
**Information and documentation —
MarcXchange**

Information et documentation — MarcXchange

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 25577 was prepared by Technical Committee ISO/TC 46, *Information and documentation*, Subcommittee SC 4, *Technical interoperability*.

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Introduction

In 2001, the U.S. Library of Congress developed a framework for working with MARC data in an XML environment. The core of the framework is a MARCXML schema that allows lossless round-trip conversion of an ISO 2709 MARC 21 record and an XML-encoded MARC 21 record.

MARCXML is tightly coupled to ISO 2709. It was obvious to generalize this to an XML-based alternative for ISO 2709 such that any existing format based on ISO 2709 could be represented.

This International Standard describes a schema which is a generalized version of, and with as few changes as possible to, MARCXML but which retains the original MARCXML structure. The resulting schema is an XML extension to ISO 2709. Thus, the original elements of MARCXML are reused and verbal links to the terminology of ISO 2709 have been added. MarcXchange is useable as a framework for conversion of all records using the ISO 2709 syntax into XML. Extensions to MarcXchange might be required to retain the definition and application of fields, subfields and control characters employed in data representation techniques specific to implementations of ISO 2709. The international exchange of records uses local variations of internationally recognized formats as much as it uses internationally recognized formats in the precise way in which they are prescribed for international exchange. MarcXchange, as an internationally recognized format, is mainly intended as a framework for making local schemas, or to which local extensions can be added. Experience has shown that there is a need for local deviations – even if MARC 21 or UNIMARC is chosen as the local format. This schema provides a specification for the development of local specific schemas, ensuring compatibility.

The relationship of the schema described in this International Standard to MARC and ISO 2709 are as follows. The XML schema is constructed to contain MARC data. The schema can be used for the exchange of MARC records or to act as a “bus” to enable MARC data records to go through further transformations such as to Dublin Core and/or processes such as validation. The basic components of ISO 2709 are treated in the following way in the XML schema:

- the record label is treated as a simple string;
- the directory has no counterpart in the schema; when converting from MarcXchange to ISO 2709 the directory has to be recalculated;
- the record identifier field and the control fields are treated as elements with the tag as an attribute;
- data fields are treated as elements with the tag and indicators as attributes;
- subfields are treated as sub-elements with the subfield code as an attribute.

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Information and documentation — MarcXchange

1 Scope

This International Standard specifies the requirements for a generalized XML-based exchange format for bibliographic records as well as other types of metadata.

It does not define the length or the content of individual records and does not assign any meaning to tags, indicators, or identifiers, these specifications being the functions of an implementation format.

This International Standard describes a generalized structure, a framework designed primarily for communication between data processing systems, but may also be relevant for use as a processing format within systems.

MarcXchange could potentially be used as follows:

- for representing a complete MARC record or a set of MARC records in XML;
- for original resource description in XML syntax;
- as an extension schema to METS (Metadata Encoding and Transmission Standard);
- for exchange of MARC records in XML;
- for transfer of MARC records in web services like SRU (search/retrieval via URL);
- for publisher transmission of data;
- as a temporary format in all kinds of data transformation or manipulation, e.g. conversion, publication, editing, validation;
- for metadata in XML that may be packaged with an electronic resource.

Validation of MARC records content is not enforced by the schema but by dedicated software tailored for the specific usage (e.g. the specific MARC-format).

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2709, *Information and documentation — Format for information exchange*

ISO/IEC 646, *Information technology — ISO 7-bit coded character set for information interchange*

ISO/IEC 10646, *Information technology — Universal Multiple-Octet Coded Character Set (UCS)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

MAchine-Readable Cataloguing MARC

family of format standards for the storage and exchange of bibliographic records and related information in machine-readable form

NOTE All MARC standards conform to ISO 2709.

3.2

collection

set of records

NOTE 1 In the schema, this is represented by a root element named "collection".

NOTE 2 The terms root element, element and attribute are in line with the definitions in XML. The term sub-element is used for an element which is the content (or child) of another element (the parent).

3.3

record

collection of fields, including record label, directory and data

NOTE In the schema, this is represented by a root element named "record". It can occur alone or as a sub-element of a the "collection" element.

3.4

format

specification of the information content of record label, control fields, data fields, indicators and subfields of an ISO 2709 record

NOTE In the schema, an attribute, named "format", of the "record" element is used to specify the MARC format used in the particular record.

