are in this format.) The $a subfield’s <id> is moved to a manifestation level xc:recordID with a type equal to its <organization>.

**037:**

The $a subfield is moved to a manifestation level xc:identifier. If the $b subfield is “GPO” or there is an 040 with a $a subfield of “GPO” then the resulting xc:identifier has a type attribute of “GPO”.

**050:**

If the $a subfield’s third character is a number, it is moved to a work level dcterms:subject with a type of “dcterms:LCC”. (This is a safeguard to avoid mapping 050 fields that contain a textual prefix which could negatively affect XC’s ability to provide faceted access to LC Class number)

**055:**

The $a subfield is moved to a work level dcterms:subject. If the 2nd indicator is 0, 1, 2, 3, 4, or 5 then the resulting dcterms:subject will have a type attribute of “dcterms:LCC”, otherwise it will not have a type attribute.

**060:**

The $a subfield is moved to a work level dcterms:subject with a type attribute of “dcterms:NLM”.

**074:**

The $a subfield is moved to a manifestation level xc:identifier with a type attribute of “GPOItem”.

**082:**

The $a subfield is moved to a work level dcterms:subject with a type attribute of “dcterms:DDC”.

**086:**

The $a subfield is moved to a manifestation level xc:identifier with a type attribute of “SuDoc”.

**090:**

The $a subfield is moved to a work level dcterms:subject with a type of “dcterms:LCC”.

**092:**

The $a subfield is moved to a work level dcterms:subject with a type attribute of “dcterms:DDC”.

**100:**

The $a, $b, $c, $d, $e, $g, and $q subfields’ values are concatenated, and the result is set on an element based on the $4 subfield’s value according to the following table:

|  |  |  |
| --- | --- | --- |
| MARC Value | Element | FRBR Level |
| aut, lbt, or lyr | rdarole:author | work |
| cmp | rdarole:composer | work |
| com | rdarole:compiler | work |
| art | rdarole:artist | work |
| drt | rdarole:director | expression |
| edt | rdarole:editor | expression |
| ill | rdarole:illustrator | expression |
| prf, act, dnc, nrt, voc, itr, cnd, or mod | rdarole:performer | expression |
| pro | rdarole:producer | expression |
| trl | rdarole:translator | expression |
| All other values or $4 not found | xc:creator | work |

If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds an agentID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds an agentID attribute with a value equal to “xcauth” followed by the remainder of the $0.[[2]](#footnote-2)

**110:**

The $a, $b, $c, $d, $e, and $g subfields’ values are concatenated, and the result is set on an element based on the $4 subfield’s value according to the following table:

|  |  |  |
| --- | --- | --- |
| MARC Value | Element | FRBR Level |
| aut, lbt, or lyr | rdarole:author | work |
| cmp | rdarole:composer | work |
| com | rdarole:compiler | work |
| art | rdarole:artist | work |
| drt | rdarole:director | expression |
| edt | rdarole:editor | expression |
| ill | rdarole:illustrator | expression |
| prf, act, dnc, nrt, voc, itr, cnd, or mod | rdarole:performer | expression |
| pro | rdarole:producer | expression |
| trl | rdarole:translator | expression |
| All other values or $4 not found | xc:creator | work |

If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds an agentID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds an agentID attribute with a value equal to “xcauth” followed by the remainder of the $0.

**111:**

The $a, $c, $d, $e, $g, $j and $q subfields’ values are concatenated, and the result is set on an element based on the $4 subfield’s value according to the following table:

|  |  |  |
| --- | --- | --- |
| MARC Value | Element | FRBR Level |
| aut, lbt, or lyr | rdarole:author | work |
| cmp | rdarole:composer | work |
| com | rdarole:compiler | work |
| art | rdarole:artist | work |
| drt | rdarole:director | expression |
| edt | rdarole:editor | expression |
| ill | rdarole:illustrator | expression |
| prf, act, dnc, nrt, voc, itr, cnd, or mod | rdarole:performer | expression |
| pro | rdarole:producer | expression |
| trl | rdarole:translator | expression |
| All other values or $4 not found | xc:creator | work |

If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds an agentID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds an agentID attribute with a value equal to “xcauth” followed by the remainder of the $0.

