# Extending the SCONE collection descriptions database for cc-interop

## Report for Work Package B of the cc-interop JISC project

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This report addresses section 7.2.2 (Collection and service description) of the CC-interop project plan, as part of Work Package B.  The report will be used to inform the extension of the SCONE database to meet requirements for incorporating COPAC into clumps services and participating in the JISC Information Environment.

The report notes a number of issues affecting the interoperability of collection level information, in addition to determining requirements for the development of the SCONE database.

The database and associated SCAMP updating service will be amended accordingly; further changes may be identified and implemented during the remainder of the project.

A data dictionary relating to collection level information produced by a number of clumps and collection description services has been compiled to assist comparisons of structure and content.  This will also inform the work on the use of the SCONE structure for RIDING collection and service metadata, and mapping the structure to the JISC Information Environment.

## Methodology

This report is built on *An Analytical model of collections and their catalogues*, a study carried out by Michael Heaney on behalf of the UK Office of Library and Information Networking with support from OCLC (Heaney).  The study and model have informed much of the development of collection descriptions and associated services in the UK, including the Research Support Libraries Programme (RSLP), the UKOLN Collection Description Focus, and the JISC Information Environment.

Heaney uses an entity-relationship approach.  The information required to find and identify collections and their catalogues is broken down into a set of attributes associated with a number of entities, categorized as objects (for example a Collection) or agents (for example a Collector), and relationships between the entities (for example Collects).

Heaney presents a detailed model for a description of a single collection and catalogue, as a set of entities and relationships.  The study suggests additional relationships between such collection level descriptions, but offers no further analysis.

Heaney indicates that further work is required on the more complex attributes of the model, and that attributes need to be further broken down into data elements.  Some of this has subsequently been carried out in several projects, including the UKOLN work for RSLP on a national schema for research collections, and the SCONE project's development of a regional collection description service covering all sectors.   The SCONE service schema is based on Heaney, the RSLP work, and the CAIRNS clump descriptions of Z39.50 catalogues.

Data elements were identified from a number of clump and collection description services.  The services are all at differing stages of development, and use collection description for a variety of purposes and audiences.

The following table identifies theses sources and gives a shorthand code for subsequent reference.

**Table: Sources of information for data elements**

| Source | Code |
| --- | --- |
| | |
| InforM25 information for CC_interop work package B (Provided by J. Gilby 3 Oct 2002.) | INFORM25 |
| JISC Collection Description/Service Description database (colserv.mdb from jiscclsv.zip). http://www.ukoln.ac.uk/cd-focus/temp/cdsdguid.html | JISCCLSV |
| MIMAS paper (Exposing cross-domain resources for researchers and learners.). http://epub.mimas.ac.uk/papers/mimasdc2002_full.html | MIMAS |
| Mapping Wales mw_be database (Version of 23 Aug 2001.) | MW |
| RASCAL service (Data display from Browse-More info.). http://www.rascal.ac.uk/ | RASCAL |
| Riding collection description report (Final version of Jul 2001. Uses eLib scheme of Jul 1999.) | RIDING |
| RSLP Collection Description Schema. http://www.ukoln.ac.uk/metadata/rslp/schema | RSLPCDS |
| RSLP Collection Description: Tools (Samsara version.). http://www.ukoln.ac.uk/metadata/rslp/tools/ | RSLPCLD |
| SCONE database (Version of 20 Sep 2002.) | SCONE |

There are three categories of sources which affect the way data elements are identified, as described in the tables.

**Table: Data identification categories**

| Category | Data identification |
|---|---|
| | |
| Documentation | Data elements are identified from input guidelines, sample records, etc. |
| Relational database structure | Data elements are identified directly from table and column definitions. |
| Screen display | Data elements are inferred from the structure and content of collection information displayed on various screens of the online service. |

**Table: Source categories**

| Source | Category |
|---|---|
| | |
| INFORM25 | Documentation |
| JISCCLSV | Relational database structure |
| MIMAS | Documentation |
| MW | Relational database structure |
| RASCAL | Screen display |
| RIDING | Screen display |
| RSLPCDS | Documentation |
| RSLPCLD | Relational database structure |
| SCONE | Relational database structure |

Information about data elements, including name, description and content standards, has been compiled into a data dictionary to make comparison easier.

The data dictionary also records primary and secondary key fields. These provide indications of how records and fields are related where the source is not a relational database.

JISCCLSV, RIDING and SCONE also contain information about data elements used in service description. JISCCLSV covers a variety of online service technologies, while SCONE describes only Z39.50-based catalogues. There is considerable overlap in the data elements required for service and collection level description, as shown by JISCCLSV; service data elements have been added to the dictionary to ensure completeness, and inform SCONE developments in this area.

Data dictionary entries were then mapped against Heaney's set of attributes. Data definitions and content standards were considered in relation to Heaney's attribute descriptions to determine the best fit.
The mapping is given in Appendix 1.

The data dictionary and attribute mapping were then used to compare data elements for structure, congruence, overlap, gaps, and granularity.

# Findings

## Differences in structure between Heaney and sources
There are several significant differences in the structure of Heaney's attribute sets and the data elements from the sources.

### Relationship attributes assigned to entities
With the exception of SCONE, all sources treat data elements associated with Heaney's Relationship attributes as if they were Entity attributes. In particular, this approach is taken by RSLPCDS, which has influenced many of the other sources.
SCONE has followed Heaney more closely, having encountered some circumstances where assigning all attributes to Entities requires lengthy descriptive explanations and some duplication of information. Locations of collections administered by small amateur interest groups may have access conditions which depend on the availability of particular individuals; for example, a Family History Society collection might be accessible at different times on different days when the Secretary or Chair have spare time.

Older collections may have complex custodial and accrual histories involving multiple transfers of rights for all or part of the collection at different times.

**Agent roles expressed as generic Agent-Relationship structures**

RSLPCDS, RSLPCLD and SCONE store Agent information in generic structures independent of the specific Agent role; that is, data elements associated with Heaney's Administrator, Collector, Creator, Creator's assignee, Owner, Producer, and Producer's assignee Entities are stored in a single table. Information about different roles is then implied in the Agent-Location and Agent-Collection Relationships of Administers, Collects, Creates, Delegates-To, Owns, Produces, and Delegates-To respectively.

The other sources use separate tables to store details of Agents with specific Relationships.

**Coverage of Agent Relationships**

Only SCONE covers all of the specific Agents suggested by Heaney. Most of the other sources accommodate Administrator, Collector and Owner data elements (RSLPCDS uses the term 'creator' for Collector). The table below indicates which sources cover each of Heaney's Agents.

**Table: Agents covered by sources**

| Agent | Source |
|---|---|
|  |  |
| Administrator | JISCCLSV |
|  | MIMAS |
|  | RASCAL |
|  | RIDING |
|  | RSLPCDS |
|  | RSLPCLD |
|  | SCONE |
|  |  |
| Collector | MIMAS |
|  | MW |
|  | RASCAL |
|  | RSLPCDS |
|  | RSLPCLD |
|  | SCONE |
|  |  |
| Creator | SCONE |
|  |  |
| Creator's assignee | SCONE |
|  |  |
| Owner | JISCCLSV |
|  | MW |
|  | RASCAL |
|  | RIDING |
|  | RSLPCDS |
|  | RSLPCLD |
|  | SCONE |
| Producer | SCONE |
|  |  |
| Producer's assignee | SCONE |
|  |  |
| Subject | RSLPCDS |
|  | RSLPCLD |
|  | SCONE |

**Agent and Location subtypes**

MW, RSLPCLD and SCONE follow Heaney's distinction between corporate bodies and persons as sub-types of the Agent entity by storing associated data elements in separate tables.
The other sources use a single table for both sub-types of Agent.
Heaney also distinguishes between physical and electronic repositories as sub-types of the Location entity.
SCONE uses separate tables for these sub-types. JISCCLSV, MIMAS, MW, RSLPCDS and RSLPCLD use a single table for all Location information. INFORM25 and RASCAL do not record electronic repositories within their data structures.

**Collection-Descriptions and Collections**

Heaney's analysis gives an entity-relationship model for a Collection-Description, which provides information about a collection and the items of which it is composed; a typical example is a library catalogue. The Collection-Description attributes form a sub-set of those comprising a Collection entity, allowing a single data structure to accommodate both Collection and Collection-Description.
The sources store data elements associated with Collection-Description in four distinct ways, as shown in the tables.

**Table: Modes of storing Collection-Description data**

| Storage mode | Description |
|---|---|
| | |
| Embedded | Collection-Description data is embedded in Collection record. |
| None | No Collection-Description data is stored. |
| Separate (Collection) | Collection-Description is stored separately using the same data structure as Collection. |
| Separate (Other) | Collection-Description is stored separately using a different data structure to Collection. |

**Table: Source modes**

| Source | Storage mode |
|---|---|
| | |
| INFORM25 | Embedded |
| JISCCLSV | Separate (Other) |
| MIMAS | Embedded |
| MW | Embedded |
| RASCAL | Embedded |
| RIDING | None |
| RSLPCDS | Separate (Collection) |
| RSLPCLD | Separate (Collection) |
| SCONE | Separate (Collection) |

## Differences in entities, relationships and attributes between Heaney and sources

**Single collection focus**

Heaney's model addresses a single collection and its description. While some analysis of the relationships between collections is given, no attributes are assigned.
JISCCLSV, INFORM25, and MIMAS do not contain data elements for relating two or more Collections.

**Heaney suggestions for additional entities and relationships**

Heaney suggests several Relationships between Collection entities, in addition to the Is-Described-By relationship. These comprise Has-Version, Has-Part, Has-Complement, and Has-Association.
Has-Version is not implemented specifically by any of the sources. There may be an implicit use of this Relationship in JISCCLSV when services are linked to collections; for example, a catalogue (Collection-Description) may be available in Z39.50 and OAI versions.
Has-Part is implemented by most of the sources to link sub- and super-collections.

Has-Complement and Has-Association are conflated in all sources which support a relationship between Collections other than Has-Part. Has-Association is specifically supported by RASCAL, RSLPCDS and RSLPCLD.

### Date types

Heaney describes four different types of date associated with the Collection entity. Three types are assigned to a single attribute, as shown in the table.

**Table: Date types in Collection attributes**

| Date type | Collection attribute |
|---|---|
|  |  |
| Date range of individual content | Date |
| Date range of individual documents | Date |
| Date range of collection accumulation | Date |
| Date coverage of individual items | Subject: Date coverage |

## Additions to Heaney attributes

Analysis of data fields gathered from the sources reveals a number of common attributes which were not included in Heaney's report.
In particular, four attributes associated with Agent entities are in use in the majority of sources: telephone and fax number, email address, and role. These have been added to the original attribute set.
Two attributes have similarly been added to the Collection entity: Collection type, and notes.
Several sources also use the citations of publications associated with collections; Heaney alludes to a Publication entity, and the citation attribute has been added to it.
Added attributes are detailed in Appendix 2. They are flagged in the mappings in Appendix 1 with a double-asterisk (**).

## Source fields not assigned to attributes

Appendix 3 lists data elements from the sources which could not be readily mapped to Heaney's attributes. This includes elements for which descriptions are ambiguous.

## Heaney attributes not used by sources

A number of attributes associated with collection level entities and relationships in Heaney's analysis have no readily identifiable data elements in any of the sources.
These are listed by Entity in Appendix 4.

# Issues affecting interoperability and retrieval

## Entity relationships

Heaney gives Identifier attributes to the Entities Collection and Location: Physical repository.

JISCCLSV, RASCAL, RIDING, RSLPCDS, RSLPCLD and SCONE have corresponding data elements for Collection Identifier.
JISCCLSV has a data element for Location: Physical repository Identifier.
JISCCLSV has a data element named Identifier for Owner, which has no corresponding Heaney attribute.

There are very few instances of Identifier elements with content in the sources.

