

To: Joint Steering Committee for Development of RDA
From: Gordon Dunsire, Chair, JSC RDA/ONIX Framework Working Group
Subject: Proposals for a namespace for the Framework

Abstract

The paper reviews proposals for a namespace for the RDA/ONIX Framework, and presents the data required to populate the namespace.

Introduction

A task for the JSC RDA/ONIX Framework Working Group is to review the proposals in 6JSC/Chair/5 for a namespace for the RDA/ONIX Framework (ROF).

Final versions of the namespace data are given in tables in the Appendix:

- Table 1: ROF classes
- Table 2: ROF carrier properties
- Table 3: ROF content properties
- Table 4: ROF value vocabularies

The data for definitions, scope notes, and labels is taken from the Framework. The URIs are opaque, following current JSC practice. The apparent order of the URIs is not intended to reflect any language bias.

Element set

A single element set for ROF classes and properties is used, with namespace abbreviation "rof", instead of the three in the original proposal, for general classes, ROF carrier classes and properties, and ROF content classes and properties. A smaller number of element sets is simpler and easier to implement, manage, and use. The Working Group regards ROF as complete in itself, and does not anticipate that it will expand beyond carrier and content categories. This does not preclude further collaboration on other vocabularies for concepts shared between RDA and ONIX as a separate activity.

Generation

The Generation attribute in the ROF version 1.0 should not have been included as the original working group considered it to be a relationship between carriers rather than an attribute, and it was not completely removed from an earlier draft. It has been omitted from the namespace data.

Property domains and ranges

The Working Group prefers to leave the ROF properties unconstrained by domains or ranges. The ROF classes are primarily intended for applications which need to distinguish base and qualified categories, and it does not seem necessary to explicitly assign them to properties.

Value vocabularies

There are 14 value vocabularies, with namespace abbreviations:

rofch	character
rofem	extension mode
rofer	extension requirement
rofet	extension termination
rofhf	housing format
rofid	image dimensionality
rofin	image movement
rofin	interaction
rofit	intermediation tool
rofrm	revision mode
rofr	revision requirement
rofrt	revision termination
rofsm	sensory mode
rofsf	storage medium format

Storage medium format

The namespace omits the three ROF sub-values for the primary value "sheet" in StorageMediumFormat: "card", "slide", and "fiche". There is only a partial reference to them in the Framework, and the Working Group assumes that they were included in an earlier draft but subsequently excluded to allow such sub-values to be local extensions to the value vocabulary.

Data upload

The ROF namespace data are stored in spreadsheets in a format suitable for uploading into the RDA Registry.

Appendix

Table 1: ROF Classes

URI	rdfs:label	skos:definition	rdfs:subClassOf	rdfs:subClassOf
rof:C10009	Base carrier category	A base category defined only in terms of an attribute or attributes of the carrier of a resource.	rof:C10003	rof:C10004
rof:C10003	Base category	A resource category that is wholly defined in terms of primary values that are specified in the RDA/ONIX Framework.	rof:C10006	
rof:C10008	Base content category	A base category defined only in terms of an attribute or attributes of the content of a resource.	rof:C10003	rof:C10005
rof:C10004	Carrier category	A class of resources defined in terms of specific values for one or more attributes of the means and methods by which content is conveyed.	rof:C10006	
rof:C10006	Category	A class of resources defined in terms of specific values for one or more attributes (e.g., all resources for which the value for Character is language).		
rof:C10005	Content category	A class of resources defined in terms of specific values for one or more attributes of the intellectual or artistic content of a resource.	rof:C10006	
rof:C10002	Qualified carrier category	A resource category that qualifies a base carrier category.	rof:C10007	rof:C10004
rof:C10007	Qualified category	A category that qualifies a base category by the addition of a value or values that are not specified in the RDA/ONIX Framework.	rof:C10006	
rof:C10001	Qualified content category	A resource category that qualifies a base content category.	rof:C10007	rof:C10005