**130:**

The $a, $d, $f, $g, $h, $k, $l, $m, $n, $o, $p, $r, $s, and $t subfields’ values are concatenated, and the result is added as both a work level rdvocab:workTitle and an expression level rdvocab:expressionTitle.

If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds a work level rdvocab:identifierOfWork element with a type of “lcnaf” and a value of “n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a work level rdvocab:identifierOfWork element with a type of “xcauth” and a value of the remainder of the $0.

**210:**

The $a and $b subfields’ values are concatenated and the result is added as a work level dcterms:alternative.

**222:**

The $a and $b subfields’ values are concatenated and the result is added as a work level dcterms:alternative.

**240:**

The $a, $d, $f, $g, $h, $k, $l, $m, $n, $o, $p, $r, and $s subfields’ values are concatenated, and the result is added as both a work level rdvocab:workTitle and an expression level rdvocab:expressionTitle.

If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds a work level rdvocab:identifierOfWork element with a type of “lcnaf” and a value of “n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a work level rdvocab:identifierOfWork element with a type of “xcauth” and a value of the remainder of the $0.

**243:**

The $a, $d, $f, $g, $h, $k, $l, $m, $n, $o, $p, $r, and $s subfields’ values are concatenated, and the result is added as both a work level rdvocab:workTitle and an expression level rdvocab:expressionTitle.

If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds a work level rdvocab:identifierOfWork element with a type of “lcnaf” and a value of “n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a work level rdvocab:identifierOfWork element with a type of “xcauth” and a value of the remainder of the $0.

**245:**

The $a, $d, $f, $g, $k, $n, $p, and $s subfields’ values are concatenated and added as a manifestation level dctems:title element.

**246:**

If the 2nd indicator is 1, the $a, $b, $f, $n, and $p subfields’ values are concatenated and added as a manifestation level dcterms:title, otherwise the $a, $b, $f, $n, and $p subfields’ values are concatenated and added as a manifestation level dcterms:alternative element.

**247:**

The $a, $b, $f, $n, and $p subfields’ values are concatenated and added as a manifestation level dcterms:alternative.

**250:**

The $a subfield’s value is added as an expression level dcterms:version element. In addition, the $a and $b subfields’ values are concatenated and added as a manifestation level rdvocab:editionStatement element.

**254:**

The $a subfield’s value is added as both a manifestation level rivocab:editionStatement element and an expression level dcterms:version element.

**255:**

The $a, $b, $c, $d, $e, $f, and $g subfields’ values are concatenated and added as an expression level rdvocab:scale element.

**260:**

The $a and $e subfields’ values are moved to separate manifestation level rdvocab:placeOfProduction elements. The $b and $f subfields’ values are moved to separate manifestation level dcterms:publisher elements. The $c and $g subfields’ values are moved to separate manifestation level dcterms:issued elements

**300:**

The $a subfield’s value is moved to a manifestation level dcterms:extent element. The $c subfield’s value is moved to a manifestation level rdvocab:dimensions element. The $b subfield’s value is moved to an element depending on the Leader 06 value according to the following table:

|  |  |  |
| --- | --- | --- |
| Leader 06 Value | Element | FRBR Level |
| i or j | rdvocab:soundcharacteristics | Manifestation |
| a, c, d, or t | rdvocab:illistrativeContent | Expression |
| Any other value | xc:otherPhysicalDetails | Manifestation |

**310:**

The $a and $b subfields’ values are concatenated and added as a manifestation level rdvocab:frequency element.

**321:**

The $a and $b subfields’ values are concatenated and added as a manifestation level rdvocab:frequency element.

**362:**

The $a and $z subfields’ values are concatenated and added as a manifestation level rdvocab:numberingOfSerials element.

**440:**

The $a, $n, $p, and $v subfields’ values are concatenated and added as a manifestation level xc:isPartOf element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds an workID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a workID attribute with a value equal to “xcauth” followed by the remainder of the $0.

**490:**

If the 1st indicator is 0, the $a and $v subfields’ values are concatenated and added as a manifestation level dcterms:isPartOf element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value.

**500:**

The $a and$3 subfields’ values are concatenated and added as a manifestation level dcterms:description element.

**501:**

The $a subfield’s value is added as an expression level dcterms:relation element.