The intended use of Identifier fields is presumably to store some kind of unique number or label to allow links between Entities created in a distributed environment and subsequently harvested or otherwise gathered together. They are clearly not intended for local use; sources use "ID" fields to create links within their services.

An alternative method of creating Entity relationships is to use the attribute for the main natural language "heading" for the Entity, as suggested in the table below.

**Table: Entity attributes suitable for Entity linking**

| Entity | Linking Attribute |
|--------|-------------------|
|  |  |
| Agent (all types) | Name |
| Collection | Title |
| Location: Electronic repository | Site; URL |
| Location: Physical repository | Place |
| Publication | Citation ** |

None of these attributes is intrinsically unique, with the exception of the URL for Location: Electronic repository.

## Agent name

A significant collecting focus is on the works created by, or about, a specific person or corporate body. An important retrieval strategy is therefore to search by Agent name at both collection level and item level.

If such retrieval is to be seamless, the form of Agent name needs to be the same at both levels. Item level names will tend to be fuller than those at collection level if the form is expanded to distinguish similar names; the likelihood is that there is a greater need for such distinction at item level.

Collection level description tends to involve Agents who are not required for item level description, because there are more types of Agent. For example, the Administrator of an Item is not a very useful concept at item level.

In general, Agents who are Collectors, Owners or Administrators are not likely to be the same as Agents who are Creators or Producers acting primarily at the item level. As a result, collection level description beyond the highest levels of granularity will create data for many Agents who have not already been recorded for item level description.

Names of persons may be required to be used in two different formats.

Browsing functions in a collection description service will require normalized format; that is, surname first, followed by forename and additional distinguishing elements.

Display functions may require a fuller format, including honorifics and postnominals, for display within collection descriptions in a standard format; that is, in the order of honorific, forename, surname, date, and other distinguishing elements.

## Subject

SCONE is involved in the HILT 2 (High Level Thesaurus) project looking at interoperability in subject retrieval.
The SCONE database may be amended over the next few months as a result of this activity.

However, between them sources contain data elements for the Conspectus, Dewey Decimal Classification (DDC), Library of Congress Subject Headings (LCSH), Resource Discovery Network, and Unesco Thesaurus schemes.

## Location

Some collection description services may require functionality to bring together collections physically located in proximity to each other or some other place such as the enquirer's current location.

All sources, with the exception RIDING, have provision for a separate data element for postcode. While this data can be used in conjunction with a standard postcode database to provide physical proximity information, this is only useful in urban areas. In rural areas, postcode areas are so large that adjacency does not indicate proximity for places within the areas.
Use of postcode data to improve interoperability is not applicable in an international context.

MW, RASCAL, RSLPCDS, RSLPCLD and SCONE also use a separate data element for country. Parsing an unstructured postal address data element to extract country information may not be

successful; for example, a collection may be located in Glasgow Road, Edinburgh (or Edinburgh Road, Glasgow, for that matter).

# Conclusions

## General

The structure of data elements identified in the sources differs in a variety of ways, reflecting the intended functionality of the information service.
This has implications for the longer term flexibility of the data. A collection record created for a service with a specific audience may require significant amendment to incorporate it effectively in a larger service with a more general audience. A record created at a high level of granularity may be useless for a service which needs to identify sub-collections.
It is easier, in general, to re-use and re-purpose information from a lower to higher level of granularity, in respect of collection coverage as well as data structure.

Services should consider, where possible, using the lowest level of granularity that is feasible.

Some issues associated with specific data elements are discussed below, followed by the actions which SCONE will take as part of the Work Package.

### Identifiers

Urgent consideration needs to be given to establishing a means of assigning unique, standard identifiers to Collections and Locations. Without such a mechanism, interoperability of locally-created descriptions in a global service will be severely impaired.

### Name headings

Interoperability between collection and item level descriptions may be significantly improved if collection description services adopt the same forms and formats used for library catalogues.
Name authority services should be extended to cover collection level names.

### Personal name data elements

Data elements for personal names should be considered at a lower level of granularity than the whole name, to improve flexibility of display for searching, browsing and description.

### Date range ambiguity

Care should be taken to avoid ambiguity in the four types of date range associated with a collection. Conflation of types should be explicitly stated in system and user documentation.

### Physical location data elements

Data elements for the address of physical locations should be considered at a lower level of granularity than the whole address. In particular postcode, region and country should be considered as separate elements, to improve searching for geographical proximity.

Consideration should be given to interoperability with geographical information systems; these are likely to provide a much richer functionality for retrieving collections and services on a geographical basis.

### Service level description

Service level description below the highest levels of granularity requires further analysis, similar to Heaney's analysis for collection level description. This will be necessary to identify data elements to support task-oriented interfaces for service description services; for example, searching for services which support bibliographic record download.

## SCONE

The SCONE database will be amended by adding data elements for the Heaney attributes listed in the table below.

**Table: Attributes to be incorporated in SCONE**

| Entity or Relationship | Attribute | Notes |
|---|---|---|
| | | |
| Administrator: Corporate body | Logo | In use by JISCCLSV. SCONE will implement this for all Agent entities. |
| | | |
| Collection | Content: Audio-visual: Medium of performance | Not in use. |
| | Content: Cartographic: Locus | In use by RIDING. |
| | Content: Graphic: Medium | Not in use. |
| | Content: Music notation: Notation system | Not in use. |
| | Content: Realia: Medium | Not in use. |
| | Content: Sound material: Language | In use by JISCCLSV, RIDING, RSLPCDS. |
| | Content: Sound material: Medium of performance | Not in use. |
| | Content: Sound material: Type of sound | Not in use. |
| | Content: Text: Language | In use by JISCCLSV, MW, RASCAL, RIDING, RSLPCDS, RSLPCLD. |
| | Subject: Date coverage | In use by JISCCLSV, MIMAS, RIDING, RSLPCDS, RSLPCLD. |
| | Subject: Object | In use by RSLPCDS |
| | Subject: Place coverage | In use by JISCCLSV, RSLPCDS, RSLPCLD. |
| | System of arrangement | Not in use. |
| | | |
| Sells-To | Rights | In use by RIDING. |

The SCONE database will also be amended by adding data elements suggested by other sources, as shown in the following table.

| Data Element | Notes |
|---|---|
| | |
| Audience level | In use by JISCCLSV. Content to be compatible with MEG Educational Levels. |

Some further additional data elements for the SCONE database are suggested by the Work Package itself, and the involvement of SCONE in other projects, as shown in the following table.

| Data Element | Notes |
|---|---|
| | |
| Sector | The sector (e.g. Higher Education; Public; Special) of the library or other domain which administers, owns or collects the collection. This is required to filter appropriate collections in SCONE for portal display or output to JISC Information Environment, etc. in OAI and other harvestable formats. |

The SCONE database will also be amended to incorporate additional data elements for service level description suggested by JISCCLSV and MIMAS.

# Appendix 1: Entity/Relationship-Attribute-Data Element mappings

The mappings are presented in two parts: the Entity-Attribute-Element mappings, followed by the Relationship-Attribute-Element mappings.

Elements are listed in alphabetical order of field name, grouped by associated Attribute. Attributes are listed in alphabetical order of name, grouped by Entity or Relationship. Entities and Relationships are listed in alphabetical order.

The class of the Entity (object or agent) is noted after the Entity name. The level (item or collection) which the Entity refers is also given.

The notes include data element descriptions and content standards.

The double-asterisk (**) beside an Attribute name indicates that it has been added to Heaney's original attribute set.

**Entity**      Administrator: Corporate body (Agent)
(Collection level.)

**Attribute**      Date

| Field | Notes |
|---|---|
|  |  |

**Attribute**      Email address **

| Field | Notes |
|---|---|
| Admin Email (MIMAS: MIMAS) |  |
| email (INFORM25: Library) | General library enquiry email number. |
| Email (JISCCLSV: tblAdministrator) | Electronic mail address of agent. vcard:email. RFC-822 format. |
| Email (SCONE: AgentCorp) | Email address of corporate body. |
| Email Address (RASCAL: Administrator) |  |
| vcard:email (RSLPCDS: Agent) | Electronic mail address of agent. |

**Attribute**      Fax number **

| Field | Notes |
|---|---|
| fax (INFORM25: Library) | General library fax number. |
| Fax (JISCCLSV: tblAdministrator) | Fax number of agent. vcard:fax. International format. |
| Fax (SCONE: AgentCorp) | Fax number of corporate body. International format. |
| Fax No. (RASCAL: Administrator) |  |
| vcard:fax (RSLPCDS: Agent) | Fax number of agent. |

**Attribute**      Logo

| Field | Notes |
|---|---|
| Logo (JISCCLSV: tblAdministrator) | URL of image of logo which is associated with agent. |

**Attribute**        Name

| Field | Notes |
|---|---|
| Administrator (MIMAS: MIMAS) | |
| iname (INFORM25: Institution) | Full name of institution. |
| Name (RASCAL: Administrator) | |
| Name (SCONE: AgentCorp) | Name of corporate body. Anglo-American Cataloguing Rules. |
| Organisation (RSLPCLD: tblOrganisations) | |
| Organisation Name (JISCCLSV: tblAdministrator) | Organisation name of agent (or name of organisation with which individual agent is affiliated). vcard:org. |
| Service.Admin (RIDING: Riding) | Administrative contact (organisation or person) responsible for service/collection administration and operation. Generic job titles used where possible. |
| vcard:org (RSLPCDS: Agent) | Organisational name of, or affiliated with, agent. |

**Attribute**        Place

| Field | Notes |
|---|---|
| Address (JISCCLSV: tblAdministrator) | Postal address of agent. vcard:address. |
| Postcode (JISCCLSV: tblAdministrator) | Post code of agent. |

**Attribute**        Role **

| Field | Notes |
|---|---|
| Admin Role (MIMAS: MIMAS) | |
| Role (JISCCLSV: tblAdministrator) | Role (typically organisational role) fulfilled by agent. vcard:role. |
| Role (RASCAL: Administrator) | |
| Role (SCONE: AgentCorp) | Role of corporate body. |
| vcard:role (RSLPCDS: Agent) | Role (typically organisational role) fulfilled by agent. |

**Attribute**        Telephone number **

| Field | Notes |
|---|---|
| phone (INFORM25: Library) | General library telephone number. |
| Phone (JISCCLSV: tblAdministrator) | Telephone number of agent. vcard:voice. International format. |
| Tel No. (RASCAL: Administrator) | International format. |
| Telephone (SCONE: AgentCorp) | Telephone number of corporate body. International format. |
| vcard:voice (RSLPCDS: Agent) | Telephone number of agent. |

**Entity**      Administrator: Person (Agent)
               (Collection level.)

**Attribute**      Date

| Field | Notes |
|---|---|
| Dates (SCONE: AgentPers) | Dates of birth and/or death of person. Anglo-American Cataloguing Rules. |

**Attribute**      Email address **

| Field | Notes |
|---|---|
| Admin Email (MIMAS: MIMAS) | |
| Email (JISCCLSV: tblAdministrator) | Electronic mail address of agent. vcard:email. RFC-822 format. |
| Email (MW: tblPerson) | |
| Email (SCONE: AgentPers) | Email address of person. |
| Email Address (RASCAL: Administrator) | |
| Email Address (RSLPCLD: tblPeople) | Email address. |
| vcard:email (RSLPCDS: Agent) | Electronic mail address of agent. |

**Attribute**      Fax number **

| Field | Notes |
|---|---|
| Fax (JISCCLSV: tblAdministrator) | Fax number of agent. vcard:fax. International format. |
| Fax (SCONE: AgentPers) | Fax number of person. International format. |
| Fax No (RSLPCLD: tblPeople) | Fax number. International format. |
| Fax No. (RASCAL: Administrator) | |
| FaxNumber (MW: tblPerson) | International format. |
| vcard:fax (RSLPCDS: Agent) | Fax number of agent. |

