Functional Requirements for Bibliographic Records

Final Report

IFLA Study Group on the Functional Requirements for Bibliographic Records Approved by the Standing Committee of the

IFLA Section on Cataloguing
K. G. Saur München 1998

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IFLA Section on Cataloguing

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Frankfurt am Main, Germany

September 1997
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1. INTRODUCTION

1.1 Background

Almost forty years ago the International Federation of Library Associations and Institutions (IFLA) initiated a fundamental re-examination of cataloguing theory and practice on an international level. The first important outcome of that effort was a set of cataloguing principles agreed to at an international conference held in Paris in 1961 that have subsequently come to be known as the Paris Principles. A second key undertaking was initiated at the International Meeting of Cataloguing Experts held in Copenhagen in 1969 with the adoption of a resolution to establish international standards for the form and content of bibliographic descriptions. The first of the standards developed under that resolution, the International Standard Bibliographic Description for Monographic Publications, was published in 1971. In the years that have followed those initial undertakings the Paris Principles and the ISBDs have served as the bibliographic foundation for a variety of new and revised national and international cataloguing codes.

During that same period, however, the environment within which cataloguing principles and standards operate has changed dramatically. Key factors contributing to the change have been the introduction and ongoing development of automated systems for the creation and processing of bibliographic data, and the growth of large-scale databases, both national and international in scope, that contain records contributed and used by thousands of libraries participating in shared cataloguing programs. The growth of shared cataloguing has been spurred not only by the opportunities that new technologies bring with them but also by an increasing need to reduce cataloguing costs by minimizing duplicate cataloguing effort. Economic pressures have also prompted libraries to try to simplify the cataloguing process and to do more and more “minimal level” cataloguing in order to keep pace with the continued growth of publishing output. On the other side of the coin, there has been an increasing need to adapt cataloguing codes and practices to accommodate change resulting from the emergence of new forms of electronic publishing, and the advent of networked access to information resources. Equally important has been a recognized need to respond more effectively to an increasingly broad range of user expectations and needs.
It was this changing environment that formed the backdrop to the 1990 Stockholm Seminar on Bibliographic Records, sponsored by the IFLA Universal Bibliographic Control and International MARC (UBCIM) Programme and the IFLA Division of Bibliographic Control. While the participants in the Seminar recognized the economic realities faced by libraries and the need to reduce the cost of cataloguing, they also acknowledged the importance of meeting user needs and addressing more effectively the broad range of needs associated with various types of material and the various contexts within which bibliographic records are used. It was recognized that continuing pressure to do “minimal level” cataloguing required a careful re-examination of the relationship between individual data elements in the record and the needs of the user. It was also recognized that in this context the viability of shared cataloguing programs, both nationally and internationally, required an agreed standard for a “basic” or “core” level record.

There were nine resolutions adopted at the Stockholm Seminar, one of which led directly to the current study. That resolution called for the commissioning of a study to define the functional requirements for bibliographic records. The terms of reference that were subsequently developed for the study stated its purpose and scope as follows:

The purpose of this study is to delineate in clearly defined terms the functions performed by the bibliographic record with respect to various media, various applications, and various user needs. The study is to cover the full range of functions for the bibliographic record in its widest sense—i.e., a record that encompasses not only descriptive elements, but access points (name, title, subject, etc.), other "organizing" elements (classification, etc.), and annotations.

The aim of the study was to produce a framework that would provide a clear, precisely stated, and commonly shared understanding of what it is that the bibliographic record aims to provide information about, and what it is that we expect the record to achieve in terms of answering user needs.

The terms of reference also gave a second charge to the study group: to recommend a basic level of functionality and basic data requirements for records created by national bibliographic agencies. The purpose of formulating recommendations for a basic level national bibliographic record was to address the need identified at the Stockholm Seminar for a core level standard that would allow national bibliographic agencies to reduce their cataloguing costs through the creation, as necessary, of less-than-full-level records, but at the same time ensure that all records produced by national bibliographic agencies met essential user needs.

The terms of reference for the study were approved by the Standing Committee of the IFLA Section on Cataloguing at the September 1992 IFLA Conference in New
Delhi. Members of the study group were appointed from both the Section on Cataloguing and the Section on Classification and Indexing.

The study group completed its lengthy deliberations for its draft report in the fall of 1995. The study group consultants were responsible for writing various interim working documents and the completed draft report. In May 1996 the draft report was sent to the members of the IFLA Section on Cataloguing and the study’s volunteer commentators for a six-month, world-wide review. The draft report was also available electronically through the World Wide Web on the IFLA Section on Cataloguing’s home page for other individuals and organizations to review and comment on. As a result of the six-month review, the study group received forty responses from sixteen countries. Most of the comments involved the draft report’s organization, the definition of terms, the methodology, and conclusions relating to the requirements for specific types of material. Reviewers recommended that more examples be added in order to clarify various definitions and concepts.

In February 1997 the study group met to discuss the world-wide review comments and decide how to revise the report. Following this meeting the consultants incorporated the final revisions into the report. Ms. Olivia Madison, the study group chair, presented the final report to the Standing Committee of the IFLA Section on Cataloguing at the 63rd (1997) General Conference of the International Federation of Library Associations and Institutions held in Copenhagen, Denmark. The Standing Committee approved the study group’s final report at its meeting on September 5, 1997.

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1.2 Approach

The terms of reference for the study called for the development of a framework that identifies and clearly defines the entities of interest to users of bibliographic records, the attributes of each entity, and the types of relationships that operate between entities. The intent was to produce a conceptual model that would serve as the basis for relating specific attributes and relationships (reflected in the record as discrete data elements) to the various tasks that users perform when consulting bibliographic records.

The study makes no a priori assumptions about the bibliographic record itself, either in terms of content or structure. It takes a user-focused approach to analyzing data requirements insofar as it endeavours to define in a systematic way what it is that the user expects to find information about in a bibliographic record and how that information is used.
The study uses an entity analysis technique that begins by isolating the entities that are the key objects of interest to users of bibliographic records. The study then identifies the characteristics or attributes associated with each entity and the relationships between entities that are most important to users in formulating bibliographic searches, interpreting responses to those searches, and “navigating” the universe of entities described in bibliographic records. The model developed in the study is comprehensive in scope but not exhaustive in terms of the entities, attributes, and relationships that it defines. The model operates at the conceptual level; it does not carry the analysis to the level that would be required for a fully developed data model.

For the purposes of the study, the users of bibliographic records are seen to encompass a broad spectrum, including not only library clients and staff, but also publishers, distributors, retailers, and the providers and users of information services outside traditional library settings. The study also takes into account the wide range of applications in which bibliographic records are used: in the context of purchasing or acquisitions, cataloguing, inventory management, circulation and interlibrary loan, and preservation, as well as for reference and information retrieval. As a result, the attributes and relationships identified in the study reflect the breadth of use that is made of bibliographic information, and the importance to users of aspects of both content and form of the materials described in bibliographic records.

The study also endeavours to be comprehensive in terms of the range of materials, media, and formats that are covered. The study group drew on a wide range of sources identifying data pertaining to textual, cartographic, audio-visual, graphic, and three-dimensional materials; to paper, film, magnetic tape, and optical media; and to acoustic, electric, digital, and optical recording modes.

The basic elements of the model developed for the study--the entities, attributes, and relationships--were derived from a logical analysis of the data that are typically reflected in bibliographic records. The principal sources used in the analysis included the International Standard Bibliographic Descriptions (ISBDs), the Guidelines for Authority and Reference Entries (GARE), the Guidelines for Subject Authority and Reference Entries (GSARE), and the UNIMARC Manual. Additional data were culled from other sources such as the AITF Categories for the Description of Works of Art, from input provided by experts who were consulted as drafts of the report were being prepared, from an extensive review of published user studies, and from comments received as part of the world-wide review of the draft report.

It is important to note that the model developed for the study does not cover the extended range of attributes and relationships that are normally reflected in authority records. The model defines the entities that are the focus of authority records--persons, corporate bodies, concepts, etc.--and depicts the relationships
between those entities and the entities described in the bibliographic record \textit{per se}. The model also defines attributes of those entities to the extent that such attributes are typically reflected in the bibliographic record. But it does not analyse the additional data that are normally recorded in an authority record, nor does it analyse the relationships between and among those entities that are generally reflected in the syndetic apparatus of the catalogue. While it is recognized that an extended level of analysis would be necessary for a fully developed conceptual model, the terms of reference for the current study, with its focus on bibliographic data, as distinct from authority data, and the constraints of time available for the study, ruled out such an extended level of analysis. Nevertheless, the study group recognizes the need to extend the model at some future date to cover authority data.

The recommendations for a basic level national bibliographic record were arrived at by assessing the relative importance of the attributes and relationships identified in the model to the generic user tasks defined for the study. The assessment was based in large part on the knowledge and experience of the study group members and consultants, supplemented by evidence in the library science literature gathered from empirical research, as well as by assessments made by several experts outside the study group.

### 1.3 Areas for Further Study

The model developed for this study represents an initial attempt to establish a logical framework to assist in the understanding and further development of conventions for bibliographic description. It is intended to provide a base for common understanding and further dialogue, but it does not presume to be the last word on the issues it addresses. Certain aspects of the model merit more detailed analysis and there are dimensions of the model that could be extended. To fulfill the second charge in its terms of reference, the study group used the model as the framework for its recommendations on a basic level national bibliographic record. It is hoped, however, that the model itself will serve as a useful starting point for a number of follow-up studies of interest to those involved with designing cataloguing codes and systems to support the creation, management, and use of bibliographic data.

The model could be extended to cover the additional data that are normally recorded in authority records. In particular, further analysis is needed of the entities that are the centre of focus for subject authorities, thesauri, and classification schemes, and of the relationships between those entities.

Certain aspects of the model merit more detailed examination. The identification and definition of attributes for various types of material could be extended through
further review by experts and through user studies. In particular, the notion of “seriality” and the dynamic nature of entities recorded in digital formats merit further analysis.

The model developed for this study represents, as far as possible, a “generalized” view of the bibliographic universe; it is intended to be independent of any particular cataloguing code or implementation of the concepts it represents. In certain respects, however, it is arbitrary in the way it reflects what are usually referred to in such models as “business rules” (e.g., in the criteria used to define the boundaries of a work). Those responsible for the development of national cataloguing codes might find it useful to adapt the model to reflect the “business rules” or operative principles that apply within their particular cultural context and bibliographic tradition. An exercise of that kind might provide useful insights into the logical concepts that are reflected in national codes, and assist the designers in articulating those concepts more precisely and in reflecting them more consistently as the codes are developed to meet new requirements.

At the international level, the model’s mapping of individual attributes and relationships to the specific ways in which bibliographic data are used could serve as a useful framework for re-assessing data recording conventions and standards with a view to rationalizing the level of effort that is expended in “normalizing” bibliographic data. It could also help to frame investigations into the potential for more economic means of data capture. In the same vein, the recommendations pertaining to the basic level national bibliographic record could serve as a useful starting point for resumption of work on a concise ISBD by the Standing Committee of the IFLA Section on Cataloguing.

The entity-relationship analysis reflected in the model might also serve as a useful conceptual framework for a re-examination of the structures used to store, display, and communicate bibliographic data. Further study could be done on the practical implications of restructuring MARC record formats to reflect more directly the hierarchical and reciprocal relationships outlined in the model. An examination of that kind might offer a new approach to the so-called “multiple versions” issue. The model could also be expanded in depth to create a fully developed data model that would serve as the basis for the design of an experimental database to assess the efficiency and effectiveness of a database structure patterned on the model.
2. **Objectives, Scope, and Methodology**

2.1 **Objectives of the Study**

The study has two primary objectives. The first is to provide a clearly defined, structured framework for relating the data that are recorded in bibliographic records to the needs of the users of those records. The second objective is to recommend a basic level of functionality for records created by national bibliographic agencies.

2.2 **Scope**

For the purposes of this study a bibliographic record is defined as the aggregate of data that are associated with entities described in library catalogues and national bibliographies. Included in that aggregate of data are descriptive data elements such as those defined in the *International Standard Bibliographic Descriptions* (ISBDs); data elements used in headings for persons, corporate bodies, titles, and subjects that function as filing devices or index entries; other data elements used to organize a file of records, such as classification numbers; annotations such as abstracts or summaries; and data specific to the copies in library collections, such as accession numbers and call numbers.

Data associated with persons, corporate bodies, titles, and subjects are analysed only to the extent that they function as headings or index entries for the records describing bibliographic entities. The present study does not analyse those additional data associated with persons, corporate bodies, works, and subjects that are typically recorded only in authority records.

The study endeavours to be comprehensive in terms of the variety of materials that are covered. The data included in the study pertain to textual, music, cartographic, audio-visual, graphic and three-dimensional materials; they cover the full range of physical media described in bibliographic records (paper, film, magnetic tape, optical storage media, etc.); they cover all formats (books, sheets, discs, cassettes,
cartridges, etc.); and they reflect all modes of recording information (analogue, acoustic, electric, digital, optical, etc.).

The study assumes that the data included in bibliographic records produced for national bibliographies and library catalogues are used by a wide range of users: readers, students, researchers, library staff, publishers, distribution agents, retailers, information brokers, administrators of intellectual property rights, etc. The study takes into account the wide variety of applications, both within and outside a library setting, in which the data in bibliographic records are used: collections development, acquisitions, cataloguing, the production of finding aids and bibliographies, inventory management, preservation, circulation, interlibrary loan, reference, and information retrieval.

Within the context of such applications users may make use of bibliographic records for a variety of purposes, for example: to determine what information resources exist, perhaps on a particular subject or by a particular person, within a given “universe” (e.g., within the totality of available information resources, within the published output of a particular country, within the holdings of a particular library or group of libraries, etc.); to verify the existence and/or availability of a particular document for purposes of acquiring, borrowing or lending; to identify a source or sources from which a document can be obtained and the terms under which it is available; to determine whether a record already exists for an item being added to a collection or whether a new record needs to be created; to track an item as it moves through a process such as binding or conservation treatment; to determine whether an item can be circulated or sent out on interlibrary loan; to select a document or group of documents that will serve the information needs of the user; or to determine the physical requirements for use of an item as they relate either to the abilities of the user or to special requirements for playback equipment, computing capabilities, etc.

For the purposes of this study the functional requirements for bibliographic records are defined in relation to the following generic tasks that are performed by users when searching and making use of national bibliographies and library catalogues:

- using the data to find materials that correspond to the user’s stated search criteria (e.g., in the context of a search for all documents on a given subject, or a search for a recording issued under a particular title);

- using the data retrieved to identify an entity (e.g., to confirm that the document described in a record corresponds to the document sought by the user, or to distinguish between two texts or recordings that have the same title);

- using the data to select an entity that is appropriate to the user’s needs (e.g., to select a text in a language the user understands, or to choose a version of a
computer program that is compatible with the hardware and operating system available to the user);

- using the data in order to acquire or obtain access to the entity described (e.g., to place a purchase order for a publication, to submit a request for the loan of a copy of a book in a library’s collection, or to access online an electronic document stored on a remote computer).

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### 2.3 Methodology

The methodology used in this study is based on an entity analysis technique that is used in the development of conceptual models for relational database systems. Although the study is not intended to serve directly as a basis for the design of bibliographic databases, the technique was chosen as the basis for the methodology because it provides a structured approach to the analysis of data requirements that facilitates the processes of definition and delineation that were set out in the terms of reference for the study.

The first step in the entity analysis technique is to isolate the key objects that are of interest to users of information in a particular domain. These objects of interest or entities are defined at as high a level as possible. That is to say that the analysis first focuses attention not on individual data but on the "things" the data describe. Each of the entities defined for the model, therefore, serves as the focal point for a cluster of data. An entity diagram for a personnel information system, for example, would likely identify "employee" as one entity that would be of interest to the users of such a system.

At a high level an entity diagram also depicts the relationships that normally hold between one type of entity and another type of entity. The model for a personnel information system, for example, would likely indicate a reciprocal relationship between the entity "employee" and the entity "position": an employee "occupies" a position; a position "is occupied by" an employee.

Once the high-level structure for the model has been charted by identifying the principal entities and the relationships between those entities, the next step in the methodology is to identify the important characteristics or attributes of each entity. For example, in the context of a personnel information system, the attributes associated with an employee might include the employee name, address, birth date, social insurance number, etc.

As an extension of the technique that is used to depict the relationships between entity types, the entity analysis methodology can also be applied at a more detailed
level to depict the specific relationships that operate between instances of entities. For example, the model for a personnel information system might show that relationships may exist between an individual employee and another employee (e.g., a spousal relationship). If such relationships are significant for the users of information in the domain being modeled, they will be defined as part of the model.

The entity-relationship structure derived from the analysis of entities, attributes, and relationships has been used in this study as the framework for assessing the relevance of each attribute and relationship to the tasks performed by users of bibliographic data. Each attribute and relationship is mapped to the four generic user tasks defined for the study, and relative values are assigned to each attribute and relationship with specific reference to the task performed and the entity that is the object of the user’s interest.

The entity-relationship structure and the mapping of attributes and relationships to user tasks are used as the basis for the study group’s recommendations on a basic level of functionality for records created by national bibliographic agencies. The recommendations are focused on the user tasks that are judged to be the most important for the national bibliographic record to support. Based on the relative values assigned to the attributes and relationships that support those tasks, the recommendations identify specific data requirements for the basic record.

The entity-relationship analysis technique and the conventions for graphic presentation that are used in this study are based in large part on the methodology developed by James Martin and outlined in his book Strategic Data-Planning Methodologies (Prentice-Hall, 1982). Graeme Simson’s Data Modeling Essentials (Van Nostrand Reinhold, 1994), Richard Perkinson’s Data Analysis: the Key to Data Base Design (QED Information Sciences, 1984), and Ramez Elmasri and Shamkant Navathe’s Fundamentals of Database Systems (Benjamin/Cummings, 1989) were also used in shaping the methodology for the study. All four books are recommended to those who are interested in additional background and more detail on entity-relationship analysis.

2.4 Components of the Study

The entity analysis technique and the mapping of attributes and relationships to user tasks form the framework for this study’s assessment of data requirements for records intended to serve the needs of users of bibliographic information, and for the study group’s recommendations on basic data to be included in a national bibliographic record. The remainder of the report is divided into two major segments. The first sets out the entity-relationship model; the second presents the study group’s recommendations for a basic level national bibliographic record.
The first segment of the study contains four chapters:

- Chapter 3 of the study identifies the entities that have been used in the model, naming, defining, and elaborating on their nature and scope.

- Chapter 4 analyses the attributes associated with each of the entities defined for the model, and provides definitions for each attribute. That analysis is then expanded in Appendix A to give a comprehensive listing of individual data elements associated with each attribute.

- Chapter 5 delineates the relationships used in the model, defining and elaborating on the nature of relationships that operate at a generalized level in the model as well as those that operate between specific instances of entities.

- Chapter 6 maps the attributes and relationships associated with each entity to the four generic user tasks the bibliographic record is intended to support, showing the relevance of each attribute or relationship to each of the user tasks.

The second segment of the study contains a single chapter:

- Chapter 7 uses the mapping in Chapter 6 as the frame of reference for the study group’s recommendations regarding basic data requirements for national bibliographic records.

The report also contains an appendix that correlates the logical attributes defined in Chapter 4 with the data elements defined in the ISBDs, the *Guidelines for Authority and Reference Entries*, and the *UNIMARC Manual*. 
3. **ENTITIES**

3.1 **Overview**

The entities that have been defined for this study represent the key objects of interest to users of bibliographic data. The entities have been divided into three groups. The first group comprises the products of intellectual or artistic endeavour that are named or described in bibliographic records: *work, expression, manifestation*, and *item*. The second group comprises those entities responsible for the intellectual or artistic content, the physical production and dissemination, or the custodianship of such products: *person* and *corporate body*. The third group comprises an additional set of entities that serve as the subjects of intellectual or artistic endeavour: *concept, object, event, and place*.

Sections 3.1.1 through 3.1.3 present the entities in each of the three groups in a simplified schematic form, depicting the underlying relationships between each of the entity types.

Sections 3.2.1 through 3.2.10 provide a more detailed explanation of each of the entities defined in the model.

Chapter 5 (sections 5.2.1 through 5.2.3) provides a more detailed explanation of the relationships between the different types of entities that are depicted in the entity-relationship diagrams in sections 3.1.1. through 3.1.3.

3.1.1 **Group 1 Entities: Work, Expression, Manifestation, Item**

The entities in the first group (as depicted in Figure 3.1) represent the different aspects of user interests in the products of intellectual or artistic endeavour. The entities defined as *work* (a distinct intellectual or artistic creation) and *expression* (the intellectual or artistic realization of a work) reflect intellectual or artistic content. The entities defined as *manifestation* (the physical embodiment of an expression of a work) and *item* (a single exemplar of a manifestation), on the other hand, reflect physical form.
The relationships depicted in the diagram indicate that a work may be realized through one or more than one expression (hence the double arrow on the line that links work to expression). An expression, on the other hand, is the realization of one and only one work (hence the single arrow on the reverse direction of that line linking expression to work). An expression may be embodied in one or more than one manifestation; likewise a manifestation may embody one or more than one expression. A manifestation, in turn, may be exemplified by one or more than one item; but an item may exemplify one and only one manifestation.

**Figure 3.1: Group 1 Entities and Primary Relationships**

![Diagram of Group 1 Entities and Primary Relationships](image)

3.1.2 Group 2 Entities: Person, Corporate Body

The entities in the second group (outlined in bold in Figure 3.2) represent those responsible for the intellectual or artistic content, the physical production and dissemination, or the custodianship of the entities in the first group. The entities in the second group include person (an individual) and corporate body (an organization or group of individuals and/or organizations).

The diagram depicts the type of “responsibility” relationships that exist between entities in the second group and the entities in the first group. The diagram indicates that a work may be created by one or more than one person and/or one or more than one corporate body. Conversely, a person or a corporate body may create one or more than one work. An expression may be realized by one or more than one person and/or corporate body; and a person or corporate body may
realize one or more than one expression. A manifestation may be produced by one or more than one person or corporate body; a person or corporate body may produce one or more than one manifestation. An item may be owned by one or more than one person and/or corporate body; a person or corporate body may own one or more than one item.

Figure 3.2: Group 2 Entities and “Responsibility” Relationships
Figure 3.3: Group 3 Entities and “Subject” Relationships
3.1.3 Group 3 Entities: Concept, Object, Event, Place

The entities in the third group (outlined in bold in Figure 3.3) represent an additional set of entities that serve as the subjects of works. The group includes concept (an abstract notion or idea), object (a material thing), event (an action or occurrence), and place (a location).

The diagram depicts the “subject” relationships between entities in the third group and the work entity in the first group. The diagram indicates that a work may have as its subject one or more than one concept, object, event, and/or place. Conversely, a concept, object, event, and/or place may be the subject of one or more than one work.

The diagram also depicts the “subject” relationships between work and the entities in the first and second groups. The diagram indicates that a work may have as its subject one or more than one work, expression, manifestation, item, person, and/or corporate body.