**502:**

The $a subfield’s value is added as a work level rdvocab:dissertationOrThesisInformation element.

**504:**

The $a and $b subfields’ values are concatenated and added as a manifestation level dcterms:description element.

**505:**

The $a, $g, $r, $t, and $u subfields’ values are concatenated and added as a manifestation level dcterms:tableOfContents element.

**506 (Bibliographic only):**

The $a, $b, $c, $d, $e, $f, $u, and $3 subfields’ values are concatenated and added as a manifestation level dcterms:rights element.

**507:**

The $a and $b subfields’ values are concatenated and added as an expression level rdvocab:scale element.

**508:**

The $a subfield’s value is added as an expression level rdvocab:artisticAndOrTechnicalCredits element.

**510:**

The $a, $b, $c, and $3 subfields’ values are concatenated and added as an expression level dcterms:isReferencedBy element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value.

**511:**

The $a subfield’s value is added as an expression level rdvocab:performerNarratorAndOrPresenter element.

**513:**

The $a and $b subfields’ values are concatenated and added as a work level dcterms:temporal element.

**515:**

The $a subfield’s value is added as a manifestation level rdvocab:numberingOfSerials element.

**518:**

The $a and $3 subfields’ values are concatenated and added as a expression level rdvocab:placeAndDateOfCapture element.

**520:**

The $a, $b, $c, $u, and $3 subfields’ values are concatenated and added as a work level dcterms:abstract element.

**521:**

The $a, $b, and $3 subfields’ values are concatenated and added as a work level dcterms:audience element.

**522:**

The $a subfield’s value is added as a work level dcterms:spatial element.

**525:**

The $a subfield’s value is added as a work level dcterms:relation element.

**530:**

The $a, $b, $c, $d, $u, and $3 subfields’ values are concatenated and added as an expression level dcterms:hasFormat element.

**533:**

The $a, $b, $c, $d, $e, $f, $m, $n, and $3 subfields’ values are concatenated and added as an expression level dcterms:hasFormat element.

**534:**

The $a, $b, $c, $e, $f, $k, $l, $m, $n, $p, and $t subfields’ values are concatenated and added as an expression level dcterms:isFormatOf element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value.

**538 (Bibliographic only):**

The $a, $i, $u, and $3 subfields’ values are concatenated and added as an expression level dcterms:requires element.

**540:**

The $a, $b, $c, $d, $u, and $3 subfields’ values are concatenated and added as a manifestation level dcterms:rights element.

**544:**

The $a, $b, $c, $d, $e, $n, and $3 subfields’ values are concatenated and added as a manifestation level dcterms:description element.

**546:**

The $a, $b, and $3 subfields’ values are concatenated and added as an expression level dcterms:language element.

**547:**

The $a subfield’s value is added as a manifestation level dcterms:description element.

**550:**

The $a subfield’s value is added as an expression level dcterms:description element.

**555:**

The $a, $b, $c, $d, $u, and $3 subfields’ values are concatenated and added as a manifestation level dcterms:description element.

**580:**

The $a subfield’s value is added as an expression level dcterms:relation element.

**586:**

The $a and $3 subfields’ values are concatenated and added as an expression level rivocab:awards element.

**59X:**

The $a subfield’s value is added as a manifestation level dcterms:description element.

**600:**

The $a, $b, $c, $d, $e, $f, $g, $k, $l, $m, $n, $o, $p, $q, $r, $s, $t, $v, $x, $y, $z, $2, $3, and $4 subfields’ values are concatenated and added as a work level xc:subject element. A dash is inserted instead of a space before any $v, $x, $y, or $z subfield. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds a subjID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a subjID attribute with a value equal to “xcauth” followed by the remainder of the $0.

The xc:subject element is assigned a type attribute based on the 2nd indicator according to the following table:

|  |  |
| --- | --- |
| 1st indicator value | Type attribute value |
| 0 | dcterms:LCSH |
| 1 | lcac |
| 2 | dcterms:MESH |
| 3 | nal |
| 5 | cash |
| 6 | rvm |
| 7 | The value of the $2 subfield |

**610:**

The $a, $b, $c, $d, $e, $f, $g, $k, $l, $m, $n, $o, $p, $q, $r, $s, $t, $v, $x, $y, $z, $2, $3, and $4 subfields’ values are concatenated and added as a work level xc:subject element. A dash is inserted instead of a space before any $v, $x, $y, or $z subfield. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds a subjID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a subjID attribute with a value equal to “xcauth” followed by the remainder of the $0.