**Attribute**      Name

| Field | Notes |
|---|---|
| Administrator (MIMAS: MIMAS) | |
| Extension (SCONE: AgentPers) | Extension to name of person, other than dates. Anglo-American Cataloguing Rules. |
| Forename (SCONE: AgentPers) | Forenames and/or initials of person. |
| Forenames (JISCCLSV: tblAdministrator) | Forename(s) of individual. vcard:fn. |
| Honorific (SCONE: AgentPers) | Honorific of person. Standard abbreviation. |
| Name (MW: tblPerson) | |
| Name (RASCAL: Administrator) | |
| Name (RSLPCLD: tblPeople) | Name of person. |
| Postnominals (SCONE: AgentPers) | Postnominals of person. Standard abbreviation. |
| Service.Admin (RIDING: Riding) | Administrative contact (organisation or person) responsible for service/collection administration and operation. Generic job titles used where possible. |
| Surname (JISCCLSV: tblAdministrator) | Surname of individual. vcard:fn. |
| Surname (SCONE: AgentPers) | Surname or family name of person. |
| vcard:fn (RSLPCDS: Agent) | Name of agent. |

**Attribute**        Role **

| Field | Notes |
|---|---|
| Admin Role (MIMAS: MIMAS) | |
| Role (JISCCLSV: tblAdministrator) | Role (typically organisational role) fulfilled by agent. vcard:role. |
| Role (MW: tblPerson) | |
| Role (RASCAL: Administrator) | |
| Role (RSLPCLD: tblPeople) | Name of role. |
| Role (SCONE: AgentPers) | Role of person. |
| vcard:role (RSLPCDS: Agent) | Role (typically organisational role) fulfilled by agent. |

**Attribute**        Telephone number **

| Field | Notes |
|---|---|
| Phone (JISCCLSV: tblAdministrator) | Telephone number of agent. vcard:voice. International format. |
| Tel No. (RASCAL: Administrator) | International format. |
| Telephone (SCONE: AgentPers) | Telephone number of person. International format. |
| Telephone No (RSLPCLD: tblPeople) | Telephone number. International format. |
| TelephoneNumber (MW: tblPerson) | International format. |
| vcard:voice (RSLPCDS: Agent) | Telephone number of agent. |

**Entity**          Collection (Object)
                    (Collection level.)

**Attribute**          Content: Audio-visual: Medium of performance (Inherited from Content entity.)

| Field | Notes |
|---|---|
|  |  |

**Attribute**          Content: Cartographic: Locus (Inherited from Content entity.)

| Field | Notes |
|---|---|
| Coverage.Spatial (RIDING: Riding) | Spatial characteristics of intellectual content of collection. |

**Attribute**          Content: Graphic: Medium (Inherited from Content entity.)

| Field | Notes |
|---|---|
|  |  |

**Attribute**          Content: Music notation: Notation system (Inherited from Content entity.)

| Field | Notes |
|---|---|
|  |  |

**Attribute**          Content: Realia: Medium (Inherited from Content entity.)

| Field | Notes |
|---|---|
|  |  |

**Attribute**          Content: Sound material: Language (Inherited from Content entity.)

| Field | Notes |
|---|---|
| dc:language (RSLPCDS: Collection) | Language of items in collection. |
| Language (JISCCLSV: tblLang) | Language of the items in the collection. dc:language. ISO 639-2; http:www.loc.gov/standards/iso639-2. |
| Language (RIDING: Riding) | Language of intellectual content of collection. |

**Attribute**          Content: Sound material: Medium of performance (Inherited from Content entity.)

| Field | Notes |
|---|---|
|  |  |

**Attribute**          Content: Sound material: Type of sound (Inherited from Content entity.)

| Field | Notes |
|---|---|
|  |  |

**Attribute**          Content: Text: Language (Inherited from Content entity.)

| Field | Notes |
|---|---|
| dc:language (RSLPCDS: Collection) | Language of items in collection. |
| Language (JISCCLSV: tblLang) | Language of the items in the collection. dc:language. ISO 639-2; http:www.loc.gov/standards/iso639-2. |
| Language (RIDING: Riding) | Language of intellectual content of collection. |
| Language (RSLPCLD: tblLanguage) |  |
| LanguageName (MW: tblLanguage) |  |
| LanguageNameCym (MW: tblLanguage) |  |
| Languages (RASCAL: Collection) |  |
| LanguageUSMARC (MW: tblLanguage) |  |

**Attribute**      Date (1: Date range of individual content; 2: Date range of individual documents; 3: Date range of collection accumulation.)

| Field | Notes |
|---|---|
| Accumulation (MIMAS: MIMAS) | |
| Accumulation Date Range (RASCAL: Collection) | |
| Accumulation Date Range (RSLPCLD: tblCollections) | |
| cld:accumulationDateRange (RSLPCDS: Collection) | Range of dates over which collection was accumulated. |
| cld:contentsDateRange (RSLPCDS: Collection) | Range of dates of individual items within collection. |
| Content Dates (RASCAL: Collection) | |
| Contents Date (MIMAS: MIMAS) | |
| Contents Date Range (RSLPCLD: tblCollections) | |
| Contents Date Range End (JISCCLSV: tblCollection) | Range of creation dates of individual items within collection (end). cld:contentsDateRange. W3C Date and Time Formats; http://www.w3.org/TR/NOTE-datetime. |
| Contents Date Range Start (JISCCLSV: tblCollection) | Range of creation dates of individual items within collection (start). cld:contentsDateRange. W3C Date and Time Formats; http://www.w3.org/TR/NOTE-datetime. |
| ContentsDateRange (MW: tblCollection) | |
| Date (RIDING: Riding) | Date associated with creation or availability of collection. ISO 8601. |
| DateEnd (SCONE: DateRange) | End of date range. Separate Accumulation and Contents range. |
| DateStart (SCONE: DateRange) | Start of date range. Separate Accumulation and Contents range. |

**Attribute**       Description

| Field | Notes |
|---|---|
| Catalogue/Description (RASCAL: Collection) | |
| dc:description (RSLPCDS: Collection) | Description of collection. |
| Described Collection (RSLPCLD: tblCollections) | |
| Description (JISCCLSV: tblCollection) | Summary of collection. dc:description. Free text. |
| Description (MIMAS: MIMAS) | |
| Description (MW: tblCollection) | |
| Description (RASCAL: Collection) | |
| Description (RIDING: Riding) | Description of content of collection, including extent or size, and educational level. |
| Description (RSLPCLD: tblCollections) | Description of collection. |
| Description (SCONE: Collection) | Description of contents of collection. |
| Description or Catalogue (RSLPCLD: tblCollections) | |
| DescriptionLanguage (MW: tblCollection) | |
| RelatedCollectionDescription (MW: tblRelatedCollection) | |
| RelationshipNotes (MW: tblCollection) | |
| Source (RIDING: Riding) | Identifier or name of resource from which collection is derived. No examples. |

**Attribute**       Identifier

| Field | Notes |
|---|---|
| dc:identifier (RSLPCDS: Collection) | Formal identifier for collection. |
| Identifier (JISCCLSV: tblCollection) | Identifier of collection. dc:identifier. |
| Identifier (RASCAL: Collection) | |
| Identifier (RSLPCLD: tblCollections) | Formal identifier for collection. |
| Identifier (SCONE: Collection) | Standard identifier code of collection. |
| Service.Identifier (RIDING: Riding) | String or number used to uniquely identify service or collection. |

**Attribute**       Notes **

| Field | Notes |
|---|---|
| cld:note (RSLPCDS: Collection) | General information about collection. |
| CollectionNotes (MW: tblCollection) | |
| Identifier.URL (RIDING: Riding) | URL of webpage with information about collection. |
| Note (JISCCLSV: tblCollection) | General information about collection (not covered elsewhere). cld:note. |
| Note (JISCCLSV: tblCollectionDescription) | cld:note. |
| Note (RSLPCLD: tblCollections) | General information about collection. |
| Notes (RIDING: Riding) | Information about collection not given in other fields. |
| Notes (SCONE: Collection) | Notes pertaining to collection. |

**Attribute**     Physical characteristics

| Field | Notes |
|---|---|
| dc:format (RSLPCDS: Collection) | Physical or digital characteristics of collection. |
| Format (JISCCLSV: tblCollection) | Statement of physical or digital characteristics of collection. dc:format. Free text. |
| Physical Characteristics (RASCAL: Collection) | |
| Physical Characteristics (RSLPCLD: tblCollections) | Physical or digital characteristics of collection. |
| PhysicalCharacteristics (SCONE: Collection) | Number and type of items constituting collection. |
| SizeAndFormat (MW: tblCollection) | |

**Attribute**     Strength

| Field | Notes |
|---|---|
| cld:strength (RSLPCDS: Collection) | Free text or formalised indication of strength(s) of collection. |
| ConspectusLevel (SCONE: RCOLevel) | Conspectus level. |
| SignificanceName (MW: tblSignificance) | |
| SignificanceNameCym (MW: tblSignificance) | |
| Strength (MW: tblCollection) | |
| Strength (RASCAL: Collection) | |
| Strength (RSLPCLD: tblCollections) | |

**Attribute**     Subject: Concept/keywords (Inherited from Content entity.)

| Field | Notes |
|---|---|
| CollectionKeywords (MW: tblCollection) | |
| Concept (Dewey) (MIMAS: MIMAS) | |
| Concept (JISCCLSV: tblConcept) | dc:subject. |
| Concept (LCSH) (MIMAS: MIMAS) | |
| Concept (RSLPCLD: tblConcept) | |
| Concept (UNESCO) (MIMAS: MIMAS) | |
| dc:subject (RSLPCDS: Collection) | Concept (keyword) of items in collection. |
| DDC21 (SCONE: SubjectDDC) | Dewey Decimal Classification edition 21 number of collection subject. DDC. |
| DDC21Verbal (SCONE: SubjectDDC) | Verbal heading associated with DDC21 number of subject. DDC. |
| Keywords (JISCCLSV: tblCollection) | Subject keywords associated with items in collection. dc:subject. RDN Faculty List. |
| LCSH (SCONE: SubjectLCSH) | Library of Congress Subject Heading of collection subject. LCSH. |
| RDN Fac Term (JISCCLSV: tblRDN) | |
| Subject (RIDING: Riding) | |
| SubjectName (SCONE: RCOSubject) | Heading of RCO subject. |

**Attribute**        Subject: Date coverage (Inherited from Content entity.)

| Field | Notes |
|---|---|
| Coverage.Temporal (RIDING: Riding) | Temporal characteristics of intellectual content of collection. |
| dcq:temporal (RSLPCDS: Collection) | Temporal coverage of items in collection. |
| Temporal Cover (MIMAS: MIMAS) | |
| Temporal Coverage Date Range End (JISCCLSV: tblCollection) | Temporal coverage of items in collection (end). dcterms:temporal. W3C Date and Time Formats; http://www.w3.org/TR/NOTE-datetime. |
| Temporal Coverage Date Range Start (JISCCLSV: tblCollection) | Temporal coverage of items in collection (start). dcterms:temporal. W3C Date and Time Formats; http://www.w3.org/TR/NOTE-datetime. |
| Time (RSLPCLD: tblCollectionsTimes) | |

**Attribute**        Subject: Name (Inherited from Content entity.)

| Field | Notes |
|---|---|
| cld:agentName (RSLPCDS: Collection) | Personal or corporate name associated with items in collection. |
| Dates (SCONE: AgentPers) | Dates of birth and/or death of person. Anglo-American Cataloguing Rules. |
| Extension (SCONE: AgentPers) | Extension to name of person, other than dates. Anglo-American Cataloguing Rules. |
| Forename (SCONE: AgentPers) | Forenames and/or initials of person. |
| Honorific (SCONE: AgentPers) | Honorific of person. Standard abbreviation. |
| Name (RSLPCLD: tblCollectionsNames) | |
| Name (SCONE: AgentCorp) | Name of corporate body. Anglo-American Cataloguing Rules. |
| Postnominals (SCONE: AgentPers) | Postnominals of person. Standard abbreviation. |
| Surname (SCONE: AgentPers) | Surname or family name of person. |