3.2 The Entities

3.2.1 Work

The first entity defined in the model is work: a distinct intellectual or artistic creation.

A work is an abstract entity; there is no single material object one can point to as the work. We recognize the work through individual realizations or expressions of the work, but the work itself exists only in the commonality of content between and among the various expressions of the work. When we speak of Homer’s Iliad as a work, our point of reference is not a particular recitation or text of the work, but the intellectual creation that lies behind all the various expressions of the work.

Because the notion of a work is abstract, it is difficult to define precise boundaries for the entity. The concept of what constitutes a work and where the line of demarcation lies between one work and another may in fact be viewed differently from one culture to another. Consequently the bibliographic conventions established by various cultures or national groups may differ in terms of the criteria they use for determining the boundaries between one work and another.

For the purposes of this study variant texts incorporating revisions or updates to an earlier text are viewed simply as expressions of the same work (i.e., the variant texts are not viewed as separate works). Similarly, abridgements or enlargements
of an existing text, or the addition of parts or an accompaniment to a musical composition are considered to be different expressions of the same work. Translations from one language to another, musical transcriptions and arrangements, and dubbed or subtitled versions of a film are also considered simply as different expressions of the same original work.

Examples

- $w_1$ Henry Gray’s *Anatomy of the human body*
  - $e_1$ text and illustrations for the first edition
  - $e_2$ text and illustrations for the second edition
  - $e_3$ text and illustrations for the third edition
  - ...

- $w_1$ J. S. Bach’s *The art of the fugue*
  - $e_1$ the composer’s score for organ
  - $e_2$ an arrangement for chamber orchestra by Anthony Lewis
  - ...

- $w_1$ *Jules et Jim* (motion picture)
  - $e_1$ the original French language version
  - $e_2$ the original with English subtitles added
  - ...

By contrast, when the modification of a work involves a significant degree of independent intellectual or artistic effort, the result is viewed, for the purpose of this study, as a new work. Thus paraphrases, rewritings, adaptations for children, parodies, musical variations on a theme and free transcriptions of a musical composition are considered to represent new works. Similarly, adaptations of a work from one literary or art form to another (e.g., dramatizations, adaptations from one medium of the graphic arts to another, etc.) are considered to represent new works. Abstracts, digests and summaries are also considered to represent new works.

Examples

- $w_1$ John Bunyan’s *The pilgrim’s progress*
- $w_2$ an anonymous adaptation of *The pilgrim’s progress* for young readers
- ...

- $w_1$ William Shakespeare’s *Romeo and Juliet*
- $w_2$ Franco Zeffirelli’s motion picture *Romeo and Juliet*
- $w_3$ Baz Lurhmann’s motion picture *William Shakespeare’s Romeo and Juliet*
On a pragmatic level, defining work as an entity in the model serves a number of purposes. It enables us to give a name and draw relationships to the abstract intellectual or artistic creation that encompasses all the individual expressions of that work. Thus, when we describe a work of literary criticism dealing with Homer’s Iliad, for example, we are able to relate the work of criticism to the work that it treats as its subject. By naming Homer’s work and defining the relationship between it and the work of criticism, we are able to indicate that the subject of the work of criticism is in fact the abstraction we know as the Iliad, and not any specific expression of that work.

Defining work as an entity also enables us to establish indirect relationships between expressions of the same work in cases where we are unable to draw direct relationships between individual expressions. For example, there may exist many translations of a work (e.g., Anne of Green Gables), and it may not always be possible or necessary to specify the text that has served as the basis for a given translation. In that case we do not draw a direct relationship between individual expressions of the work (i.e., between the translation and the text or texts on which the translation was based), but we relate those and other texts and translations of the work implicitly by relating each of them to the entity we call the work.

Relating expressions of a work indirectly by relating each expression to the work that it realizes is often the most efficient means of grouping related expressions. In effect, the name we give to the work serves as the name for the entire set or group of expressions that are realizations of the same intellectual or artistic creation (e.g., Lancelot du Lac). It is the entity defined as work, therefore, that provides us with this grouping capability.

3.2.2 Expression

The second entity defined in the model is expression: the intellectual or artistic realization of a work in the form of alpha-numeric, musical, or choreographic notation, sound, image, object, movement, etc., or any combination of such forms.

An expression is the specific intellectual or artistic form that a work takes each time it is “realized.” Expression encompasses, for example, the specific words, sentences, paragraphs, etc. that result from the realization of a work in the form of a text, or the particular notes, phrasing, etc. resulting from the realization of a musical work. The boundaries of the entity expression are defined, however, so as to exclude aspects of physical form, such as typeface and page layout, that are not integral to the intellectual or artistic realization of the work as such.
Inasmuch as the form of expression is an inherent characteristic of the expression, any change in form (e.g., from alpha-numeric notation to spoken word) results in a new expression. Similarly, changes in the intellectual conventions or instruments that are employed to express a work (e.g., translation from one language to another) result in the production of a new expression. Strictly speaking, any change in intellectual or artistic content constitutes a change in expression. Thus, if a text is revised or modified, the resulting expression is considered to be a new expression, no matter how minor the modification may be.

Examples

1. Ellwanger’s Tennis—bis zum Turnierspieler
   - e₁ the original German text
   - e₂ the English translation by Wendy Gill
   - . . . .

2. Franz Schubert’s Trout quintet
   - e₁ the composer’s score
   - e₂ a performance by the Amadeus Quartet and Hephzibah Menuhin on piano
   - e₃ a performance by the Cleveland Quartet and Yo-Yo Ma on the cello
   - . . . .

On a practical level, the degree to which bibliographic distinctions are made between variant expressions of a work will depend to some extent on the nature of the work itself, and on the anticipated needs of users. Differences in form of expression (e.g., the differences between the expression of a work in the form of musical notation and the expression of the same work in the form of recorded sound) will normally be reflected in the bibliographic record, no matter what the nature of the work itself may be. Variant expressions in the same form (e.g., revised versions of a text) will often be indirectly identified as different expressions because the variation is apparent from the data associated with an attribute used to identify the manifestation in which the expression is embodied (e.g., an edition statement). Variations that would be evident only from a more detailed analysis and comparison of expressions (e.g., variations between several of the early texts of Shakespeare’s Hamlet) would normally be reflected in the data only if the nature or stature of the work warranted such analysis, and only if it was anticipated that the distinction would be important to users.

Defining expression as an entity in the model gives us a means of reflecting the distinctions in intellectual or artistic content that may exist between one realization and another of the same work. With expression defined as an entity, we can describe the intellectual or artistic attributes of a particular realization of a work,
and use the differences in those attributes to signal differences in intellectual or artistic content.

Defining expression as an entity also enables us to draw relationships between specific expressions of a work. We can use the entity called expression to identify, for example, the specific text on which a translation is based, or the specific score used for the performance of a musical composition.

We can also use the entity defined as expression to indicate that the intellectual or artistic content embodied in one manifestation is in fact the same as that embodied in another manifestation. If two manifestations embody the same intellectual or artistic content, even though the physical embodiment may differ and differing attributes of the manifestations may obscure the fact that the content is the same in both, we can make the common link through the entity defined as expression.

3.2.3 Manifestation

The third entity defined in the model is manifestation: the physical embodiment of an expression of a work.

The entity defined as manifestation encompasses a wide range of materials, including manuscripts, books, periodicals, maps, posters, sound recordings, films, video recordings, CD-ROMs, multimedia kits, etc. As an entity, manifestation represents all the physical objects that bear the same characteristics, in respect to both intellectual content and physical form.

When a work is realized, the resulting expression of the work may be physically embodied on or in a medium such as paper, audio tape, video tape, canvas, plaster, etc. That physical embodiment constitutes a manifestation of the work. In some cases there may be only a single physical exemplar produced of that manifestation of the work (e.g., an author’s manuscript, a tape recorded for an oral history archive, an original oil painting, etc.). In other cases there are multiple copies produced in order to facilitate public dissemination or distribution. In those cases there is normally a more formal production process involved, and a publisher, producer, or distributor takes responsibility for the process. In other cases there may be only a limited number of copies made of an original exemplar for purposes such as private study (e.g., a dubbing of an original recording of a piece of music), or preservation (e.g., a photocopy produced on permanent paper of an author’s original typescript). Whether the scope of production is broad (e.g., in the case of publication, etc.) or limited (e.g., in the case of copies made for private study, etc.), the set of copies produced in each case constitutes a manifestation. All copies produced that form part of the same set are considered to be copies of the same manifestation.
The boundaries between one *manifestation* and another are drawn on the basis of both intellectual content and physical form. When the production process involves changes in physical form the resulting product is considered a new *manifestation*. Changes in physical form include changes affecting display characteristics (e.g., a change in typeface, size of font, page layout, etc.), changes in physical medium (e.g., a change from paper to microfilm as the medium of conveyance), and changes in the container (e.g., a change from cassette to cartridge as the container for a tape). Where the production process involves a publisher, producer, distributor, etc., and there are changes signaled in the product that are related to publication, marketing, etc. (e.g., a change in publisher, repackaging, etc.), the resulting product may be considered a new *manifestation*. Whenever the production process involves modifications, additions, deletions, etc. that affect the intellectual or artistic content, the result is a new *manifestation* embodying a new expression of the work.

**Examples**

- **w₁** Harry Lindgren’s *Geometric dissections*
  - **e₁** original text entitled *Geometric dissections*
    - **m₁** the book published in 1964 by Van Nostrand
  - **e₂** revised text entitled *Recreational problems in geometric dissections* ....
    - **m₁** the book published in 1972 by Dover

- **w₁** J. S. Bach’s *Six suites for unaccompanied cello*
  - **e₁** performances by Janos Starker recorded in 1963 and 1965
    - **m₁** recordings released on 33 1/3 rpm sound discs in 1965 by Mercury
    - **m₂** recordings re-released on compact disc in 1991 by Mercury
  - **e₂** performances by Yo-Yo Ma recorded in 1983
    - **m₁** recordings released on 33 1/3 rpm sound discs in 1983 by CBS Records
    - **m₂** recordings re-released on compact disc in 1992 by CBS Records
Jean Jolivet’s *Vraie description des Gaules*...
- \( e_1 \) the cartographer’s original rendering
  - \( m_1 \) the map issued in 1570
  - \( m_2 \) a facsimile reproduction published in 1974 by Hier et demain

*The Wall Street Journal*
- \( e_1 \) the Eastern edition
  - \( m_1 \) the print format of the Eastern edition
  - \( m_2 \) the microfilm of the Eastern edition
- \( e_2 \) the Western edition
  - \( m_1 \) the print format of the Western edition
  - \( m_2 \) the microfilm of the Western edition

Changes that occur deliberately or even inadvertently in the production process that affect the copies result, strictly speaking, in a new *manifestation*. A *manifestation* resulting from such a change may be identified as a particular “state” or “issue” of the publication.

Changes that occur to an individual copy after the production process is complete (e.g., the loss of a page, rebinding, etc.) are not considered to result in a new *manifestation*. That copy is simply considered to be an exemplar (or *item*) of the *manifestation* that deviates from the copy as produced.

Defining *manifestation* as an entity enables us to name and describe the complete set of *items* that result from a single act of physical embodiment or production. The entity *manifestation* serves to describe the shared characteristics of copies of a particular publication, edition, release, etc., as well as to describe unique productions such as manuscripts, original oil paintings, etc.

With the entity defined as *manifestation* we can describe the physical characteristics of a set of *items* and the characteristics associated with the production and distribution of that set of *items* that may be important factors in enabling users to choose a *manifestation* appropriate to their physical needs and constraints, and to identify and acquire a copy of that *manifestation*.

Defining *manifestation* as an entity also enables us to draw relationships between specific *manifestations* of a *work*. We can use the relationships between *manifestations* to identify, for example, the specific publication that was used to create a microreproduction.

### 3.2.4 Item
The fourth entity defined in the model is *item*: a single exemplar of a *manifestation*.

The entity defined as *item* is a concrete entity. It is in many instances a single physical object (e.g., a copy of a one-volume monograph, a single audio cassette, etc.). There are instances, however, where the entity defined as *item* comprises more than one physical object (e.g., a monograph issued as two separately bound volumes, a recording issued on three separate compact discs, etc.).

In terms of intellectual content and physical form, an *item* exemplifying a *manifestation* is normally the same as the *manifestation* itself. However, variations may occur from one *item* to another, even when the *items* exemplify the same *manifestation*, where those variations are the result of actions external to the intent of the producer of the *manifestation* (e.g., damage occurring after the *item* was produced, binding performed by a library, etc.).

**Examples**

- **w₁** Ronald Hayman’s *Playback*
  - **e₁** the author’s text edited for publication
  - **m₁** the book published in 1973 by Davis-Poynter
    - **i₁** copy autographed by the author

- **w₁** Allan Wakeman’s *Jabberwocky*
  - **e₁** the author’s design for the game and text for the notes
  - **m₁** the game and accompanying notes for teachers
    - **i₁** copy lacking notes for teachers

Defining *item* as an entity enables us to separately identify individual copies of a *manifestation*, and to describe those characteristics that are unique to that particular copy and that pertain to transactions such as circulation, etc. involving that copy.

Defining the entity called *item* also enables us to draw relationships between individual copies of *manifestations*.

### 3.2.5 Person

The fifth entity defined in the model is *person*: an individual.

The entity defined as *person* encompasses individuals that are deceased as well as those that are living.
Examples

- $p_1$ Margaret Atwood
- $p_2$ Hans Christian Andersen
- $p_3$ Queen Victoria
- $p_4$ Anatole France
- . . .

For the purposes of this study persons are treated as entities only to the extent that they are involved in the creation or realization of a work (e.g., as authors, composers, artists, editors, translators, directors, performers, etc.), or are the subject of a work (e.g., as the subject of a biographical or autobiographical work, of a history, etc.).

Defining the entity person enables us to name and identify the individual in a consistent manner, independently of how the individual’s name appears on or in any particular expression or manifestation of a work.

Defining person as an entity also enables us to draw relationships between a specific person and a work or expression of a work for which that person may be responsible, or between a work and the person that is the subject of the work.

3.2.6 Corporate Body

The sixth entity defined in the model is corporate body: an organization or group of individuals and/or organizations acting as a unit.

The entity defined as corporate body encompasses organizations and groups of individuals and/or organizations that are identified by a particular name, including occasional groups and groups that are constituted as meetings, conferences, congresses, expeditions, exhibitions, festivals, fairs, etc. The entity also encompasses organizations that act as territorial authorities, exercising or claiming to exercise government functions over a certain territory, such as a federation, a state, a region, a local municipality, etc. The entity encompasses organizations and groups that are defunct as well as those that continue to operate.
Examples

- \textit{cb}_1 \text{ Museum of American Folk Art}
- \textit{cb}_2 \text{ BBC Symphony Orchestra}
- \textit{cb}_3 \text{ Symposium on Glaucoma}
- \textit{cb}_4 \text{ Regional Municipality of Ottawa-Carleton}
- \ldots

For the purposes of this study \textit{corporate bodies} are treated as entities only to the extent that they are involved in the creation or realization of a \textit{work} (e.g., as the sponsors or endorsers of a \textit{work}, etc.), or are the subject of a \textit{work} (e.g., as the subject of a history, etc.).

Defining the entity \textit{corporate body} enables us to name and identify the organization or group in a consistent manner, independently of how the name of the organization or group appears on or in any particular \textit{expression} or \textit{manifestation} of a \textit{work}.

Defining \textit{corporate body} as an entity also enables us to draw relationships between a specific \textit{corporate body} and a \textit{work} or \textit{expression} of a \textit{work} for which that \textit{corporate body} may be responsible, or between a \textit{work} and the \textit{corporate body} that is the subject of the \textit{work}.

3.2.7 Concept

The seventh entity defined in the model is \textit{concept}: an abstract notion or idea.

The entity defined as \textit{concept} encompasses a comprehensive range of abstractions that may be the subject of a \textit{work}: fields of knowledge, disciplines, schools of thought (philosophies, religions, political ideologies, etc.), theories, processes, techniques, practices, etc. A \textit{concept} may be broad in nature or narrowly defined and precise.

Examples

- \textit{c}_1 \text{ Economics}
- \textit{c}_2 \text{ Romanticism}
- \textit{c}_3 \text{ Hydroponics}
- \textit{c}_4 \text{ Supply-side economics}
- \ldots

For the purposes of this study \textit{concepts} are treated as entities only to the extent that they are the subject of a \textit{work} (e.g., as the subject of a philosophical treatise, of a critique of a school of thought, etc.).
Defining the entity *concept* enables us to name and identify the *concept* in a consistent manner, independently of the presence, absence, or form of the name for that *concept* that appears on or in any particular *expression* or *manifestation* of a *work*.

Defining *concept* as an entity also enables us to draw a relationship between a *work* and the *concept* that is the subject of the *work*.

### 3.2.8 Object

The eighth entity defined in the model is *object*: a material thing.

The entity defined as *object* encompasses a comprehensive range of material things that may be the subject of a *work*: animate and inanimate objects occurring in nature; fixed, movable, and moving objects that are the product of human creation; objects that no longer exist.

**Examples**

- o₁ Buckingham Palace
- o₂ The *Lusitania*
- o₃ *Apollo 11*
- o₄ The Eiffel Tower
- . . .

For the purposes of this study *objects* are treated as entities only to the extent that they are the subject of a *work* (e.g., as the subject of a scientific study, etc.).

Defining the entity *object* enables us to name and identify the *object* in a consistent manner, independently of the presence, absence, or form of the name for that *object* that appears on or in any particular *expression* or *manifestation* of a *work*.

Defining *object* as an entity also enables us to draw a relationship between a *work* and the *object* that is the subject of the *work*. 

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3.2.9 Event

The ninth entity defined in the model is *event*: an action or occurrence.

The entity defined as *event* encompasses a comprehensive range of actions and occurrences that may be the subject of a work: historical events, epochs, periods of time, etc.

**Examples**

- \( e_1 \) The Garment Workers’ Strike
- \( e_2 \) The Battle of Hastings
- \( e_3 \) The Age of Enlightenment
- \( e_4 \) The Nineteenth Century
- . . . .

For the purposes of this study *events* are treated as entities only to the extent that they are the subject of a *work* (e.g., the subject of an historical treatise, of a painting, etc.).

Defining the entity *event* enables us to name and identify the *event* in a consistent manner, independently of the presence, absence, or form of the name for that *event* that appears on or in any particular *expression* or *manifestation* of a *work*.

Defining *event* as an entity also enables us to draw a relationship between a *work* and the *event* that is the subject of the *work*.

3.2.10 Place

The tenth entity defined in the model is *place*: a location.

The entity defined as *place* encompasses a comprehensive range of locations: terrestrial and extra-terrestrial; historical and contemporary; geographic features and geo-political jurisdictions.

**Examples**

- \( pl_1 \) Howard Beach
- \( pl_2 \) The Alacran Reef
- \( pl_3 \) Morey Peak Wilderness Study Area
- \( pl_4 \) Bristol
- . . . .
For the purposes of this study *places* are treated as entities only to the extent that they are the subject of a *work* (e.g., the subject of a map or atlas, or of a travel guide, etc.).

Defining the entity *place* enables us to name and identify the *place* in a consistent manner, independently of the presence, absence, or form of the name for that *place* that appears on or in any particular *expression* or *manifestation* of a *work*.

Defining *place* as an entity also enables us to draw a relationship between a *work* and the *place* that is the subject of the *work*.

### 3.3 Aggregate and Component Entities

The examples used in sections 3.2.1 through 3.2.4 to illustrate the entities *work*, *expression*, *manifestation*, and *item* showed the entities primarily as integral units (e.g., Shakespeare’s *Romeo and Juliet* as an example of a *work*, a particular performance of Schubert’s *Trout quintet* as an *expression*, etc.). The structure of the model, however, permits us to represent aggregate and component entities in the same way as we would represent entities that are viewed as integral units. That is to say that from a logical perspective the entity *work*, for example, may represent an aggregate of individual *works* brought together by an editor or compiler in the form of an anthology, a set of individual monographs brought together by a publisher to form a series, or a collection of private papers organized by an archive as a single *fond*. By the same token, the entity *work* may represent an intellectually or artistically discrete component of a larger *work*, such as a chapter of a report, a segment of a map, an article in a journal, etc. For the purposes of the model, entities at the aggregate or component level operate in the same way as entities at the integral unit level; they are defined in the same terms, they share the same characteristics, and they are related to one another in the same way as entities at the integral unit level. Sections 5.3.1.1, 5.3.2.1, 5.3.4.1, and 5.3.6.1 provide additional information on aggregate and component entities in the context of whole/part relationships.

**Examples**

- *w₁* Robertson Davies’ *The Deptford trilogy*
  - *w₁,₁* Robertson Davies’ *Fifth business*
  - *w₁,₂* Robertson Davies’ *The manticore*
  - *w₁,₃* Robertson Davies’ *World of wonders*

- *w₁* *Visible speech*, edited by Howard Bibb
  - *w₁,₁* Volume 1: *Segmentals*, introduced by Alex
Hanes-White

- **$w_{1.2}$** Volume 2: *Suprasegmentals*, by Mary Loftus
  - **$e_1$** the authors’ texts edited for publication
    - **$m_1$** the electronic resource issued on 3 disks in 1994 by Partners in Speech
      - **$m_{1.1}$** volume 1 (1 electronic disk)
      - **$m_{1.2}$** volume 2 (2 electronic disks + a 104 page manual)

- **$w_1$** The Ordnance Survey’s *1:50 000 Landranger series*
  - **$w_{1.1}$** Mansfield and the Dukeries
    - **$e_1$** revised map with major changes and metric contours
      - **$m_1$** the map printed in 1985
  - **$w_{1.2}$** Luton and Hertford
    - **$e_1$** revised map with major changes
      - **$m_1$** the map printed in 1984

- ....
4. ATTRIBUTES

4.1 Attributes of Entities

Each of the entities defined in the model has associated with it a set of characteristics or attributes. The attributes of the entity serve as the means by which users formulate queries and interpret responses when seeking information about a particular entity.

Attributes, as they are defined in the model, generally fall into two broad categories. There are, on the one hand, attributes that are inherent in an entity, and on the other, those that are externally imputed. The first category includes not only physical characteristics (e.g., the physical medium and dimensions of an object) but also features that might be characterized as labeling information (e.g., statements appearing on the title page, cover, or container). The second category includes assigned identifiers for an entity (e.g., a thematic catalogue number for a musical composition), and contextual information (e.g., the political context in which a work was conceived). Attributes inherent in an entity can usually be determined by examining the entity itself; those that are imputed often require reference to an external source.

A given instance of an entity will generally exhibit only one value for each attribute (e.g., the value for the “physical medium” attribute of a particular object may be “plastic”). In some cases, however, a given instance of an entity may have multiple values for a single attribute (e.g., a book may contain more than one statement indicating the “title of the manifestation”). There are also cases where the value for an attribute of a given instance of an entity may change over time (e.g., the “extent of the carrier” for a serial will change as new volumes are issued). The value for an attribute (particularly an imputed attribute) of a given entity may sometimes be subject to variation, depending on the source that is used as a point of reference.