Table 2: ROF Carrier properties

URI	rdfs:label	skos:definition	skos:scopeNote
rof:P10001	has applied material	A material applied to the base material for purposes of infixing the content of the resource.	Applies to resources conveying content on a physical carrier. Resources conveying content by means of broadcasting or online transmission will have an AppliedMaterial value not applicable.
rof:P10007	has base material	An underlying physical material on or in which the content of a resource is stored.	Applies to resources conveying content on a physical carrier. Resources conveying content by means of broadcasting or online transmission will have a BaseMaterial value not applicable.
rof:P10004	has encoding format	A schema, standard, etc., used to encode the content of a resource.	
rof:P10003	has fixation method	A method or process by which the content of a resource is infixing or embedded in the carrier.	
rof:P10006	has fixation tool	A tool used to infix the content of a resource.	
rof:P10009	has housing format	The physical format of the encasing for the storage medium.	Applies to resources conveying content on a physical carrier. Resources conveying content by means of broadcasting or online transmission will have a HousingFormat value not applicable.
rof:P10002	has intermediation method	A method intended to be applied to the carrier to allow the content of the resource to be perceived.	

rof:P10005	has intermediation tool	A tool intended to be applied to the carrier to enable the content of the resource to be perceived.	IntermediationTool identifies any physical or digital tool required to enable the resource content to be perceived as intended, including tools required to decode, decrypt or otherwise circumvent security measures.
rof:P10008	has storage medium format	The physical form of the material on which the content of the resource is stored.	

Table 3: ROF content properties

URI	rdfs:label	skos:definition	skos:scopeNote
rof:P10011	has interaction	A capacity to respond to actions performed by the user in relation to the content of the resource.	
rof:P10012	has character	A fundamental form of communication in which the content of a resource is expressed.	
rof:P10013	has sensory mode	A human sense through which the content of a resource is intended to be perceived.	This attribute refers to a human sense through which the content of a resource is intended to be perceived, as distinct from a sense through which it might be perceived either incidentally or with the aid of an intermediating tool other than one which would normally be expected to be used (e.g., a device for transforming digitally encoded alphabetic characters into simulated voice).
rof:P10014	has form or genre	A literary, musical, artistic, etc., form or genre associated with the content of a resource.	
rof:P10015	has extension mode	A means by which the content of the resource is expected to be extended after initial release.	
rof:P10016	has revision mode	A means by which the content of the resource is expected to be revised after initial release.	
rof:P10017	has capture method	A process used to capture the content of a resource.	CaptureMethod is the method used in the initial capturing the content, not the method used to fix the content onto the carrier (c.f., FixationMethod).
rof:P10018	has subject	A topic, discipline, place, event, person, etc., associated with the content of a resource; what the content is about.	
rof:P10019	has purpose	A use for which the content of a resource is intended.	

rof:P10020	has extension requirement	An assessment of the necessity of extension of the content of the resource after initial release for its integrity.	
rof:P10021	has revision requirement	An assessment of the necessity of revision of the content of the resource after initial release for its integrity.	
rof:P10022	has extension termination	An expectation as to the period of extension of the content of the resource after initial release.	
rof:P10023	has revision termination	An expectation as to the period of revision of the content of the resource after initial release.	
rof:P10024	has image dimensionality	The number of spatial dimensions in which the image content of a resource is intended to be perceived.	Applies only to content with a Character value image.
rof:P10025	has image movement	The perceived presence or absence of movement in the image content of a resource.	Applies only to content with a Character value image.

Table 4: ROF value vocabularies

Character			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofch:T1001	language	Content expressed in human or machine-readable language.	
rofch:T1002	music	Content expressed in musical form.	
rofch:T1003	image	Content expressed in line, shape, mass and/or other visually-realized forms.	
rofch:T1004	other	Content expressed in a form other than language, music, or image.	Includes other forms of communicating phenomena, qualities, etc., perceived directly through the human senses—e.g., natural or machine-generated sounds, aromas, textures, etc.—as well as those that cannot be perceived directly through the human senses—e.g., electromagnetic waves.
Extension mode			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofem:T1001	integration	Extension through the integration of added content.	
rofem:T1002	succession	Extension through the successive release of discrete segments, parts, issues, volumes, supplements, etc.	
rofem:T1003	not applicable	The content is not expected to be extended after initial release.	
Extension requirement			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofer:T1001	essential	Extension of the content after initial release is essential for its integrity.	
rofer:T1002	inessential	Extension of the content after initial release is not essential for its integrity.	
rofer:T1003	not applicable	The content is not expected to be extended.	
Extension termination			