3.5

type

sub-application of format

NOTE In the schema, an attribute, named "type", of the "record" element is used to specify the application.

EXAMPLE Bibliographic record, holdings record.

3.6

record label

field occurring in an ISO 2709 record

NOTE In the schema, this is represented by a sub-element, named "leader", of the "record" element.

3.7

directory

index used in ISO 2709 records

3.8

control field

record identifier field or reference field in ISO 2709

NOTE In the schema, this is represented by a sub-element, named "controlfield", of the "record" element.

3.9**data field**

type of field in ISO 2709

NOTE In the schema, this is represented by a sub-element, named "datafield", of the "record" element.

3.10**tag**

three characters associated to a control field or a data field in ISO 2709 and used to identify it

NOTE In the schema, this is represented by an attribute, named "tag", of the "controlfield" element and the "datafield" element.

3.11**indicator**

data element in a data field in ISO 2709

NOTE In the schema, this is represented by an attribute, named "ind1", ..., "ind9", of the "datafield" element.

3.12**subfield**

part of a data field in ISO 2709

NOTE In the schema, this is represented by a sub-element, named "subfield", of the "datafield" element.

3.13**subfield identifier**

data element consisting of a control code followed by from zero to eight characters identifying a subfield in an ISO 2709 record

NOTE In the schema, the subfield identifier excluding the control code is represented by an attribute, named "code", of the "subfield" element.

4 XML schema exchange of MARC records

4.1 General

The generic schema is listed in Annex A. Examples of formatted records are listed in Annex B. References to applications of the schema are listed in Annex C.

The MarcXchange schema supports XML markup of MARC records, using terminology and element names consistent with ISO 2709.

ISO 2709 defines the general structure illustrated in Figure 1.

Record label
Directory
Fields
Record separator

Figure 1 — ISO 2709 general structure

An ISO 2709 record contains the following components:

- a) a record label (fixed length);
- b) a directory (variable length);
- c) a record identifier field (variable length);
- d) a number of reference fields (variable length);
- e) a number of data fields (variable length);
- f) a field separator, i.e. separator IS2 conforming to ISO/IEC 646, which terminates the directory and each field;
- g) a record separator, i.e. separator IS3 conforming to ISO/IEC 646, which terminates each record.

In MarcXchange the element “leader” is used for the ISO 2709 record label. Part of the ISO 2709 record label (positions 0 to 4 record length and positions 12 to 16 base address of data), contains information, which is only meaningful for the ISO 2709 record. It is recommended always to recalculate this information when converting from MarcXchange to ISO 2709.

The ISO 2709 directory has no counterpart in MarcXchange. When converting from MarcXchange to ISO 2709, this component has to be recalculated.

In the MarcXchange schema the element “controlfield” is used for the ISO 2709 record identifier field and reference field; and the element “datafield” is used for ISO 2709 data field.

This schema is an extension to ISO 2709. It allows the usage of the “datafield” element for all legal ISO 2709 tags, including 001 to 009, 00A to 00Z and 00a to 00z; and two attributes are introduced to specify the content of a record, i.e. “format” to specify the MARC format and “type” to specify the kind of record.

This schema states that subfield identifiers may consist of 8-bit characters from ISO/IEC 10646, BMP row 00 (Basic Latin and Latin-1 Supplement).

There is one restriction. A special mode (identifier length = 0) of ISO 2709 operates with data fields without subfields. In the MarcXchange schema subfields are required, i.e. identifier length = 0 is not supported.

4.2 Structure of XML schema

Figure 2 illustrates the structure of the MarcXchange schema. All elements have an optional attribute, named id, inherited from MARCXML.

The description of elements and attribute are as follows:

- **collection**: a top level container element for zero or many **record** elements;
- **record**: a top level container element for the leader element and all of the **controlfield** and **datafield** elements which comprise the record; the record element has the following attributes:
 - **format** (optional): identifies the MARC format (examples: MARC21, UNIMARC, danMARC2, lbermarc);
 - **type** (optional): identifies the type of record (examples: bibliographic, authority, holdings, classification and community);
- **leader**: corresponds to ISO 2709 record label, 24 octets;

- **controlfield**: corresponds to ISO 2709 record identifier field (tag 001) and reference fields (tags 002 to 009 and 00A to 00Z); the **controlfield** element has one attribute:
 - **tag** (required): identifies the field (e.g. 008);
- **datafield**: may be used for all fields (tags 001 to 999 and 00A to ZZZ); it contains **subfield** elements; the **datafield** element has the following attributes:
 - **tag** (required): identifies the field (e.g. 245);
 - **ind1 to ind9** (optional): contain the indicator values;
- **subfield**: corresponds to ISO 2709 subfield; the **subfield** element has one attribute:
 - **code** (required): corresponds to ISO 2709 subfield identifier.