The attributes defined for each of the entities in the model will not necessarily be exhibited by all instances of that particular entity type. In the list of attributes for each entity, those that are generally applicable to the entity type as a whole are listed first. Those that are applicable only to a sub-type of the entity are listed after
those that are generally applicable, and are qualified by a term indicating the sub-type to which they apply (e.g., “musical work” as a sub-type of work). However, not every instance of an entity type nor every instance of an entity sub-type will exhibit all the attributes listed.

At first glance certain of the attributes defined in the model may appear to duplicate objects of interest that have been separately defined in the model as entities and linked to the entity in question through relationships. For example, the manifestation attribute “statement of responsibility” may appear to parallel the entities person and corporate body and the “responsibility” relationships that link those entities with the work and/or expression embodied in the manifestation. However, the attribute defined as “statement of responsibility” pertains directly to the labeling information appearing in the manifestation itself, as distinct from the relationship between the work contained in the manifestation and the person and/or corporate body responsible for the creation or realization of the work. In many cases the information presented in the “statement of responsibility” will be substantively the same as that which is reflected through the relationships between the work and/or expression and the person and/or corporate body responsible. However, the information may not always be the same. In drawing responsibility relationships to the entities person and corporate body it is possible to correct false or misleading information presented in a “statement of responsibility” or to expand on that information. Using the responsibility relationship to the entites person and corporate body also provides a means of identifying the person or corporate body in a consistent way irrespective of the way in which that person or corporate body is identified in the “statement of responsibility” in that particular manifestation.

The model does not, however, parallel entity relationships with attributes in all cases where such parallels could be drawn. For example, “place of publication/distribution” is defined as an attribute of the manifestation to reflect the statement appearing in the manifestation itself that indicates where it was published. Inasmuch as the model also defines place as an entity it would have been possible to define an additional relationship linking the entity place either directly to the manifestation or indirectly through the entities person and corporate body which in turn are linked through the production relationship to the manifestation. To produce a fully developed data model further definition of that kind would be appropriate. But for the purposes of this study it was deemed unnecessary to have the conceptual model reflect all such possibilities. In cases such as the place of publication example it was considered sufficient simply to define an attribute to reflect labeling information as such without taking the analysis further to delineate a parallel entity relationship. Parallel delineation was done only in cases where it seemed warranted by the need to provide for controlled or normalized access to the information reflected in the attribute.

The attributes defined for the study were derived from a logical analysis of the data that are typically reflected in bibliographic records. The principal sources used in
the analysis included the *International Standard Bibliographic Descriptions* (ISBDs), the *Guidelines for Authority and Reference Entries* (GARE), the *Guidelines for Subject Authority and Reference Entries* (GSARE), and the *UNIMARC Manual*. Additional data were culled from other sources such as the *AITF Categories for the Description of Works of Art*, from input provided by experts who were consulted as drafts of the report were being prepared, from an extensive review of published user studies, and from comments received as part of the world-wide review of the draft report. The scope of attributes included in the model is intended to be comprehensive but not exhaustive.

For the purposes of this study attributes have been defined at a logical level. That is to say that attributes have been expressed in terms of the characteristics of an entity as they might be viewed by a user, rather than as specific data elements defined by those responsible for compiling bibliographic data. In some cases the logical attribute parallels an individual data element (e.g., the logical attribute “manifestation identifier” has been defined in a way that parallels the definition of “standard number (or alternative)” in the ISBD(G)). But in most cases the logical attribute represents an aggregate of discrete data elements (e.g., the logical attribute defined as “title of the manifestation” encompasses several ISBD data elements: title proper (including number/name of part), parallel title, notes giving variant and transliterated titles, and key title). The descriptions of the logical attributes that are given in this chapter provide an indication of the scope of each logical attribute. Appendix A provides a detailed mapping of the logical attributes defined in the model to individual data elements in the ISBDs, the *Guidelines for Authority and Reference Entries* (GARE), the *Guidelines for Subject Authority and Reference Entries* (GSARE), and the *UNIMARC Manual*.

For the purposes of this study, the logical attributes for the entities *person*, *corporate body*, *concept*, *object*, *event*, and *place* include only those that are conventionally displayed as part of the bibliographic record *per se*. Additional logical attributes that might be reflected in an authority record are not included.

### 4.2 Attributes of a Work

The logical attributes of a *work* defined for this study are the following:

- title of the *work*
- form of *work*
- date of the *work*
- other distinguishing characteristic
- intended termination
- intended audience
context for the work
medium of performance (musical work)
numeric designation (musical work)
key (musical work)
coordinates (cartographic work)
equinox (cartographic work)

4.2.1 Title of the Work

The title of the work is the word, phrase, or group of characters naming the work. There may be one or more titles associated with a work. If the work has appeared under varying titles (differing in form, language, etc.), a bibliographic agency normally selects one of those titles as the basis of a “uniform title” for purposes of consistency in naming and referencing the work. Other titles under which the work has appeared may be treated as variant titles for the work, or in some cases as a parallel uniform title. The title of a work that forms part of a larger work may consist solely of a number or other generic designation that is dependent on the title of the larger work.

4.2.2 Form of Work

The form of work is the class to which the work belongs (e.g., novel, play, poem, essay, biography, symphony, concerto, sonata, map, drawing, painting, photograph, etc.).

4.2.3 Date of the Work

The date of the work is the date (normally the year) the work was originally created. The date may be a single date or a range of dates. In the absence of an ascertainable date of creation, the date of the work may be associated with the date of its first publication or release.

4.2.4 Other Distinguishing Characteristic

A distinguishing characteristic is any characteristic that serves to differentiate the work from another work with the same title (e.g., the area of origin that serves to differentiate the medieval miracle play known as The Adoration of the Shepherds originating in Coventry from the play known by the same name that originated in Chester).
4.2.5 Intended Termination

Intended termination of a work is a reflection of whether the work has been conceived as having a finite end or whether it is intended to continue indefinitely.

4.2.6 Intended Audience

The intended audience of the work is the class of user for which the work is intended, as defined by age group (e.g., children, young adults, adults, etc.), educational level (e.g., primary, secondary, etc.), or other categorization.

4.2.7 Context for the Work

Context is the historical, social, intellectual, artistic, or other context within which the work was originally conceived (e.g., the 17th century restoration of the monarchy in England, the aesthetic movement of the late 19th century, etc.).

4.2.8 Medium of Performance (Musical Work)

Medium of performance is the instrumental, vocal, and/or other medium of performance for which a musical work was originally intended (e.g., piano, violin, orchestra, men’s voices, etc.).

4.2.9 Numeric Designation (Musical Work)

A numeric designation is a serial number, opus number, or thematic index number assigned to a musical work by the composer, publisher, or a musicologist (e.g., the numbers assigned to the works of Mozart by Ludwig Köchel).

4.2.10 Key (Musical Work)

Key, in tonal music, is the set of pitch relationships that establishes a single pitch class as a tonal centre (e.g., D major). The key for a musical work is the key in which the work is originally composed.

4.2.11 Coordinates (Cartographic Work)
Coordinates are the degrees, minutes, and seconds of longitude and latitude, or the angles of declination and ascension that form the outer boundaries for the area represented in the cartographic image or object.

4.2.12 Equinox (Cartographic Work)

Equinox is the year that serves as the point of reference for a celestial chart or model.

4.3 Attributes of an Expression

The logical attributes of an expression defined for this study are the following:

- title of the expression
- form of expression
- date of expression
- language of expression
- other distinguishing characteristic
- extensibility of expression
- revisability of expression
- extent of the expression
- summarization of content
- context for the expression
- critical response to the expression
- use restrictions on the expression
- sequencing pattern (serial)
- expected regularity of issue (serial)
- expected frequency of issue (serial)
- type of score (musical notation)
- medium of performance (musical notation or recorded sound)
- scale (cartographic image/object)
- projection (cartographic image/object)
- presentation technique (cartographic image/object)
- representation of relief (cartographic image/object)
- geodetic, grid, and vertical measurement (cartographic image/object)
- recording technique (remote sensing image)
- special characteristic (remote sensing image)
- technique (graphic or projected image)
4.3.1 Title of the Expression

Title of the *expression* is a word, phrase, or group of characters naming the expression. There may be one or more titles associated with an *expression*. The title of an *expression* that forms part of a larger *expression* may consist solely of a number or other generic designation that is dependent on the title of the larger *expression*.

4.3.2 Form of Expression

The form of *expression* is the means by which the *work* is realized (e.g., through alpha-numeric notation, musical notation, spoken word, musical sound, cartographic image, photographic image, sculpture, dance, mime, etc.).

4.3.3 Date of Expression

The date of *expression* is the date the *expression* was created (e.g., the date the particular text of a *work* was written or revised, the date a song was performed, etc.). The date may be a single date or a range of dates. In the absence of an ascertainable date of *expression*, the date of the *expression* may be associated with the date of its publication or release.

4.3.4 Language of Expression

The language of the *expression* is the language in which the *work* is expressed. The language of the *expression* may comprise a number of languages, each pertaining to an individual component of the *expression*.

4.3.5 Other Distinguishing Characteristic

A distinguishing characteristic is any characteristic of the *expression* that serves to differentiate the *expression* from another *expression* of the same *work* (e.g., the names used to differentiate the various versions of the English text of the Bible, or an “edition” or version designation relating to the intellectual content of the expression such as “2nd revision”).

4.3.6 Extensibility of Expression
Extensibility reflects the expectation that the expression will have additional intellectual or artistic content added to it (e.g., an expression that is completed one part at a time, segment by segment, issue by issue, etc.).

4.3.7 Revisability of Expression

Revisability reflects the expectation that the intellectual or artistic content of the expression will be revised (e.g., a draft or interim report, a directory that is expected to be updated periodically).

4.3.8 Extent of the Expression

The extent of an expression is a quantification of the intellectual content of the expression (e.g., number of words in a text, statements in a computer program, images in a comic strip, etc.). For works expressed as sound and/or motion the extent may be a measure of duration (e.g., playing time).

4.3.9 Summarization of Content

A summarization of the content of an expression is an abstract, summary, synopsis, etc., or a list of chapter headings, songs, parts, etc. included in the expression.

4.3.10 Context for the Expression

Context is the historical, social, intellectual, artistic, or other context within which the expression was realized (e.g., the Art Deco period, etc.).

4.3.11 Critical Response to the Expression

Critical response is the reception given to the expression by reviewers, critics, etc., as encapsulated in an annotation (e.g., “Critically acclaimed for its use of...”).
4.3.12 Use Restrictions on the Expression

Use restrictions are restrictions on access to and use of an expression. Use restrictions may be based in copyright, or they may extend beyond the protections guaranteed in law to the owner of the copyright.

4.3.13 Sequencing Pattern (Serial)

Sequencing pattern for an expression issued as a serial is the form anticipated to be used in designating volumes/issues, etc. and/or dates for the individual units of the serial (e.g. Volume ..., number ...).

4.3.14 Expected Regularity of Issue (Serial)

Expected regularity of issue of an expression issued as a serial is the anticipated regularity of release of individual issues (i.e., whether the release is expected to be regular or irregular).

4.3.15 Expected Frequency of Issue (Serial)

Expected frequency of issue for an expression issued as a serial is the interval at which individual issues of the serial are anticipated to be released (e.g., weekly, monthly, quarterly, annually, etc.).

4.3.16 Type of Score (Musical Notation)

Type of score is the format used to represent a musical composition (e.g., short score, full score, condensed score, close score, etc.).

4.3.17 Medium of Performance (Musical Notation or Recorded Sound)

Medium of performance is the instrumental and/or vocal medium of performance represented in the expression of a musical work (e.g., two pianos, soprano and alto, etc.). The instruments and/or voices represented in a particular expression of a work (e.g., in a transcription, in an arrangement, or in a performance) may differ from the medium of performance for which the work was originally intended. C.f., 4.2.8 Medium of Performance (Musical Work).
4.3.18 Scale (Cartographic Image/Object)

Scale is the ratio of distances in a cartographic expression to the actual distances they represent. Scale may apply to horizontal, vertical, angular, and/or other distances represented in the expression.

4.3.19 Projection (Cartographic Image/Object)

Projection is the method or system used to represent the surface of the Earth or of a celestial sphere on a plane (e.g., transverse Mercator, azimuthal equidistant, etc.).

4.3.20 Presentation Technique (Cartographic Image/Object)

Presentation technique is the method used to represent geographic or other features in a cartographic image (e.g., anaglyphic, diagrammatic, pictorial, etc.).

4.3.21 Representation of Relief (Cartographic Image/Object)

Representation of relief is the technique used to depict the elevations or the inequalities of a land surface or of the bed of a body of water in a cartographic image (e.g., contours, shading, hachures, spot heights, bathymetric tints, etc.).

4.3.22 Geodetic, Grid, and Vertical Measurement (Cartographic Image/Object)

Geodetic, grid, and vertical measurements include information on the spheroid used to construct the cartographic image, the grid or referencing systems used in the image, horizontal datum, vertical datum, mathematical data on contour intervals, bathymetric intervals, etc.

4.3.23 Recording Technique (Remote Sensing Image)

Recording technique is the technique used to capture an image through remote sensing (e.g., multispectral photography, infrared line scanning, SLAR, passive microwave mapping, etc.).

4.3.24 Special Characteristic (Remote Sensing Image)
A special characteristic of a remote sensing image or an image produced through
aerial photography is the altitude and attitude of the sensor, the position of the
platform, the category and name of the satellite, the number of spectral bands
involved, the quality of the image, the extent of cloud cover, or the mean value of
the ground resolution.

4.3.25 Technique (Graphic or Projected Image)

Technique is the method used to create a graphic image (e.g., engraving, etc.) or
to realize motion in a projected image (e.g., animation, live action, computer
generation, 3D, etc.).

4.4 Attributes of a Manifestation

The logical attributes of a manifestation defined for this study are the following:

- title of the manifestation
- statement of responsibility
- edition/issue designation
- place of publication/distribution
- publisher/distributor
- date of publication/distribution
- fabricator/manufacturer
- series statement
- form of carrier
- extent of the carrier
- physical medium
- capture mode
- dimensions of the carrier
- manifestation identifier
- source for acquisition/access authorization
- terms of availability
- access restrictions on the manifestation
- typeface (printed book)
- type size (printed book)
- foliation (hand-printed book)
- collation (hand-printed book)
- publication status (serial)
- numbering (serial)
- playing speed (sound recording)
- groove width (sound recording)
kind of cutting (sound recording)
tape configuration (sound recording)
kind of sound (sound recording)
special reproduction characteristic (sound recording)
colour (image)
reduction ratio (microform)
polarity (microform or visual projection)
generation (microform or visual projection)
presentation format (visual projection)
system requirements (electronic resource)
file characteristics (electronic resource)
mode of access (remote access electronic resource)
access address (remote access electronic resource)

4.4.1 Title of the Manifestation

The title of the manifestation is the word, phrase, or group of characters naming the manifestation. There may be one or more titles associated with a manifestation. Titles associated with a manifestation include all those that appear in the manifestation itself (e.g., the title on the title page, title frame, etc., a cover title, added title-page title, caption title, running title, spine title, etc., the title in a colophon, explicit, etc., the title on a container, on a microfiche header, etc.), as well as those that have been assigned to the manifestation for purposes of bibliographic control (e.g., key title, expanded title, translated title, supplied title, etc.).

4.4.2 Statement of Responsibility

A statement of responsibility is a statement appearing in the manifestation (normally in conjunction with the title) that names one or more individuals or groups responsible for the creation or realization of the intellectual or artistic content embodied in the manifestation. An individual or group named may be directly responsible for the work embodied in the manifestation (e.g., the author, composer, etc.), or indirectly responsible (e.g., the author of a novel on which a film script is based). Other individuals or groups named in the statement may include those responsible for the expression of the work contained in the manifestation (e.g., translators, performers, etc.), or those responsible for the compilation of works contained in the manifestation (e.g., the editor, compiler, etc.). A statement of responsibility may name an organization responsible for sponsoring or issuing the work contained in the manifestation. The statement may also indicate the role or function performed by each of the individuals, groups, or organizations responsible. The names appearing in the statement of responsibility in the manifestation may or may not be those of the persons and corporate bodies
actually responsible for the creation or realization of the intellectual or artistic content embodied in the manifestation. Similarly, the stated functions may or may not reflect the actual relationship that exists between the individuals and groups named and the intellectual or artistic content.

4.4.3 Edition/Issue Designation

The edition or issue designation of the manifestation is a word or phrase appearing in the manifestation that normally indicates a difference in either content or form between the manifestation and a related manifestation previously issued by the same publisher/distributor (e.g., second edition, version 2.0, etc.), or simultaneously issued by either the same publisher/distributor or another publisher/distributor (e.g., large print edition, British edition, etc.). The edition/issue designation pertains to all copies of a manifestation produced from substantially the same master and issued by the same publisher/distributor or group of publishers/distributors.

4.4.4 Place of Publication/Distribution

The place of publication/distribution of the manifestation is the city, town, or other locality associated in the manifestation with the name of the publisher/distributor. The place of publication may comprise the name of the state, province, territory, and/or country as well as the local place name. A manifestation may be associated with one or more places of publication/distribution.

4.4.5 Publisher/Distributor

The publisher/distributor of the manifestation is the individual, group, or organization named in the manifestation as being responsible for the publication, distribution, issuing, or release of the manifestation. A manifestation may be associated with one or more publishers or distributors.
4.4.6 Date of Publication/Distribution

The date of publication/distribution of the *manifestation* is the date (normally a year) of public release of the *manifestation*. The date may be a single date of publication or release, or a range of dates (e.g., in the case of a serial publication). In the absence of a date designated as the date of publication or release, a copyright date or a date of printing or manufacture may serve as a substitute.

4.4.7 Fabricator/Manufacturer

The fabricator/manufacturer of the *manifestation* is the individual, group, or organization named in the *manifestation* as being responsible for the fabrication or manufacture of the *manifestation*. A *manifestation* may be associated with one or more fabricators or manufacturers.

4.4.8 Series Statement

A series statement is the word, phrase, or group of characters appearing in the *manifestation* naming the series to which the *manifestation* belongs. A series statement may also include a number designating the sequential position of the *manifestation* within the series. There may be one or more series and/or subseries named in the *manifestation*.

4.4.9 Form of Carrier

The form of carrier is the specific class of material to which the physical carrier of the *manifestation* belongs (e.g., sound cassette, videodisc, microfilm cartridge, transparency, etc.). The carrier for a *manifestation* comprising multiple physical components may include more than one form (e.g., a filmstrip with an accompanying booklet, a separate sound disc carrying the sound track for a film, etc.).

4.4.10 Extent of the Carrier

The extent of the carrier is a quantification of the number of physical units making up the carrier (e.g., number of sheets, discs, reels, etc.).
4.4.11 Physical Medium

Physical medium is the type of material from which the carrier is produced (e.g., paper, wood, plastic, metal, etc.). The physical medium may include in addition to the base material any material that is applied to the base (e.g., oil paint applied to canvas, a chemical emulsion applied to a film base, etc.). Each component of a manifestation comprising multiple physical components may be produced from a different type of material.

4.4.12 Capture mode

Capture mode is the means used to record notation, sound, or images in the production of a manifestation (e.g., analogue, acoustic, electric, digital, optical etc.).

4.4.13 Dimensions of the Carrier

The dimensions of the carrier are the measurements of the physical components and/or the container of the manifestation. The dimensions may comprise measurements of height (e.g., 18 cm bound volume), width (e.g., 8mm film), height x width (e.g., 5 x 5 cm slide), height x width x depth (e.g., 9 x 30 x 20 cm model), or diameter (e.g., 30 cm disc).

4.4.14 Manifestation Identifier

The manifestation identifier is a number or code uniquely associated with the manifestation that serves to differentiate that manifestation from any other manifestation. A manifestation may have one or more identifiers associated with it. The identifier may be assigned as part of an international numbering or coding system (e.g., ISBN, etc.), as part of a national system (e.g., legal deposit number), or it may be assigned independently by the publisher or distributor of the manifestation (e.g., government publication number, music publisher’s number, clearinghouse inventory number, etc.). A manifestation identifier may also be assigned by a bibliographer, musicologist, etc. The manifestation identifier may comprise both a numeric component and a textual or coded component identifying the system under which it was assigned and/or the agency or individual that assigned the number, so as to render the identifier unique to the manifestation.
4.4.15 Source for Acquisition/Access Authorization

The source for acquisition or access authorization of a *manifestation* is the name of a publisher, distributor, etc. indicated in the *manifestation* as the source from which the *manifestation* may be acquired or through whom access may be authorized. The source for acquisition/access authorization will normally also include an address for the publisher, distributor, etc. A *manifestation* may be associated with one or more sources.

4.4.16 Terms of Availability

Terms of availability are the terms indicated in the *manifestation* under which the supplier (i.e., the source for acquisition/access authorization) will normally make the *manifestation* available (e.g., free to members of a particular association), or the price for which the *manifestation* sells.

4.4.17 Access Restrictions on the Manifestation

Access restrictions are restrictions on access to and use of a *manifestation*. Access restrictions may be based in copyright, or they may extend beyond the protections guaranteed in law to the owner of the copyright.

4.4.18 Typeface (Printed Book)

Typeface is the style of type used to print a book (e.g., Baskerville, Times New Roman, etc.)

4.4.19 Type Size (Printed Book)

Type size is the size of the characters in a printed book (e.g., 10 point).

4.4.20 Foliation (Hand-Printed Book)

The foliation of a hand-printed book reflects the number of folds made in a printed sheet to form a gathering of leaves (e.g., a sheet folded twice to form a quarto, three times to form an octavo, etc.)
4.4.21 Collation (Hand-Printed Book)

Collation reflects the sequence of gatherings in a book as indicated by signatures on each gathering (e.g., four gatherings bearing signatures A through D).

4.4.22 Publication Status (Serial)

Publication status for a *manifestation* issued as a serial is the status of the serial with respect to its continuing publication (i.e., whether it is currently published or has ceased publication).

4.4.23 Numbering (Serial)

Numbering for a *manifestation* issued as a serial is the designation of volume/issue, etc. and/or date appearing in the *manifestation*. The numbering may comprise a numeric, alphabetic and/or a date component (e.g., Volume 1, number 1 (January 1971)).

4.4.24 Playing Speed (Sound Recording)

Playing speed for a sound recording is the speed at which the carrier must be operated to produce the sound intended (e.g., 33 1/3 rpm, 19 cm/s, etc.)

4.4.25 Groove Width (Sound Recording)

Groove width is indicative of the number of grooves per inch cut on a disc or cylinder (e.g., microgroove--i.e., 200 grooves per inch).

4.4.26 Kind of Cutting (Sound Recording)

Kind of cutting is the direction in which the grooves are cut on a disc or cylinder (e.g., lateral, vertical, etc.).

4.4.27 Tape Configuration (Sound Recording)

Tape configuration is the number of tracks on a sound tape (e.g., eight track, twelve track).

4.4.28 Kind of Sound (Sound Recording)
The kind of sound reflects the number of sound channels used to make the recording (monaural, stereophonic, quadraphonic, etc.).