URI	skos:prefLabel	skos:definition	skos:scopeNote
rofet:T1001	determinate	The period of extension of the content has a predetermined end.	
rofet:T1002	indeterminate	The period of extension of the content has no predetermined end.	
rofet:T1003	not applicable	The content is not expected to be extended.	
Housing format			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofhf:T1001	binding	A gathering of one or more sheets in a fixed order, with or without an affixed outer cover.	
rofhf:T1002	flipchart	A hinging device holding two or more sheets designed for use on an easel.	
rofhf:T1003	reel	A flanged spool for holding a roll.	
rofhf:T1004	cartridge	A rectangular casing fitted with a single reel holding a roll.	
rofhf:T1005	cassette	A rectangular casing fitted with two reels holding a roll.	
rofhf:T1006	not applicable	The storage medium is not encased in a housing.	
Image dimensionality			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofid:T1001	two-dimensional	Image content that is intended to be perceived in two-dimensions.	
rofid:T1002	three-dimensional	Image content that is intended to be perceived in three-dimensions.	
rofid:T1003	not applicable	Content that is not of Character image.	
Image movement			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofim:T1001	still	Image content that is perceived to be static.	
rofim:T1002	moving	Image content that is perceived to be moving.	
rofim:T1003	not applicable	Content that is not of Character image.	

Interaction			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofin:T1001	interactive	The content responds to actions performed by the user (e.g., searches, commands, selections).	
rofin:T1002	non-interactive	The content does not respond to actions performed by the user.	
Intermediation tool			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofit:T1001	microform reader	A device that magnifies microforms for reading with the unaided eye.	
rofit:T1002	microscope	An instrument that magnifies objects by means of a lens or lenses so as to reveal details invisible to the naked eye.	
rofit:T1003	projector	An optical device containing a light source and lens system for projecting an image on a screen or other surface.	
rofit:T1004	stereoscope	An optical device with two lenses enabling each eye to see a separate image of essentially the same content to give the effect of three-dimensions.	
rofit:T1005	audio player	A device designed to play audio recordings.	
rofit:T1006	audiovisual player	A device designed to play audiovisual recordings.	
rofit:T1007	computer	A device designed to perform prescribed sequences of operations on electronic data.	
rofit:T1008	not required	No intermediation tool is required (i.e., the content of the resource is directly and adequately perceivable through one or more of the human senses).	
Revision mode			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofrm:T1001	correction	Revision through the release of notices of errors, corrections, addenda, etc.	

rofrm:T1002	not applicable	The content is not expected to be revised after initial release.	
rofrm:T1003	substitution	Revision through the release of pages, chapters, parts, volumes, etc., directly to replace previously released counterparts, including the replacement of the entire resource with a new version.	
rofrm:T1004	transformation	Revision through the incorporation of changes (including deletions) directly into the previously released content.	
Revision requirement			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofr:T1001	essential	Revision of the content after initial release is essential for its integrity.	
rofr:T1002	inessential	Revision of the content after initial release is not essential for its integrity.	
rofr:T1003	not applicable	The content is not expected to be revised.	
Revision termination			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofrt:T1001	determinate	The period of revision of the content has a predetermined end.	
rofrt:T1002	indeterminate	The period of revision of the content has no predetermined end.	
rofrt:T1003	not applicable	The content is not expected to be revised.	
Sensory mode			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofsm:T1001	sight	Content that is intended to be perceived through sight.	
rofsm:T1002	hearing	Content that is intended to be perceived through hearing.	
rofsm:T1003	touch	Content that is intended to be perceived through touch.	
rofsm:T1004	taste	Content that is intended to be perceived through taste.	

rofsm:T1005	smell	Content that is intended to be perceived through smell.	
rofsm:T1006	none	Content that is not intended to be perceived through the human senses.	
Storage medium format			
URI	skos:prefLabel	skos:definition	skos:scopeNote
rofsf:T1001	sheet	A flat piece of thin material (paper, plastic, etc.), usually rectangular in shape.	
rofsf:T1002	strip	A short length of material (paper, film, tape, etc.).	
rofsf:T1003	roll	A wound length of material (paper, film, tape, etc.).	
rofsf:T1004	disc	A flat, circular piece of material (plastic, metal, etc.).	
rofsf:T1005	sphere	A round, ball-shaped form.	
rofsf:T1006	cylinder	A roller-shaped form.	
rofsf:T1007	chip	A small wafer of semiconductor silicon.	
rofsf:T1008	file server	A computer storage device with hardware and software connections to a communications network.	