RDA and practical linked open data

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RDA

LRM and RDA

Consolidation and extension of FRBR, FRAD, FRSAD; compatible with CIDOC-CRM (and linked data/RDF)

All* RDA entities are compatible refinements of LRM
* except Person (non-humans excluded)

RDA refines LRM attributes and relationships (strings and things) as RDF sub-properties.

RDA "4-fold path" extension accommodates strings and things

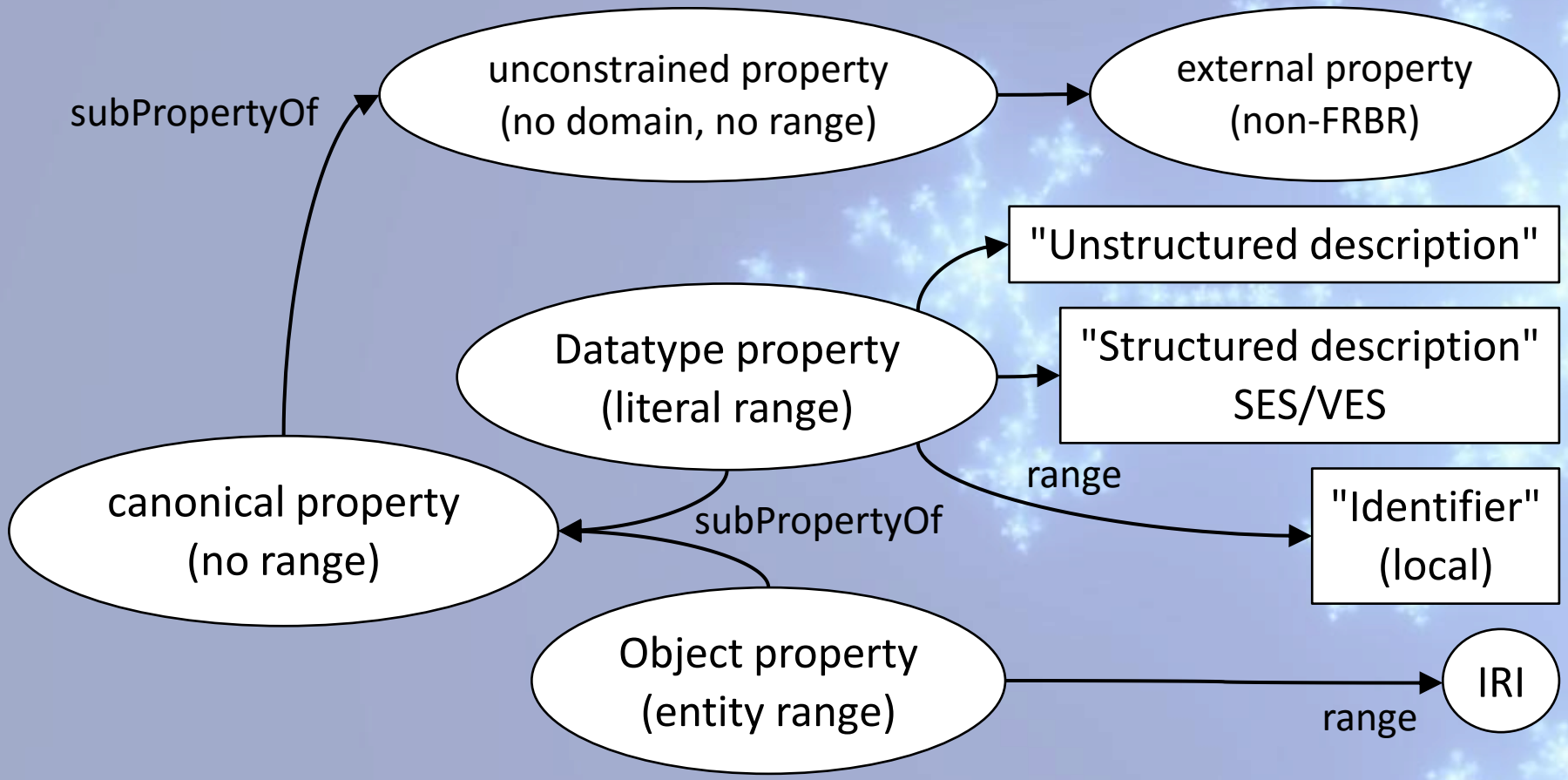
4-fold path for values of related entities*