4.4.29 Special Reproduction Characteristic (Sound Recording)

A special reproduction characteristic is the equalization system, noise reduction system, etc. used in making the recording (e.g., NAB, DBX, Dolby, etc.).

4.4.30 Colour (Image)

Colour is the colour(s), tone(s), etc. (including black and white) used in the production of an image.

4.4.31 Reduction Ratio (Microform)

Reduction ratio is the degree to which a text or image has been reduced in the process of microfilming (e.g., 42x, etc.). Reduction ratio may also be indicated as a range (e.g., very high reduction indicates a reduction in the range of 61x to 90x).

4.4.32 Polarity (Microform or Visual Projection)

Polarity is the relationship of the colours and tones in an image on film to the colours and tones of the object filmed. When the colours and tones in the film image reflect directly the colour and tones of the object filmed, the polarity is positive. When they are the reverse of the object the polarity is negative. The polarity of images in a manifestation comprising more than one image may be mixed.

4.4.33 Generation (Microform or Visual Projection)

Generation is a reflection of the number of times an image on film has been transferred from one carrier to another (e.g., a first generation camera master, a second generation printing master, a third generation service copy, etc.).
4.4.34 Presentation Format (Visual Projection)

Presentation format is the format used in the production of a projected image (e.g., wide screen, Beta, VHS, etc.).

4.4.35 System Requirements (Electronic Resource)

System requirements for an electronic resource include requirements related to hardware (e.g. machine make and model, RAM capacity, etc.), software (e.g., operating systems, programming language, supporting software, etc.), and peripherals (monitor, printer, mouse, etc.)

4.4.36 File Characteristics (Electronic Resource)

File characteristics for an electronic resource include standards or schemes used to encode the file (e.g., ASCII, SGML, etc.), physical characteristics of the file (e.g., recording density, parity, blocking, etc.), and other characteristics that have a bearing on how the file can be processed.

4.4.37 Mode of Access (Remote Access Electronic Resource)

Mode of access is the means of accessing a remote electronic resource (e.g., Internet, World Wide Web, etc.).

4.4.38 Access Address (Remote Access Electronic Resource)

Access address is an alpha-numeric code (e.g., universal resource locator - URL) used to facilitate remote access to an electronic resource.

4.5 Attributes of an Item

The logical attributes of an item defined for this study are the following:

item identifier
fingerprint
provenance of the item
marks/inscriptions
exhibition history
condition of the item
treatment history
scheduled treatment
access restrictions on the item

Note: The attributes defined for the purposes of this study do not include those associated with transactions of an ephemeral nature such as the circulation or processing of an item.

4.5.1 Item Identifier

The item identifier is a number or code that is uniquely associated with the item, and serves to differentiate that item from any other item in the same collection and/or institution (e.g., call number, accession number, bar code, etc.). The number is normally assigned by the institution that holds the item. The item identifier may also include a name or code identifying the institution or repository in which the item is housed, and a name or code identifying a particular collection or sub-unit within the institution (e.g., a rare book collection, a branch library, etc.).

4.5.2 Fingerprint

A fingerprint is an identifier constructed by combining groups of characters transcribed from specified pages of a printed item. The technique is used primarily to signal differences between individual copies of early printed books. There are various formulae for constructing the fingerprint (e.g., the one specified in Fingerprints = Empreintes = Impronte, published by the Institut de Recherche et d’Histoire des Textes in Paris).

4.5.3 Provenance of the Item

The provenance of an item is a record of previous ownership or custodianship of the item.

4.5.4 Marks/inscriptions

Marks/inscriptions on an item include any signatures, numbering, annotations, etc. that have been applied uniquely to the item by the artist, fabricator, owner, etc.
4.5.5 Exhibition History

Exhibition history is a record of public exhibitions of an item, including dates, venues, etc.

4.5.6 Condition of the Item

Condition of an item is the physical condition of the item, particularly any variances between the physical makeup of the item and that of the manifestation it exemplifies (e.g., missing pages, plates, etc.). Condition may reflect other aspects of the physical condition of the item as well (e.g., brittleness, faded images, etc.).

4.5.7 Treatment History

The treatment history of an item is a record of the treatment the item has undergone (e.g., deacidification, restoration, etc.) Treatment history may also comprise details of the treatment process (e.g., chemical solutions used, techniques applied, etc.), the date the treatment was applied, etc.

4.5.8 Scheduled Treatment

The scheduled treatment of an item is a plan for future treatment of the item (e.g., chemical wash). Scheduled treatment may also comprise details of the planned treatment process and the scheduled date of application.

4.5.9 Access Restrictions on the Item

Access restrictions on an item are any limitations placed on physical access to the item (e.g., restricted to supervised on-site use, etc.).

4.6 Attributes of a Person

The logical attributes of a person defined for this study are the following:

- name of person
- dates of person
- title of person
other designation associated with the *person*

### 4.6.1 Name of Person

The name of a *person* is the word, character, or group of words and/or characters by which the *person* is known (e.g., Donald Horne, A. A. Milne, Ellery Queen, etc.). A name may include one or more forenames (or given names), matronymics, patronymics, family names (or surnames), sobriquets, dynastic names, etc. A *person* may be known by more than one name, or by more than one form of the same name. A bibliographic agency normally selects one of those names as the uniform heading for purposes of consistency in naming and referencing the *person*. The other names or forms of name may be treated as variant names for the *person*. In some cases (e.g., in the case of a *person* who writes under more than one pseudonym, or a *person* who writes both in an official capacity and as an individual) the bibliographic agency may establish more than one uniform heading for the *person*.

### 4.6.2 Dates of Person

The dates associated with a *person* may include the precise or approximate date of the *person*’s birth and/or death, or dates indicating the period in which the *person* was known to be active in a given field of endeavour.

### 4.6.3 Title of Person

The title of a *person* is a word or phrase indicative of rank, office, nobility, honour, etc. (e.g., Major, Premier, Duke, etc.), or a term of address (Sir, Mrs., etc.) associated with the *person*.

### 4.6.4 Other Designation Associated with the Person

A designation associated with a *person* is a numeral, word, or abbreviation indicating succession within a family or dynasty (e.g., III, Jr., etc.), or an epithet or other word or phrase associated with the *person* (e.g., the Brave, Professional Engineer, etc.).
4.7 Attributes of a Corporate Body

The logical attributes of a corporate body defined for this study are the following:

name of the corporate body
number associated with the corporate body
place associated with the corporate body
date associated with the corporate body
other designation associated with the corporate body

4.7.1 Name of the Corporate Body

The name of a corporate body is the word, phrase, character, or group of words and/or characters by which the body is known (e.g., Royal Aeronautical Society, IBM, Séminaire européen sur la recherche en éducation, Friedrich Witte, etc.). A corporate body may be known by more than one name, or more than one form of the same name. A bibliographic agency normally selects one of those names as the uniform heading for purposes of consistency in naming and referencing the corporate body. The other names or forms of name may be treated as variant names for the corporate body. In some cases (e.g., in the case where a corporate body is known by different names at different periods in its history) the bibliographic agency may establish more than one uniform heading for the corporate body.

4.7.2 Number Associated with the Corporate Body

Number associated with the corporate body is the numerical designation sequencing a meeting, conference, exhibition, fair, etc. that constitutes one of a series of related meetings, conferences, exhibitions, fairs, etc., or any other numerical designation associated with a corporate body.

4.7.3 Place Associated with the Corporate Body

Place associated with the corporate body is the city, town, or other designation of location in which a meeting, conference, exhibition, fair, etc. was held, or the location with which the corporate body is otherwise associated (e.g., Los Angeles, Bretton Woods, Oxford University, etc.). The place may comprise the name of the state, province, territory, and/or country as well as the local place name.
4.7.4 Date Associated with the Corporate Body

Date associated with the *corporate body* is the date or range of dates on which a meeting, conference, exhibition, fair, etc. was held, or a date with which the *corporate body* is otherwise associated (e.g., the date of its incorporation).

4.7.5 Other Designation Associated with the Corporate Body

A designation associated with the name of a *corporate body* is a word, phrase, or abbreviation indicating incorporation or legal status of the body (e.g., Inc., Ltd., etc.), or any term serving to differentiate the body from other *corporate bodies*, *persons*, etc. (e.g., firm, musical group, etc.).

---

4.8 Attributes of a Concept

The logical attributes of a *concept* defined for this study are the following:

- term for the *concept*

4.8.1 Term for the Concept

The term for the *concept* is the word, phrase, or group of characters used to name or designate the *concept* (e.g., economics, existentialism, radioactivity, etc.). A *concept* may be designated by more than one term, or by more than one form of the term. A bibliographic agency normally selects one of those terms as the uniform heading for purposes of consistency in naming and referencing the *concept*. The other terms or forms of term may be treated as variant terms for the *concept*.

---

4.9 Attributes of an Object

The logical attributes of an *object* defined for this study are the following:

- term for the *object*
4.9.1 Term for the Object

The term for the object is the word, phrase, or group of characters used to name or designate the object (e.g., a building, a ship, etc.). An object may be designated by more than one term, or by more than one form of the term. A bibliographic agency normally selects one of those terms as the uniform heading for purposes of consistency in naming and referencing the object. The other terms or forms of term may be treated as variant terms for the object.

4.10 Attributes of an Event

The logical attributes of an event defined for this study are the following:

term for the event

4.10.1 Term for the Event

The term for the event is the word, phrase, or group of characters used to name or designate the event (e.g., Battle of Hastings, Tour de France, etc.). An event may be designated by more than one term, or by more than one form of the term. A bibliographic agency normally selects one of those terms as the uniform heading for purposes of consistency in naming and referencing the event. The other terms or forms of term may be treated as variant terms for the event.

4.11 Attributes of a Place

The logical attributes of a place defined for this study are the following:

term for the place

4.11.1 Term for the Place

The term for the place is the word, phrase, or group of characters used to name or designate the place (e.g., London, St. Lawrence River, etc.). A place may be designated by more than one term, or by more than one form of the term. A bibliographic agency normally selects one of those terms as the uniform heading
for purposes of consistency in naming and referencing the *place*. The other terms or forms of term may be treated as variant terms for the *place*.
5. RELATIONSHIPS

5.1 Bibliographic Relationships in the Context of the Model

Various terms are used by creators and publishers of intellectual and artistic entities to signal relationships between those entities. Terms such as "edition" and "version" are frequently encountered on publications and other materials, as are statements such as “based on ...” or “translated from ....” In many cases such terms or statements serve as a signal to the cataloguer that a relationship should be reflected in the bibliographic record. The problem with relying on commonly applied terms as a starting point for analyzing bibliographic relationships is that those terms are neither clearly defined nor uniformly applied. In this study relationships are examined in the context of the entities defined for the model, i.e., they are analysed specifically as relationships that operate between one work and another, between one expression and another, between a manifestation and an item, etc.

In the context of the model, relationships serve as the vehicle for depicting the link between one entity and another, and thus as the means of assisting the user to “navigate” the universe that is represented in a bibliography, catalogue, or bibliographic database. Typically the user will formulate a search query using one or more attributes of the entity for which he or she is searching, and it is through the attribute that the user finds the entity sought. The relationships reflected in the bibliographic record provide additional information that assists the user in making connections between the entity found and other entities that are related to that entity.

Relationships may be reflected in bibliographic records in a number of ways. Some relationships, especially those depicted in the entity-relationship diagrams in Chapter 3 (Figures 3.1 through 3.3), are often reflected simply by concatenating attributes of one entity with attributes of the related entity in a single record. For example, a record will normally couple the attributes of a particular manifestation with the attributes of the expression that is embodied in that manifestation and with the attributes of the work that is realized through that expression. Relationships are also frequently reflected implicitly by appending to the record a heading identifying a related entity. The relationship of the work to the person or
corporate body, for example, is normally reflected implicitly by appending to the record a heading identifying the person or corporate body responsible for the work. Relationships are sometimes reflected by “layering” attributes of one entity with those of related entities (e.g., in a multi-level record describing both an aggregate entity and its individual component entities). Relationships are also frequently made explicit through the use of a note or similar device that indicates not only that a relationship exists between the entity described in the record and another entity, but also states specifically the nature of the relationship (e.g., “Translated from the English text of the 1891 edition”).

It is important to bear in mind that for the purposes of this study a relationship is not operative unless the entities on each side of the relationship are explicitly identified. For example, "based on a play by Henrik Ibsen" does not operatively state a work-to-work relationship; "based on Ghosts by Henrik Ibsen" does.

It is also important to note that within the entity-relationship model relationships can be depicted either at the level at which they actually operate, or at a more general level when the precise relationship cannot be easily determined. For example, a concordance to Joyce's Finnegans Wake in reality will have been based on a particular embodiment (i.e., manifestation) of a particular text (i.e., expression); it may not be possible, if the precise edition of the base text is unknown, to state the relationship of the concordance to the particular expression and/or manifestation on which it is based. In that case it is possible only to state the relationship of the concordance to Finnegans Wake (i.e., work). The model therefore provides an option for certain kinds of relationships to be expressed at either one of two levels.

The sections that follow describe the relationships used in the model and how they function.

Sections 5.2 through 5.2.3 describe the logical relationships between entity types that are shown on the high level entity-relationship diagrams in Chapter 3 (Figures 3.1 through 3.3). In the entity-relationship diagrams those relationships are shown simply to indicate how at a generalized level the entities are connected with one another (i.e., how works are connected with expressions, how they are connected with persons and corporate bodies, how they are connected with concepts, objects, events, etc.; how expressions are connected with manifestations, how they are connected with persons and corporate bodies; etc.). At a more specific level, the same relationships are used to link a particular expression with the work it realizes, a particular manifestation with the expression it embodies, etc.

Sections 5.3 through 5.3.6.1 describe another set of relationships associated with the four primary entities (work, expression, manifestation, and item) that operate more specifically between designated instances of entities (e.g., between one work
and another, between two expressions of the same work, between an expression of one work and an expression of another work, etc.).

5.2 Relationships Depicted in the High Level Diagrams

The entity-relationship diagrams in Chapter 3 (Figures 3.1 through 3.3) show logical relationships between entities at the highest level of generalization in the model. The relationships depicted in the diagrams indicate simply how at a logical level the different types of entities in the model are connected with one another (i.e., how works are connected with expressions, how they are connected with persons and corporate bodies, etc.). For example, the line labeled “realized through” that links work with expression indicates in generalized terms that a work is realized through an expression.

As noted in Chapter 3 (sections 3.1.1 through 3.1.3), the entities in the model fall into three groups. The primary group comprises the products of intellectual or artistic endeavour: work, expression, manifestation, and item. The second group comprises those entities responsible for the intellectual or artistic content, the production and dissemination, or the custodianship of such products: person and corporate body. The third group comprises an additional set of entities that together with the entities in the first and second groups may serve as the subject of a work: concept, object, event, and place.

5.2.1 Relationships Between Work, Expression, Manifestation, and Item

The relationships depicted in Figure 3.1 that link work to expression, expression to manifestation, and manifestation to item are central to the structure of the entity-relationship model. Each of the three primary relationships (i.e., the “realized through” relationship connecting work and expression, the “embodied in” relationship connecting expression and manifestation, and the “exemplified by” relationship connecting manifestation and item) is unique and operates between only one pair of entities in the model. In all three cases, in fact, the relationships reflected in the link are integral to the definition of the entities involved in the relationship.

The first of those relationships indicates that a work is “realized through” expression. Viewed from the reverse direction, the relationship indicates that an expression “is a realization of” a work, which is in fact how expression is defined as an entity (“the intellectual or artistic realization of a work....”). The logical connection between work and expression, as reflected in the model through the relationship link, serves as the basis both for identifying the work represented by an
individual expression and for ensuring that all expressions of a work are linked to the work. Indirectly the relationships between a work and the various expressions of that work also serve to establish an implicit “sibling” relationship between the various expressions of the work.

**Example**

- $w_1$ Charles Dickens’ *A Christmas carol*
  - $e_1$ the author’s original English text
  - $e_2$ a Tamil translation by V. A. Venkatachari
  - . . .

Similarly, the relationship connecting expression with manifestation, indicating that an expression is “embodied in” a manifestation, or conversely that a manifestation is the embodiment of an expression, reflects the definition of manifestation (“the physical embodiment of the expression....”). In this case the logical connection serves as the basis both for identifying the expression of a work embodied in an individual manifestation and for ensuring that all manifestations of the same expression are linked back to that expression. Indirectly the relationships between an expression and the various manifestations of that expression also serve to establish an implicit “sibling” relationship between the various manifestations of the expression.

**Example**

- $w_1$ J. S. Bach’s *Goldberg variations*
  - $e_1$ performances by Glen Gould recorded in 1981
    - $m_1$ recording released on 33 1/3 rpm sound disc in 1982 by CBS Records
    - $m_2$ recording re-released on compact disc in 1993 by Sony

The same holds true for the “exemplified by” relationship that connects manifestation with item. Again, this is a unique relationship that is integral to the definition of item (“a single exemplar of a manifestation”). The logical connection serves as the basis both for identifying the manifestation exemplified by an individual item and for ensuring that all copies (i.e., items) of the same manifestation are linked to that manifestation. Indirectly the relationships between a manifestation and the various items exemplifying that manifestation also serve to establish an implicit “sibling” relationship between the various copies (i.e., items) of a manifestation.
Example

- $w_1$ *Lost treasures of the world*
- $e_1$ the interactive electronic resource
- $m_1$ the electronic optical disc published in 1994 by Follgard CD-Visions
- $i_1$ first copy held by Calgary Public Library
- $i_2$ second copy held by Calgary Public Library

It should be noted that although the relationships between work, expression, manifestation, and item are depicted in the entity-relationship diagram in a segmented way, they operate logically as a continuous chain. That is to say that the relationship from work to expression carries through to the relationship from expression to manifestation, and those two relationships subsequently carry through to the relationship from manifestation to item. Thus when a relationship is made between an expression and a manifestation that embodies the expression, the manifestation is at the same time logically linked to the work that is realized through the expression, given that the expression has been linked to the work it realizes.

5.2.2 Relationships to Persons and Corporate Bodies

The entities in the second group (person and corporate body) are linked to the first group by four relationship types: the “created by” relationship that links both person and corporate body to work; the “realized by” relationship that links the same two entities to expression; the “produced by” relationship that links them to manifestation; and the “owned by” relationship that links them to item.

The “created by” relationship may link a work to a person responsible for the creation of the intellectual or artistic content of the work; it may also link a work to a corporate body responsible for the work. The logical connection between a work and a related person or corporate body serves as the basis both for identifying the person or corporate body responsible for an individual work and for ensuring that all works by a particular person or corporate body are linked to that person or corporate body.
Example

- $p_1$ Edmund Spenser
  - $w_1$ *The shepheardes calender*
  - $w_2$ *The faerie queen*
  - $w_3$ *Astrophel*
  - . . .

The “realized by” relationship may link an expression to a person or corporate body responsible for the realization of a work. It is similar in function to the “created by” relationship, but it implies a difference in the nature of the relationship that parallels the difference between work and expression as entities. A person or corporate body responsible for the intellectual or artistic content of a work is responsible for the conception of the work as an abstract entity; a person or corporate body responsible for the expression of the work is responsible for the specifics of the intellectual or artistic realization or execution of the expression. The logical connection between an expression and a related person or corporate body serves as the basis both for identifying the person or corporate body responsible for an individual expression and for ensuring that all expressions realized by a person or corporate body are linked to that person or corporate body.

Example

- $cb_1$ The Tallis Scholars
  - $e_1$ a 1980 performance of Allegri’s *Miserere*
  - $e_2$ a 1986 performance of Josquin’s *Missa pange lingua*
  - $e_3$ a 1989 performance of Lassus’ *Missa osculetur me*
  - . . .

The “produced by” relationship may link a manifestation to the person or corporate body responsible for publishing, distributing, fabricating or manufacturing the manifestation. The logical connection between a manifestation and a related person or corporate body could serve as the basis both for identifying the person or corporate body responsible for producing or disseminating a manifestation and for ensuring that all manifestations produced or disseminated by a person or corporate body are linked to that person or corporate body.
Example

- \( \text{cb}_1 \) Coach House Press
  - \( \text{m}_1 \) the 1965 publication by Coach House Press of Wayne Clifford’s *Man in a Window*
  - \( \text{m}_2 \) the 1966 publication by Coach House Press of Joe Rosenblatt’s *The LSD Leacock*
  - \( \text{m}_3 \) the 1966 publication by Coach House Press of Henry Beissel’s *New Wings for Icarus*

The “owned by” relationship may link an *item* to the *person* or *corporate body* that is the owner or custodian of the *item*. The logical connection between an *item* and a related *person* or *corporate body* could serve as the basis both for identifying the *person* or *corporate body* that owns or has custodianship of an *item* and for ensuring that all *manifestations* owned by or in the custodianship of a particular *person* or *corporate body* are linked to that *person* or *corporate body*.

Example

- \( \text{cb}_1 \) Princeton University Library
  - \( \text{i}_1 \) a copy of the “Penkill Proofs” of D. G. Rossetti’s *Poems* printed in August 1869, with manuscript annotations by the author
  - \( \text{i}_2 \) a copy of the “A Proofs” of D. G. Rossetti’s *Poems* printed in September 1869, with manuscript annotations by the author

5.2.3 Subject Relationships

The entities in all three groups are connected to the *work* entity by a subject relationship.

The “has as subject” relationship indicates that any of the entities in the model, including *work* itself, may be the subject of a *work*. Stated in slightly different terms, the relationship indicates that a *work* may be about a *concept*, an *object*, an *event*, or *place*; it may be about a *person* or *corporate body*; it may be about an *expression*, a *manifestation*, or an *item*; it may be about another *work*. The logical connection between a *work* and a related subject entity serves as the basis both for identifying the subject of an individual *work* and for ensuring that all *works* relevant to a given subject are linked to that subject.

Example
5.3 Other Relationships Between Group 1 Entities

Tables 5.1 through 5.11 give an overview of additional relationships between group 1 entities that were not depicted on the high level entity-relationship diagram in Figure 3.1. They identify the major types of relationships that operate between instances of the same entity type or between instances of different entity types, and they include examples of specific kinds of entities that are typically involved in each type of relationship, but they are not meant to be exhaustive. In order to facilitate the description of the relationships, specific relationships have been grouped into logical relationship types, and each group has been given a relationship type name. The primary goal of this study, however, is not to provide higher level groupings for relationships, but rather to describe the nature of bibliographic relationships by "deconstructing" conventional terms and categories, and to show how the relationships operate in the context of the four primary entities in the model (i.e., work, expression, manifestation, and item).