The xc:subject element is assigned a type attribute based on the 2nd indicator according to the following table:

|  |  |
| --- | --- |
| 1st indicator value | Type attribute value |
| 0 | dcterms:LCSH |
| 1 | lcac |
| 2 | dcterms:MESH |
| 3 | nal |
| 5 | cash |
| 6 | rvm |
| 7 | The value of the $2 subfield |

**611:**

The $a, $c, $d, $e, $f, $g, $j, $k, $l, $n, $p, $q, $s, $t, $v, $x, $y, $z, $2, $3, and $4 subfields’ values are concatenated and added as a work level xc:subject element. A dash is inserted instead of a space before any $v, $x, $y, or $z subfield. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds a subjID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a subjID attribute with a value equal to “xcauth” followed by the remainder of the $0.

The xc:subject element is assigned a type attribute based on the 2nd indicator according to the following table:

|  |  |
| --- | --- |
| 1st indicator value | Type attribute value |
| 0 | dcterms:LCSH |
| 1 | lcac |
| 2 | dcterms:MESH |
| 3 | nal |
| 5 | cash |
| 6 | rvm |
| 7 | The value of the $2 subfield |

**630:**

The $a, $d, $e, $f, $g, $k, $l, $m, $n, $o, $p, $r, $s, $t, $v, $x, $x, $y, $z, $2, $3, and $4 subfields’ values are concatenated and added as a work level xc:subject element. A dash is inserted instead of a space before any $v, $x, $y, or $z subfield. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds a subjID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a subjID attribute with a value equal to “xcauth” followed by the remainder of the $0.

The xc:subject element is assigned a type attribute based on the 2nd indicator according to the following table:

|  |  |
| --- | --- |
| 1st indicator value | Type attribute value |
| 0 | dcterms:LCSH |
| 1 | lcac |
| 2 | dcterms:MESH |
| 3 | nal |
| 5 | cash |
| 6 | rvm |
| 7 | The value of the $2 subfield |

**648:**

The $a, $v, $x, $y, and $z subfields’ values are concatenated and added as a work level xc:temporal element. A dash is inserted instead of a space before any $v, $x, $y, or $z subfield. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds a chronID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a chronID attribute with a value equal to “xcauth” followed by the remainder of the $0.

The xc:subject element is assigned a type attribute based on the 2nd indicator according to the following table:

|  |  |
| --- | --- |
| 1st indicator value | Type attribute value |
| 0 | dcterms:LCSH |
| 1 | lcac |
| 2 | dcterms:MESH |
| 3 | nal |
| 5 | cash |
| 6 | rvm |
| 7 | The value of the $2 subfield |

**650:**

The $a, $b, $c, $d, $e, $v, $x, $y, $z, $2, $3, and $4 subfields’ values are concatenated and added as a work level xc:subject element. A dash is inserted instead of a space before any $v, $x, $y, or $z subfield. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds a subjID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a subjID attribute with a value equal to “xcauth” followed by the remainder of the $0.

The xc:subject element is assigned a type attribute based on the 2nd indicator according to the following table:

|  |  |
| --- | --- |
| 1st indicator value | Type attribute value |
| 0 | dcterms:LCSH |
| 1 | lcac |
| 2 | dcterms:MESH |
| 3 | nal |
| 5 | cash |
| 6 | rvm |
| 7 | The value of the $2 subfield |

**651:**

The $a, $e, $v, $x, $y, $z, $2, $3, and $4 subfields’ values are concatenated and added as a work level xc:spatial element. A dash is inserted instead of a space before any $v, $x, $y, or $z subfield. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds a geoID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a geoID attribute with a value equal to “xcauth” followed by the remainder of the $0.

The xc:spatial element is assigned a type attribute based on the 2nd indicator according to the following table:

|  |  |
| --- | --- |
| 1st indicator value | Type attribute value |
| 0 | dcterms:LCSH |
| 1 | lcac |
| 2 | dcterms:MESH |
| 3 | nal |
| 5 | cash |
| 6 | rvm |
| 7 | The value of the $2 subfield |

**653:**

The $a subfield’s value is moved to a work level dcterms:subject element.