Value	Type	Processing	Examples
Unstructured description	String	Keywords can be extracted	Transcription (manifestation statement); notes
Structured description	String	Sub-elements can be extracted	Aggregated statement with SES; preferred label from VES, KOS, authority file; constructed access point
Identifier	String		Identifier from named scheme; notation from VES, KOS, authority file
IRI	Thing		

* And entity attributes

4-fold path in linked data

The “4-fold path” supports catalogue cards, flat file schema, RDBMS, and linked data (RDA database implementation scenarios)



RDA

Element Sets

Label	Owner
RDA Item datatype properties	ALA Publishing
RDA Item object properties	ALA Publishing
RDA Item properties	ALA Publishing
RDA Manifestation datatype properties	ALA Publishing
RDA Manifestation object properties	ALA Publishing
RDA Manifestation properties	ALA Publishing
RDA meta element properties	ALA Publishing
RDA Nomen datatype properties	ALA Publishing
RDA Nomen object properties	ALA Publishing
RDA Nomen properties	ALA Publishing
RDA Place datatype properties	ALA Publishing
RDA Place object properties	ALA Publishing
RDA Place properties	ALA Publishing

RDA

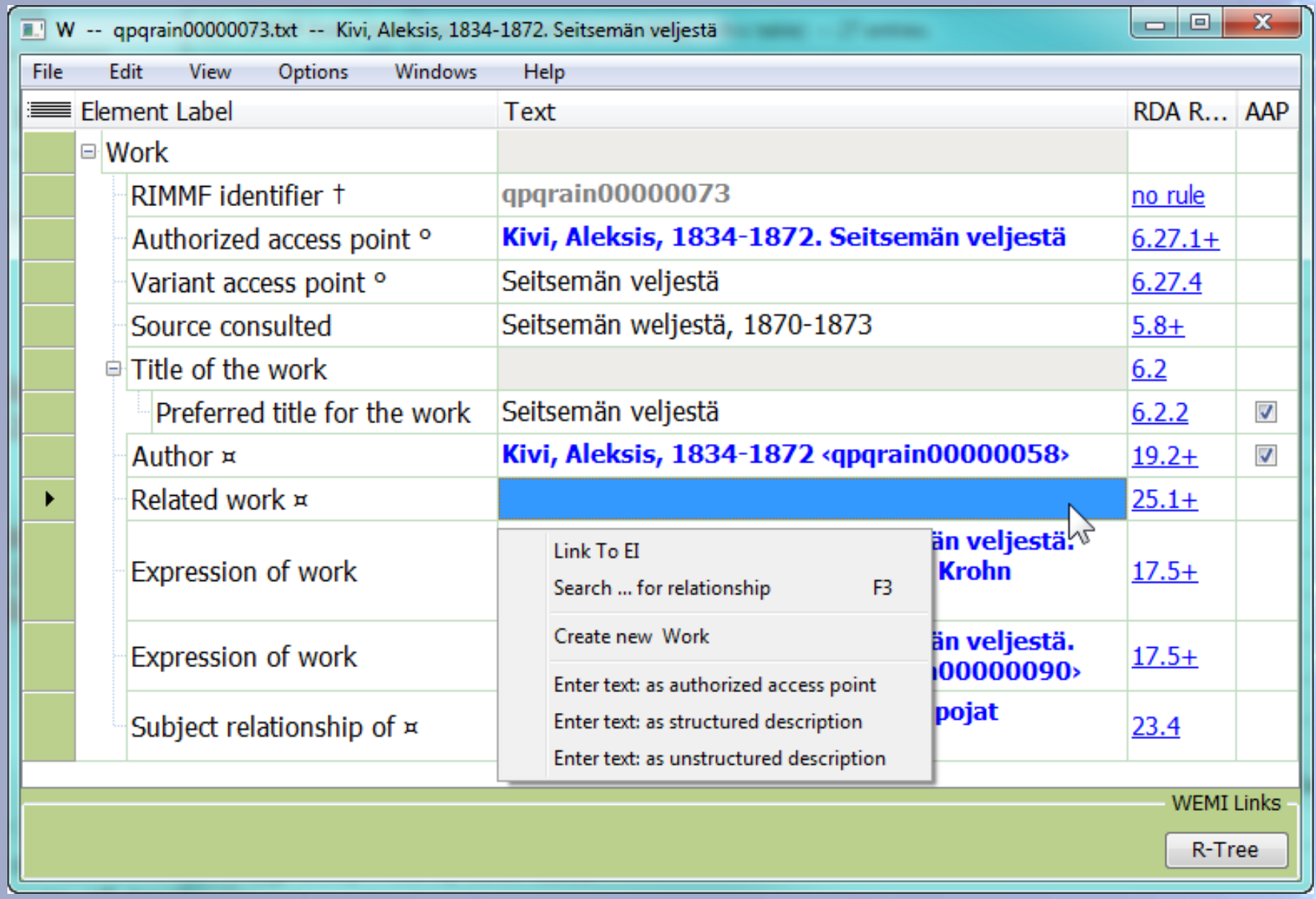
Element Sets: RDA Manifestation datatype properties
Elements: has publication statement