The tables (as illustrated below) are set up to show in the left-hand column the various types of relationships that operate between the entity types specified in the heading for each table (in this case manifestation-to-manifestation). For each relationship type there is a pair of relationship statements formulated as they would appear in an entity-relationship diagram. The first statement in the pair indicates the relationship as it would be drawn from the first entity to the second entity; the second indicates the reciprocal relationship as it would be drawn from the second entity to the first entity. The column to the right lists examples of the kinds of entities that would typically occupy the position of the second entity in each relationship type.
Manifestation-to-Manifestation Relationships

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Manifestation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproduction</td>
<td>Reproduction</td>
</tr>
<tr>
<td>has a reproduction →</td>
<td>Microreproduction</td>
</tr>
<tr>
<td>← is a reproduction of</td>
<td>Macreproduction</td>
</tr>
<tr>
<td></td>
<td>Reprint</td>
</tr>
<tr>
<td></td>
<td>Photo-offset reprint</td>
</tr>
<tr>
<td></td>
<td>Facsimile</td>
</tr>
</tbody>
</table>

In the table illustrated above, under the relationship type labeled as “reproduction,” the first statement (has a reproduction →) indicates the relationship as it would be drawn from the first manifestation in the relationship to the second manifestation in the relationship. In this case the second manifestation would typically be one of the kinds of entities listed in the right-hand column (a microreproduction, reprint, facsimile, etc.) The reciprocal relationship statement (← is a reproduction of) indicates the relationship as it would be drawn from the second manifestation (i.e., from the microreproduction, reprint, facsimile, etc.) to the first manifestation (i.e., the manifestation that has been reproduced). Expanding on the notation that has been used in the examples to reflect the implicit relationships between a work, an expression, a manifestation, and an item, the relationship in the table above would be illustrated by example as follows:

- \( m_1 \) [first manifestation]
  - has a reproduction →
  - ← is a reproduction of
- \( m_2 \) [second manifestation]

In some tables there is only one column of examples; in others the entities have been divided into two categories (e.g., dependent and independent) and there are two columns of examples. The reasons for subdividing the examples in some instances into two categories, and the distinctions between the categories, are explained in the sections that follow.

5.3.1 Work-to-Work Relationships

Table 5.1 shows different kinds of work-to-work relationships.
Table 5.1 Work-to-Work Relationships

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Referential Work</th>
<th>Autonomous Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Successor</td>
<td>Sequel</td>
<td>Sequel</td>
</tr>
<tr>
<td></td>
<td>has a successor →</td>
<td>Succeeding work</td>
</tr>
<tr>
<td></td>
<td>← is a successor to</td>
<td></td>
</tr>
<tr>
<td>Supplement</td>
<td>Index</td>
<td>Supplement</td>
</tr>
<tr>
<td></td>
<td>have a supplement →</td>
<td>Appendix</td>
</tr>
<tr>
<td></td>
<td>← supplements</td>
<td></td>
</tr>
<tr>
<td>Complement</td>
<td>Cadenza</td>
<td>Incidental music</td>
</tr>
<tr>
<td></td>
<td>have a complement →</td>
<td>Musical setting for a text</td>
</tr>
<tr>
<td></td>
<td>← complements</td>
<td>Pendant</td>
</tr>
<tr>
<td>Summarization</td>
<td>has a summary →</td>
<td>Digest</td>
</tr>
<tr>
<td></td>
<td>← is a summary of</td>
<td>Abstract</td>
</tr>
<tr>
<td>Adaptation</td>
<td>Adaptation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>have adaptation →</td>
<td>Paraphrase</td>
</tr>
<tr>
<td></td>
<td>← is an adaptation of</td>
<td>Free translation</td>
</tr>
<tr>
<td>Transformation</td>
<td>has a transformation →</td>
<td>Variations (music)</td>
</tr>
<tr>
<td></td>
<td>← is a transformation of</td>
<td>Harmonization (music)</td>
</tr>
<tr>
<td>Imitation</td>
<td>has an imitation →</td>
<td>Dramatization</td>
</tr>
<tr>
<td></td>
<td>← is an imitation of</td>
<td>Novelization</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Versification</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Screenplay</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Parody</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Imitation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Travesty</td>
</tr>
</tbody>
</table>
A basic premise of the work-to-work relationship is that two different works have been recognized to exist; that is, the intellectual or artistic content of one work has been judged sufficiently different from the other to constitute a separate work.

Among the work-to-work relationships shown in Table 5.1 there are two categories: those involving a work that is referential in nature, and those involving autonomous works. A referential work is one that is so closely connected to the other work in the relationship that it has little value outside the context of that other work. An autonomous work is one that does not require reference to the other work in the relationship in order to be useful or understood.

The centre column in Table 5.1 labeled "referential work" shows the different kinds of works that will have little use or meaning without reference to the other work in the relationship. Within this category fall sequels that depend on the preceding work in order to be understood, indexes and concordances to a work, cadenzas, etc.

**Example**

- \( w_1 \) Homer’s *Iliad*
  - has a concordance \( \rightarrow \)
  - \( \leftarrow \) is a concordance to
- \( w_2 \) G. L. Prendergast’s *A complete concordance to the Iliad of Homer*

The right-hand column of Table 5.1 labeled “autonomous work” shows different kinds of works that have a relationship to another work, but which can be used and understood without reference to the other work. Within this category fall autonomous successors and supplements, as well as abstracts, adaptations, dramatizations, parodies, etc.

**Example**

- \( w_1 \) W. A. Mozart’s *Don Giovanni*
  - has an adaptation \( \rightarrow \)
  - \( \leftarrow \) is an adaptation of
- \( w_2 \) Joseph Losey’s film *Don Giovanni*
- \( w_1 \) Ordnance Survey map of Wales
  - has an adaptation \( \rightarrow \)
  - \( \leftarrow \) is an adaptation of
- \( w_2 \) Map of administrative areas in Wales
Three types of relationships cut across the referential and autonomous categories: successor, supplement, and complement. The successor type of relationship involves a kind of linear progression of content from one *work* to the other. In some cases, the content of the successor may be closely connected to the content of the preceding *work*, which would result in a *work* that is referential. In others, such as with loosely connected parts of a trilogy, the successor will be autonomous. Serial publications that result from the merger or split of their predecessors and stand on their own without requiring reference to the predecessor are also examples of autonomous *works* that fall within the successor relationship type.

**Example**

- w₁ *The British journal of social and clinical psychology*
  - is continued in part by ⟷
  - continues in part
- w₂ *The British journal of social psychology*

The supplement relationship type involves *works* that are intended to be used in conjunction with another *work*. Some of these, such as indices, concordances, teachers’ guides, glosses, and instruction manuals for electronic resources will be so closely associated with the content of the related *work* that they are useless without the other *work*. Such *works* are by definition referential. Supplements and appendices also frequently fall within the referential category, but if they can be used without reference to the related work they fall within the autonomous category.

**Example**

- w₁ *Annual report of the Librarian of Congress*
  - has a supplement ⟷
  - is a supplement to
- w₂ The Library of Congress’ *Quarterly journal of current acquisitions*

The third relationship type, complement, involves *works* that are intended to be combined with or inserted into the related *work*. In other words, they are intended to be integrated in some way with the other *work*, but were not part of the original conception of that prior *work*. As with successors and supplements, some complements can be used or understood on their own without reference to another *work* (i.e., they are autonomous), others require an understanding of another *work* (i.e., they are referential).
Example

- $w_1$ William Plomer’s *Curlew River*
  
  has a musical setting $\rightarrow$
  
  $\leftarrow$ is a musical setting for

- $w_2$ Benjamin Britten’s musical setting for *Curlew River*

Also in the autonomous category are groupings of four additional relationship types: summarization, adaptation, transformation, and imitation. The kinds of works represented in these groupings all involve the modification of an original work that is sufficient in degree to warrant their being considered as new works, rather than simply different expressions of the same work. Any work falling into one of these four groupings is by definition considered autonomous.

Examples

- $w_1$ Karl Rosenkrantz’s *Paedagogik als System*
  
  has a paraphrase $\rightarrow$
  
  $\leftarrow$ is a paraphrase of

- $w_2$ Anna C. Brackett’s *The science of education*

- $w_1$ Charles Dickens’ *Pickwick papers*
  
  has a dramatization $\rightarrow$
  
  $\leftarrow$ is a dramatization of

- $w_2$ W. T. Moncrieff’s *Sam Weller*

The significance of the distinction that has been made between works that fall within the referential category and those in the autonomous category becomes clear when evaluating the relative importance of reflecting relationships in a bibliographic record. In terms of the relative utility of work-to-work relationships, it would be most important to provide information about a relationship between a referential successor, supplement, or complement and the work to which it is related, since meaningful use of the successor, supplement, or complement is highly dependent on the content of the other work. On the other hand, with an autonomous work an understanding of the predecessor work, while useful, would not be indispensable to understanding or using the successor, supplement, or complement. The same holds true for summarizations, adaptations, transformations, and imitations. Consequently, for autonomous works making the relationship explicit in the bibliographic record is less critical.

It should be evident from the examples above that the terms applied by publishers often may not be sufficient to indicate clearly whether a work should be considered referential or autonomous. Works characterized as sequels, supplements, and appendices can fall under either category. The cataloguer must judge whether the
work can be used only with reference to the related work or if it can be used and understood independently.

5.3.1.1 Whole/Part Relationships at the Work Level

Table 5.2 shows whole/part relationships at the work level.

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Dependent Part</th>
<th>Independent Part</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole/Part</td>
<td>Chapter, Section, Part, etc.</td>
<td>Monograph in a series</td>
</tr>
<tr>
<td></td>
<td>Volume/issue of serial</td>
<td>Journal article</td>
</tr>
<tr>
<td></td>
<td>Intellectual part of a multipart work</td>
<td>Intellectual part of a multipart work</td>
</tr>
<tr>
<td></td>
<td>Illustration for a text</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sound aspect of a film</td>
<td></td>
</tr>
</tbody>
</table>

Within the whole/part relationships there are two categories: those involving dependent parts, and those involving independent parts. Dependent parts are component parts of a work that are intended to be used in the context of the larger work and as such depend on the context provided by the larger work for much of their meaning. Dependent components are often difficult to identify without reference to the larger work as they generally do not have distinctive names/titles. Independent parts are those that do not depend to any significant extent on the context provided by the larger work for their meaning. Typically, independent components have distinctive names/titles. It is assumed that in both cases, the work that represents the whole is an independent work.

The dependent category can itself be divided into two subcategories: segmental parts; and systemic parts of the work’s content. Segmental parts are discrete components of a work whose content exists as a distinct identifiable segment within a whole. Among discrete components of works would be included prefaces, chapters, sections, parts, and so on.
Example

- \( \mathbf{w}_1 \) Precis in a multilingual context
  - \( \mathbf{w}_{1,1} \) Part 1: Precis - an overview, by Derek Austin
  - \( \mathbf{w}_{1,2} \) Part 2: A linguistic and logical explanation of the syntax, by Jutta Sorensen and Derek Austin
  - \( \mathbf{w}_{1,3} \) Part 3: Multilingual experiments, proposed codes, and procedures for the Germanic languages, by Jutta Sorensen and Derek Austin

A systemic part of a work, on the other hand, cannot be viewed as a bounded segment of the content of the work. Rather, a systemic part is an integral aspect that extends across and is interwoven with the rest of the content of the work. Illustrations for a text or the cinematography of a film are examples of the integral aspect; they can be identified and discussed as intellectual or artistic parts of the whole, but do not represent separate sequential segments of the content as segmental components do.

There often will be no reason for a dependent part of a work to be separately identified or described in a bibliographic record. In certain instances, however, such as when a preface or introduction has been written by a well-known author who is not the author of the main text, it may be considered useful to identify and describe the component in its own right. Because dependent parts by definition need to be placed in the context of the larger work, the relationship, if formally articulated, is typically done by appending an added entry for the component to the record describing the larger work; alternatively, the relationship can be reflected less formally through a contents note.

Independent parts of a work are much more apt to be identified and described in their own right. The category includes monographs in a monographic series (where the series represents the whole); articles in a journal or issues of a journal (where the journal represents the whole); or independent intellectual components of a multipart work or kit, where that component can have value outside the context provided by the other components of the kit. The independent category also includes commonly recognized parts of larger works such as books of the Bible, etc.

Example

- \( \mathbf{w}_1 \) D. Bruce Sealey’s multimedia Tawow
  - \( \mathbf{w}_{1,1} \) Emma La Rogue’s Defeathering the Indian
  - \( \ldots \)
5.3.2 Expression-to-Expression Relationships

Tables 5.3 and 5.4 show different kinds of expression-to-expression relationships.

Expression-to-expression relationships fall into two major divisions: those in which each expression involved in the relationship is an expression of the same work; and those in which each expression involved in the relationship is an expression of a different work.

### Table 5.3 Expression-to-Expression Relationships

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Referential Expression</th>
<th>Autonomous Expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abridgement</td>
<td>has an abridgement →</td>
<td>Abridgement</td>
</tr>
<tr>
<td></td>
<td>← is an abridgement of</td>
<td>Condensation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Expurgation</td>
</tr>
<tr>
<td>Revision</td>
<td>has a revision →</td>
<td>Revised edition</td>
</tr>
<tr>
<td></td>
<td>← is a revision of</td>
<td>Enlarged edition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>State (graphic)</td>
</tr>
<tr>
<td>Translation</td>
<td>has a translation →</td>
<td>Literal translation</td>
</tr>
<tr>
<td></td>
<td>← is a translation of</td>
<td>Transcription (music)</td>
</tr>
<tr>
<td>Arrangement (music)</td>
<td>has an arrangement →</td>
<td>Arrangement (music)</td>
</tr>
<tr>
<td></td>
<td>← is an arrangement of</td>
<td></td>
</tr>
</tbody>
</table>

Relationships between expressions of the same work (Table 5.3) occur when one expression has been derived from another. In these types of relationships, one expression is seen to be a modification of the other. The modification may be a literal translation, in which the intent is to render the intellectual content of the previous expression as accurately as possible (note that free translations are treated in the model as new works); a revision, in which the intent is to alter or update the content of the prior expression, but without changing the content so much that it becomes a new work; an abridgement, in which some content of the previous expression is removed, but the result does not alter the content to the extent that it
becomes a new work; or an arrangement of a musical composition. The expressions resulting from such modification are generally autonomous in nature (i.e., they do not normally require reference to the prior expression in order to be used or understood).

Table 5.4 Expression-to-Expression Relationships (cont’d)

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Referential Expression</th>
<th>Autonomous Expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>Successor</td>
<td>has a successor →</td>
<td>Sequel</td>
</tr>
<tr>
<td></td>
<td>← is a successor to</td>
<td></td>
</tr>
<tr>
<td>Supplement</td>
<td>has a supplement →</td>
<td>Index</td>
</tr>
<tr>
<td></td>
<td>← supplements</td>
<td>Concordance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Teacher’s guide</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gloss</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Supplement</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Appendix</td>
</tr>
<tr>
<td>Complement</td>
<td>has a complement →</td>
<td>Cadenza</td>
</tr>
<tr>
<td></td>
<td>← complements</td>
<td>Libretto</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Choreography</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ending for unfinished work</td>
</tr>
<tr>
<td>Summarization</td>
<td>has a summary →</td>
<td>Digest</td>
</tr>
<tr>
<td></td>
<td>← is a summary of</td>
<td>Abstract</td>
</tr>
<tr>
<td>Adaptation</td>
<td>has an adaptation →</td>
<td>Adaptation</td>
</tr>
<tr>
<td></td>
<td>← is an adaptation of</td>
<td>Paraphrase</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Free translation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Variation (music)</td>
</tr>
<tr>
<td>Transformation</td>
<td>has a transformation →</td>
<td>Dramatization</td>
</tr>
<tr>
<td></td>
<td>← is a transformation of</td>
<td>Novelization</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Screenplay</td>
</tr>
<tr>
<td>Imitation</td>
<td>has an imitation →</td>
<td>Parody</td>
</tr>
<tr>
<td></td>
<td>← is an imitation of</td>
<td>Imitation</td>
</tr>
</tbody>
</table>
Examples

- **w1** Charles Dickens’ *A Christmas carol*
  - **e1** the author’s original English text
    - has a translation →
    - ← is a translation of
  - **e2** a Tamil translation by V. A. Venkatachari

- **w1** B. Bartok’s *Four small dances*
  - **e1** the composer’s original score for orchestra
    - has an arrangement →
    - ← is an arrangement of
  - **e2** an arrangement for junior string orchestra by G. Darvas

*Expression-to-expression* relationships, when they involve expressions of different works (Table 5.4) include the same relationship types that operate at the *work-to-work* level. Of the different types, successor, supplement, and complement relationships will be the ones most commonly stated at the *expression* level. For example, a note in a bibliographic record for a supplement might refer back to the specific edition (i.e., *expression*) of a preceding *work* that it was intended to supplement. It is important to bear in mind that the *works* represented by the *expressions* can be either referential or autonomous; judgments about the utility of the *expression-to-expression* relationship will be based on whether the *work* represented is referential or autonomous.

For summarizations, adaptations, transformations, and imitations, it is perhaps less common to state a relationship to a particular *expression* of a prior *work*. Nonetheless, it may be useful to state the relationship at that level when the information is readily at hand, e.g., "Adaptation by John Barton based on William Caxton’s 1485 edition of the text."

### 5.3.2.1 Whole/Part Relationships at the Expression Level

Whole/part relationships at the *expression* level (Table 5.5) are of the same general type as those at the *work* level. The specific kinds of parts recognized as components of the *expression*, however, will differ somewhat from those recognized as components of the *work*. For example, a table of contents, list of references, or index would be viewed as parts of the *expression* inasmuch as they normally entail reference to the particulars of the *expression*. 

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Table 5.5 Whole/Part Expression-to-Expression Relationships

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Dependent Part</th>
<th>Independent Part</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole/Part</td>
<td>Table of contents, etc.</td>
<td>Monograph in a series</td>
</tr>
<tr>
<td></td>
<td>Volume/issue of serial</td>
<td>Journal article</td>
</tr>
<tr>
<td></td>
<td>Illustration for a text</td>
<td>Intellectual part of a</td>
</tr>
<tr>
<td></td>
<td>Sound aspect of a film</td>
<td>multipart work</td>
</tr>
<tr>
<td></td>
<td>Amendment</td>
<td></td>
</tr>
</tbody>
</table>

5.3.3 Expression-to-Work Relationships

Table 5.6 shows the kinds of relationships that can be drawn between an expression of one work and a different work.

The relationships are of the same general type as for work-to-work relationships; successor, supplement, and complement relationships will exist, as will summarization, adaptation, transformation, and imitation. In each case, however, the more specific level of expression is being related to the more general level of work. Drawing the relationship from the expression level to the work level is done quite commonly, most often because a specific expression-to-expression relationship cannot be readily determined. For example, it may be difficult to determine the specific text (i.e., expression) that was used as the basis for a dramatization or screenplay. In such cases the relationship is often expressed simply in the form of a note or added entry referring only to the related work rather than to a specific expression of that work.

As with work-to-work relationships, it will be the nature of the work that the expression represents that will determine the importance of reflecting the expression-to-work relationship in the bibliographic record. If the work represented by the expression is referential, then it will be more important to state its relationship to the other work; if the work is autonomous, stating the relationship is less critical.
### Table 5.6 Expression-to-Work Relationships

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Referential Expression</th>
<th>Autonomous Expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>Successor</td>
<td>Sequel</td>
<td>Sequel, succeeding work</td>
</tr>
<tr>
<td>has a successor →</td>
<td></td>
<td></td>
</tr>
<tr>
<td>← is a successor to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplement</td>
<td>Index, Concordance</td>
<td>Supplement, Appendix</td>
</tr>
<tr>
<td>has a supplement →</td>
<td></td>
<td></td>
</tr>
<tr>
<td>← supplements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complement</td>
<td>Cadenza, Libretto</td>
<td>Incidental music, musical setting for a text</td>
</tr>
<tr>
<td>has a complement →</td>
<td></td>
<td></td>
</tr>
<tr>
<td>← complements</td>
<td></td>
<td>Pendant</td>
</tr>
<tr>
<td>Summarization</td>
<td></td>
<td>Digest, Abstract</td>
</tr>
<tr>
<td>has a summary →</td>
<td></td>
<td></td>
</tr>
<tr>
<td>← is a summary of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adaptation</td>
<td></td>
<td>Adaptation, Paraphrase, free translation, variation</td>
</tr>
<tr>
<td>has an adaptation →</td>
<td></td>
<td></td>
</tr>
<tr>
<td>← is an adaptation of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transformation</td>
<td></td>
<td>Dramatization, novelization, screenplay</td>
</tr>
<tr>
<td>has a transformation →</td>
<td></td>
<td></td>
</tr>
<tr>
<td>← is a transformation of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Imitation</td>
<td></td>
<td>Parody, imitation</td>
</tr>
<tr>
<td>has an imitation →</td>
<td></td>
<td></td>
</tr>
<tr>
<td>← is an imitation of</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
5.3.4 Manifestation-to-Manifestation Relationships

Table 5.7 shows manifestation-to-manifestation relationships.

**Table 5.7 Manifestation-to-Manifestation Relationships**

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Manifestation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproduction</td>
<td>Reproduction</td>
</tr>
<tr>
<td></td>
<td>Microreproduction</td>
</tr>
<tr>
<td></td>
<td>Macroreproduction</td>
</tr>
<tr>
<td></td>
<td>Reprint</td>
</tr>
<tr>
<td></td>
<td>Photo-offset reprint</td>
</tr>
<tr>
<td></td>
<td>Facsimile</td>
</tr>
<tr>
<td></td>
<td>Mirror site</td>
</tr>
<tr>
<td>Alternate</td>
<td>Alternate format</td>
</tr>
<tr>
<td></td>
<td>Simultaneously released edition</td>
</tr>
</tbody>
</table>

Manifestation-to-manifestation relationships normally involve manifestations of the same expression.

The reproduction relationship may involve varying degrees of fidelity to a previous manifestation. Included in this category are various kinds of reproductions. Although in reality a microform reproduction is normally made from a specific copy (i.e., item) of the original manifestation, it is customary to view the relationship as being between the microform manifestation and the print manifestation represented by the actual copy that served as the basis for the microform. In this kind of reproduction, what is important is that the same intellectual or artistic content is represented in the subsequent manifestation; replicating the look and feel of the previous manifestation is not the intent. Reprints represent another situation in which the primary intent is to reissue the intellectual or artistic content; with reprints, it may be assumed that the reprint process will result in a manifestation that exhibits many of the same physical characteristics as the original, although this often is not the main objective. With facsimiles, it is the specific intent not only to preserve the same content, but also to preserve the look and feel of the earlier manifestation.
Example

- \( w_1 \) Clement Rayner’s *A treatise of indulgences*
  - \( e_1 \) the author’s original text
    - \( m_1 \) the book published by John Heigham in 1623
      - has a reproduction \( \rightarrow \)
      - \( \leftarrow \) is a reproduction of
    - \( m_2 \) a facsimile reprint published by Scolar Press in 1973

The alternate relationship involves manifestations that effectively serve as alternates for each other. The alternate relationship obtains, for example, when a publication, sound recording, video, etc. is issued in more than one format or when it is released simultaneously by different publishers in different countries.

