



METADATA APPLICATION PROFILE, VERSION 3.1

Release date: 2014-07-03

DOCUMENT URI: <http://dp.la/info/map>

Introduction

This release includes changes that better align the model with the realities of the aggregated metadata in the DPLA data store. We anticipate continuing to evolve this model over time in response to ongoing community input and to extend the functionality provided by DPLA in its API and its public portal.

This version is designed to build on the experience of the Europeana Data Model (EDM). In addition, it incorporates feedback from the DPLA community and digital hub pilot participants to create a balanced framework that allows us to accommodate existing and emerging data models for library, archive, and museum resources.

It is not possible for this documentation to account for all of properties used by current or future DPLA content providers. The following documentation provides developers a baseline of properties available via DPLA services.

EUROPEANA DATA MODEL (EDM)

EDM enables the integration of descriptions provided by content providers that respects the properties they have assigned to resources. Developers using DPLA services should refer to the Europeana Data Model (pro.europeana.eu/edm-documentation) for additional information.

DIGITAL PUBLIC LIBRARY OF AMERICA (DPLA)

DPLA has chosen to publish this documentation without a formal specification in RDF of the DPLA class and properties. This is, in part, to allow time to gather additional feedback from the community. A preliminary release of the RDF schema was developed in April 2013 (<http://dp.la/about/schema>); it will be updated with the release of V4 in 2015.

In addition to EDM specific classes and properties, DPLA MAP reuses definitions from the following sources:

- Resource Description Framework (RDF) and the RDF Schema (RDFS) (<http://www.w3.org/TR/rdf-concepts/>)
- OAI Object Reuse and Exchange (ORE) (<http://www.openarchives.org/ore>)

- Dublin Core namespaces for elements (<http://purl.org/dc/elements/1.1/>, abbreviated as DC), terms (<http://purl.org/dc/terms/>, abbreviated as DCTERMS) and types (<http://purl.org/dc/dcmitype/>, abbreviated as DCMITYPE)
- The Basic Geo (WGS84 lat/long) Vocabulary (<http://www.w3.org/2003/01/geo/>)

NOTES FOR VERSION 3.1

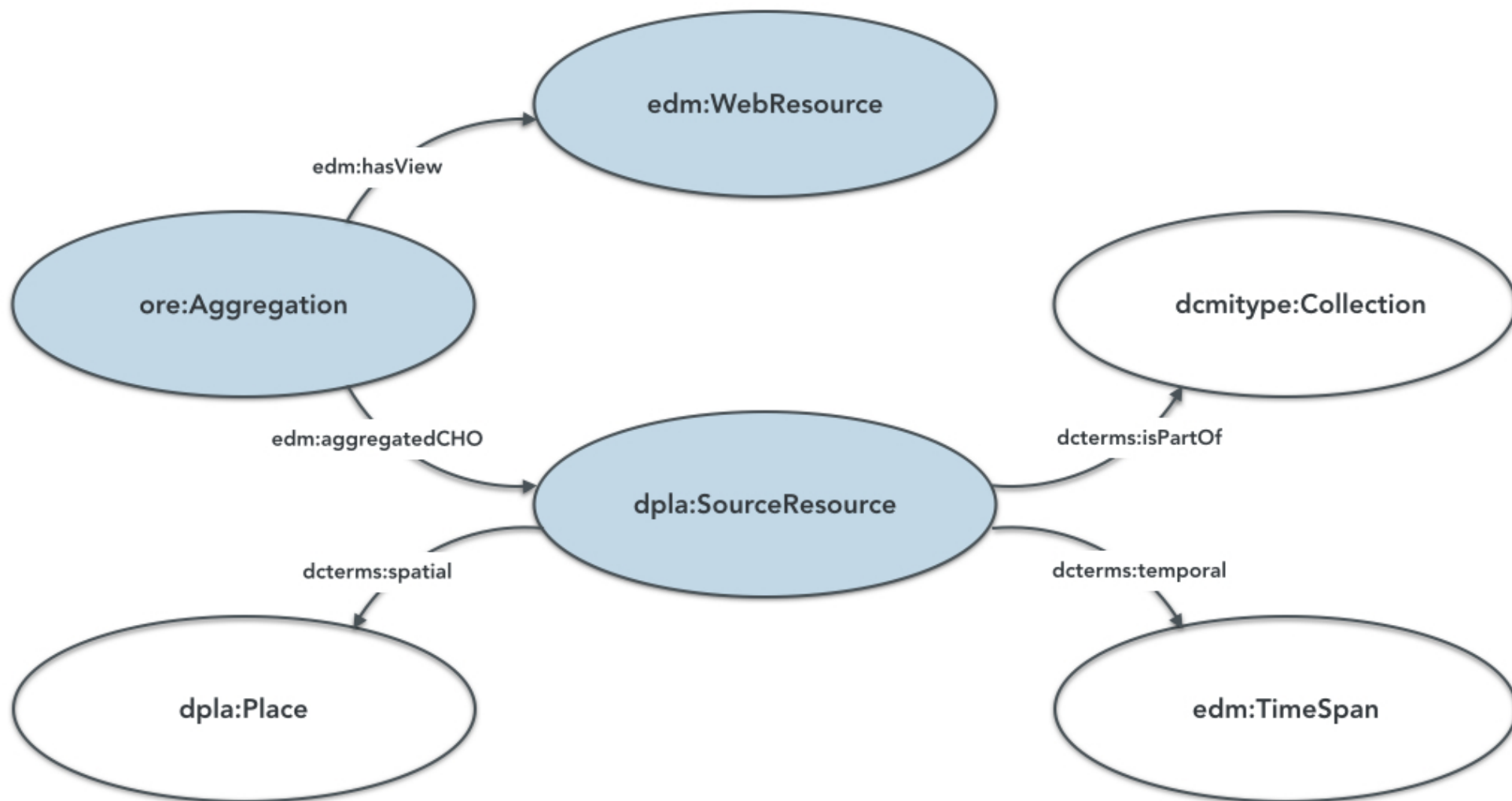
While a complete change log is available at the end of this document, a few changes to the document warrant noting here.