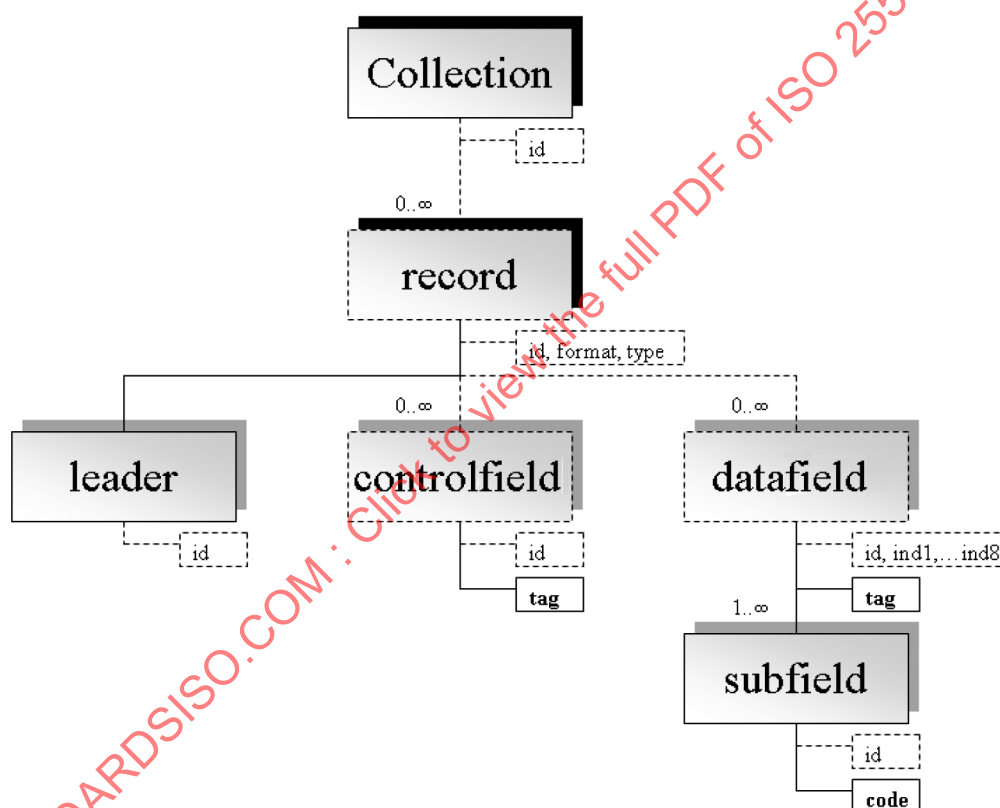


Figure 2 — MarcXchange general structure

Annex A (informative)