**Attribute**        Subject: Object (Inherited from Content entity.)

| Field | Notes |
|---|---|
| cld:objectName (RSLPCDS: Collection) | Object name associated with items in collection. |
| Object (RSLPCLD: tblCollectionsObjects) | |

**Attribute**        Subject: Place coverage (Inherited from Content entity.)

| Field | Notes |
|---|---|
| dcq:spatial (RSLPCDS: Collection) | Spatial coverage of items in collection. |
| Place (JISCCLSV: tblPlace) | Spatial coverage of items in collection. dcterms:spatial. Getty Thesaurus of Geographic Names; http://www.getty.edu/research/tools/vocabulary/tgn/. |
| Place (RSLPCLD: tblCollectionsPlaces) | |

**Attribute**        System of arrangement

| Field | Notes |
|---|---|
| | |

**Attribute**      Title

| Field | Notes |
|---|---|
| Collection Name (MIMAS: MIMAS) | |
| dc:title (RSLPCDS: Collection) | Name of collection. |
| IsTitleProper (SCONE: Collection) | Logical flag indicating a proper, as opposed to derived, title of collection. |
| RelatedCollectionName (MW: tblRelatedCollection) | |
| Title (JISCCLSV: tblCollection) | Name of collection. dc:title. |
| Title (JISCCLSV: tblCollectionDescription) | dc:title. |
| Title (MW: tblCollection) | |
| Title (RASCAL: Collection) | Not explicitly labelled. |
| Title (RIDING: Riding) | Name given to collection by administrator, owner or publisher, including version number. |
| Title (RSLPCLD: tblCollections) | Name of collection. |
| Title (SCONE: Collection) | Title of collection. Omit initial articles. |
| Title.Alternate (RIDING: Riding) | Alternative titles and nicknames of collection. Example: Poetry Society Library, University of York (title = Poetry Society Library). |

**Attribute**        Type **

| Field | Notes |
|---|---|
| dc:type (RSLPCDS: Collection) | Type of collection. |
| IsTypeArchive (SCONE: Collection) | Flag to indicate collection type as archive. |
| IsTypeCatalogue (SCONE: Collection) | Flag to indicate collection type as catalogue. |
| IsTypeCollection (SCONE: Collection) | Flag to indicate collection type as collection. |
| IsTypeDataset (SCONE: Collection) | Flag to indicate collection type as dataset. |
| IsTypeDispersed (SCONE: Collection) | Flag to indicate collection type as dispersed. |
| IsTypeDistributed (SCONE: Collection) | Flag to indicate collection type as distributed. |
| IsTypeEvent (SCONE: Collection) | Flag to indicate collection type as event. |
| IsTypeFindingAid (SCONE: Collection) | Flag to indicate collection type as finding aig. |
| IsTypeForm (SCONE: Collection) | Flag to indicate collection type as form. |
| IsTypeImage (SCONE: Collection) | Flag to indicate collection type as image. |
| IsTypeIndex (SCONE: Collection) | Flag to indicate collection type as index. |
| IsTypeInteractiveResource (SCONE: Collection) | Flag to indicate collection type as interactive resource. |
| IsTypeInternet (SCONE: Collection) | Flag to to indicate collection type as internet. |
| IsTypeLibrary (SCONE: Collection) | Flag to indicate collection type as library. |
| IsTypeMuseum (SCONE: Collection) | Flag to indicate collection type as museum. |
| IsTypePhysicalObject (SCONE: Collection) | Flag to indicate collection type as collection. |
| IsTypeSoftware (SCONE: Collection) | Flag to indicate collection type as software. |
| IsTypeSound (SCONE: Collection) | Flag to indicate collection type as sound. |
| IsTypeSpecial (SCONE: Collection) | Flag to indicate collection type as special. |
| IsTypeSubject (SCONE: Collection) | Flag to indicate collection type as subject. |
| IsTypeText (SCONE: Collection) | Flag to indicate collection type as text. |
| IsTypeUser (SCONE: Collection) | Flag to indicate collection type as user. |
| IsTypeVirtual (SCONE: Collection) | Flag to indicate collection type as virtual. |
| IsTypeWorking (SCONE: Collection) | Flag to indicate collection type as working. |
| Type (CLDT) (MIMAS: MIMAS) | |
| Type (JISCCLSV: tblCollection) | Type of collection. dc:type. RSLP CLDT; http://www.ukoln.ac.uk/metadata/rslp/types/. |
| Type (JISCCLSV: tblType) | dc:type |
| Type (RASCAL: Collection) | RSLP CLDT; http://www.ukoln.ac.uk/metadata/rslp/types/. |
| Type (RIDING: Riding) | Category of collection. |
| Type (RSLPCLD: tblCollections) | Type of collection. |
| Type (RSLPCLD: tblCollectionsTypes) | |

**Entity**        Collector: Corporate body (Agent)
                  (Collection level.)

**Attribute**        Administrative history

| Field | Notes |
|---|---|
| History (RASCAL: Collector) | |
| History (SCONE: AgentCorp) | Administrative and other history of corporate body. |

**Attribute**        Date

| Field | Notes |
|---|---|
| | |

**Attribute**        Email address **

| Field | Notes |
|---|---|
| Email (SCONE: AgentCorp) | Email address of corporate body. |
| Email Address (RASCAL: Collector) | |

**Attribute**        Fax number **

| Field | Notes |
|---|---|
| Fax (SCONE: AgentCorp) | Fax number of corporate body. International format. |
| Fax No. (RASCAL: Collector) | |

**Attribute**        Name

| Field | Notes |
|---|---|
| Collector (MIMAS: MIMAS) | |
| iname (INFORM25: Institution) | Full name of institution. |
| Name (RASCAL: Collector) | |
| Name (SCONE: AgentCorp) | Name of corporate body. Anglo-American Cataloguing Rules. |
| Organisation (RSLPCLD: tblOrganisations) | |
| vcard:org (RSLPCDS: Agent) | Organisational name of, or affiliated with, agent. |

**Attribute**        Place

| Field | Notes |
|---|---|
| | |

**Attribute**        Role **

| Field | Notes |
|---|---|
| Role (RASCAL: Collector) | |
| Role (SCONE: AgentCorp) | Role of corporate body. |

**Attribute**        Telephone number **

| Field | Notes |
|---|---|
| Tel No. (RASCAL: Collector) | International format. |
| Telephone (SCONE: AgentCorp) | Telephone number of corporate body. International format. |

**Entity**      Collector: Person (Agent)
                   (Collection level.)

**Attribute**      Biography

| Field | Notes |
| --- | --- |
| Biography (SCONE: AgentPers) | Biography of person. |
| cld:agentHistory (RSLPCDS: Agent) | Administrative history of, or biographical details on, agent. |
| History (RSLPCLD: tblPeople) | Administrative history of, or biographical details on, agent. |
| PersonHistory (MW: tblPerson) | |

**Attribute**      Date

| Field | Notes |
| --- | --- |
| Dates (SCONE: AgentPers) | Dates of birth and/or death of person. Anglo-American Cataloguing Rules. |

**Attribute**      Email address **

| Field | Notes |
| --- | --- |
| Email (MW: tblPerson) | |
| Email (SCONE: AgentPers) | Email address of person. |
| Email Address (RASCAL: Collector) | |

**Attribute**      Fax number **

| Field | Notes |
| --- | --- |
| Fax (SCONE: AgentPers) | Fax number of person. International format. |
| Fax No. (RASCAL: Collector) | |
| FaxNumber (MW: tblPerson) | International format. |

**Attribute**      Name

| Field | Notes |
| --- | --- |
| Collector (MIMAS: MIMAS) | |
| Extension (SCONE: AgentPers) | Extension to name of person, other than dates. Anglo-American Cataloguing Rules. |
| Forename (SCONE: AgentPers) | Forenames and/or initials of person. |
| Honorific (SCONE: AgentPers) | Honorific of person. Standard abbreviation. |
| Name (MW: tblPerson) | |
| Name (RASCAL: Collector) | |
| Name (RSLPCLD: tblPeople) | Name of person. |
| Postnominals (SCONE: AgentPers) | Postnominals of person. Standard abbreviation. |
| Surname (SCONE: AgentPers) | Surname or family name of person. |
| vcard:fn (RSLPCDS: Agent) | Name of agent. |

**Attribute**        Role **

| Field | Notes |
|---|---|
| Role (MW: tblPerson) | |
| Role (RASCAL: Collector) | |
| Role (SCONE: AgentPers) | Role of person. |

**Attribute**        Telephone number **

| Field | Notes |
|---|---|
| Tel No. (RASCAL: Collector) | International format. |
| Telephone (SCONE: AgentPers) | Telephone number of person. International format. |
| TelephoneNumber (MW: tblPerson) | International format. |

**Entity**        Creator: Corporate body (Agent)
                     (Item level.)

**Attribute**       Administrative history

| Field | Notes |
|---|---|
| History (SCONE: AgentCorp) | Administrative and other history of corporate body. |

**Attribute**       Date

| Field | Notes |
|---|---|
| | |

**Attribute**       Email address **

| Field | Notes |
|---|---|
| Email (SCONE: AgentCorp) | Email address of corporate body. |

**Attribute**       Fax number **

| Field | Notes |
|---|---|
| Fax (SCONE: AgentCorp) | Fax number of corporate body. International format. |

**Attribute**       Name

| Field | Notes |
|---|---|
| Name (SCONE: AgentCorp) | Name of corporate body. Anglo-American Cataloguing Rules. |
| Organisation (RSLPCLD: tblOrganisations) | |

**Attribute**       Place

| Field | Notes |
|---|---|
| | |

**Attribute**       Role **

| Field | Notes |
|---|---|
| Role (SCONE: AgentCorp) | Role of corporate body. |

**Attribute**       Telephone number **

| Field | Notes |
|---|---|
| Telephone (SCONE: AgentCorp) | Telephone number of corporate body. International format. |

**Entity**        Creator: Person (Agent)
(Item level.)

**Attribute**        Biography

| Field | Notes |
|---|---|
| Biography (SCONE: AgentPers) | Biography of person. |
| History (RSLPCLD: tblPeople) | Administrative history of, or biographical details on, agent. |
| PersonHistory (MW: tblPerson) | |

**Attribute**        Date

| Field | Notes |
|---|---|
| Dates (SCONE: AgentPers) | Dates of birth and/or death of person. Anglo-American Cataloguing Rules. |

**Attribute**        Email address **

| Field | Notes |
|---|---|
| Email (MW: tblPerson) | |
| Email (SCONE: AgentPers) | Email address of person. |

**Attribute**        Fax number **

| Field | Notes |
|---|---|
| Fax (SCONE: AgentPers) | Fax number of person. International format. |
| FaxNumber (MW: tblPerson) | International format. |

**Attribute**        Name

| Field | Notes |
|---|---|
| Extension (SCONE: AgentPers) | Extension to name of person, other than dates. Anglo-American Cataloguing Rules. |
| Forename (SCONE: AgentPers) | Forenames and/or initials of person. |
| Honorific (SCONE: AgentPers) | Honorific of person. Standard abbreviation. |
| Name (MW: tblPerson) | |
| Name (RSLPCLD: tblPeople) | Name of person. |
| Postnominals (SCONE: AgentPers) | Postnominals of person. Standard abbreviation. |
| Surname (SCONE: AgentPers) | Surname or family name of person. |

**Attribute**        Role **

| Field | Notes |
|---|---|
| Role (MW: tblPerson) | |
| Role (SCONE: AgentPers) | Role of person. |

**Attribute**        Telephone number **

| Field | Notes |
|---|---|
| Telephone (SCONE: AgentPers) | Telephone number of person. International format. |
| TelephoneNumber (MW: tblPerson) | International format. |