**654:**

The $a, $b, $c, $e, $v, $y, $z, $2, $3, and $4 subfields’ values are concatenated and added as a work level xc:subject element. A dash is inserted instead of a space before any subfield except $a. If the datafield contains a $2 subfield it is set on the xc:subject element as a type attribute.

**655:**

The $a, $e, $v, $x, $y, $z, $2, $3, and $4 subfields’ values are concatenated and added as a work level xc:type element. A dash is inserted instead of a space before any $v, $x, $y, or $z subfield. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds a subjID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a subjID attribute with a value equal to “xcauth” followed by the remainder of the $0.

The xc:type element is assigned a type attribute based on the 2nd indicator according to the following table:

|  |  |
| --- | --- |
| 1st indicator value | Type attribute value |
| 0 | dcterms:LCSH |
| 1 | lcac |
| 2 | dcterms:MESH |
| 3 | nal |
| 5 | cash |
| 6 | rvm |
| 7 | The value of the $2 subfield |

**700:**

If the datafield does not contain a $t subfield, the $a, $b, $c, $d, $e, $g, and $q subfields’ values are concatenated, and the result is set on an element based on the $4 subfield’s value according to the following table:

|  |  |  |
| --- | --- | --- |
| MARC Value | Element | FRBR Level |
| aut, lbt, or lyr | rdarole:author | work |
| cmp | rdarole:composer | work |
| com | rdarole:compiler | work |
| art | rdarole:artist | work |
| drt | rdarole:director | expression |
| edt | rdarole:editor | expression |
| ill | rdarole:illustrator | expression |
| prf, act, dnc, nrt, voc, itr, cnd, or mod | rdarole:performer | expression |
| pro | rdarole:producer | expression |
| trl | rdarole:translator | expression |
| All other values or $4 not found | xc:contributor | expression |

In addition to lacking a $t, if the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds an agentID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds an agentID attribute with a value equal to “xcauth” followed by the remainder of the $0.

If the datafield contains a $t subfield and the 2nd indicator is not 2, the $a, $b, $c, $d, $e, $g, $q, $4, $k, $l, $m, $n, $o, $p, $r, $s and $t subfields’ values are concatenated and added as a work level xc:relation element. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a workID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a workID attribute with a value equal to “xcauth” followed by the remainder of the $0.

If the datafield contains a $t subfield and the 2nd indicator is 2, the $k, $l, $m, $n, $o, $p, $r, $s, and $t subfields are added to an rdvocab:workTitle in a separate work element unique to the $8 value. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds an rdvocab:identifierOfWork element with a type of “lcnaf” and a value of “n” followed by the remainder of the $0 to the work element from the $8. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds an rdvocab:identifierOfWork element with a type of “xcauth” and a value of the remainder of the $0 to the work element from the $8.

**710:**

If the datafield does not contain a $t subfield, the $a, $b, $c, $d, $e, $g, and $q subfields’ values are concatenated, and the result is set on an element based on the $4 subfield’s value according to the following table:

|  |  |  |
| --- | --- | --- |
| MARC Value | Element | FRBR Level |
| aut, lbt, or lyr | rdarole:author | work |
| cmp | rdarole:composer | work |
| com | rdarole:compiler | work |
| art | rdarole:artist | work |
| drt | rdarole:director | expression |
| edt | rdarole:editor | expression |
| ill | rdarole:illustrator | expression |
| prf, act, dnc, nrt, voc, itr, cnd, or mod | rdarole:performer | expression |
| pro | rdarole:producer | expression |
| trl | rdarole:translator | expression |
| All other values or $4 not found | xc:contributor | expression |

In addition to lacking a $t, if the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds an agentID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds an agentID attribute with a value equal to “xcauth” followed by the remainder of the $0.

If the datafield contains a $t subfield and the 2nd indicator is not 2, the $a, $b, $c, $d, $e, $g, $q, $4, $k, $l, $m, $n, $o, $p, $r, $s and $t subfields’ values are concatenated and added as a work level xc:relation element. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a workID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a workID attribute with a value equal to “xcauth” followed by the remainder of the $0.