- In the tables below, "SR" is an abbreviation for "SourceResource" and refers in all cases to the dpla:SourceResource class.
- Labels in **bold** display in the DPLA portal (as of the time of this document's release).
- Labels with asterisks (*) indicate values provided by partners that are required, required when available, or strongly recommended.

Subject*	dc:subject			Topic of SR
Temporal Coverage	dcterms:temporal			Temporal characteristics of SR

Digital Public Library of America Domain Model, v3.1

Core classes highlighted in blue.



DPLA MAP classes and properties

A. class= "dpla:SourceResource"

This is a subclass of "edm:ProvidedCHO," which comprises the SRs (in EDM called "cultural heritage objects" or "CHOs") about which DPLA collects descriptions. These descriptions are of the SRs, not the digital representations of them.

Label	Property, JSON-LD expression	Sub- property of	Range	Usage	Value Type, Origination	Vocab Schema	Syntax Schema	Obligatio n
Collection*	dcterms:isPartOf, .sourceResource.collection	dc:relation	dcmitype: Collection	URI of collection or aggregation of which SR is a part	URI, DPLA			min 0, max unbounded
Contributor	dc:contributor, .sourceResource.contributor			Entity responsible for making contributions to SR	Literal and/or URI, Partner			min 0, max unbounded
Creator*	dc:creator, .sourceResource.creator			Entity primarily responsible for making SR	Literal and/or URI, Partner			min 0, max unbounded
Date*	dc:date, .sourceResource.date		edm: TimeSpan	Date value as supplied by data provider	Literal and/or URI, Partner		W3CDTF, EDTF, local	min 0, max unbounded
Description	dc:description, .sourceResource.description			Includes but is not limited to: an abstract, a table of contents, or a free-text account of SR	Literal, Partner			min 0, max unbounded
Extent	dcterms:extent, .sourceResource.extent			Size or duration of SR	Literal, Partner			min 0, max unbounded
Format*	dc:format, .sourceResource.format			File format, physical medium or dimensions of SR	Literal and/or URI, Partner			min 0, max unbounded
Identifier	dc:identifier, .sourceResource.identifier			ID of SR within a given context	Literal and/or URI, Partner			min 0, max unbounded
Language*	dc:language, .sourceResource.language			Language(s) of SR. Strongly recommended for text materials.	Literal, Partner	dcterms: iso6393		min 0, max unbounded