**Entity**        Creator's assignee: Corporate body (Agent)
(Item level.)

**Attribute**        Administrative history

| Field | Notes |
|---|---|
| History (SCONE: AgentCorp) | Administrative and other history of corporate body. |

**Attribute**        Date

| Field | Notes |
|---|---|
| | |

**Attribute**        Email address **

| Field | Notes |
|---|---|
| Email (SCONE: AgentCorp) | Email address of corporate body. |

**Attribute**        Fax number **

| Field | Notes |
|---|---|
| Fax (SCONE: AgentCorp) | Fax number of corporate body. International format. |

**Attribute**        Logo

| Field | Notes |
|---|---|
| | |

**Attribute**        Name

| Field | Notes |
|---|---|
| Name (SCONE: AgentCorp) | Name of corporate body. Anglo-American Cataloguing Rules. |
| Organisation (RSLPCLD: tblOrganisations) | |

**Attribute**        Place

| Field | Notes |
|---|---|
| | |

**Attribute**        Role **

| Field | Notes |
|---|---|
| Role (SCONE: AgentCorp) | Role of corporate body. |

**Attribute**        Telephone number **

| Field | Notes |
|---|---|
| Telephone (SCONE: AgentCorp) | Telephone number of corporate body. International format. |

**Entity**  Creator's assignee: Person (Agent)
(Item level.)

**Attribute**  Biography

| Field | Notes |
|---|---|
| Biography (SCONE: AgentPers) | Biography of person. |
| History (RSLPCLD: tblPeople) | Administrative history of, or biographical details on, agent. |
| PersonHistory (MW: tblPerson) | |

**Attribute**  Date

| Field | Notes |
|---|---|
| Dates (SCONE: AgentPers) | Dates of birth and/or death of person. Anglo-American Cataloguing Rules. |

**Attribute**  Email address **

| Field | Notes |
|---|---|
| Email (MW: tblPerson) | |
| Email (SCONE: AgentPers) | Email address of person. |

**Attribute**  Fax number **

| Field | Notes |
|---|---|
| Fax (SCONE: AgentPers) | Fax number of person. International format. |
| FaxNumber (MW: tblPerson) | International format. |

**Attribute**  Name

| Field | Notes |
|---|---|
| Extension (SCONE: AgentPers) | Extension to name of person, other than dates. Anglo-American Cataloguing Rules. |
| Forename (SCONE: AgentPers) | Forenames and/or initials of person. |
| Honorific (SCONE: AgentPers) | Honorific of person. Standard abbreviation. |
| Name (MW: tblPerson) | |
| Name (RSLPCLD: tblPeople) | Name of person. |
| Postnominals (SCONE: AgentPers) | Postnominals of person. Standard abbreviation. |
| Surname (SCONE: AgentPers) | Surname or family name of person. |

**Attribute**  Role **

| Field | Notes |
|---|---|
| Role (MW: tblPerson) | |
| Role (SCONE: AgentPers) | Role of person. |

**Attribute**  Telephone number **

| Field | Notes |
|---|---|
| Telephone (SCONE: AgentPers) | Telephone number of person. International format. |
| TelephoneNumber (MW: tblPerson) | International format. |

**Entity**        Location: Electronic repository (Object)
                  (Collection level.)

**Attribute**      Site

| Field | Notes |
|---|---|
| Location (MIMAS: MIMAS) | |
| LocationNotes (MW: tblLocation) | |
| Name (SCONE: Location) | Name of location. |
| SiteName (MW: tblLocation) | |

**Attribute**      URL

| Field | Notes |
|---|---|
| cld:locator (RSLPCDS: Location) | Online location (URL) of online collection. |
| Collection URL (MIMAS: MIMAS) | |
| Eaddress (SCONE: LocationVirt) | Electronic address of location. |
| Location URL (MIMAS: MIMAS) | |
| Locator (RSLPCLD: tblLocations) | |
| URL (JISCCLSV: tblCollectionDescription) | |
| URL (MW: tblLocation) | |

**Entity**     Location: Physical repository (Object)
               (Collection level.)

**Attribute**  Identifier

| Field | Notes |
|---|---|
| Identifier (JISCCLSV: tblAdministrator) | dc:identifier. |

**Attribute**          Place

| Field | Notes |
|---|---|
| address (INFORM25: Library) | Full postal address of library. |
| Address1 (SCONE: LocationPhys) | First line of address of location. |
| Address2 (SCONE: LocationPhys) | Second line of address of location. |
| Address3 (SCONE: LocationPhys) | Third line of address of location. |
| cld:address (RSLPCDS: Location) | Full postal address for physical location of physical collection. |
| cld:country (RSLPCDS: Location) | Country in which collection is physically located. |
| cld:postcode (RSLPCDS: Location) | Post code or zip code for physical location of collection. |
| Code (SCONE: Country) | Code for country. ISO 3166. |
| Country (MW: tblLocation) | |
| Country (RASCAL: Location) | |
| Country (RSLPCLD: tblLocations) | |
| CountryName (MW: tblCountries) | |
| dc:title (RSLPCDS: Location) | Name of location. |
| Homepage (MW: tblLocation) | |
| InstitutionName (MW: tblLocation) | |
| lname (INFORM25: Library) | Full name of library. |
| loc_inner (INFORM25: Library) | Flag to indicate library is in inner M25 zone. |
| loc_north (INFORM25: Library) | Flag to indicate library is in north M25 zone. |
| loc_south (INFORM25: Library) | Flag to indicate library is in south M25 zone. |
| Location (RIDING: Riding) | Location and access details. |
| Location.Code (RIDING: Riding) | Short code for location of organisation holding collection. |
| LocationNotes (MW: tblLocation) | |
| Name (RASCAL: Location) | |
| Name (RSLPCLD: tblLocations) | Name of location. |
| Name (SCONE: Country) | Name of country. |
| Name (SCONE: Location) | Name of location. |
| Name (SCONE: Region) | Name of region. OS Gazetteer. |
| Name (SCONE: Town) | Name of town OS Gazetteer. |
| Postal Address (RASCAL: Location) | |
| Postal Address (RSLPCLD: tblLocations) | Full postal address for physical location of physical collection. |
| PostalAddress1 (MW: tblLocation) | |
| PostalAddress2 (MW: tblLocation) | |
| PostalAddress3 (MW: tblLocation) | |
| PostalAddress4 (MW: tblLocation) | |
| postcode (INFORM25: Library) | Library postcode. |
| Postcode (MW: tblLocation) | |
| Postcode (RASCAL: Location) | |
| Postcode (RSLPCLD: tblLocations) | Post or zip code for location of physical collection. |
| Postcode (SCONE: LocationPhys) | Postcode of location. |
| term_dates_url (INFORM25: Library) | URL of webpage giving dates of terms. |
| visitor_information_url (INFORM25: Library) | URL of webpage giving information for library visitors. |

**Entity**  Owner: Corporate body (Agent)
      (Collection level.)

**Attribute**  Administrative history

| Field | Notes |
|---|---|
| Biography/History (RASCAL: Owner) | |
| History (SCONE: AgentCorp) | Administrative and other history of corporate body. |

**Attribute**  Date

| Field | Notes |
|---|---|
| | |

**Attribute**  Email address **

| Field | Notes |
|---|---|
| Email (JISCCLSV: tblOwner) | Electronic mail address of agent. vcard:email. RFC-822 format. |
| Email (SCONE: AgentCorp) | Email address of corporate body. |
| vcard:email (RSLPCDS: Agent) | Electronic mail address of agent. |

**Attribute**  Fax number **

| Field | Notes |
|---|---|
| Fax (JISCCLSV: tblOwner) | Fax number of agent. vcard:fax. International format. |
| Fax (SCONE: AgentCorp) | Fax number of corporate body. International format. |
| Fax No. (RASCAL: Owner) | |
| vcard:fax (RSLPCDS: Agent) | Fax number of agent. |

**Attribute**  Logo

| Field | Notes |
|---|---|
| Identifier.Logo (RIDING: Riding) | URI of logo associated with collection or its owner. |
| Logo (JISCCLSV: tblOwner) | URL of image of logo which is associated with agent. |

**Attribute**  Name

| Field | Notes |
|---|---|
| iname (INFORM25: Institution) | Full name of institution. |
| Name (SCONE: AgentCorp) | Name of corporate body. Anglo-American Cataloguing Rules. |
| Organisation (RASCAL: Owner) | |
| Organisation (RSLPCLD: tblOrganisations) | |
| Organisation Name (JISCCLSV: tblOwner) | Organisation name of agent (or name of organisation with which individual agent is affiliated). vcard:org. |
| Owner (MIMAS: MIMAS) | |
| Owner (RIDING: Riding) | Name of organisation or person owning collection. |
| vcard:org (RSLPCDS: Agent) | Organisational name of, or affiliated with, agent. |

**Attribute**        Place

| Field | Notes |
|---|---|
| Address (JISCCLSV: tblOwner) | Postal address of agent. vcard:address. |
| Postcode (JISCCLSV: tblOwner) | Post code of agent. |

**Attribute**        Role **

| Field | Notes |
|---|---|
| Role (JISCCLSV: tblOwner) | Role (typically organisational role) fulfilled by agent. vcard:role. |
| Role (RASCAL: Owner) | |
| Role (SCONE: AgentCorp) | Role of corporate body. |
| vcard:role (RSLPCDS: Agent) | Role (typically organisational role) fulfilled by agent. |

**Attribute**        Telephone number **

| Field | Notes |
|---|---|
| Phone (JISCCLSV: tblOwner) | Telephone number of agent. vcard:voice. International format. |
| Tel No. (RASCAL: Owner) | International format. |
| Telephone (SCONE: AgentCorp) | Telephone number of corporate body. International format. |
| vcard:voice (RSLPCDS: Agent) | Telephone number of agent. |

**Entity**　　　　Owner: Person (Agent)
　　　　　　　　(Collection level.)

**Attribute**　　　　Biography

| Field | Notes |
|---|---|
| Biography (SCONE: AgentPers) | Biography of person. |
| Biography/History (RASCAL: Owner) | |
| cld:agentHistory (RSLPCDS: Agent) | Administrative history of, or biographical details on, agent. |
| History (RSLPCLD: tblPeople) | Administrative history of, or biographical details on, agent. |
| PersonHistory (MW: tblPerson) | |

**Attribute**　　　　Date

| Field | Notes |
|---|---|
| Dates (SCONE: AgentPers) | Dates of birth and/or death of person. Anglo-American Cataloguing Rules. |

**Attribute**　　　　Email address **

| Field | Notes |
|---|---|
| Email (JISCCLSV: tblOwner) | Electronic mail address of agent. vcard:email. RFC-822 format. |
| Email (MW: tblPerson) | |
| Email (SCONE: AgentPers) | Email address of person. |
| Email Address (RSLPCLD: tblPeople) | Email address. |
| vcard:email (RSLPCDS: Agent) | Electronic mail address of agent. |

**Attribute**　　　　Fax number **

| Field | Notes |
|---|---|
| Fax (JISCCLSV: tblOwner) | Fax number of agent. vcard:fax. International format. |
| Fax (SCONE: AgentPers) | Fax number of person. International format. |
| Fax No (RSLPCLD: tblPeople) | Fax number. International format. |
| FaxNumber (MW: tblPerson) | International format. |
| vcard:fax (RSLPCDS: Agent) | Fax number of agent. |

**Attribute**        Name

| Field | Notes |
|---|---|
| Extension (SCONE: AgentPers) | Extension to name of person, other than dates. Anglo-American Cataloguing Rules. |
| Forename (SCONE: AgentPers) | Forenames and/or initials of person. |
| Forenames (JISCCLSV: tblOwner) | Forename(s) of individual. vcard:fn. |
| Honorific (SCONE: AgentPers) | Honorific of person. Standard abbreviation. |
| Name (MW: tblPerson) | |
| Name (RSLPCLD: tblPeople) | Name of person. |
| Owner (MIMAS: MIMAS) | |
| Owner (RIDING: Riding) | Name of organisation or person owning collection. |
| Postnominals (SCONE: AgentPers) | Postnominals of person. Standard abbreviation. |
| Surname (JISCCLSV: tblOwner) | Surname of individual. vcard:fn. |
| Surname (SCONE: AgentPers) | Surname or family name of person. |
| vcard:fn (RSLPCDS: Agent) | Name of agent. |