The generic MarcXchange schema

```
<?xml version="1.0"?>
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified">
  <xsd:annotation>
    <xsd:documentation>
      The schema supports XML markup of MARC records as specified in ISO 2709.
      ISO 2709 defines the following general structure: Record Label - Directory - Record Identifier - Reference Fields -
      Data Fields.
      In the schema the element "leader" is used for ISO 2709 Record Label,
      the element "control field" for ISO 2709 Record Identifier and Reference Fields,
      and the element "data field" for ISO 2709 Data Fields.
      The schema has no counterpart to ISO 2709 Directory.
    </xsd:documentation>
    <xsd:documentation>
      Extensions and elucidations:
      The schema allows the usage of "data fields" for all legal tags, including 001 to 009, 00A to 00Z and 00a to 00z.
      Subfield identifiers may consist of 8 bits characters from ISO 10646 BMP row 00 (Basic Latin and Latin-1
      Supplement).
      Two attributes are introduced to specify the content of a record - "format" to specify the MARC format, "type" to
      specify the kind of record.
    </xsd:documentation>
  </xsd:annotation>
  <xsd:element name="collection" type="collectionType" nillable="true" id="collection.e">
    <xsd:annotation>
      <xsd:documentation>collection is a top level container element for 0 or many records</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:element name="record" type="recordType" nillable="true" id="record.e">
    <xsd:annotation>
      <xsd:documentation>record is a top level container element for all of the field elements which compose the
      record</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:complexType name="collectionType" id="collection.ct">
    <xsd:sequence minOccurs="0" maxOccurs="unbounded">
      <xsd:element ref="record"/>
    </xsd:sequence>
    <xsd:attribute name="id" type="idDataType" use="optional"/>
  </xsd:complexType>
  <xsd:complexType name="recordType" id="record.ct">
    <xsd:sequence minOccurs="0">
      <xsd:element name="leader" type="leaderFieldType"/>
      <xsd:element name="controlfield" type="controlFieldType" minOccurs="0" maxOccurs="unbounded"/>
      <xsd:element name="datafield" type="dataFieldType" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
    <xsd:attribute name="format" type="xsd:NMTOKEN" use="optional"/>
    <xsd:attribute name="type" type="xsd:NMTOKEN" use="optional"/>
    <xsd:attribute name="id" type="idDataType" use="optional"/>
  </xsd:complexType>
  <xsd:complexType name="leaderFieldType" id="leader.ct">
    <xsd:annotation>
      <xsd:documentation>ISO 2709 Record Label, 24 octets</xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="leaderDataType">
        <xsd:attribute name="id" type="idDataType" use="optional"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
  <xsd:simpleType name="leaderDataType" id="leader.st">
```

```

    <xsd:restriction base="xsd:string">
      <xsd:whiteSpace value="preserve"/>
      <xsd:pattern value="\d{5}\p{[BasicLatin]}\p{[BasicLatin]}{4}\d\d{5}\p{[BasicLatin]}{3}\d\d\d\p{[BasicLatin]}"/>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:complexType name="controlFieldType" id="controlfield.ct">
    <xsd:annotation>
      <xsd:documentation>ISO 2709 Record Identifier and Reference Fields</xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <xsd:extension base="controlDataType">
        <xsd:attribute name="id" type="idDataType" use="optional"/>
        <xsd:attribute name="tag" type="controltagDataType" use="required"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
  <xsd:simpleType name="controlDataType" id="controlfield.st">
    <xsd:restriction base="xsd:string">
      <xsd:whiteSpace value="preserve"/>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:simpleType name="controltagDataType" id="controltag.st">
    <xsd:restriction base="xsd:string">
      <xsd:whiteSpace value="preserve"/>
      <xsd:pattern value="00[1-9A-Za-z]"/>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:complexType name="dataFieldType" id="datafield.ct">
    <xsd:annotation>
      <xsd:documentation>ISO 2709 data fields</xsd:documentation>
    </xsd:annotation>
    <xsd:sequence maxOccurs="unbounded">
      <xsd:element name="subfield" type="subfielddataType"/>
    </xsd:sequence>
    <xsd:attribute name="id" type="idDataType" use="optional"/>
    <xsd:attribute name="tag" type="tagDataType" use="required"/>
    <xsd:attribute name="ind1" type="indicatorDataType" use="optional"/>
    <xsd:attribute name="ind2" type="indicatorDataType" use="optional"/>
    <xsd:attribute name="ind3" type="indicatorDataType" use="optional"/>
    <xsd:attribute name="ind4" type="indicatorDataType" use="optional"/>
    <xsd:attribute name="ind5" type="indicatorDataType" use="optional"/>
    <xsd:attribute name="ind6" type="indicatorDataType" use="optional"/>
    <xsd:attribute name="ind7" type="indicatorDataType" use="optional"/>
    <xsd:attribute name="ind8" type="indicatorDataType" use="optional"/>
    <xsd:attribute name="ind9" type="indicatorDataType" use="optional"/>
  </xsd:complexType>
  <xsd:simpleType name="tagDataType" id="tag.st">
    <xsd:restriction base="xsd:string">
      <xsd:whiteSpace value="preserve"/>
      <xsd:pattern value="(00[1-9A-Za-z])[0[1-9A-Za-z][0-9A-Za-z][1-9A-Za-z][0-9A-Za-z]{2})"/>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:simpleType name="indicatorDataType" id="ind.st">
    <xsd:restriction base="xsd:string">
      <xsd:whiteSpace value="preserve"/>
      <xsd:pattern value="\p{[BasicLatin]}{1}"/>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:complexType name="subfielddataType" id="subfield.ct">
    <xsd:simpleContent>
      <xsd:extension base="subfieldDataType">
        <xsd:attribute name="id" type="idDataType" use="optional"/>
        <xsd:attribute name="code" type="subfieldcodeDataType" use="required"/>
      </xsd:extension>
    </xsd:simpleContent>
  </xsd:complexType>
  <xsd:simpleType name="subfieldDataType" id="subfield.st">
    <xsd:restriction base="xsd:string">
      <xsd:whiteSpace value="preserve"/>
    </xsd:restriction>
  </xsd:simpleType>