If the datafield contains a $t subfield and the 2nd indicator is 2, the $k, $l, $m, $n, $o, $p, $r, $s, and $t subfields are added to an rdvocab:workTitle in a separate work element unique to the $8 value. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds an rdvocab:identifierOfWork element with a type of “lcnaf” and a value of “n” followed by the remainder of the $0 to the work element from the $8. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds an rdvocab:identifierOfWork element with a type of “xcauth” and a value of the remainder of the $0 to the work element from the $8.

**711:**

If the datafield does not contain a $t subfield, the $a, $b, $c, $d, $e, $g, and $q subfields’ values are concatenated, and the result is set on an element based on the $4 subfield’s value according to the following table:

|  |  |  |
| --- | --- | --- |
| MARC Value | Element | FRBR Level |
| aut, lbt, or lyr | rdarole:author | work |
| cmp | rdarole:composer | work |
| com | rdarole:compiler | work |
| art | rdarole:artist | work |
| drt | rdarole:director | expression |
| edt | rdarole:editor | expression |
| ill | rdarole:illustrator | expression |
| prf, act, dnc, nrt, voc, itr, cnd, or mod | rdarole:performer | expression |
| pro | rdarole:producer | expression |
| trl | rdarole:translator | expression |
| All other values or $4 not found | xc:contributor | expression |

In addition to lacking a $t, if the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds an agentID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds an agentID attribute with a value equal to “xcauth” followed by the remainder of the $0.

If the datafield contains a $t subfield and the 2nd indicator is not 2, the $a, $b, $c, $d, $e, $g, $q, $4, $k, $l, $m, $n, $o, $p, $r, $s and $t subfields’ values are concatenated and added as a work level xc:relation element. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a workID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a workID attribute with a value equal to “xcauth” followed by the remainder of the $0.

If the datafield contains a $t subfield and the 2nd indicator is 2, the $k, $l, $m, $n, $o, $p, $r, $s, and $t subfields are added to an rdvocab:workTitle in a separate work element unique to the $8 value. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds an rdvocab:identifierOfWork element with a type of “lcnaf” and a value of “n” followed by the remainder of the $0 to the work element from the $8. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds an rdvocab:identifierOfWork element with a type of “xcauth” and a value of the remainder of the $0 to the work element from the $8.

**720:**

The $a, $e, and $4 subfields’ values are concatenated and the result is added to an expression level dcterms:contributor element.

**730:**

If the datafield’s 2nd indicator is not 2, the $a, $d, $g, $k, $l, $m, $n, $o, $p, $r, $s, and $t subfields’ values are concatenated and added as a work level xc:relation element. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a workID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a workID attribute with a value equal to “xcauth” followed by the remainder of the $0.

If the datafield’s 2nd indicator is 2, the $a, $d, $g, $k, $l, $m, $n, $o, $p, $r, $s, and $t subfields are added to an rdvocab:workTitle in a separate work element unique to the $8 value. If the datafield contains a $0 subfield whose value starts with “(DLC)”, it adds an rdvocab:identifierOfWork element with a type of “lcnaf” and a value of “n” followed by the remainder of the $0 to the work element from the $8. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds an rdvocab:identifierOfWork element with a type of “xcauth” and a value of the remainder of the $0 to the work element from the $8.

**740:**

The $a, $t, $p, and $v subfields’ values are concatenated and the result is added to a manifestation level dcterms:alternative element.

**752:**

The $a, $b, $c, $d, $f, $g, $h, and $0 subfields’ values are concatenated and the result is added to a work level xc:coverage element. All subfields except for $a are preceded with a dash instead of a space.

**760:**

The $a, $g, $i, $t, and $3 subfields’ values are concatenated and added as a manifestation level dcterms:isPartOf element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value.

**765:**

The $a, $g, $i, $t, and $3 subfields’ values are concatenated and added as a manifestation level dcterms:isVersionOf element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield contains a $z subfield, its value is added as a dcterms:ISBN attribute’s value.

**770:**

The $a, $g, $i, and $t subfields’ values are concatenated and added as a work level dcterms:relation element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield contains a $z subfield, its value is added as a dcterms:ISBN attribute’s value.