**Attribute**        Role **

| Field | Notes |
|---|---|
| Role (JISCCLSV: tblOwner) | Role (typically organisational role) fulfilled by agent. vcard:role. |
| Role (MW: tblPerson) | |
| Role (RSLPCLD: tblPeople) | Name of role. |
| Role (SCONE: AgentPers) | Role of person. |
| vcard:role (RSLPCDS: Agent) | Role (typically organisational role) fulfilled by agent. |

**Attribute**        Telephone number **

| Field | Notes |
|---|---|
| Phone (JISCCLSV: tblOwner) | Telephone number of agent. vcard:voice. International format. |
| Telephone (SCONE: AgentPers) | Telephone number of person. International format. |
| Telephone No (RSLPCLD: tblPeople) | Telephone number. International format. |
| TelephoneNumber (MW: tblPerson) | International format. |
| vcard:voice (RSLPCDS: Agent) | Telephone number of agent. |

**Entity**     Producer: Corporate body (Agent)
                  (Item level.)

**Attribute**     Administrative history

| Field | Notes |
|---|---|
| History (SCONE: AgentCorp) | Administrative and other history of corporate body. |

**Attribute**     Date

| Field | Notes |
|---|---|
| | |

**Attribute**     Email address **

| Field | Notes |
|---|---|
| Email (SCONE: AgentCorp) | Email address of corporate body. |

**Attribute**     Fax number **

| Field | Notes |
|---|---|
| Fax (SCONE: AgentCorp) | Fax number of corporate body. International format. |

**Attribute**     Logo

| Field | Notes |
|---|---|
| | |

**Attribute**     Name

| Field | Notes |
|---|---|
| Name (SCONE: AgentCorp) | Name of corporate body. Anglo-American Cataloguing Rules. |
| Organisation (RSLPCLD: tblOrganisations) | |

**Attribute**     Place

| Field | Notes |
|---|---|
| | |

**Attribute**     Role **

| Field | Notes |
|---|---|
| Role (SCONE: AgentCorp) | Role of corporate body. |

**Attribute**     Standard number

| Field | Notes |
|---|---|
| | |

**Attribute**     Telephone number **

| Field | Notes |
|---|---|
| Telephone (SCONE: AgentCorp) | Telephone number of corporate body. International format. |

**Entity**      Producer: Person (Agent)
               (Item level.)

**Attribute**      Biography

| Field | Notes |
|---|---|
| Biography (SCONE: AgentPers) | Biography of person. |
| History (RSLPCLD: tblPeople) | Administrative history of, or biographical details on, agent. |
| PersonHistory (MW: tblPerson) | |

**Attribute**      Date

| Field | Notes |
|---|---|
| Dates (SCONE: AgentPers) | Dates of birth and/or death of person. Anglo-American Cataloguing Rules. |

**Attribute**      Email address **

| Field | Notes |
|---|---|
| Email (MW: tblPerson) | |
| Email (SCONE: AgentPers) | Email address of person. |

**Attribute**      Fax number **

| Field | Notes |
|---|---|
| Fax (SCONE: AgentPers) | Fax number of person. International format. |
| FaxNumber (MW: tblPerson) | International format. |

**Attribute**      Name

| Field | Notes |
|---|---|
| Extension (SCONE: AgentPers) | Extension to name of person, other than dates. Anglo-American Cataloguing Rules. |
| Forename (SCONE: AgentPers) | Forenames and/or initials of person. |
| Honorific (SCONE: AgentPers) | Honorific of person. Standard abbreviation. |
| Name (MW: tblPerson) | |
| Name (RSLPCLD: tblPeople) | Name of person. |
| Postnominals (SCONE: AgentPers) | Postnominals of person. Standard abbreviation. |
| Publisher (RIDING: Riding) | |
| Surname (SCONE: AgentPers) | Surname or family name of person. |

**Attribute**      Role **

| Field | Notes |
|---|---|
| Role (MW: tblPerson) | |
| Role (SCONE: AgentPers) | Role of person. |

**Attribute**      Telephone number **

| Field | Notes |
|---|---|
| Telephone (SCONE: AgentPers) | Telephone number of person. International format. |
| TelephoneNumber (MW: tblPerson) | International format. |

**Entity**      Producer's assignee: Corporate body (Agent)
                  (Item level.)

**Attribute**      Administrative history

| Field | Notes |
|---|---|
| History (SCONE: AgentCorp) | Administrative and other history of corporate body. |

**Attribute**      Date

| Field | Notes |
|---|---|
|  |  |

**Attribute**      Email address **

| Field | Notes |
|---|---|
| Email (SCONE: AgentCorp) | Email address of corporate body. |

**Attribute**      Fax number **

| Field | Notes |
|---|---|
| Fax (SCONE: AgentCorp) | Fax number of corporate body. International format. |

**Attribute**      Logo

| Field | Notes |
|---|---|
|  |  |

**Attribute**      Name

| Field | Notes |
|---|---|
| Name (SCONE: AgentCorp) | Name of corporate body. Anglo-American Cataloguing Rules. |
| Organisation (RSLPCLD: tblOrganisations) |  |

**Attribute**      Place

| Field | Notes |
|---|---|
|  |  |

**Attribute**      Role **

| Field | Notes |
|---|---|
| Role (SCONE: AgentCorp) | Role of corporate body. |

**Attribute**      Telephone number **

| Field | Notes |
|---|---|
| Telephone (SCONE: AgentCorp) | Telephone number of corporate body. International format. |

**Entity**      Producer's assignee: Person (Agent)
                  (Item level.)

**Attribute**      Biography

| Field | Notes |
|---|---|
| Biography (SCONE: AgentPers) | Biography of person. |
| History (RSLPCLD: tblPeople) | Administrative history of, or biographical details on, agent. |
| PersonHistory (MW: tblPerson) | |

**Attribute**      Date

| Field | Notes |
|---|---|
| Dates (SCONE: AgentPers) | Dates of birth and/or death of person. Anglo-American Cataloguing Rules. |

**Attribute**      Email address **

| Field | Notes |
|---|---|
| Email (MW: tblPerson) | |
| Email (SCONE: AgentPers) | Email address of person. |

**Attribute**      Fax number **

| Field | Notes |
|---|---|
| Fax (SCONE: AgentPers) | Fax number of person. International format. |
| FaxNumber (MW: tblPerson) | International format. |

**Attribute**      Name

| Field | Notes |
|---|---|
| Extension (SCONE: AgentPers) | Extension to name of person, other than dates. Anglo-American Cataloguing Rules. |
| Forename (SCONE: AgentPers) | Forenames and/or initials of person. |
| Honorific (SCONE: AgentPers) | Honorific of person. Standard abbreviation. |
| Name (MW: tblPerson) | |
| Name (RSLPCLD: tblPeople) | Name of person. |
| Postnominals (SCONE: AgentPers) | Postnominals of person. Standard abbreviation. |
| Surname (SCONE: AgentPers) | Surname or family name of person. |

**Attribute**      Role **

| Field | Notes |
|---|---|
| Role (MW: tblPerson) | |
| Role (SCONE: AgentPers) | Role of person. |

**Attribute**      Telephone number **

| Field | Notes |
|---|---|
| Telephone (SCONE: AgentPers) | Telephone number of person. International format. |
| TelephoneNumber (MW: tblPerson) | International format. |

**Entity**        Publication (Object)
                    (Item level.)

**Attribute**     Citation **

| Field | Notes |
|---|---|
| Associated Publication (RASCAL: Associated Publications) | |
| Associated Publication (RSLPCLD: tblCollectionsAssociatedPublications) | |
| Citation (SCONE: HasPublication) | Citation of publication. |
| cld:hasPublication (RSLPCDS: Collection) | Identifier or name of publication that is based on use, study, or analysis of collection. |

**Relationship**     Administers
                   (Administrator : Location.)

**Attribute**       Access conditions

| Field | Notes |
|---|---|
| Access (MIMAS: MIMAS) | |
| Access (RIDING: Riding) | How collection is accessed. Typically provided from "Service" elements. |
| Access Conditions (RASCAL: Location) | |
| Access Conditions (RSLPCLD: tblLocations) | |
| Access Control (JISCCLSV: tblCollection) | Statement of any access restrictions that are placed on collection. cld:accessControl. Free text. |
| AccessConditions (MW: tblLocation) | |
| AccessNote (SCONE: Administers) | Note of access conditions. |
| AccessOpenHours (SCONE: Administers) | Opening hours of location. |
| cld:accessConditions (RSLPCDS: Location) | Hours of access, classes of permitted user, etc. |
| find_bus (INFORM25: Library) | Note of nearest bus stops. |
| find_other (INFORM25: Library) | Note of additional travel information. |
| find_parking (INFORM25: Library) | Note of local parking arrangements. |
| find_train (INFORM25: Library) | Note of nearest main line railway stations. |
| find_tube (INFORM25: Library) | Note of nearest London Tube stations. |
| m25access (INFORM25: Institution) | Flag to indicate institution is in the M25 access scheme. |
| opening_hours_url (INFORM25: Library) | URL of webpage giving library opening hours. |
| scheme_m25access (INFORM25: Library) | Flag to indicate library is in the M25 access scheme. |
| scheme_uklibplus (INFORM25: Library) | Flag to indicate library is in the UK Libraries Plus access scheme. |
| scheme_unilondon (INFORM25: Library) | Flag to indicate library is in the London Universities access scheme. |
| Service.Policy (RIDING: Riding) | Constraints or legal prerequisites for accessing collection or component items. Applicable only to reference collections and/or differences from RIDING Access Policy. |
| Service.Times (RIDING: Riding) | Time ranges for mandatory or preferred access of service. General statement or URL of appropriate webpage. |
| Statement (SCONE: AccessPrior) | Advice on contact prior to physical access. Values: By appointment only. Contact before a visit is essential. - Consultation before a visit is advised. - Contact before a visit is not required. - Contact before a visit is not available. - Direct access is not available. - Direct access is not available. Contact for enquiries and help. - Direct access is limited to specific groups. |
| TransportNote (SCONE: LocationPhys) | Note of transportation links to location. |
| uklibplus (INFORM25: Institution) | Flag to indicate institution is in the UK Libraries Plus access scheme. |
| unilondon (INFORM25: Institution) | Flag to indicate institution is in the London Universities access scheme. |
| Use Constraints (RIDING: Riding) | |

**Relationship**     Collects
(Collector : Collection.)

**Attribute**     Accrual policy

| Field | Notes |
|---|---|
| Accrual (MIMAS: MIMAS) | |
| Accrual Status (RASCAL: Collection) | Statement of accrual policy, accrual method and accrual periodicity. Values: closed - passive - active - partial/selective (policy); purchase - deposit (method); closed - irregular - periodic (periodicity). |
| Accrual Status (RSLPCLD: tblCollections) | Statement of accrual policy, accrual method and accrual periodicity. Values: closed - passive - active - partial/selective (policy); purchase - deposit (method); closed - irregular - periodic (periodicity). |
| AcquisitionDetails (MW: tblCollection) | |
| cld:accrualStatus (RSLPCDS: Collection) | Statement of accrual policy, accrual method and accrual periodicity. Values: closed - passive - active - partial/selective (policy); purchase - deposit (method); closed - irregular - periodic (periodicity). |
| Purpose (RIDING: Riding) | Statement of why collection is offered, and origin and lineage of items, including acquisition policy. |
| Statement (SCONE: AccrualPolicy) | Short statement of accrual policy. Values: Closed - Passive - Active - Partial/selective |