```

```
<xsd:simpleType name="subfieldcodeDataType" id="code.st">
  <xsd:restriction base="xsd:string">
    <xsd:whiteSpace value="preserve"/>
    <xsd:pattern value="\p{lsBasicLatin}\p{lsLatin-1Supplement}}{0,8}"/>
  </xsd:restriction>
</xsd:simpleType>
<xsd:simpleType name="idDataType" id="id.st">
  <xsd:restriction base="xsd:ID"/>
</xsd:simpleType>
</xsd:schema>
```

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Annex B (informative)

Examples

B.1 Example of a MARC 21 record that complies with MarcXchange

```
<?xml version="1.0" encoding="UTF-8"?>
<collection xmlns=" info:lc/xmlns/marcxchange-v1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation=" info:lc/xmlns/marcxchange-v1 http://www.loc.gov/iso25577/v1/marcxchange-1-1.xsd">
  <record format="MARC21" type="Bibliographic">
    <leader>01142cam 2200301 a 4500</leader>
    <controlfield tag="001"> 92005291 </controlfield>
    <controlfield tag="003">DLC</controlfield>
    <controlfield tag="005">19930521155141.9</controlfield>
    <controlfield tag="008">920219s1993 caua j 000 0 eng </controlfield>
    <datafield tag="010" ind1=" " ind2=" ">
      <subfield code="a"> 92005291 </subfield>
    </datafield>
    <datafield tag="020" ind1=" " ind2=" ">
      <subfield code="a">0152038655 :</subfield>
      <subfield code="c">$15.95</subfield>
    </datafield>
    <datafield tag="040" ind1=" " ind2=" ">
      <subfield code="a">DLC</subfield>
      <subfield code="c">DLC</subfield>
      <subfield code="d">DLC</subfield>
    </datafield>
    <datafield tag="042" ind1=" " ind2=" ">
      <subfield code="a">lcac</subfield>
    </datafield>
    <datafield tag="050" ind1="0" ind2="0">
      <subfield code="a">PS3537.A618</subfield>
      <subfield code="b">A88 1993</subfield>
    </datafield>
    <datafield tag="082" ind1="0" ind2="0">
      <subfield code="a">811/.52</subfield>
      <subfield code="2">20</subfield>
    </datafield>
    <datafield tag="100" ind1="1" ind2=" ">
      <subfield code="a">Sandburg, Carl.</subfield>
      <subfield code="d">1878-1967.</subfield>
    </datafield>
    <datafield tag="245" ind1="1" ind2="0">
      <subfield code="a">Arithmetic /</subfield>
      <subfield code="c">Carl Sandburg ; illustrated as an anamorphic adventure by Ted Rand.</subfield>
    </datafield>
    <datafield tag="250" ind1=" " ind2=" ">
      <subfield code="a">1st ed.</subfield>
    </datafield>
    <datafield tag="260" ind1=" " ind2=" ">
      <subfield code="a">San Diego :</subfield>
      <subfield code="b">Harcourt Brace Jovanovich,</subfield>
      <subfield code="c">c1993.</subfield>
    </datafield>
    <datafield tag="300" ind1=" " ind2=" ">
      <subfield code="a">1 v. (unpaged) :</subfield>
      <subfield code="b">ill. (some col.) :</subfield>
      <subfield code="c">26 cm.</subfield>
    </datafield>
    <datafield tag="500" ind1=" " ind2=" ">
      <subfield code="a">One Mylar sheet included in pocket.</subfield>
    </datafield>
  </record>
</collection>
```

```

<datafield tag="520" ind1=" " ind2=" ">
  <subfield code="a">A poem about numbers and their characteristics. Features anamorphic, or distorted, drawings
  which can be restored to normal by viewing from a particular angle or by viewing the image's reflection in the provided
  Mylar cone.</subfield>
</datafield>
<datafield tag="650" ind1=" " ind2="0">
  <subfield code="a">Arithmetic</subfield>
  <subfield code="x">Juvenile poetry.</subfield>
</datafield>
<datafield tag="650" ind1=" " ind2="0">
  <subfield code="a">Children's poetry, American.</subfield>
</datafield>
<datafield tag="650" ind1=" " ind2="1">
  <subfield code="a">Arithmetic</subfield>
  <subfield code="x">Poetry.</subfield>
</datafield>
<datafield tag="650" ind1=" " ind2="1">
  <subfield code="a">American poetry.</subfield>
</datafield>
<datafield tag="650" ind1=" " ind2="1">
  <subfield code="a">Visual perception.</subfield>
</datafield>
<datafield tag="700" ind1="1" ind2=" ">
  <subfield code="a">Rand, Ted,</subfield>
  <subfield code="e">ill.</subfield>
</datafield>
</record>
</collection>