Example

- \( w_1 \) Lyle Lovett’s *The road to Ensenada*
  - \( e_1 \) the song-writer’s performance recorded for the album
    - \( m_1 \) the recording released in 1996 by MCA Records
      - on tape cassette
      - has an alternate \( \rightarrow \)
      - \( \leftarrow \) is an alternate to
    - \( m_2 \) the recording released in 1996 by MCA Records
      - on compact disc

5.3.4.1 Whole/Part Relationships at the Manifestation Level

Table 5.8 shows whole/part relationships at the *manifestation* level.

Table 5.8  Whole/Part Manifestation-to-Manifestation Relationships

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Manifestation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole/Part</td>
<td></td>
</tr>
<tr>
<td>has part ( \rightarrow )</td>
<td>Volume of a multivolume manifestation</td>
</tr>
<tr>
<td>( \leftarrow ) is part of</td>
<td>Soundtrack for a film on separate medium</td>
</tr>
<tr>
<td></td>
<td>Soundtrack for a film embedded in film</td>
</tr>
</tbody>
</table>
Physical content as represented by *manifestation* can be divided in much the same way that intellectual content can be divided in the case of *work* and *expression*. A component at the *manifestation* level may be a discrete physical unit of the *manifestation*. Volume 2 of a three-volume set of *War and Peace* would be a *manifestation* component. Similarly an instruction manual accompanying a CD-ROM would be a *manifestation* component. A component of a *manifestation* may also be an integral part of the *manifestation* that is physically inseparable from the whole, such as the soundtrack of a film that is embedded in the film.

**Example**

- **w**₁ *Minnesota politics and government*
  - e₁ the multi-media learning resource
    - m₁ the kit published in 1976 by the Minnesota Historical Society
  - **w**₁₁ *People serving people*, by Judy A. Poseley
    - e₁₁ the author’s text for the booklet
      - m₁₁ the 30 page booklet included in the kit
  - **w**₁₂ *Voices of Minnesota politicians*
    - e₁₂ excerpts from recorded speeches of the politicians
      - m₁₂ the sound disc included in the kit

It is important to remember that *manifestation*, while representing intellectual content as it has been expressed in a physical form, is still an abstraction. Therefore the parts and relationships articulated at this level represent generalizations that would be true for all instances of the *manifestation* that had been produced, and do not represent the parts of a particular copy held by an institution, which would be components at the *item* level.

**5.3.5 Manifestation-to-Item Relationships**

Table 5.9 shows *manifestation*-to-*item* relationships.

A *manifestation*-to-*item* relationship indicates that a given *manifestation* is the result of reproducing a particular *item*. The reproduction relationship will be stated at this level when it is useful to indicate the specific *item* used, as opposed to stating the relationship at the more general level of *manifestation*-to-*manifestation*. 

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Table 5.9 Manifestation-to-Item Relationships

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Manifestation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reproduction</td>
<td>Reproduction</td>
</tr>
<tr>
<td></td>
<td>Microreproduction</td>
</tr>
<tr>
<td></td>
<td>Macrocoproduction</td>
</tr>
<tr>
<td></td>
<td>Reprint</td>
</tr>
<tr>
<td></td>
<td>Photo-offset reprint</td>
</tr>
<tr>
<td></td>
<td>Facsimile</td>
</tr>
</tbody>
</table>

Example

- $w_1$ Jean Jolivet’s *Vraie description des Gaules*....
- $e_1$ the cartographer’s original rendering
  - $m_1$ the map issued in 1570
  - $i_1$ a copy in the Département des Cartes et plans at the Bibliothèque nationale in Paris
    - has a reproduction $\rightarrow$
    - $\leftarrow$ is a reproduction of
- $m_2$ a facsimile reproduction published in 1974 by Hier et demain

5.3.6 Item-to-Item Relationships

Table 5.10 shows two types of *item-to-item* relationships.

Table 5.10 Item-to-Item Relationships

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reconfiguration</td>
<td>Bound with</td>
</tr>
<tr>
<td></td>
<td>Split into</td>
</tr>
<tr>
<td></td>
<td>Extracted from</td>
</tr>
<tr>
<td>Reproduction</td>
<td>Reproduction</td>
</tr>
<tr>
<td></td>
<td>Microreproduction</td>
</tr>
<tr>
<td></td>
<td>Macrocoproduction</td>
</tr>
<tr>
<td></td>
<td>Facsimile</td>
</tr>
</tbody>
</table>
The reproduction relationship states that one particular item has been derived in some way from another item. As with manifestation, there can be varying levels of fidelity of the reproduction to the original item. Unlike the replication of manifestations, however, which in some cases will result in a change in the type of carrier, the replication of one item from another always results in an item of the same physical characteristics as the original.

The reconfiguration relationship is one in which one or more items are changed in such a way that a new item or items result. Most commonly, an item of one manifestation is bound with an item of a different manifestation to make a new item. For monographs, this is the typical "bound with" situation. For serials, reconfiguration happens when several unbound copies representing different issues are bound together to make a single new item. Less frequently, a single physical item may be split and rebound as two separate items.

Examples

- \( \mathbf{i}_1 \) a copy of Adam Lillie’s Canada--physical, economic, and social published in 1855 by MacLear & Company
  is bound with \( \rightarrow \)
  \( \leftarrow \) is bound with

- \( \mathbf{i}_2 \) a copy of Alexander Morris’ Canada and her resources published in 1855 by John Lovell

5.3.6.1 Whole/Part Relationships at the Item Level

Table 5.11 shows whole/part relationships at the item level.

<table>
<thead>
<tr>
<th>Relationship Type</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whole/Part</td>
<td>Physical component of copy</td>
</tr>
<tr>
<td></td>
<td>( \rightarrow ) has part</td>
</tr>
<tr>
<td></td>
<td>( \leftarrow ) is part of</td>
</tr>
<tr>
<td></td>
<td>Binding of a book</td>
</tr>
</tbody>
</table>

Parts of items can be discrete components or integral parts. A discrete component is a separable physical piece constituting part of the whole item. For example, copy 1 of a particular manifestation might consist of two separate volumes; each
of those volumes can participate in a whole/part relationship to the copy as a whole.

An integral part of an item is one that is normally considered to be physically inseparable from the item. The binding of a book, for example, would be considered an integral part. So might a record jacket or a CD-ROM case which, though in reality a separate physical piece, would not normally be viewed as a separate part.
6. USER TASKS

6.1 Mapping Attributes and Relationships to User Tasks

The entity-relationship model that has been developed in Chapters 3, 4, and 5 provides a structure within which data requirements can be analysed in a systematic way. The structure provided by the model serves as a framework for analyzing the uses that are made of bibliographic data with specific reference to the entity that is the object of the user’s interest, and to the attributes and relationships that are relevant to the task being performed by the user. Each attribute and relationship can be mapped directly to the user tasks they support.

As noted in Chapter 2, four generic user tasks have been defined for the purposes of this study. The tasks are defined in relation to the elementary uses that are made of the data by the user:

- to **find** entities that correspond to the user’s stated search criteria (i.e., to locate either a single entity or a set of entities in a file or database as the result of a search using an attribute or relationship of the entity);

- to **identify** an entity (i.e., to confirm that the entity described corresponds to the entity sought, or to distinguish between two or more entities with similar characteristics);

- to **select** an entity that is appropriate to the user’s needs (i.e., to choose an entity that meets the user’s requirements with respect to content, physical format, etc., or to reject an entity as being inappropriate to the user’s needs);

- to acquire or **obtain** access to the entity described (i.e., to acquire an entity through purchase, loan, etc., or to access an entity electronically through an online connection to a remote computer).
6.2 Assessing Value Relative to User Tasks

Tables 6.1 through 6.4 list the attributes and relationships associated with each of the four primary entities in the entity-relationship model (i.e., work, expression, manifestation, and item). Plotted against each attribute and relationship are the four generic user tasks (i.e., find, identify, select, and obtain), and each task is in turn broken out into four sub-tasks defined in relation to the entity on which the task is focused (i.e., find work, find expression, find manifestation, find item, identify work, identify expression, etc.). The symbols used in the tables ( ■ □ ○ ) indicate the relative value of each attribute or relationship in supporting a specific user task focused on a particular entity. The symbol ■ signifies that an attribute or relationship is highly important for supporting the designated task; the symbol □ signifies moderate importance; and the symbol ○ signifies relatively low importance. The absence of a symbol indicates that the attribute or relationship has no discernible relevance to that particular user task or sub-task.

The tables for each entity contain two segments: the first is a list of attributes of that entity; the second is a list of relationships between that entity and other entities. To support a particular user task both attributes of the entity and relationships between that entity and other entities may be important. For example, to assist the user in identifying a work both the attributes of the work and the relationships of the work to other entities (e.g., to a person or corporate body responsible for the work) are important. The attributes segment and the relationships segment of each table are complementary and must be read in conjunction with one another in order to view the full range of information that is important in supporting a particular user task.

The relationships segment of each table also serves as a means of indicating the importance of relationships in assisting the user to relate one entity to another or to “navigate” the universe of entities represented in a bibliographic file or database. In a sense “relate” could be viewed as a fifth user task. The way the tables are set up the symbols in the matrix of the relationships segment indicate both the importance of a particular relationship to each of the four defined user tasks (as the symbols are read vertically in each column) as well as the importance of a relationship to assisting the user to relate one entity to another or to “navigate” a database (as the symbols are read horizontally across each row).

The assessment of importance of each attribute or relationship to a given user task that is reflected in the tables was based in large part on the knowledge and experience of the study group members and consultants, supplemented by evidence in the library science literature gathered from empirical research, as well as by assessments made by several experts outside the study group.
The criteria that were used by the study group in assigning the relative values for each attribute and relationship varied to some degree depending on the nature of the user task. The principal criteria applied for each task are outlined below.

6.2.1 Find an Entity

For the user tasks find work, find expression, find manifestation, and find item, the highest value was assigned to attributes and relationships that meet one or more of the following criteria:

1. the attribute by definition serves to identify the entity (e.g., manifestation identifier, item identifier);

2. the attribute or relationship is typically used as a primary search term for locating the entity (e.g., the title of a manifestation, the relationship between a work and the person or corporate body principally responsible for the work).

Moderate value was assigned to attributes and relationships falling within one or more of the following categories:

1. the attribute or relationship serves to provide a useful means of subdivision within a predictably lengthy file of entities that match the user’s primary search term (e.g., the medium of performance for musical works with non-distinctive titles);

2. the attribute or relationship is typically used as a secondary search term to qualify a search under a primary term that yields a large results set (e.g., language of expression);

3. the attribute or relationship is one that will serve to direct the user from an entity found to another entity that is closely related (e.g., the relationship between a supplement and the work it supplements).

Low value was assigned to attributes and relationships that under more limited circumstances might be used to subdivide further a file or to qualify a search.
6.2.2 Identify an entity

For the user tasks identify work, identify expression, identify manifestation, and identify item, the highest value was assigned to attributes and relationships that meet one or more of the following criteria:

1. the attribute by definition serves to identify the entity (e.g., manifestation identifier, item identifier);

2. the attribute or relationship forms part of the minimal set of attributes and relationships that for the majority of cases will serve, in the absence of a unique identifier, to differentiate entities that have a number of common characteristics (e.g., the minimal set of attributes sufficient to differentiate one manifestation from another in the majority of cases comprises title, statement of responsibility, edition/issue designation, publisher/distributor, date of publication/distribution, series statement, and form of carrier).

Moderate value was assigned to attributes and relationships that fall within one or the other of the following categories:

1. the attribute or relationship is one which under specified circumstances will often serve to differentiate entities for which the minimal set of attributes and relationships that normally serves to identify an entity is insufficient (e.g., the extent or physical medium of the carrier in certain circumstances may serve to signal differences between two manifestations that have the same title, statement of responsibility, edition/issue designation, etc.);

2. the attribute is specifically associated with a sub-type of an entity (e.g., hand-printed books, sound recordings, etc.), and for that sub-category the attribute will often serve to differentiate between otherwise identical entities (e.g., polarity for microforms, presentation format for visual projections, etc.).

Low value was assigned to attributes and relationships that in more limited cases might be used to differentiate between entities with otherwise identical characteristics.

6.2.3 Select an Entity

For the user tasks select work, select expression, select manifestation, and select item, the highest value was assigned to attributes and relationships that meet one or the other of the following criteria:
1. the attribute or relationship serves in most cases as a significant indicator of intellectual or artistic content (e.g., the subject of a work, language of expression, etc.);

2. the attribute is one that normally signals a specific technical requirement for viewing, playback, operating, etc. (e.g., systems requirements for electronic resources, etc.), or other conditions restricting access or use.

Moderate value was assigned to attributes and relationships falling within one or the other of the following categories:

1. the attribute or relationship is a significant indicator of intellectual or artistic content only in limited cases (e.g., intended audience for a work);

2. the attribute or relationship is one that under specified circumstances may signal a specific technical requirement for viewing, playback, operating, etc., (e.g., dimensions of the carrier).

Low value was assigned to attributes and relationships that are only marginally significant indicators of intellectual or artistic content or signals of special technical requirements.

**6.2.4 Obtain an Entity**

For the user tasks obtain manifestation, and obtain item, the highest value was assigned to attributes and relationships that meet one or more of the following criteria:

1. the attribute by definition serves to identify the entity (e.g., manifestation identifier, item identifier);

2. the attribute or relationship forms part of the minimal set of attributes and relationships that for the majority of cases will serve, in the absence of a unique identifier, to differentiate entities that have a number of common characteristics (e.g., the minimal set of attributes sufficient to differentiate one manifestation from another in the majority of cases comprises title, statement of responsibility, edition/issue designation, publisher/distributor, date of publication/distribution, series statement, and form of carrier);

3. the attribute or relationship is in the majority of cases significant for locating the source from which the entity may be obtained (e.g., place of publication/distribution, access address for a remote access electronic resource, etc.);
4. the attribute or relationship is significant as an indicator of restrictions on access to the entity (e.g., access restrictions on the *manifestation*, access restrictions on the *item*).

Moderate value was assigned to attributes and relationships falling within one or the other of the following categories:

1. the attribute or relationship is one which under specified circumstances will often serve to differentiate entities for which the minimal set of attributes and relationships that normally serves to identify an entity is insufficient (e.g., the extent or physical medium of the carrier in certain circumstances may serve to signal differences between two *manifestations* that have the same title, statement of responsibility, edition/issue designation, etc.);

2. the attribute is specifically associated with a sub-type of an entity (e.g., hand-printed books, sound recordings, etc.), and for that sub-category the attribute will often serve to differentiate between otherwise identical entities (e.g., polarity for microforms, presentation format for visual projections, etc.).

Low value was assigned to attributes and relationships that in more limited cases might be used to differentiate between entities with otherwise identical characteristics. Low value was also assigned to attributes and relationships that may be significant for locating the source from which the entity may be obtained, but only if the data is kept current (e.g., source for acquisition/access authorization).

Note that the *obtain* task is not applicable to *works* and *expressions*.

Note also that the structural relationships that link *work* to *expression* ("realized through"), *expression* to *manifestation* ("embodied in"), and *manifestation* to *item* ("exemplified by") are assumed to be always reflected in the bibliographic record and are not shown in the tables.
Table 6.1 Attributes and Relationships of Works

<table>
<thead>
<tr>
<th>Attributes of a Work</th>
<th>Find</th>
<th>Identify</th>
<th>Select</th>
<th>Obtain</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Work</td>
<td>Expression</td>
<td>Manifestation</td>
<td>Item</td>
</tr>
<tr>
<td>Title of the work</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Form of work</td>
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<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Date of the work</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Other distinguishing characteristic</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Intended termination</td>
<td>□</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Intended audience</td>
<td>○</td>
<td>○</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Context for the work</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium of performance (musical work) (note 1)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Numeric designation (musical work) (note 1)</td>
<td>○</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Key (musical work) (note 1)</td>
<td>○</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Coordinates (cartographic work)</td>
<td>□</td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Equinox (cartographic work)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

1 Medium of performance, numeric designation, and key have a higher value for identifying musical works with non-distinctive titles indicative only of the musical form (e.g., Symphony, Concerto, etc.)

■ = high value ☐ = moderate value ○ = low value
Table 6.1  Attributes and Relationships of Works (cont’d)

<table>
<thead>
<tr>
<th>Relationships Between a Work</th>
<th>Find</th>
<th>Identify</th>
<th>Select</th>
<th>Obtain</th>
</tr>
</thead>
<tbody>
<tr>
<td>And other works:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Referential successor</td>
<td>□</td>
<td>□</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Referential supplement</td>
<td>□</td>
<td>□</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Referential complement</td>
<td>□</td>
<td>□</td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Autonomous successor</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Autonomous supplement</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Autonomous complement</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Summarization</td>
<td>□</td>
<td>■</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Adaptation</td>
<td>□</td>
<td>■</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Transformation</td>
<td>□</td>
<td>■</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Imitation</td>
<td>■</td>
<td>■</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Dependent component</td>
<td>■</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Independent component</td>
<td>■</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Integral intellectual aspect</td>
<td>■</td>
<td>■</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>And persons/corporate bodies responsible for the work</td>
<td>■</td>
<td>■</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>And entities treated as subject of the work</td>
<td>■</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

■ = high value  
□ = moderate value  
○ = low value
Table 6.2 Attributes and Relationships of Expressions

<table>
<thead>
<tr>
<th>Attributes of an Expression</th>
<th>Find</th>
<th>Identify</th>
<th>Select</th>
<th>Obtain</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Work Expression</td>
<td>Expression Manifystation Item</td>
<td>Work Expression</td>
<td>Expression Manifystation Item</td>
</tr>
<tr>
<td>Title of the expression</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Form of expression</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date of expression</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Language of expression <strong>(note 1)</strong></td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Other distinguishing characteristic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extensibility of expression</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revisability of expression</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extent of the expression <strong>(note 2)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Summarization of content</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Context for the expression</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Critical response to the expression</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use restrictions on the expression</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Language of expression has value only if the linguistic content of the expression is significant.
2 Extent of the expression may have a prime value for audio and visual materials (i.e., when expressed as duration).

■ = high value  □ = moderate value  ○ = low value
<table>
<thead>
<tr>
<th>Attributes of an Expression (continued)</th>
<th>Find</th>
<th>Identify</th>
<th>Select</th>
<th>Obtain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequencing pattern (serial)</td>
<td></td>
<td></td>
<td></td>
<td>○</td>
</tr>
<tr>
<td>Expected regularity of issue (serial)</td>
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<td></td>
<td></td>
<td>□</td>
</tr>
<tr>
<td>Expected frequency of issue (serial)</td>
<td></td>
<td>■</td>
<td>■</td>
<td>□</td>
</tr>
<tr>
<td>Type of score (musical notation)</td>
<td></td>
<td>■</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Medium of performance (musical notation or recorded sound)</td>
<td>■</td>
<td>■</td>
<td>■</td>
<td></td>
</tr>
<tr>
<td>Scale (cartographic image/object)</td>
<td></td>
<td>□</td>
<td>□</td>
<td>■</td>
</tr>
<tr>
<td>Projection (cartographic image/object)</td>
<td></td>
<td>□</td>
<td>○</td>
<td>○</td>
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<tr>
<td>Presentation technique (cartographic image/object)</td>
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<td>□</td>
<td></td>
</tr>
<tr>
<td>Representation of relief (cartographic image/object)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td></td>
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<tr>
<td>Geodetic, grid, and vertical measurement (cartographic image/object)</td>
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<td>□</td>
<td>□</td>
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</tr>
<tr>
<td>Recording technique (remote sensing image)</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Special characteristic (remote sensing image)</td>
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<td>□</td>
<td>□</td>
<td></td>
</tr>
<tr>
<td>Technique (graphic or projected image)</td>
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<td>□</td>
<td>□</td>
<td></td>
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</tbody>
</table>

■ = high value  □ = moderate value  ○ = low value
### Table 6.2 Attributes and Relationships of Expressions (cont’d)

<table>
<thead>
<tr>
<th>Relationships Between an Expression</th>
<th>Find</th>
<th>Identify</th>
<th>Select</th>
<th>Obtain</th>
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</thead>
<tbody>
<tr>
<td>And other expressions/works</td>
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<td>Manifestation Item</td>
<td>Work Expression</td>
<td>Manifestation Item</td>
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<td>Revision</td>
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<td>Translation</td>
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<tr>
<td>Referential successor</td>
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<td>□</td>
<td>□</td>
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<tr>
<td>Referential supplement</td>
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<td>□</td>
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<td>□</td>
</tr>
<tr>
<td>Referential complement</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Autonomous successor</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Autonomous supplement</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Autonomous complement</td>
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<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Summarization</td>
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<td>□</td>
<td>□</td>
<td>□</td>
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<tr>
<td>Adaptation</td>
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<td>□</td>
<td>□</td>
<td>□</td>
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<tr>
<td>Transformation</td>
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<td>□</td>
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<td>Imitation</td>
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<td>□</td>
<td>□</td>
<td>□</td>
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<tr>
<td>Dependent component</td>
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<td>□</td>
<td>□</td>
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<td>Independent component</td>
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<td>Integral aspect</td>
<td>□</td>
<td>□</td>
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<td>□</td>
</tr>
<tr>
<td>And persons/corporate bodies</td>
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<td>□</td>
<td>□</td>
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<tr>
<td>responsible for content</td>
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■ = high value
□ = moderate value
○ = low value

- 92 -
<table>
<thead>
<tr>
<th>Attributes of a Manifestation</th>
<th>Find</th>
<th>Identify</th>
<th>Select</th>
<th>Obtain</th>
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<td>■</td>
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</tr>
<tr>
<td>Edition/issue designation</td>
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<td></td>
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<td>□</td>
</tr>
<tr>
<td>Place of publication/distribution</td>
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<td>□</td>
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<tr>
<td>Publisher/distributor</td>
<td></td>
<td></td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Date of publication/distribution</td>
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<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Fabricator/manufacturer</td>
<td>ø</td>
<td>□</td>
<td>□</td>
<td>□</td>
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<tr>
<td>Series statement</td>
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<td>Form of carrier</td>
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<td></td>
<td>□</td>
<td>□</td>
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<tr>
<td>Extent of the carrier</td>
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<td>Capture mode</td>
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<td></td>
<td>□</td>
<td>□</td>
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<tr>
<td>Dimensions of the carrier</td>
<td></td>
<td></td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Manifestation identifier</td>
<td>■</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Source for acquisition/access authorization</td>
<td></td>
<td></td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>Terms of availability</td>
<td></td>
<td></td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

1 Fabricator/manufacturer may have a higher value for early printed books, limited production graphics, castings, etc.
2 Extent of the carrier may have a higher value in cases where the extent may signal differences between one manifestation and another.
3 Physical medium may have a higher value in cases where the medium is potentially important to users (e.g. nitrate-based film).
4 Dimensions of the carrier may have a higher value in cases where the dimensions are significant for playback equipment, etc.
5 Source for acquisition/access authorization may have a higher value if the manifestation is likely to be difficult to obtain through normal trade sources.