Detail | Statements | History

Profile property	Language	Object
uri	English	http://rdaregistry.info/Elements/m/datatype/P30111
type		property
name	English	publicationStatement
lexicalAlias	English	http://rdaregistry.info/Elements/m/datatype/publicationStatement.en
domain		http://rdaregistry.info/Elements/c/C10007
status		Published
label	English	has publication statement
subPropertyOf		http://rdaregistry.info/Elements/m/P30111

Canonical property

RDA


W -- qpqrain00000073.txt -- Kivi, Aleksis, 1834-1872. Seitsemän veljestä
File
Edit
View
Options
Windows
Help
Element Label
Text
RDA R...
AAP
Work
RIMMF identifier †
qpqrain00000073
no rule
Authorized access point °
Kivi, Aleksis, 1834-1872. Seitsemän veljestä
6.27.1+
Variant access point °
Seitsemän veljestä
6.27.4
Source consulted
Seitsemän weljestä, 1870-1873
5.8+
Title of the work
6.2
Preferred title for the work
Seitsemän veljestä
6.2.2
Author ¤
Kivi, Aleksis, 1834-1872 ‹qpqrain00000058›
19.2+
Related work ¤
25.1+
Expression of work
17.5+
Expression of work
17.5+
Subject relationship of ¤
23.4
Link To EI
Search ... for relationship
F3
Create new Work
Enter text: as authorized access point
Enter text: as structured description
Enter text: as unstructured description
WEMI Links
R-Tree

RDA

Practical applications

Property	Value	Notes	Path
Publication statement (ms)	London: MACMILLAN AND CO. AND NEW YORK. 1891	Manifestation statement transcribed by machine	Unstructured
Publication statement	London ; New York : Macmillan and Co., 1891	ISBD (SES)	Structured
Publication statement	210 ##$aLondon$aNew York$cMacmillan and Co.$d1891	UNIMARC (SES)	Structured
Place of publication	London (England)	RDA guidance	Structured
Place …	7011781	Getty TGN	Identifier
Place …	http://dbpedia.org/resource/London	DBPedia	IRI

Maps and inferences

RDA unconstrained properties map to non-FRBR/LRM properties; e.g. ISBD

Simple sub-property inferencing generates data at lowest common dumbness level

Losses: VES and SES; identifier and IRI distinction; all paths collapse to unstructured description

Strategic challenges

Building the global from the local is essential

But the global infrastructure needs coordination

Who, when, how?

Triples store(s) for data

Maps between element sets

Maps between value vocabularies

Data triple maintenance services

Linked data catalogues

RDA

Thank you!

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- http://access.rdatoolkit.org/
- http://www.rdaregistry.info/
- http://www.rda-rsc.org/

RDA