**Attribute**     Legal status

| Field | Notes |
|---|---|
| cld:legalStatus (RSLPCDS: Collection) | Statement of legal status of collection. |
| Legal Status (JISCCLSV: tblCollection) | Statement of legal status of collection. cld:legalStatus. Free text. |
| Legal Status (MIMAS: MIMAS) | |
| Legal Status (RASCAL: Collection) | |
| Legal Status (RSLPCLD: tblCollections) | Statement of legal status of collection. |
| LegalStatus (SCONE: Collects) | Legal status of collecting activity. |

**Relationship**      Contracts-With
                    (Creator : Producer.)

**Attribute**        Date

| Field | Notes |
|---|---|
| ContractDate (SCONE: ContractsWith) | Date of contract. |

**Attribute**        Terms of contract

| Field | Notes |
|---|---|
| ContractTerms (SCONE: ContractsWith) | Terms of contract. |

**Relationship**     Delegates-To
                       (Owner : Administrator.)

**Attribute**        Date

| Field | Notes |
|---|---|
| DelegationDate (SCONE: DelegatesTo) | Date of delegation. |

**Attribute**        Terms of delegation

| Field | Notes |
|---|---|
| DelegationTerms (SCONE: DelegatesTo) | Terms of delegation. |

**Relationship**    Has-Part (Item)
                    (Item : Item.)

**Attribute**       Relation identifier

| Field | Notes |
|-------|-------|
|       |       |

**Relationship**   Holds-Rights-Of (Creator)
                   (Creator : Creator's assignee.)

**Attribute**   Date

| Field | Notes |
|---|---|
|  |  |

**Attribute**   Nature of transfer

| Field | Notes |
|---|---|
| cld:custodialHistory (RSLPCDS: Collection) | Statement of any changes in ownership and custody of collection that are significant for its authenticity, integrity and intepretation. |
| Custodial History (RASCAL: Collection) |  |
| Custodial History (RSLPCLD: tblCollections) | Statement about any changes in ownership and custody of collection. |
| TransferNature (SCONE: HoldsRightsTo) | Nature of transfer of rights. |

**Attribute**   Terms of transfer

| Field | Notes |
|---|---|
| TransferTerms (SCONE: HoldsRightsTo) | Terms of transfer of rights. |

**Relationship**      Holds-Rights-Of (Producer)
                       (Producer : Producer's assignee.)

**Attribute**        Date

| Field | Notes |
|-------|-------|
|       |       |

**Attribute**        Nature of transfer

| Field | Notes |
|-------|-------|
| TransferNature (SCONE: HoldsRightsTo) | Nature of transfer of rights. |

**Attribute**        Terms of transfer

| Field | Notes |
|-------|-------|
| cld:custodialHistory (RSLPCDS: Collection) | Statement of any changes in ownership and custody of collection that are significant for its authenticity, integrity and intepretation. |
| Custodial History (RASCAL: Collection) | |
| Custodial History (RSLPCLD: tblCollections) | Statement about any changes in ownership and custody of collection. |
| TransferTerms (SCONE: HoldsRightsTo) | Terms of transfer of rights. |

**Relationship**     Is-Described-By
                      (Collection : Collection-Description.)

**Attribute**      Currency

| Field | Notes |
|-------|-------|
|       |       |

**Relationship**    Is-Located-In
                    (Collection: Location.)

**Attribute**       Dates of deposit

| Field | Notes |
|---|---|
| Date (SCONE: IsLocatedIn) | Date of placement of collection in location. |

**Relationship**      Owns
(Owner : Collection.)

**Attribute**      Access control

| Field | Notes |
|---|---|
| Access Control (JISCCLSV: tblCollection) | Statement of any access restrictions that are placed on collection. cld:accessControl. Free text. |
| Access Control (RASCAL: Collection) | |
| Access Control (RSLPCLD: tblCollections) | Allowed users, charges, etc. |
| AccessCharges (SCONE: Owns) | Note of access charges levied by owner. |
| AccessControl (MW: tblCollection) | |
| cld:accessControl (RSLPCDS: Collection) | Statement of any access restrictions placed on collection, including allowed users, charges, etc. |
| Rights (RIDING: Riding) | Rights held in and over collection. |
| Service.Charging (RIDING: Riding) | Description of charging mechanisms for accessing collection. |
| Use Constraints (RIDING: Riding) | |

**Attribute**      Legal status

| Field | Notes |
|---|---|
| cld:legalStatus (RSLPCDS: Collection) | Statement of legal status of collection. |
| Legal Status (JISCCLSV: tblCollection) | Statement of legal status of collection. cld:legalStatus. Free text. |
| Legal Status (MIMAS: MIMAS) | |
| Legal Status (RASCAL: Collection) | |
| Legal Status (RSLPCLD: tblCollections) | Statement of legal status of collection. |
| LegalStatus (SCONE: Owns) | Note of legal status of ownership. |

**Attribute**      Maintenance

| Field | Notes |
|---|---|
| Maintenance (SCONE: Owns) | Note of maintenance of collection. |

**Relationship**      Sells-To
                       (Owner : Owner.)

**Attribute**        Date

| Field | Notes |
|---|---|
| SaleDate (SCONE: SellsTo) | Date of sale. Year. |

**Attribute**        Nature of transaction

| Field | Notes |
|---|---|
| cld:custodialHistory (RSLPCDS: Collection) | Statement of any changes in ownership and custody of collection that are significant for its authenticity, integrity and intepretation. |
| Custodial History (RASCAL: Collection) | |
| Custodial History (RSLPCLD: tblCollections) | Statement about any changes in ownership and custody of collection. |
| Notes (SCONE: SellsTo) | Notes about sale. |
| SaleNature (SCONE: SaleNatureType) | Nature of sale. Values: Sale. - Donation. - Bequest. |
| SaleNatureNote (SCONE: SaleNatureType) | Note of nature of sale. |

**Attribute**        Rights

| Field | Notes |
|---|---|
| Rights (RIDING: Riding) | Rights held in and over collection. |

**Attribute**        Terms of transaction

| Field | Notes |
|---|---|
| cld:custodialHistory (RSLPCDS: Collection) | Statement of any changes in ownership and custody of collection that are significant for its authenticity, integrity and intepretation. |
| Custodial History (RASCAL: Collection) | |
| Custodial History (RSLPCLD: tblCollections) | Statement about any changes in ownership and custody of collection. |
| SaleRights (SCONE: SellsTo) | Rights associated with sale. |
| SaleTerms (SCONE: SellsTo) | Terms of sale. |

# Appendix 2: Attributes added to Heaney's analysis

The tables lists attributes added to Heaney's original set, as warrented by the sources.
Attributes are given in alphabetical order of name, grouped by Entity and Relationship.
Entities are given in alphabetical order, followed by Relationships.

| Entity | Attribute |
|---|---|
| | |
| Administrator: Corporate body | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Administrator: Person | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Collection | Notes |
| | Type |
| | |
| Collector: Corporate body | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Collector: Person | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Creator: Corporate body | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Creator: Person | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Creator's assignee: Corporate body | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Creator's assignee: Person | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |

| | |
|---|---|
| Owner: Corporate body | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Owner: Person | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Producer: Corporate body | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Producer: Person | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Producer's assignee: Corporate body | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Producer's assignee: Person | Email address |
| | Fax number |
| | Role |
| | Telephone number |
| | |
| Publication | Citation |

# Appendix 3: Source data elements not assigned to attributes

The table lists, for each source, data elements which were not assigned to the extended set of Heaney attributes.
Data elements are listed in alphabetical order of field name, grouped by table in alphabetical order.
The notes include data element descriptions and content standards.

**Source**   INFORM25

**Table**   Institution

| Field | Notes |
| --- | --- |
| inner | Flag to indicate at least one institution library is in inner M25 zone. |
| north | Flag to indicate at least one institution library is in north M25 zone. |
| south | Flag to indicate at least one institution library is in south M25 zone. |
| opac url | URL of online public access catalogue. |

**Table**   Library

| Field | Notes |
| --- | --- |
| home_url | URL of library homepage. |
| opac_url | URL of local online public access catalogue. |
| updated_by | |
| updated_time | |

**Source**    JISCCLSV

**Table**    tblAudienceLevel

| Field | Notes |
|---|---|
| Audience Level | Audience level of items in collection. dcterms:audience. MEG Educational Levels; http://www.ukoln.ac.uk/metadata/education/documents/ed-level.html. |

**Table**    tblCollection

| Field | Notes |
|---|---|
| Audience | Audience level of items in collection. dcterms:audience. MEG Educational Levels; http://www.ukoln.ac.uk/metadata/education/documents/ed-level.html. |
| JISC collecting area | JISC Collecting Area within which collection is categorised. List; http://www.jisc.ac.uk/dner/collections/strategy.htm#3. |
| Logo | URL of image of logo which is associated with collection. |

**Table**    tblCollectionDescription

| Field | Notes |
|---|---|
| Schema | |

**Table**    tblOAIPMHversion

| Field | Notes |
|---|---|
| Version Number | |

**Table**    tblOwner

| Field | Notes |
|---|---|
| Identifier | dc:identifer. |

**Table**    tblServiceOAI

| Field | Notes |
|---|---|
| Access conditions | Access conditions associated with service. cld:accessConditions. |
| Authentication Athens | Flag to indicate service requirement for Athens authentication. |
| Authentication basic HTTP | Flag to indicate service requirement for basic HTTP authentication. |
| Authentication IP address | Flag to indicate service requirement for IP address authentication. |
| Base URL | Base URL of repository. cld:locator. Value of baseURL element returned in response to Identify request. |
| Content provider/aggregator | Indication whether repository is Content Provider or Aggregator. Values: 1 (Content Provider) - 2 (Aggregator). |
| Description | |
| DOI | Flag to indicate service provides Digital Object Identifiers in its metadata records. |
| OAI Repository Identifier | Repository identifier or namespace-identifier. dc:identifier. OAI identifier scheme. |
| OAI Repository Name | Name of repository. dc:title. Value of repositoryName returned in response to Identify request. |
| Protocol version | Version of OAI PMH protocol supported by respository. Value of protocolVersion element returned in response to Identify request. Values: 1 (version 1.0) - 2 (version 1.1) - 3 (version 2.0). |
| See Also | Identifier of resource that provides further information about service (typically URL for informational page about service). cld:seeAlso. |

**Table**    tblServiceRSS

| Field | Notes |
|---|---|
| Access conditions | Access conditions associated with service. cld:accessConditions. |
| Authentication Athens | Flag to indicate service requirement for Athens authentication. |
| Authentication basic HTTP | Flag to indicate service requirement for basic HTTP authentication. |
| Authentication IP address | Flag to indicate service requirement for IP address authentication. |
| Content provider/aggregator | Indication whether repository is Content Provider or Aggregator. Values: 1 (Content Provider) - 2 (Aggregator). |
| Description | |
| DOI | Flag to indicate service provides Digital Object Identifiers in its metadata records. |
| RSS Channel Name | Name of channel. dc:title. Encoded as value of title child element of channel element. |
| RSS Channel URL | URL of channel. cld:locator. |
| RSS Schema version | Version of RSS schema used in channel. Values: 1 (http://my.netscape.com/publish/formats/rss-0.9.dtd) - 2 (http://my.netscape.com/publish/formats/rss-0.91.dtd) - 3 (http://my.netscape.com/rdf/simple/0.9/) - 4 (http://purl.org/rss/1.0/). |
| See Also | Identifier of resource that provides further information about service (typically URL for informational page about service). cld:seeAlso. |