**772:**

The $a, $g, $i, and $t subfields’ values are concatenated and added as a work level dcterms:relation element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield contains a $z subfield, its value is added as a dcterms:ISBN attribute’s value.

**773:**

The $a, $g, $i, $t, and $3 subfields’ values are concatenated and added as a manifestation level dcterms:isPartOf element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield contains a $z subfield, its value is added as a dcterms:ISBN attribute’s value.

**775:**

The $a, $g, $i, and $t subfields’ values are concatenated and added as a expression level dcterms:relation element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield contains a $z subfield, its value is added as a dcterms:ISBN attribute’s value.

**776:**

The $a, $g, $i, and $t subfields’ values are concatenated and added as a expression level dcterms:HasFormat element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield contains a $z subfield, its value is added as a dcterms:ISBN attribute’s value.

**777:**

The $a, $g, $i, and $t subfields’ values are concatenated and added as a expression level dcterms:relation element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value.

**780:**

The $a, $g, $i, and $t subfields’ values are concatenated and added as a work level dcterms:replaces element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield contains a $z subfield, its value is added as a dcterms:ISBN attribute’s value.

**785:**

The $a, $g, $i, and $t subfields’ values are concatenated and added as a work level dcterms:isReplacedBy element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield contains a $z subfield, its value is added as a dcterms:ISBN attribute’s value.

**786:**

The $a, $g, $i, and $t subfields’ values are concatenated and added as a expression level dcterms:isVersionOf element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield contains a $z subfield, its value is added as a dcterms:ISBN attribute’s value.

**787:**

The $a, $g, $i, and $t subfields’ values are concatenated and added as an expression level dcterms:relation element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield contains a $z subfield, its value is added as a dcterms:ISBN attribute’s value.

**800:**

The $a, $b, $c, $d, $e, $g, $k, $l, $m, $n, $o, $p, $q, $r, $s, $t, $v, and $4 subfields’ values are concatenated and added as a manifestation level dcterms:isPartOf element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a workID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a workID attribute with a value equal to “xcauth” followed by the remainder of the $0.

**810:**

The $a, $b, $c, $d, $e, $g, $k, $l, $m, $n, $o, $p, $r, $s, $t, $v, and $4 subfields’ values are concatenated and added as a manifestation level dcterms:isPartOf element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a workID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a workID attribute with a value equal to “xcauth” followed by the remainder of the $0.

**811:**

The $a, $c, $d, $e, $f, $g, $j, $k, $l, $n, $p, $q, $s, $t, $v, and $4 subfields’ values are concatenated and added as a manifestation level dcterms:isPartOf element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a workID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a workID attribute with a value equal to “xcauth” followed by the remainder of the $0.

**830:**

The $a, $d, $f, $g, $k, $l, $m, $n, $o, $p, $r, $s, $t, and $v subfields’ values are concatenated and added as a manifestation level dcterms:isPartOf element. If the datafield contains a $x subfield, its value is added as a dcterms:ISSN attribute’s value. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a workID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a workID attribute with a value equal to “xcauth” followed by the remainder of the $0.

**852 (Bibliographic and Holdings):**

The $a, $b, $c, $e, $f, and $g subfields’ values are concatenated, and the result is added as a holdings level xc:location element. The $h, $i, $j, $k, $l, $m, $p, $q, $s, $t, $z, $2, $3, $6, and $8 subfields’ values are concatenated, and the result is added as a holdings level xc:callNumber element. The xc:location and xc:callNumber elements are added to a unique holdings element based on the 852 datafield which produced them.

**856 (Bibliographic and Holdings):**

The $a, $b, $c, $d, $f, $h, $i, $j, $k, $l, $m, $n, $o, $p, $q, $r, $s, $t, $u, $v, $w, $x, $y, $z, $2, $3 subfields’ values are concatenated, and the result is added to an element based on the 2nd indicator according to the following table:

|  |  |  |
| --- | --- | --- |
| 2nd indicator value | Element | FRBR Level |
| \_ | dcterms:identifier | Manifestation |
| 0 | dcterms:identifier | Manifestation |
| 1 | dcterms:hasVersion | Expression |
| 2 | dcterms:relation | Expression |
| 8 | dcterms:identifier | Manifestation |

**866 (Bibliographic and Holdings):**

The $a, $x, and $z subfields’ values are concatenated and the result is added as an xc:textualHoldings element in the holdings element created by the preceding 852 datafield.

