

ISO 25964-2:2013-03 (E)

Information and documentation - Thesauri and interoperability with other vocabularies - Part 2: Interoperability with other vocabularies

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Symbols, abbreviations and other conventions	15
5	Objectives and identification	16
5.1	Objectives of interoperability and mapping	16
5.2	Identifying the elements to be mapped	16
6	Structural models for mapping across vocabularies	16
6.1	General	16
6.2	Model 1: Structural unity	17
6.3	Model 2: Direct-linked	17
6.4	Model 3: Hub structure	17
6.5	Selective mapping	19
6.6	Choosing among the options	20
7	Types of mapping	20
7.1	General	20
8	Equivalence mappings	21
8.1	General	21
8.2	Simple equivalence	21
8.3	Compound equivalence	22
9	Hierarchical mappings	25
10	Associative mappings	25
11	Exact, inexact and partial equivalence	26
11.1	General	26
11.2	Exact equivalence	26
11.3	Inexact equivalence	27
11.4	Partial equivalence	27
12	Use of mappings in information retrieval	28
12.1	General	28
12.2	Human mediation	28
12.3	Examples of mapping implementation	29
12.4	Conclusions and recommendations	30
13	Handling pre-coordination	31
13.1	General	31
13.2	Mapping between a thesaurus and a scheme with context-dependent captions	32

13.3	Mapping more complex classes	37
14	Techniques for identifying candidate mappings	38
14.1	General procedure	38
14.2	Computer assisted direct matching	40
14.3	Co-occurrence mapping	40
14.4	Other methods	40
15	Managing the data	41
15.1	Types of data to be recorded	41
15.2	Storing the data	43
15.3	Maintaining the mappings data	43
16	Display of mapped vocabularies	45
16.1	General	45
16.2	Single record display	46
16.3	Complete displays based on one of the vocabularies	48
16.4	Crosswalks	49
17	Classification schemes	50
17.1	Key characteristics and background	50
17.2	Semantic components and relationships compared with thesaurus components	53
17.3	Recommendations for mapping between a thesaurus and a classification scheme	55
18	Classification schemes used for records management	56
18.1	Key characteristics and background	56
18.2	Semantic components and relationships compared with thesaurus components	57
18.3	Recommendations for interoperability with a thesaurus	58
19	Taxonomies	59
19.1	Key characteristics and background	59
19.2	Types of taxonomies	60
19.3	Semantic components and relationships	61
19.4	Mapping between a thesaurus and a taxonomy	63
20	Subject heading schemes	67
20.1	Key characteristics and background	67
20.2	Semantic components and relationships	68
20.3	Mapping subject headings to and from thesaurus concepts	69
21	Ontologies	72
21.1	Key characteristics and background	72
21.2	Semantic components and relationships	73
21.3	Structural comparison between thesauri and ontologies	76
21.4	Interoperability with thesauri	77
22	Terminologies	78
22.1	Key characteristics and background	78
22.2	Semantic components and relationships compared with those of a thesaurus	79
22.3	Interoperability with thesauri	81
23	Name authority lists	81
23.1	Key characteristics and background	81
23.2	Semantic components and relationships	83
23.3	Mapping between a thesaurus and a name authority list	85
24	Synonym rings	87
24.1	Key characteristics and background	87
24.2	Semantic components and relationships	88
24.3	Interoperability with thesauri	89
	Annex A (informative) Management of terminological data in support of interoperability	90
	Bibliography	93
	Index	96