■ = high value
□ = moderate value
○ = low value

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<table>
<thead>
<tr>
<th>Attributes of a Manifestation (continued)</th>
<th>Find</th>
<th>Identify</th>
<th>Select</th>
<th>Obtain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typeface (printed book) (\text{(note 1)})</td>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type size (printed book) (\text{(note 1)})</td>
<td>○</td>
<td>○</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foliation (hand-printed book)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Collation (hand-printed book)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Publication status (serial)</td>
<td>☐</td>
<td>☐</td>
<td></td>
<td>☐</td>
</tr>
<tr>
<td>Numbering (serial)</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Playing speed (sound recording) (\text{(note 2)})</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Groove width (sound recording)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kind of cutting (sound recording)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tape configuration (sound recording)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kind of sound (sound recording)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special reproduction characteristic (sound recording)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colour (image)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reduction ratio (microform)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polarity (microform or visual projection)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Generation (microform or visual projection)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Presentation format (visual projection)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System requirements (electronic resource)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>File characteristics (electronic resource)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mode of access (remote access electronic resource)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Access address (remote access electronic resource)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Typeface and type size may have a higher value for differentiating between issues of early books and also for helping users choose materials for the visually impaired.
2. Playing speed may have a higher value for historic recordings that require special playback equipment.

= high value  □ = moderate value  ○ = low value
Table 6.3  Attributes and Relationships of Manifestations (cont’d)

<table>
<thead>
<tr>
<th>Relationships Between a Manifestation</th>
<th>Find</th>
<th>Identify</th>
<th>Select</th>
<th>Obtain</th>
</tr>
</thead>
<tbody>
<tr>
<td>And other manifestations</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproduction</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Alternate</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Component</td>
<td>☐</td>
<td></td>
<td>☐</td>
<td>☐</td>
</tr>
<tr>
<td>Integral part</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>And items</td>
<td>☐</td>
<td>☐</td>
<td></td>
<td>☐</td>
</tr>
<tr>
<td>Reproduction</td>
<td>☐</td>
<td>☐</td>
<td></td>
<td></td>
</tr>
<tr>
<td>And persons/corporate bodies responsible for production/dissemination</td>
<td>☐</td>
<td>☐</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

■ = high value  ☐ = moderate value  ☐ = low value
Table 6.4 Attributes and Relationships of Items

<table>
<thead>
<tr>
<th>Attributes of an Item</th>
<th>Find</th>
<th>Identify</th>
<th>Select</th>
<th>Obtain</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item identifier</td>
<td>■</td>
<td></td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Fingerprint</td>
<td></td>
<td>□</td>
<td></td>
<td>□</td>
</tr>
<tr>
<td>Provenance of the item</td>
<td></td>
<td>□</td>
<td></td>
<td>□</td>
</tr>
<tr>
<td>Marks/inscriptions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exhibition history</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Condition of the item</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treatment history</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scheduled treatment</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Access restrictions on the item</td>
<td></td>
<td></td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relationships Between an Item</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>And other items</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reconfiguration</td>
<td></td>
<td>□</td>
<td></td>
<td>□</td>
</tr>
<tr>
<td>Reproduction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical component of copy</td>
<td></td>
<td>□</td>
<td></td>
<td>□</td>
</tr>
<tr>
<td>Integral part</td>
<td></td>
<td>□</td>
<td></td>
<td>□</td>
</tr>
<tr>
<td>And persons/corporate bodies responsible for ownership/custodianship</td>
<td></td>
<td>□</td>
<td></td>
<td>□</td>
</tr>
</tbody>
</table>

■ = high value
□ = moderate value
○ = low value
7. BASIC REQUIREMENTS FOR NATIONAL BIBLIOGRAPHIC RECORDS

7.1 Basic Level of Functionality

The mapping of attributes and relationships to user tasks in Chapter 6 serves as the frame of reference for the study group’s recommendations regarding basic data to be included in records created by national bibliographic agencies.

Of the various tasks and sub-tasks identified in Tables 6.1 through 6.4, the study group recommends that at a basic level the national bibliographic record should assist the user to do at least the following:

- **Find** all *manifestations* embodying:
  - the *works* for which a given *person* or *corporate body* is responsible
  - the various *expressions* of a given *work*
  - *works* on a given subject
  - *works* in a given series

- **Find** a particular *manifestation*:
  - when the name(s) of the *person(s) and/or corporate body(ies)* responsible for the *work(s) embodied in the manifestation* is (are) known
  - when the title of the *manifestation* is known
  - when the *manifestation* identifier is known

- **Identify** a *work*

- **Identify** an *expression* of a *work*
- Identify a *manifestation*
- Select a *work*
- Select an *expression*
- Select a *manifestation*
- Obtain a *manifestation*

It should be noted that inasmuch as the recommendations in this chapter relate to records created for listing in a national bibliography and such records normally do not reflect data pertaining to the *item*, the user tasks related to the *item* are not addressed.

### 7.2 Basic Data Requirements

Tables 7.1 through 7.9 specify the data requirements for a basic level national bibliographic record. In the left-hand column of each table are listed the basic user tasks to be supported by the record as identified in section 7.1 above. The centre column lists opposite each basic task the “high value” logical attributes and relationships identified in Tables 6.1 through 6.4 for that particular task. The right-hand column specifies opposite each logical attribute or relationship the individual data elements the study group recommends as the minimum data requirement. The terms used to identify individual data elements correspond to the terms used in the *International Standard Bibliographic Descriptions* (ISBDs) and the *Guidelines for Authority and Reference Entries* (GARE). In cases where the data requirement is more narrowly defined than the ISBD or GARE data element, the data element name is qualified to indicate more specifically the type of data to be recorded.

The data element(s) associated with each logical attribute are those where information about the attribute would most commonly be positioned in a bibliographic record. In some cases the same information may be recorded in more than one place in the record (e.g., language of *expression* may be recorded both as a note and as an addition to a uniform title). In those cases both data elements have been listed opposite the logical attribute, but the basic requirement can be considered to be met if either of the data elements is included in the record.

One data element that has not been listed in the right-hand column is “other title information.” Because the data element is defined in the ISBDs largely in terms of its proximity to the title of a *manifestation*, and may encompass a broad range of different kinds of information, it can be associated with a number of different
logical attributes (e.g., form of work, intended audience, medium of performance, language of expression, etc.). The data element as such has therefore not been included in the tables. Nevertheless, it should be understood that information pertaining to a logical attribute identified as one that should be reflected in the basic level record may be recorded as “other title information,” if applicable, even though the data element associated with the logical attribute may be identified differently in the right-hand column of the tables (e.g., as a note).

It should be noted also that in the tables that follow, the structural relationships linking work to expression and expression to manifestation are assumed always to be reflected in the record (i.e., data pertaining to an expression are assumed always to be linked to data pertaining to the work realized by the expression, and data pertaining to a manifestation are assumed always to be linked to data pertaining to the expression embodied in the manifestation). Thus when a relationship between a work or expression and the person or corporate body responsible for the content of that entity is identified as a requirement, it is assumed that the relationship extends through to the manifestation embodying the expression by virtue of the structural relationships from work to expression and from expression to manifestation. Similarly when a relationship between a work and its subject is identified as a requirement, it is assumed that the relationship extends through to the expression and the manifestation by virtue of the structural relationships from work to expression and from expression to manifestation. The structural relationships between work, expression, and manifestation are therefore implicit, and are not stated explicitly as requirements.

Finally, it should be noted that the data elements identified in Tables 7.1 and 7.2 as enabling the user to find an entity are limited to those that would normally be used as filing devices and/or index entries in a non-automated environment. That does not, however, preclude other data elements that are identified as requirements for the identify, select, or obtain tasks from serving to support the find task as well in an automated environment. Virtually any data element included in the record has the potential for assisting the user to find an entity if the record is accessed in an automated environment in which keyword searching is supported, providing that the data element is indexed.
### Table 7.1 Find Manifestations

<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.1 Find all <em>manifestations</em> embodying:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.1.1 the <em>works</em> for which a given <em>person</em> or <em>corporate body</em> is responsible</td>
<td>relationship(s) between the <em>person(s)</em> or <em>corporate body(ies)</em> responsible and the <em>work(s)</em> embodied in the <em>manifestation</em></td>
<td>name heading(s) for <em>person(s)</em> and/or <em>corporate body(ies)</em> with principal responsibility for the <em>work(s)</em></td>
</tr>
<tr>
<td>7.1.2 the various <em>expressions</em> of a given <em>work</em></td>
<td>relationship(s) between the <em>work</em> and the <em>expression(s)</em> embodied in the <em>manifestation</em></td>
<td>title heading(s) for the <em>work(s)</em></td>
</tr>
<tr>
<td>7.1.3 <em>works</em> on a given subject</td>
<td>relationship(s) between the <em>concept(s)</em>, etc. that is (are) the subject and the <em>work(s)</em> embodied in the <em>manifestation</em></td>
<td>subject heading(s) and/or classification number(s) for the principal subject(s) of the <em>work(s)</em></td>
</tr>
</tbody>
</table>
| 7.1.4 *works* in a given series | relationship between the series and the *work* | heading for the series  
| | | numbering within series |
Table 7.2 Find A Particular Manifestation

<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.2 Find a particular <em>manifestation</em>:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.2.1 when the name(s) of the <em>person(s)</em> and/or <em>corporate body(ies)</em> responsible for the <em>work(s)</em> embodied in the <em>manifestation</em> is (are) known</td>
<td>■ relationship(s) between the <em>person(s)</em> and/or <em>corporate body(ies)</em> responsible and the <em>work(s)</em> embodied in the <em>manifestation</em></td>
<td>■ name heading(s) for <em>person(s)</em> and/or <em>corporate body(ies)</em> with principal responsibility for the <em>work(s)</em></td>
</tr>
<tr>
<td>7.2.2 when the title of the <em>manifestation</em> is known</td>
<td>■ title of the <em>manifestation</em></td>
<td>■ title proper (including number/name of part) ■ parallel title(s)†</td>
</tr>
<tr>
<td>7.2.3 when the <em>manifestation</em> identifier is known</td>
<td>■ <em>manifestation</em> identifier</td>
<td>■ standard number (or alternative)</td>
</tr>
</tbody>
</table>

Notes:
1. Parallel titles should be included in the basic record to the extent that the national bibliographic agency considers them important to users.
Table 7.3 Identify a Work

<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.3 Identify a work</td>
<td>• title of the work</td>
<td>• title heading for the work</td>
</tr>
<tr>
<td></td>
<td>• relationship(s) between the person(s) and/or corporate body(ies) responsible and the work</td>
<td>• name heading(s) for person(s) and/or corporate body(ies) with principal responsibility for the work</td>
</tr>
<tr>
<td></td>
<td>• intended termination</td>
<td>• frequency statement, numbering, [etc.]</td>
</tr>
<tr>
<td></td>
<td>• medium of performance (musical work)¹</td>
<td>• addition to uniform title - medium of performance (music)</td>
</tr>
<tr>
<td></td>
<td>• numeric designation (musical work)¹</td>
<td>• addition to uniform title - numeric designation (music)</td>
</tr>
<tr>
<td></td>
<td>• key (musical work)¹</td>
<td>• addition to uniform title - key (music)</td>
</tr>
<tr>
<td></td>
<td>• coordinates (cartographic work)</td>
<td>• mathematical data statement - coordinates</td>
</tr>
<tr>
<td></td>
<td>• relationship between the work and the parent work²</td>
<td>• note on ... bibliographic history - parent work</td>
</tr>
</tbody>
</table>

Notes:

1. Medium of performance, numeric designation, and key are considered a basic requirement only for musical works with non-distinctive titles indicative only of the musical form (e.g., Symphony, Concerto, etc.).
2. The relationship between the work and the parent work is considered a basic requirement only in cases where the work is a dependent component of the parent.
Table 7.4 Identify an Expression

<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.4 Identify an expression of a work</td>
<td>- relationship(s) between the person(s) and/or corporate body(ies) responsible and the expression</td>
<td>- name heading(s) for person(s) and/or corporate body(ies) with principal responsibility for the expression</td>
</tr>
<tr>
<td></td>
<td>- form of expression</td>
<td>- note on form of expression¹</td>
</tr>
<tr>
<td></td>
<td>- language of expression²</td>
<td>- addition to uniform title - language</td>
</tr>
<tr>
<td></td>
<td>- other distinguishing characteristic</td>
<td>- note on language</td>
</tr>
<tr>
<td></td>
<td>- extent of the expression³</td>
<td>- addition to uniform title - other distinguishing characteristic</td>
</tr>
<tr>
<td></td>
<td>- expected frequency of issue (serial)</td>
<td>- note on other distinguishing characteristic</td>
</tr>
<tr>
<td></td>
<td>- type of score (musical notation)</td>
<td>- extent - playing time/duration</td>
</tr>
<tr>
<td></td>
<td>- medium of performance of the expression (musical notation)</td>
<td>- frequency statement</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- musical presentation statement - type of score</td>
</tr>
</tbody>
</table>

Notes:

1. A note on form of expression is considered a basic requirement only if the form of expression cannot be inferred from other data in the record.
2. Language of expression is considered a basic requirement only if the linguistic content of the expression is significant.
3. Extent of the expression is considered a basic requirement only for audio and visual materials.
Table 7.5 Identify a Manifestation

<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5 Identify a manifestation</td>
<td>■ title of the <em>manifestation</em></td>
<td>■ title proper (including number/name of part)</td>
</tr>
<tr>
<td></td>
<td>■ statement of responsibility</td>
<td>■ statement(s) of responsibility identifying the individual(s) and/or group(s) with principal responsibility for the content</td>
</tr>
<tr>
<td></td>
<td>■ edition/issue designation</td>
<td>■ first statement of responsibility relating to the edition</td>
</tr>
<tr>
<td></td>
<td>■ publisher/distributor</td>
<td>■ first statement of responsibility relating to the additional edition statement</td>
</tr>
<tr>
<td></td>
<td>■ date of publication/distribution</td>
<td></td>
</tr>
<tr>
<td></td>
<td>■ series statement</td>
<td>■ edition statement</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ additional edition statement</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ name of publisher, distributor, etc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ date of publication, distribution, etc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ title proper of series</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ parallel title(s) of series⁴</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ first statement of responsibility relating to the series²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>■ numbering within series</td>
</tr>
</tbody>
</table>

Notes:

1. Parallel titles of series should be included in the basic record to the extent that the national bibliographic agency considers them important to users.
2. Statement of responsibility for the series is considered a basic requirement only in cases where the series title alone is insufficient to identify the series.
Table 7.5 Identify a Manifestation (cont’d)

<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5 Identify a manifestation (cont’d)</td>
<td>■ form of carrier</td>
<td>■ specific material designation</td>
</tr>
<tr>
<td></td>
<td>■ extent of carrier¹</td>
<td>■ extent</td>
</tr>
<tr>
<td></td>
<td>■ manifestation identifier</td>
<td>■ standard number (or alternative)</td>
</tr>
<tr>
<td></td>
<td>■ foliation (hand-printed book)</td>
<td>■ note on physical description - foliation</td>
</tr>
<tr>
<td></td>
<td>■ collation (hand-printed book)</td>
<td>■ note on physical description - collation</td>
</tr>
<tr>
<td></td>
<td>■ numbering (serial)</td>
<td>■ numbering</td>
</tr>
</tbody>
</table>

Notes:
1. Extent of the carrier is considered a basic requirement only in cases where it has the potential to signal differences between one manifestation and another (e.g., number of pages).
Table 7.6 Select a Work

<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.6 Select a work</td>
<td>▪ title of the work</td>
<td>▪ title heading for the work</td>
</tr>
<tr>
<td></td>
<td>▪ relationship(s) between the person(s) and/or corporate body(ies) responsible and the work</td>
<td>▪ name heading(s) for person(s) and/or corporate body(ies) with principal responsibility for the work</td>
</tr>
<tr>
<td></td>
<td>▪ relationship(s) between the concept(s), etc. that is (are) the subject and the work(s) embodied in the manifestation</td>
<td>▪ subject heading(s) and/or classification number(s) for the principal subject(s) of the work(s)</td>
</tr>
<tr>
<td></td>
<td>▪ form of work</td>
<td>▪ note on the form of the work</td>
</tr>
<tr>
<td></td>
<td>▪ coordinates (cartographic work)</td>
<td>▪ mathematical data statement - coordinates</td>
</tr>
<tr>
<td></td>
<td>▪ relationship between the work and the preceding and/or succeeding work</td>
<td>▪ note on ... bibliographic history - preceding/succeeding work</td>
</tr>
<tr>
<td></td>
<td>▪ relationship between the work and the work it supplements</td>
<td>▪ note on ... bibliographic history - supplement</td>
</tr>
<tr>
<td></td>
<td>▪ relationship between the work and the work it complements</td>
<td>▪ note on ... bibliographic history - complement</td>
</tr>
</tbody>
</table>

Notes:

1. The relationship between the work and its predecessor, successor, supplement, or complement is considered a basic requirement only if the relationship between the entities is referential.

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<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.7 Select an expression</td>
<td>■ relationship(s) between the person(s) and/or corporate body(ies) responsible and the expression</td>
<td>■ name heading(s) for person(s) and/or corporate body(ies) with principal responsibility for the expression</td>
</tr>
<tr>
<td></td>
<td>■ form of expression</td>
<td>■ note on the form of expression¹</td>
</tr>
<tr>
<td></td>
<td>■ language of expression²</td>
<td>■ note on language</td>
</tr>
<tr>
<td></td>
<td>■ other distinguishing characteristic</td>
<td>■ note on distinguishing characteristic of expression</td>
</tr>
<tr>
<td></td>
<td>■ use restrictions on the expression</td>
<td>■ note on use restrictions</td>
</tr>
<tr>
<td></td>
<td>■ expected frequency of issue (serial)</td>
<td>■ frequency statement</td>
</tr>
<tr>
<td></td>
<td>■ type of score (musical notation)</td>
<td>■ musical presentation statement - type of score</td>
</tr>
<tr>
<td></td>
<td>■ medium of performance of the expression (musical notation)</td>
<td>■ note on medium of performance of the expression</td>
</tr>
<tr>
<td></td>
<td>■ scale (cartographic image/object)</td>
<td>■ mathematical data statement - scale</td>
</tr>
</tbody>
</table>

Notes:
1. A note on form of expression is considered a basic requirement only if the form of expression cannot be inferred from other data in the record.
2. Language of expression is considered a basic requirement only if the expression has significant linguistic content.
### Table 7.7 Select an Expression (cont’d)

<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.7 Select an expression (cont’d)</td>
<td>■ relationship between the expression and the preceding and/or succeeding expression(^1)</td>
<td>■ note on ... bibliographic history - preceding/succeeding expression</td>
</tr>
<tr>
<td></td>
<td>■ relationship between the expression and the expression it supplements(^1)</td>
<td>■ note on ... bibliographic history - supplement</td>
</tr>
<tr>
<td></td>
<td>■ relationship between the expression and the expression it complements(^1)</td>
<td>■ note on ... bibliographic history - complement</td>
</tr>
<tr>
<td></td>
<td>■ relationship between the revision and the expression on which the revision is based(^1)</td>
<td>■ note on ... bibliographic history - revision</td>
</tr>
<tr>
<td></td>
<td>■ relationship between the arrangement and the expression on which the arrangement is based(^1)</td>
<td>■ note on ... bibliographic history - arrangement</td>
</tr>
<tr>
<td></td>
<td>■ relationship between the translation and the expression on which the translation is based(^1)</td>
<td>■ note on ... bibliographic history - translation</td>
</tr>
</tbody>
</table>

Notes:

1. The relationship between an expression and its predecessor/successor, supplement, or complement is considered a basic requirement only if the relationship is referential. If the expression cannot be related to the specific expression it precedes, succeeds, supplements or complements, or to the specific expression on which a revision, arrangement, or translation is based, or if identification of the specific expression on which it is based is not considered to be important, the expression may simply be related to the relevant work.
Table 7.8 Select a Manifestation

<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.8 Select a <em>manifestation</em></td>
<td>■ statement of responsibility</td>
<td>■ statement of responsibility identifying the individual(s) and/or group(s) with principal responsibility for the content</td>
</tr>
<tr>
<td></td>
<td>■ edition/issue designation</td>
<td>■ edition statement</td>
</tr>
<tr>
<td></td>
<td>■ date of publication/distribution</td>
<td>■ additional edition statement</td>
</tr>
<tr>
<td></td>
<td>■ form of carrier</td>
<td>■ date of publication, distribution, etc.</td>
</tr>
<tr>
<td></td>
<td>■ physical medium¹</td>
<td>■ specific material designation</td>
</tr>
<tr>
<td></td>
<td>■ dimensions of carrier²</td>
<td>■ note on physical description - medium</td>
</tr>
<tr>
<td></td>
<td>■ reduction ratio (microform)</td>
<td>■ dimensions</td>
</tr>
<tr>
<td></td>
<td>■ presentation format (visual projection)</td>
<td>■ note on physical description - reduction ratio</td>
</tr>
<tr>
<td></td>
<td>■ system requirements (electronic resource)</td>
<td>■ note on physical description - presentation format</td>
</tr>
</tbody>
</table>

Notes:
1. Physical medium is considered a basic requirement only in cases where the medium is potentially important to users (e.g., nitrate-based film).
2. Dimensions of the carrier are considered a basic requirement only in cases where the dimensions may be significant in terms of the equipment required for playback, etc. (e.g., diskettes, cassettes, etc.).
Table 7.9 Obtain a Manifestation

<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.9 Obtain a <em>manifestation</em></td>
<td>☐ title of the manifestation</td>
<td>☐ title proper</td>
</tr>
<tr>
<td></td>
<td>☐ statement of responsibility</td>
<td>☐ statement(s) of responsibility identifying the individual(s) and/or group(s) with principal responsibility for the content</td>
</tr>
<tr>
<td></td>
<td>☐ edition/issue designation</td>
<td>☐ edition statement</td>
</tr>
<tr>
<td></td>
<td>☐ place of publication/distribution</td>
<td>☐ additional edition statement</td>
</tr>
<tr>
<td></td>
<td>☐ publisher/distributor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>☐ date of publication/distribution</td>
<td></td>
</tr>
<tr>
<td></td>
<td>☐ series statement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>☐ form of carrier</td>
<td></td>
</tr>
<tr>
<td></td>
<td>☐ <em>manifestation</em> identifier</td>
<td></td>
</tr>
</tbody>
</table>

Notes:

1. Statement of responsibility for the series is considered a basic requirement only in cases where the series title alone is insufficient to identify the series.
Table 7.9 Obtain a Manifestation (cont’d)

<table>
<thead>
<tr>
<th>To enable the user to --</th>
<th>the basic level national bibliographic record should reflect these logical attributes and relationships --</th>
<th>and should include these specific data elements --</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.9 Obtain a <em>manifestation</em> (cont’d)</td>
<td>■ source for acquisition/access authorization(^1)</td>
<td>■ note relating to ... availability</td>
</tr>
<tr>
<td></td>
<td>■ access restrictions on the manifestation</td>
<td>■ note relating to access restrictions</td>
</tr>
<tr>
<td></td>
<td>■ foliation (hand-printed book)</td>
<td>■ note on physical description - foliation</td>
</tr>
<tr>
<td></td>
<td>■ collation (hand-printed book)</td>
<td>■ note on physical description - collation</td>
</tr>
<tr>
<td></td>
<td>■ expected frequency of issue (serial)</td>
<td>■ frequency statement</td>
</tr>
<tr>
<td></td>
<td>■ numbering (serial)</td>
<td>■ numbering (serial)</td>
</tr>
<tr>
<td></td>
<td>■ mode of access (remote access electronic resource)</td>
<td>■ note on mode of access - mode of access</td>
</tr>
<tr>
<td></td>
<td>■ access address (remote access electronic resource)</td>
<td>■ note on mode of access - access address</td>
</tr>
</tbody>
</table>

Notes:

1. Source for acquisition/access authorization is considered a basic requirement only in cases where the manifestation is likely to be difficult to obtain through normal trade sources.
7.3 Basic Level National Bibliographic Record

The following is a consolidation of the minimum data requirements identified in Tables 7.1 through 7.9, re-arranged under two broad groupings: descriptive elements and organizing elements. Taken together, the data requirements listed under the two groupings constitute the study group’s recommended basic level national bibliographic record.