**Table**    tblServiceUnstruct

| Field | Notes |
|---|---|
| Access conditions | Access conditions associated with service. cld:accessConditions. Free text. |
| Authentication Athens | Flag to indicate service requirement for Athens authentication. |
| Authentication basic HTTP | Flag to indicate service requirement for basic HTTP authentication. |
| Authentication IP address | Flag to indicate service requirement for IP address authentication. Description |
| DOI | Flag to indicate service provides Digital Object Identifiers in its metadata records. |
| OpenURL | Flag to indicate service provides OpenURLs in its metadata records. |
| See Also | Identifier of resource that provides further information about service (typically URL for informational page about service). cld:seeAlso. |
| Service Name | Name of service. dc:title. |
| URL | URL for service. cld:locator. |

**Table**    tblServiceZ

| Field | Notes |
|---|---|
| Access conditions | Access conditions associated with service. cld:accessConditions. |
| Authentication required | Flag to indicate service requirement for Z39.50 userid/password authentication. |
| Bath Profile Functional Area A | Indication of level of conformance with Bath Profile in Functional Area A. Values: 0 (Level 0) - 1 (Level 1) - 2 (Level 2) - 3 (none/unknown). |
| Bath Profile Functional Area B | Indication of level of conformance with Bath Profile in Functional Area B. Values: 0 (Level 0) - 1 (Level 1) - 2 (Level 2) - 3 (none/unknown). |
| Bath Profile Functional Area C | Indication of level of conformance with Bath Profile in Functional Area C. Values: 0 (Level 0) - 1 (Level 1) - 2 (Level 2) - 3 (none/unknown). |
| Content provider/broker | |
| Database name | Database name of target. |
| Description | |
| DOI | Flag to indicate service provides Digital Object Identifiers in its metadata records. |
| Host | Host name of target. cld:locator. |
| Name | Name of target. dc:title. |
| Port | Port number of target. cld:locator. |
| See Also | Identifier of resource that provides further information about service (typically URL for informational page about service). cld:seeAlso. |
| ServiceZ Id | |

**Source**   MIMAS

**Table**   MIMAS

| Field | Notes |
|---|---|
| Describes | |

**Source** MW

**Table** tblCollection

| Field | Notes |
|---|---|
| FindingAids | |
| FindingAidURL | |

**Table** tblJTCollectionRelated

| Field | Notes |
|---|---|
| RelationshipType | |

**Table** tblLocation

| Field | Notes |
|---|---|
| Email | |
| FaxNumber | International format. |
| TelephoneNumber | International format. |

**Source** RASCAL

**Table** Location

| Field | Notes |
|---|---|
| See Also | |

**Source**   RIDING

**Table**   Riding

| Field | Notes |
|---|---|
| Relation | Identifier of a second resource or collection and its relationship to current collection. Contains multiple relation-collection data in standard form. |
| Location.HostURL | URL of the homepage of library, organisation or department hosting collection. |
| Publisher | Name of entity responsible for making collection available in present form. Often the same as Owner. |
| Service.Supplier | Name of organisation supplying service or collection. |

**Source**   RSLPCDS

**Table**   Agent

| Field | Notes |
|---|---|
| dc:identifier | Formal identifier for agent. |

**Table**   Collection

| Field | Notes |
|---|---|
| cld:hasAssociation | Identifier or name of second collection that is associated by provenance with current collection. |
| cld:hasDescription | Identifier or name of second collection that describes current collection (for example, a catalogue). |
| cld:isDescriptionOf | Identifier or name of second collection that is described by current collection. |
| dcq:hasPart | Identifier or name of second collection contained within current collection. |
| dcq:isPartOf | Identifier or name of second collection that contains current collection. |

**Table**   Location

| Field | Notes |
|---|---|
| dc:identifier | Formal identifer for location. |

**Source**    RSLPCLD

**Table**    tblCollections

| Field | Notes |
|---|---|
| cldurn | |

**Table**    tblLocations

| Field | Notes |
|---|---|
| cldurn | |
| See Also | Identifier of resource that provides further information about location (typically URL of organisational home page). |

**Table**    tblPeople

| Field | Notes |
|---|---|
| cldurn | |

**Source**    SCONE

**Table**    AccessPrior

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    AccrualPolicy

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    Administers

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    Agent

| Field | Notes |
|---|---|
| IsPerson | Flag to indicate agent sub-type. |
| LastDate | Date of last amendment. |

**Table**    AgentCorp

| Field | Notes |
|---|---|
| HomepageURL | URL of corporate body homepage. |
| LastDate | Date of last amendment. |

**Table**    AgentPers

| Field | Notes |
|---|---|
| HomepageURL | URL of personal homepage. |
| LastDate | Date of last amendment. |

**Table** BathProfileAttributes

| Field | Notes |
|---|---|
| CompletenessName | |
| CompletenessValue | |
| LastDate | Date of last amendment. |
| PositionName | |
| PositionValue | |
| RelationName | |
| RelationValue | |
| SearchCode | Code for search. |
| SearchTitle | Title of search. |
| StructureName | |
| StructureValue | |
| TruncationName | |
| TruncationValue | |
| UsedInCairns | Flag to indicate attribute used in CAIRNS. |
| UseName | |
| Uses | |
| UseValue | |

**Table** ClassScheme

| Field | Notes |
|---|---|
| Code | Standard abbreviation for classification scheme. Values: DDC - LC - Local - Moys - UDC |
| LastDate | Date of last amendment. |
| Name | |

**Table** Collection

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |
| LocalIdentifier | Local identifier code or number of collection. |
| Sources | Note of sources of information. |

**Table** CollectionClassScheme

| Field | Notes |
|---|---|
| Active? | Flag to indicate classification scheme is in active use for collection. |
| Edition | Edition of classification scheme. |
| LastDate | Date of last amendment. |
| Notes | Notes about use of classification scheme for collection. |

**Table**   CollectionMeta

| Field | Notes |
|---|---|
| CCIGExtraSupplied? | |
| ClassSubjects? | |
| ISBNLocalIndex? | |
| ISBNX? | Flag to indicate upper-case X always used in ISBNs. |
| LastDate | Date of last amendment. |
| SetsMultiBibKey | |
| SetsMultiMediaKey | |

**Table**   CollectionSource

| Field | Notes |
|---|---|
| Acronym | Acronym for source of collection information. |
| Expansion | Full source of collection information. |
| LastDate | Date of last amendment. |

**Table**   CollectionSubjectScheme

| Field | Notes |
|---|---|
| Active? | Flag to indicate use of subject scheme is active. |
| Indexed? | Flag to indicate presence of subject index. |
| LastDate | Date of last amendment. |
| Notes | Notes about use of subject scheme for collection. |

**Table**   Collects

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**   ContractsWith

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**   Country

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**   CreatesContent

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**   DateRange

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**  DateRangeType

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |
| Type | Type of date range. Values: Accumulation - Contents |

**Table**  DelegatesTo

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**  Glossary

| Field | Notes |
|---|---|
| Definition | Definition of glossary term. |
| InCairns | Flag to indicate term for CAIRNS. |
| InRCO | Flag to indicate term for RCO. |
| InSconePublic | Flag to indicate term for SCONE public. |
| InSconeStaff | Flag to indicate term for SCONE staff. |
| LastDate | Date of last amendment. |
| Term | Glossary term. |

**Table**  GlossarySource

| Field | Notes |
|---|---|
| Code | Code for glossary source. |
| Description | Description of glossary source. |
| LastDate | Date of last amendment. |

**Table**  HasPartAgent

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |
| Rank | SLIR rank of child agent. |

**Table**  HasPartCollection

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**  HasPartLocation

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**  HasPublication

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**  HasRelatedCollection

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    HasSubjectDDC

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    HasSubjectLCSH

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    HoldsRightsTo

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    IsDescribedBy

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    IsLocatedIn

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    IsSubjectOf

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    LMS

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |
| Name | Name of library management system |
| RootName | Root of CAIRNS filename. |

**Table**    LMSSupplier

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |
| Name | Name of supplier. |
| WebsiteURL | URL of website of supplier. |

**Table**    Location

| Field | Notes |
|---|---|
| IsVirtual | Flag to indicate location sub-type. |
| LastDate | Date of last amendment. |
| SeeAlso | |

**Table**    LocationPhys

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**   LocationVirt

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |
| Notes | Notes about location. |

**Table**   MetaSchema

| Field | Notes |
|---|---|
| Code | Code for metadata schema. |
| Description | Description of metadata schema. |
| LastDate | Date of last amendment. |

**Table**   Miniclump

| Field | Notes |
|---|---|
| Description | Description of miniclump. |
| IndexA | Flag to indicate Author index. |
| IndexAK | Flag to indicate Author Keyword index. |
| IndexGK | Flag to indicate General Keyword index. |
| IndexISBN | Flag to indicate ISBN index. |
| IndexISSN | Flag to indicate ISSN index. |
| IndexS | Flag to indicate Subject index. |
| IndexSK | Flag to indicate Subject Keyword index. |
| IndexT | Flag to indicate Title index. |
| IndexTK | Flag to indicate Title Keyword index. |
| LastDate | Date of last amendment. |
| Title | Title of miniclump. |

**Table**   MiniclumpCollection

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**   Owns

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**   Produces

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**   RCOCollection

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**   RCOLevel

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    RCOSubject

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |
| SubjectCode | Code for subject. |
| SubjectNameOriginal | Original name of subject. |

**Table**    RCOSubjectGroup1

| Field | Notes |
|---|---|
| GroupCode | Code for subject group |
| GroupName | Name of subject group. |
| LastDate | Date of last amendment. |

**Table**    RCOSubjectGroup2

| Field | Notes |
|---|---|
| GroupCode | Code for subject group |
| GroupName | Name of subject group. |
| LastDate | Date of last amendment. |

**Table**    Region

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |
| SLICName | Original SLIC version of name. |

**Table**    SaleNatureType

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    SellsTo

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**    SubjectDDC

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |
| Notes | Scope notes of subject. |

**Table**    SubjectLCSH

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |
| Notes | Scope notes of subject. |

**Table**    SWOPSubject

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**   SWOPSubjectGroup

| Field | Notes |
|---|---|
| GroupName | Name of subject group. |
| LastDate | Date of last amendment. |

**Table**   Town

| Field | Notes |
|---|---|
| LastDate | Date of last amendment. |

**Table**   ZServerID

| Field | Notes |
|---|---|
| HoldingsNotes | Notes about holdings display. |
| IsActive | Flag to indicate Z server is active. |
| IsHoldings | Flag to indicate holdings can be displayed. |
| LastDate | Date of last amendment. |
| RootCode | Code for root of Z server filenames. |
| ZServerIP | IP address of Z server. |
| ZServerPort | Port number of Z server. |

# Appendix 4: Attributes without corresponding source data elements

The table lists Heaney attributes for which corresponding data elements could not be readily identified. Attributes are listed in alphabetical order of name, grouped by Entity or Relationship.
Entities are listed in alphabetical order, followed by Relationships.

| Entity | Attribute |
|---|---|
|  |  |
| Administrator: Corporate body | Date |
|  |  |
| Collection | Content: Audio-visual: Medium of performance |
|  | Content: Graphic: Medium |
|  | Content: Music notation: Notation system |
|  | Content: Realia: Medium |
|  | Content: Sound material: Language |
|  | Content: Sound material: Medium of performance |
|  | Content: Sound material: Type of sound |
|  | System of arrangement |
|  |  |
| Collector: Corporate body | Date |
|  | Place |
|  |  |
| Producer: Corporate body | Standard number |
|  |  |
| Creator: Corporate body | Date |
|  | Place |
|  |  |
| Creator's assignee: Corporate body | Date |
|  | Logo |
|  | Place |
|  |  |
| Location: Physical repository | Identifier |
|  |  |
| Owner: Corporate body | Date |
|  |  |
| Producer: Corporate body | Date |
|  | Logo |
|  | Place |
|  |  |
| Producer's assignee: Corporate body | Date |
|  | Logo |
|  | Place |
|  |  |
| **Relationship** | **Attribute** |
|  |  |
| Has-Part (Item) | Relation identifier |
| Holds-Rights-Of (Creator) | Date |
| Holds-Rights-Of (Producer) | Date |
| Is-Described-By | Currency |