```

B.2 The same MARC 21 record in a labelled display

For indicators the value "blank" is represented by underscore.

```

000 01142cam 2200301 a 4500
001 92005291
003 DLC
005 19930521155141.9
008 920219s1993 caua j 000 0 eng
010 __|a 92005291
020 __|a0152038655 :|c$15.95
040 __|aDLC|cDLC|dDLC
042 __|alcac
050 00|aPS3537.A618|bA88 1993
082 00|a811/.52|220
100 1_|aSandburg, Carl,|d1878-1967.
245 10|aArithmetic /|cCarl Sandburg ; illustrated as an anamorphic adventure
by Ted Rand.
250 __|a1st ed.
260 __|aSan Diego :|bHarcourt Brace Jovanovich,|cc1993.
300 __|a1 v. (unpaged) :|bill. (some col.) ;|c26 cm.
500 __|aOne Mylar sheet included in pocket.
520 __|aA poem about numbers and their characteristics. Features anamorphic,
or distorted, drawings which can be restored to normal by viewing from a
particular angle or by viewing the image's reflection in the provided
Mylar cone.

```


650 _0|aArithmetic|xJuvenile poetry.
 650 _0|aChildren's poetry, American.
 650 _1|aArithmetic|xPoetry.
 650 _1|aAmerican poetry.
 650 _1|aVisual perception.
 700 1_|aRand, Ted, |eill.

B.3 Example of a UNIMARC record that complies with MarcXchange

```
<?xml version="1.0" encoding="windows-1251"?>
<collection xmlns=" info:lc/xmlns/marcxchange-v1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation=" info:lc/xmlns/marcxchange-v1 http://www.loc.gov/iso25577/v1/marcxchange-1-1.xsd">
  <record format="UNIMARC" type="Bibliographic">
    <leader>01307nam0 2200349 i 450 </leader>
    <controlfield tag="001">RU/NLR/BIBL/128053</controlfield>
    <controlfield tag="005">20050608165836.0</controlfield>
    <datafield tag="010" ind1=" " ind2=" ">
      <subfield code="a">0-19-925621-7</subfield>
    </datafield>
    <datafield tag="100" ind1=" " ind2=" ">
      <subfield code="a">20050512d2003 u y0engy0189 ba</subfield>
    </datafield>
    <datafield tag="101" ind1="0" ind2=" ">
      <subfield code="a">eng</subfield>
    </datafield>
    <datafield tag="102" ind1=" " ind2=" ">
      <subfield code="a">GB</subfield>
    </datafield>
    <datafield tag="105" ind1=" " ind2=" ">
      <subfield code="a">y |||||</subfield>
    </datafield>
    <datafield tag="200" ind1="1" ind2=" ">
      <subfield code="a">The Liberal Party in rural England, 1885-1910</subfield>
      <subfield code="e">radicalism and community</subfield>
      <subfield code="f">Patricia Lynch</subfield>
    </datafield>
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