LAM-SKOS-AP 0.8

Goal

This document describes the application profile needed to describe the assets in the LAM project.

LAM classification table maintains a set of concepts that represent groups of documents uniquely distinguished by the column keywords which in fact means title fragments.

Latter on this asset will have to manage depndencies between the associated classes (cdm class, resource type, document type etc.) and mandatory present/absent properties. This dependecy management shall be performed in a proto-application-profile fashion.

TODO:

- create the initial asset in VB3 using the the first 5 columns 20 Mar 2019
- meet and explain 27 Mar 2019
- develop the SRC-AP-LAM 1.0 to be able to express the first part of the excel table
- develop the SRC-AP-LAM 2.0 to be able to express the second/last part of the excel table
- update the project in VB accordingly.

Partial Input



Application Profile

URI pattern

http://publications.europa.eu/resources/authority/lam/*

skos:Concept class

This class is subclass of skos:Concept and represents the backbone for maintaining Legal Analisys Methodology. This is a meta-class and roughtly corresponds to rdfs:Class or owl:Class. The instances of this class represent classes of legal resources in Cellar.

Dom ain	Property	Range	Excel column	Min cardi nality		Value Restrictions	Comment
skos: Conc ept	skos: exactMatch	URI	CDM_class	1	*	CDM Work	sub-property of skos:related; perhaps skos:closeMatch is more appropriate here.
skos: Conc ept	skos: editorialNot e@en	LangLiter al	CDM_class_co mment	0	*		

skos: Conc ept	lam:dts	Literal	DTS	1	1		sub-property of skos:notation; part of cdm:resource_legal_id_celex
skos: Conc ept	lam:dtt	Literal	DTT	1	1		sub-property of skos:notation; part of cdm:resource_legal_id_celex
skos: Conc ept	cdm: work_has_re source-type	URI	Resource type	1	1	ResourceTy pe AT	cdm:resource-type is a class not a property. candidate properties are cdm:resource_legal_has_type_act_concept_type_act cdm:work_has_resource-type
skos: Conc ept	lam:ojType	Literal	OJ type	1	1	free text, coming from PlanJO	sub-property of skos:notation; this eventually should evolve into a controleld list or removed because it seems quite similar to resource type. candidate property: cdm:official_journal
skos: Conc ept	cdm: keywords@er	LangLiter al	Keywords	1	1		should evolve into a set of values split by the new line; originally created for search purposes; to uniquely identify a concept/document type all these keyqords must appear in the document. candidate property: cdm:keyword (not cdm:keywords as currently set)
skos: Conc ept	skos: example@en	LangLiter al	Example EN	0	*		
skos: Conc ept	skos: example@fr	LangLiter al	Example FR	0	*		
skos: Conc ept	skos: editorialNot e@en	LangLiter al	Additional comment	0	*		
skos: Conc ept	cdm: created_by	URI	Author	1	*	Corporate body, Country	
skos: Conc ept	skos: example	Literal	Examples from EUR-Lex	0	*		
skos: Conc ept	sh:property	lam: PropertyC onstraint	All columns from <i>M to the</i> last one.	1	*		Starting from column M (EuroVoc) until the last one, each column or pair of columns (for annotated properties) in Excel should become a property constraint instance in the LAM class.

lam:PropertyConstraint class

This class is subclass of sh:Shape and represents the main mechanism for expressing class restrictions, i.e. constraints that apply to all instances of this class. The aim is to come as close as possible to SHACL language.

This class should be instantiated as constraint descriptions for various (cdm) properties of LAM classes.

The constraint definition follows the description of the SHACL core components (https://www.w3.org/TR/shacl/#core-components). The mechanisms relevant for LAM project are the caardinality (min,max) constraints and the controlled list of values.

Requirement: each cdm property (currently columns in the Excel file) needs to be restricted in a certain way, either by value, and/or by an additional annotation property (in case of various cdm:dates).

Domain Property Range Min Max Value cardinality Restrictions	Comment
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lam: PropertyC onstraint	sh:path	URI (rdf: Property)	1	1	cdm property	
lam: PropertyC onstraint	sh: minCount	xsd: integer	0	1		The minimum cardinality. Node shapes cannot have any value for sh:minCount. A property shape has at most one value for sh:minCount. The values of sh:minCount in a property shape are literals with datatype xsd:integer.
lam: PropertyC onstraint	sh: maxCount	xsd: integer	0	1		The maximum cardinality. Node shapes cannot have any value for sh:maxCount. A property shape has at most one value for sh:maxCount. The values of sh:maxCount in a property shape are literals with datatype xsd:integer.
lam: PropertyC onstraint	sh:class	URI	0	1	URI of a controlled list concept scheme, under the asusmption that the class equivalance is established to the concept scheme.	The type of all value nodes. The values of sh:class in a shape are IRIs.
lam: PropertyC onstraint	sh: datatype	URI	0	1	URI of any XSD or other data types.	The datatype of all value nodes (e.g., xsd:integer). The values of sh:datatype in a shape are IRIs. A shape has at most one value for sh:datatype.
lam: PropertyC onstraint	sh: hasValue	URI /Literal	0	1		A specific required value.
lam: PropertyC onstraint	sh:in	SHACL	0	1	A list of accepted values	A SHACL list that has the allowed values as members. Each value of sh:in in a shape is a SHACL list. A shape has at most one value for sh:in.
lam: PropertyC onstraint	sh:name	Literal	0	1		how to refer to it in documentation, i.e. a human friendly name
lam: PropertyC onstraint	sh: description	Literal	0	1		describe the menaing of this constraint in the documentation
lam: PropertyC onstraint	lam: annotated WithProper ty	URI (rdf: Property)	0	1	cdm annotation property	cdm proporty the owl:Annotation is created for. The first assumption is that there is maximum one annotation propoerty needed to annotate the cdm:propoerty. For example the cdm date propoerties, such as cdm: esource_legal_date_deadline, are annotated with annot: comment_on_date only. The second assumption is that the only relevant control on the annotation propoerty is the value range.
lam: PropertyC onstraint	lam: annotation PropertyRa nge	URI	0	1	a controlled list such as FD tables	this constraint is tightly coupled to lam:annotatedWithProperty

Note: the annotation constraint specification using *lam:annotatedWithProperty* and *lam:annotationPropertyRange* is a shortcut to creating two types of constraint specifications, which would complicate the LAM model in VB3. The decission to merge constraints is an attempt to optimise and ease the work of the content managers.

Involved controlled vocabularies

- fd_013
- fd_014

- fd_040
- fd 100
- fd_130
- fd_301
- fd_330
- fd_335
- fd_340
- fd 345
- fd_350
- 14_550
- fd_361
- fd_365fd_370
- 14_570
- fd_375
- fd_395
- fd_396
- fd 400
- fd_578
- http://publications.europa.eu/resource/dataset/corporate-body
- http://publications.europa.eu/resource/dataset/corporate-body
- http://publications.europa.eu/resource/dataset/country
- http://publications.europa.eu/resource/dataset/dir-eu-legal-act
- http://publications.europa.eu/resource/dataset/eurovoc
- http://publications.europa.eu/resource/dataset/language
- http://publications.europa.eu/resource/dataset/place
- http://publications.europa.eu/resource/dataset/procjur
- http://publications.europa.eu/resource/dataset/procresult
- http://publications.europa.eu/resource/dataset/resource-type
- http://publications.europa.eu/resource/dataset/role-qualifier
- http://publications.europa.eu/resource/dataset/subject-matter
- http://publications.europa.eu/resource/dataset/treaty

OJ type