Data elements that are applicable only to a sub-type of an entity are designated with special symbols (e.g., ☐ indicates a data element applicable only to serials). The sub-type is identified in parentheses following the term for the data element.

Descriptive Elements

Title and statement of responsibility area

■ title proper (including number/name of part)
■ parallel title(s)
■ statement(s) of responsibility identifying the individual(s) and/or group(s) with principal responsibility for the content

Edition area

■ edition statement
■ additional edition statement

Material (or type of publication) specific area

☐ numbering (serials)
☐ mathematical data statement - coordinates (cartographic work)
☐ mathematical data statement - scale (cartographic image/object)
☐ musical presentation statement - type of score (musical notation)

Publication, distribution, etc. area

■ place of publication, distribution, etc.
■ name of publisher, distributor, etc.
■ date of publication, distribution, etc.
Physical description area

- specific material designation
- extent\(^2\)
- dimensions\(^3\)

Series area

- title proper of series
- parallel title(s) of series\(^4\)
- first statement of responsibility relating to the series\(^5\)

Note area

- note on the form of expression\(^6\)
- note on language\(^7\)
- note on distinguishing characteristic of expression
- frequency statement (serials)
- note on medium of performance of the expression (musical notation or recorded sound)

- note on edition and bibliographic history - succesor\(^8\)
- note on edition and bibliographic history - supplement\(^8\)
- note on edition and bibliographic history - complement\(^8\)
- note on edition and bibliographic history - revision
- note on edition and bibliographic history - translation
- note on edition and bibliographic history - parent work\(^9\)
- note on edition and bibliographic history - arrangement (music)

- note on physical description - medium\(^10\)
  - note on physical description - foliation (hand-printed books)
  - note on physical description - collation (hand-printed books)
  - note on physical description - reduction ratio (microforms)
- note on physical description - presentation format (visual projections)
- note on system requirements (electronic resources)

- note relating to binding and availability - source for acquisition/access\(^11\)
- note on use/access restrictions
Standard number (or alternative) and terms of availability area

- standard number (or alternative)

Notes:

1. Parallel titles should be included in the basic record to the extent that the national bibliographic agency considers them important to users.
2. Extent of the carrier is considered a basic requirement only in cases where it has the potential to signal differences between one manifestation and another (e.g., number of pages). Extent of the expression (playing time/duration) is considered a basic requirement for audio and visual materials.
3. Dimensions of the carrier are considered a basic requirement only in cases where the dimensions may be significant in terms of the equipment required for playback, etc. (e.g., diskettes, cassettes, etc.).
4. Parallel titles of series should be included in the basic record to the extent that the national bibliographic agency considers them important to users.
5. Statement of responsibility for the series is considered a basic requirement only in cases where the series title alone is insufficient to identify the series.
6. A note on form of expression is considered a basic requirement only if the form of expression cannot be inferred from other data in the record.
7. A note on language is considered a basic requirement only if the linguistic content of the expression is significant.
8. Notes on preceding/succeeding works or expressions, supplements, and complements are considered a basic requirement only if the relationship between the entities is referential.
9. A note on the relationship between the work and the parent work is considered a basic requirement only in cases where the work is a dependent component of the parent.
10. Physical medium is considered a basic requirement only in cases where the medium is potentially important to users (e.g., nitrate-based film).
11. A note on source for acquisition/access authorization is considered a basic requirement only in cases where the manifestation is likely to be difficult to obtain through normal trade sources.

Organizing Elements

Name headings

- name heading(s) for person(s) and/or corporate body(ies) with principal responsibility for the work(s)
- name heading(s) for person(s) and/or corporate body(ies) with principal responsibility for the expression(s)
Title headings

- title heading(s) for the work(s)
- addition to uniform title - language¹
- addition to uniform title - other distinguishing characteristic
- addition to uniform title - medium of performance (music)²
- addition to uniform title - numeric designation (music)²
- addition to uniform title - key (music)²
- addition to uniform title - statement of arrangement (music)

Series headings

- heading for the series

Subject headings / classification numbers

- subject heading(s) and/or classification number(s) for the principal subject(s) of the work(s)

Notes:

1. An addition to the uniform title indicating language is considered a basic requirement only if the addition is needed to differentiate between multiple expressions of the same work in different languages.
2. Medium of performance, numeric designation, and key are considered a basic requirement only for musical works with non-distinctive titles indicative only of the musical form (e.g., Symphony, Concerto, etc.).

7.3.1 Application

Application of the basic requirement as stated above assumes the following:

1. A data element specified as a requirement for a basic level record is to be included only when applicable to the entity described in the record (e.g., if the manifestation described in the record lacks an edition statement, no edition statement will be recorded in the record).

2. A technical data element such as coordinates for a cartographic image or object, or system requirements for a electronic resource, although specified as
a requirement for a basic level record, may be omitted if the information required cannot be readily determined from an examination of the entity.

3. A whole/part relationship (e.g., the relationship between a *work* and the series to which the *work* belongs, or between a dependent part of a *work* and its parent *work*) is a requirement for a basic level record only in cases where the national bibliographic agency chooses to analyse the larger *work*. The basic requirement does not imply that all *works* must be analysed into their component parts.

4. If the basic data elements are insufficient to differentiate a particular entity from another entity with similar characteristics, additional elements associated with the entity as indicated under the “identify” column in Tables 6.1 through 6.4 should be added as necessary.

It is also assumed that while the recommended basic level of functionality and the basic data requirements will be applied as the norm for records included in the national bibliography, they will not necessarily be applied as an absolute requirement. It is recognized that national bibliographic agencies may choose to include certain categories of material in the national bibliography that they treat as “listed” materials only, and that for those categories of material they may establish a minimal level of functionality and minimal data requirements that do not conform with those recommended for the basic level record. By the same token, it is recognized that national bibliographic agencies may choose to provide a fuller level of treatment than the basic requirement to certain categories of material.
APPENDIX A

Mapping of ISBD, GARE and GSARE Data Elements to Logical Attributes
NOTE

This appendix is structured to correspond to Chapter 4 - Attributes. Each section of the appendix covers one of the entities defined in the model, and within each section there is a complete listing of attributes associated with that entity. The terms used to identify the logical attributes (in **bold italics**) are the same as those used in Chapter 4. Under the heading for each logical attribute is a list of ISBD, GARE and GSARE data elements that fall within the defined scope of the attribute.

The terms used to represent data elements correspond to the data element names used in the ISBDs, GARE and GSARE. If, however, the data element that falls within the scope of the logical attribute is more narrowly defined than the ISBD, GARE or GSARE data element, the data element name is qualified to indicate more specifically the type of data recorded within the data element that corresponds to the logical attribute. For example, under the logical attribute “form of work”, the GARE data element “addition to uniform title - other additions” is qualified by the term “form of work” in square brackets to indicate that the data element corresponds to the logical attribute only when the content of the data element is a designation of the form of the work.

In addition to the data elements taken from the ISBDs, GARE and GSARE, the list of elements under each logical attribute includes, where applicable, coded data fields from the UNIMARC format. The UNIMARC fields that carry the textual form of the ISBD, GARE or GSARE data are not listed; only the supplementary fields that carry the equivalent data in a coded form are listed. For each such data element the name of the UNIMARC field is given, followed in parentheses by the field number, subfield identifier, and character position(s) within the subfield, as applicable. For example, “General processing data - target audience code (UNIMARC 100 a/17-19),” indicates that the coded form of the data for “intended audience” is recorded in field 100, subfield a, character positions 17-19 in the UNIMARC format.
1. **ATTRIBUTES OF A WORK**

*Title of the work*

Uniform title heading - title of work (including title of part)

Title proper (including number/name of part)

*Form of work*

Addition to uniform title - other additions [form of work]

Notes on nature, scope, literary form [etc.] - [note relating to form of work]

Coded data field: books - form of contents codes [etc.]
(UNIMARC 105 a/4-7, 8, 9,11-12)

Coded data field: serials - type of material code [etc.]
(UNIMARC 110 a/3, 4-7)

Coded data field: cartographic materials - form of cartographic item
(UNIMARC 124 b)

Coded data field: sound recordings - literary text indicator
(UNIMARC 125 b)

Coded data field: musical performances and scores - form of composition
(UNIMARC 128 a)

Coded data field: antiquarian - form of contents codes [etc.] (UNIMARC 140 a/9-16, 17-18, 19)

*Date of the work*

Addition to uniform title - date [of work]

*Other distinguishing characteristic*

Addition to uniform title - other additions

*Intended termination*

[Not defined]
Intended audience

Notes relating to use/audience - [note relating to intended audience]

General processing data - target audience code
(UNIMARC 100 a/17-19)

Context for the work

Notes on nature, scope, literary form [etc.] - [note relating to context]

Medium of performance (musical work)

Addition to uniform title - medium of performance (for music)

Numeric designation (musical work)

Addition to uniform title - numeric designation (for music)

Key (musical work)

Addition to uniform title - key (for music)

Coordinates (cartographic work)

Mathematical data statement - [coordinates]

Notes on the mathematical data area - [note relating to coordinates]

Coded data field: cartographic materials - coordinates
(UNIMARC 123 d-g, i-m)

Equinox (cartographic work)

Mathematical data statement - [equinox]

Notes on the mathematical data area - [note relating to equinox]

Coded data field: cartographic materials - equinox
(UNIMARC 123 n)

2. ATTRIBUTES OF AN EXPRESSION

Title of expression

[Not defined]
**Form of expression**

Notes on nature, scope, literary form [etc.] - [note relating to form of expression]

**Date of expression**

Addition to uniform title - date [of expression]

Date of publication, distribution, etc. - [copyright date, phonogram date, etc.]

Notes on the publication, distribution, etc. area - [note relating to date of recording, etc.]

General processing data - publication date [copyright date, phonogram date, etc.] (UNIMARC 100 a/8-16)

**Language of expression**

Addition to uniform title - language

Note on nature, scope, literary form [etc.] - [note on language]

Language codes (UNIMARC 101 a, d-j)

**Other distinguishing characteristic**

Addition to uniform title - other additions [version, arrangement (for music), etc.]

**Extensibility of expression**

[Not defined]

**Revisability of expression**

[Not defined]

**Extent of the expression**

Extent of file (electronic resource) - [number of records, statements, etc.]

Extent of item - [playing time/duration]

Notes relating to ... extent of file - [note on number of records, statements, etc.]

Coded data field: visual projections [etc.] - length (UNIMARC 115 a/1-3)

Coded data field: duration of sound recordings (UNIMARC 127 a)
Summarization of content

Notes relating to the contents - [list of contents]

Notes providing a summary

Context for the expression

Notes on nature, scope, literary form [etc.] - [note relating to context for the expression]

Critical response to the expression

Notes on nature, scope, literary form [etc.] - [note relating to critical response to the expression]

Use restrictions on the expression

Notes relating to ... availability - [note relating to use restrictions]

Sequencing pattern (serial)

[Not defined]

Expected regularity of issue (serial)

Frequency statement - [regularity]

Coded data field: serials - regularity (UNIMARC 110 a/2)

Expected frequency of issue (serial)

Frequency statement - [frequency]

Coded data field: serials - frequency (UNIMARC 110 a/1)

Type of score (musical notation)

Printed music specific statement - [type of score]

Parallel printed music specific statement - [type of score]

Notes on printed music specific statement- [note relating to type of score]

Coded data field: sound recordings and printed music - type of score (UNIMARC 125 a/0)

Medium of performance (musical notation or recorded music)

Notes on the form or medium of performance - [note relating to medium of performance (for music)]

Coded data field: musical performances and scores - instruments or voices (UNIMARC 128 b-c)
Scale (cartographic image/object)

Mathematical data statement - [scale]

Notes on the mathematical data area - [note relating to scale]

Coded data field: cartographic materials - type of scale [etc.] (UNIMARC 123 a-c, h)

Projection (cartographic image/object)

Mathematical data statement - [projection]

Notes on the mathematical data area - [note relating to projection]

Coded data field: cartographic materials - map projection (UNIMARC 120 a/7-8)

Presentation technique (cartographic image/object)

Notes on the mathematical data area - [note relating to presentation technique]

Coded data field: cartographic materials - physical dimension [etc.] (UNIMARC 121 a/0, 1-2)

Coded data field: cartographic materials - character of image [etc.] (UNIMARC 124 a, c)

Representation of relief (cartographic image/object)

Notes relating to the contents and subject matter - note describing depiction of relief

Coded data field: cartographic materials - relief codes (UNIMARC 120 a/3-6)

Geodetic, grid and vertical measurement (cartographic image/object)

Notes on the mathematical data area - [note relating to geodetic, grid, and vertical measurement]

Coded data field: cartographic materials - geodetic adjustment (UNIMARC 121 a/7)

Coded data field: cartographic materials - spheroid [etc.] (UNIMARC 131 a-l)

Recording technique (remote sensing image)

Notes on the mathematical data area - [note relating to recording technique]

Coded data field: cartographic materials - recording technique (UNIMARC 124 g)
Special characteristic (remote sensing image)

Notes on the mathematical data area - [note relating to characteristics of remote sensing image]

Coded data field: cartographic materials - altitude of sensor [etc.] (UNIMARC 121 b/0-7)

Coded data field: cartographic materials - position of platform [etc.] (UNIMARC 124 d-f)

Technique (graphic or projected image)

Notes on the physical description area - [note relating to technique]

Coded data field: visual projections [etc.] - technique (UNIMARC 115 a/9)

3. ATTRIBUTES OF A MANIFESTATION

Title of the manifestation

Title proper (including number/name of part)

Parallel title

Notes on the title and statement of responsibility area - notes giving variant and transliterated titles

Key title (serials)

Statement of responsibility

First statement of responsibility

Subsequent statement of responsibility

Notes on the title and statement of responsibility area - notes on the statements of responsibility

Edition/issue designation

Edition statement

Parallel edition statement

First statement of responsibility relating to the edition

Subsequent statement of responsibility relating to the edition
Additional edition statement
First statement of responsibility following an additional edition statement
Subsequent statement of responsibility following an additional edition statement
Notes on the edition area - [note relating to the edition/issue designation]

**Place of publication/distribution**
First place of publication and/or distribution
Subsequent place of publication and/or distribution
Notes on the publication, distribution, etc. area - [note relating to the place of publication/distribution]
Country of publication or production codes (UNIMARC 102 a-b)

**Publisher/distributor**
Name of publisher and/or distributor
Statement of function of publisher, distributor, etc.
Notes on the publication, distribution, etc. area - [note relating to the publisher/distributor]

**Date of publication/distribution**
Date of publication, distribution, etc.
Notes on the publication, distribution, etc. area - [note relating to the date of publication/distribution]
General processing data - publication date (UNIMARC 100 a/8-16)

**Fabricator/manufacturer**
Place of manufacture
Name of manufacturer
Date of manufacture
Notes on the publication, distribution, etc. area - [note relating to the fabricator/manufacturer]

**Series statement**
Title proper of series
Parallel title of series
Statements of responsibility relating to the series
International Standard Serial Number of series
Numbering within series
Enumeration and/or title of sub-series
Parallel title of sub-series
Statements of responsibility relating to the sub-series
International Standard Serial Number of sub-series
Numbering within sub-series

**Form of carrier**

Specific material designation

Accompanying material - [form of carrier for accompanying material]

Notes on the physical description area - [note relating to form of carrier]

Coded data field: visual projections [etc.] - form of release [etc.]
(UNIMARC 115 a/6, 8, 11-14, 15)

Coded data field: graphics - specific material designation
(UNIMARC 116 a/0)

Coded data field: cartographic materials - form of cartographic item
(UNIMARC 124 b)

Coded data field: sound recordings - form of release [etc.]
(UNIMARC 126 a/0; b/0)

Coded data field: microforms - specific material designation
(UNIMARC 130 a/0)

**Extent of the carrier**

Extent of item

Notes on the physical description area - [note relating to extent of carrier]

**Physical medium**

Other physical details - [physical medium]

Notes on the physical description area - [note relating to physical medium]

Coded data field: textual material - physical medium designator
(UNIMARC 106 a)
Coded data field: visual projections [etc.] - base on emulsion material [etc.] (UNIMARC 115 a/17, 18; b/4, 6)

Coded data field: graphics - primary support material [etc.] (UNIMARC 116 a/1, 2)

Coded data field: cartographic materials - physical medium (UNIMARC 121 a/3-4)

Coded data field: sound recordings - kind of material (UNIMARC 126 b/1)

Coded data field: microforms - emulsion on film [etc.] (UNIMARC 130 a/8, 10)

Coded data field: antiquarian - support material (UNIMARC 140 a/20, 21)

**Capture mode**

Other physical details [capture mode]

Notes on the physical description area - [note relating to capture mode]

Coded data field: sound recordings - recording technique (UNIMARC 126 a/13)

**Dimensions of the carrier**

Dimensions of item

Notes on the physical description area - [note relating to dimensions of carrier]

Coded data field: visual projections [etc.] - width or dimensions (UNIMARC 115 a/7)

Coded data field: sound recordings - dimensions [etc.] (UNIMARC 126 a/4, 5)

Coded data field: microforms - dimensions (UNIMARC 130 a/2)

**Manifestation identifier**

Standard number (or alternative)

**Source for acquisition/access authorization**

Terms of availability and/or price - [source for acquisition/access authorization]
Terms of availability

Notes relating to binding and availability - [note relating to terms of availability]

Terms of availability and/or price - [terms of availability]

Access restrictions on the manifestation

Notes relating to ... availability - [note relating to access restrictions]

Typeface (printed book)

Notes on the physical description area - [note relating to typeface]

Type size (printed book)

Notes on the physical description area - [note relating to type size]

Foliation (hand-printed book)

Notes on the physical description area - [note relating to foliation]

Collation (hand-printed book)

Notes on the physical description area - [note relating to collation]

Publication status (serial)

Notes relating to the numbering area - [note relating to cessation]

General processing data - publication date (UNIMARC 100 a/8)

Numbering (serial)

Numbering area (serials)

Notes relating to the numbering area

Playing speed (sound recording)

Other physical details - [playing speed]

Notes on the physical description area - [note relating to playing speed]

Coded data field: sound recordings - speed (UNIMARC 126 a/1)

Groove width (sound recording)

Other physical details - [groove width]

Notes on the physical description area - [note relating to groove width]

Coded data field: sound recordings - groove width (UNIMARC 126 a/3)
Kind of cutting (sound recording)

Other physical details - [kind of cutting]

Notes on the physical description area - [note relating to kind of cutting]

Coded data field: sound recordings - kind of cutting (UNIMARC 126 b/2)

Tape configuration (sound recording)

Other physical details - [tape configuration]

Notes on the physical description area - [note relating to tape configuration]

Coded data field: sound recordings - tape configuration (UNIMARC 126 a/6)

Kind of sound (sound recording)

Other physical details - [kind of sound]

Notes on the physical description area - [note relating to kind of sound]

Coded data field: sound recordings - kind of sound (UNIMARC 126 a/2)

Special reproduction characteristic (sound recording)

Other physical details - [special reproduction characteristics]

Notes on the physical description area - [note relating to special reproduction characteristics]

Coded data field: sound recordings - special reproduction characteristics (UNIMARC 126 a/14)

Colour (image)

Other physical details - [colour]

Notes on the physical description area - [note relating to colour]

Coded data field: visual projections [etc.] - colour indicator (UNIMARC 115 a/4)

Coded data field: graphics - colour (UNIMARC 116 a/3)

Coded data field: cartographic materials (UNIMARC 120 a/0)

Coded data field: microforms - colour (UNIMARC 130 a/7)
Reduction ratio (microform)

Other physical details - [reduction ratio]
Notes on the physical description area - [note relating to reduction ratio]
Coded data field: microforms - reduction ratio (UNIMARC 130 a/3, 4-6)

Polarity (microform or visual projection)

Other physical details - [polarity]
Coded data field: microforms - polarity (UNIMARC 130 a/1)

Generation (microform or visual projection)

Notes on the physical description area - [note relating to generation]
Coded data field: microforms - generation (UNIMARC 130 a/9)

Presentation format (visual projection)

Other physical details - [presentation format]
Notes on the physical description area - [note relating to presentation format]
Coded data field: visual projections [etc.] - presentation format [etc.]
(UNIMARC 115 a/10, 16, 19)

System requirements (electronic resource)

Notes on system requirements

File characteristics (electronic resource)

Notes relating to ... other file characteristics

Mode of access (remote access electronic resource)

Notes relating to mode of access - [mode of access]

Access address (remote access electronic resource)

Notes relating to mode of access - [access address]

4. ATTRIBUTES OF AN ITEM

Item identifier

[Not defined]
Fingerprint
Standard number (or alternative) - [fingerprint]

Provenance of the item
Note relating to the copy in hand - [note on provenance]

Marks/inscriptions
Note relating to the copy in hand - [note on marks/inscriptions]

Exhibition history
[Not defined]

Condition of the item
Coded data field: antiquarian - state of preservation codes (UNIMARC 141 a/5, 6-7)

Treatment history
[Not defined]

Scheduled treatment
[Not defined]

Access restrictions on the item
[Not defined]

5. ATTRIBUTES OF A PERSON

Name of person
Personal name heading - name subelements

Dates of person
Additions to the name - dates of birth, death, etc.

Title of person
Additions to the name - title of nobility, honour, address, etc.
6. ATTRIBUTES OF A CORPORATE BODY

Name of corporate body
Corporate name heading - name subelements

Number associated with the corporate body
Qualifier - number [of meeting, etc.]

Place associated with the corporate body
Qualifier - geographic name [place of meeting, etc.]

Date associated with the corporate body
Qualifier - date [of meeting, etc.]

Other designation associated with the corporate body
Qualifier - type of body [etc.]

7. ATTRIBUTES OF A CONCEPT

Term for the concept
Topical subject heading - subject term [concept]

Classification number

8. ATTRIBUTES OF AN OBJECT

Term for the object
Topical subject heading - subject term [object]

Classification number
9. ATTRIBUTES OF AN EVENT

Term for the event

Topical subject heading - subject term [event]

Classification number

10. ATTRIBUTES OF A PLACE

Term for the place

Geographic subject heading - subject term [place]

Classification number
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