**867 (Bibliographic and Holdings):**

The $a, $x, and $z subfields’ values are concatenated and the result is added as an xc:textualHoldings element in the holdings element created by the preceding 852 datafield.

**868 (Bibliographic and Holdings):**

The $a, $x, and $z subfields’ values are concatenated and the result is added as an xc:textualHoldings element in the holdings element created by the preceding 852 datafield.

**The 9XX fields that follow are generated by the XC MARCXML Normalization Service. The documentation for that service contains a rationale for the definition of each field.**

**931 (“DCMIType”):**

The $a subfield’s value is added as an expression level dcterms:type element with a type attribute of dcterms:DCMIType.

**932 (“Leader06Vocab”):**

The $a subfield’s value is added as a manifestation level xc:typeLeader06 element.

**933 (“007Vocab”):**

The $a subfield’s value is added as a manifestation level xc:type007 element.

**934 (“007SMDVocab”):**

The $a subfield’s value is added as a manifestation level xc:typeSMD element.

**935 (“ModeOfIssuance”):**

The $a subfield’s value is added as a manifestation level rdvocab:modeOfIssuance element.

**937 (“FictionOrNonfiction”):**

The $a subfield’s value is added as a work level rdvocab:natureOfContent element.

**939 (“008DateRange”):**

The $a subfield’s value is added as a manifestation level dcterms:issued element.

**943 (“LanguageTerm”):**

The $a subfield’s value is added as an expression level dcterms:language element.

**945 (“008Audience”):**

The $a subfield’s value is added as a work level dcterms:audience element.

**947 (“ISBNCleanup”):**

The $a subfield’s value is added as a manifestation level dcterms:identifier element with a type attribute of “ISBN”.

**959 (“CreatorMatch”):**

All the subfields’ values are concatenated, and the result is added as an xc:creator element to the work element created for each subfield $8’s value. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds an agentID attribute with a value equal to “lcnaf:n” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds an agentID attribute with a value equal to “xcauth” followed by the remainder of the $0.

**963 (“ChronMatch”):**

The $a and $y subfields’ values are concatenated with the $y subfields preceded by a dash instead of a space, and the result is added as a work level xc:temporal element. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a chronID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a chronID attribute with a value equal to “xcauth” followed by the remainder of the $0.

**965 (“TopicMatch”):**

The $a and $x subfields’ values are concatenated with the $x subfields preceded by a dash instead of a space, and the result is added as a work level xc:subject element. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a subjID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a subjID attribute with a value equal to “xcauth” followed by the remainder of the $0.

**967 (“GeogMatch”):**

The $a and $z subfields’ values are concatenated with the $z subfields preceded by a dash instead of a space, and the result is added as a work level xc:spacial element. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a geoID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a geoID attribute with a value equal to “xcauth” followed by the remainder of the $0.

**969 (“GenreMatch”):**

The $a and $v subfields’ values are concatenated with the $v subfields preceded by a dash instead of a space, and the result is added as a work level xc:type element. If the datafield also contains a $0 subfield whose value starts with “(DLC)”, it adds a subjID attribute with a value equal to “lcnaf:sh” followed by the remainder of the $0. If the datafield contains a $0 subfield whose value starts with “(<organization\_code>)” where <organization\_code> is the organization code in the MST’s configuration file, it adds a subjID attribute with a value equal to “xcauth” followed by the remainder of the $0.

1. Some Holdings fields are not being mapped to XC Schema records at this time because some Holdings data, such as identifiers that apply to the FRBR group 1 entity “manifestation”, may need to be mapped differently from a Holdings record than the same data from a Bibliographic record. This is especially true if a library has used its MARC Holdings data to represent an additional version of a resource using what is known as the “single record technique”. These more complex mappings will be dealt with at a later time. [↑](#footnote-ref-1)
2. Note that the planned XC Authority Control Service will populate certain controlled-access fields in MARCXML bibliographic records with $0 when the service matches a MARCXML bibliographic record to a MARCXML authority record. Whenever the $0 is mentioned in this document, it should be assumed that the $0 is generated by the XC Authority Control Service. [↑](#footnote-ref-2)