Place*	dcterms:spatial, .sourceResource.spatial		dpla: Place	Spatial characteristics of SR (usually a literal value in this version)	Literal and/or URI, Partner			min 0, max unbounded
Publisher*	dc:publisher, .sourceResource.publisher			Entity responsible for making the SR available, typically the publisher of a text (not edm:dataProvider or edm:provider)	Literal and/or URI, Partner			min 0, max unbounded
Relation	dc:relation, .sourceResource.relation			Related resource	Literal and/or URI, Partner			min 0, max unbounded
Rights*	dc:rights, .sourceResource.rights			Information about rights held in and over SR. Typically, rights information includes a statement about various property rights associated with SR, including intellectual property rights.	Literal, Partner			min 1, max unbounded
Genre	edm:hasType, .sourceResource.specType	edm: isRelatedTo		Captures categories of objects in a given field. Does not capture aboutness.	Literal and/or URI, DPLA (and/or Partner)	AAT		min 0, max unbounded
State Located In	edm:currentLocation, .sourceResource.stateLocatedIn	dcterms: spatial		Name of the state in which the SR is held	Literal, DPLA (extrapolated from Data Provider value) OR provided by Partner	dcterms: iso3166 [1,2]		0 to 1
Subject*	dc:subject .sourceResource.subject			Topic of SR. <i>In JSON-LD, the property is an object with a name property, which maps to skos:prefLabel.</i>	Literal and/or URI, Partner			min 0, max unbounded
Temporal Coverage	dcterms:temporal, .sourceResource.temporal	dc:coverag e		Temporal characteristics of SR	Literal and/or URI, Partner			min 0, max unbounded
Title*	dc:title .sourceResource.title			Primary name given to SR	Literal, Partner			min 1, max unbounded
Type*	dc:type, .sourceResource.type			Nature or genre of SR	Literal and/or URI, Partner	dcmitype		min 0, max unbounded

B. class="dcmitype:Collection"

Note: *dcmitype:Collection* objects can be expressed either as top-level objects in the DPLA API, or as components of an item's *dpla:SourceResource* description. The JSON-LD expression describes the properties used when expressed as part of a *dpla:SourceResource*.

Label	Property, JSON-LD Expression	Sub- property of	Range	Usage	Value Type, Origination	Vocab Schema	Syntax Schema	Obligation
Collection Title*	dc:title, .sourceResource.collection.title			Name of the collection or aggregation	Literal or URI, Partner			0 to 1
Collection Description*	dc:description, .sourceResource.collection.description			Free-text account of aggregation, for example an abstract or content scope note	Literal, Partner			0 to 1

C. class="dpla:Place"

Label	Property, JSON-LD Expression	Sub- property of	Range	Usage	Value Origination	Vocab Schema	Syntax Schema	Obligation
Name	skos:prefLabel, .sourceResource.spatial.name			Place name as mapped from partner data	Literal, Partner			1
City	dpla:city, .sourceResource.spatial.city	dcterms: spatial		Name of a city (literal)	DPLA (extrapolated from partner data)			0 to 1
State	dpla:state, .sourceResource.spatial.state	dcterms: spatial		ISO 3166-2 code for a U.S. state or territory	DPLA (extrapolated from partner data)		dcterms: iso3166[1, 2]	0 to 1

County	dpla:county, .sourceResource.spatial.county	dcterms: spatial		Name of a U.S. county (literal)	DPLA (extrapolated from partner data)			0 to 1
Region	dpla:region, .sourceResource.spatial.region	dcterms: spatial		Name of a region, e.g., "Upstate New York" (literal)	DPLA (extrapolated from partner data)			0 to 1
Country	dpla:country, .sourceResource.spatial.country	dcterms: spatial		ISO 3166-1 code for a country	DPLA (extrapolated from partner data)		dcterms: iso3166[1, 2]	0 to 1
Coordinates	wgs84_pos:lat_long, .sourceResource.spatial.coordina tes			Latitudinal and longitudinal coordinates for the most specific geographic location provided	DPLA (extrapolated from partner data)		wgs84	0 to 1

D. class="edm:TimeSpan"

Note: edm:TimeSpan within the DPLA MAP applies to both the dc:date and dc:temporal properties of dpla:SourceResource. The expression "[property]" should stand in for the appropriate property depending on the context of use.

Label	Property, JSON-LD Expression	Sub- property of	Range	Usage	Value Type, Origination	Vocab Schema	Syntax Schema	Obligation
Original Source Date*	skos:prefLabel .[property].displayDate			Date value as supplied by data provider	Literal, Partner		W3CDTF, EDTF, local	1
Begin	edm:begin .[property].begin			Date timespan started	Literal, DPLA		EDTF	0 to 1
End	edm:end .[property].end			Date timespan finished	Literal, DPLA		EDTF	0 to 1

E. class="edm:WebResource"

Contains the attributes of the digital representation of the web resource, not SR.

Label	Property, JSON-LD Expression	Sub-property of	Range	Usage	Value Type, Origination	Vocab Schema	Syntax Schema	Obligation
File Format	dc:format, <i>.[property].format</i>			Web resource format	Partner	dcterms:imt		min 0, max unbounded
Rights	dc:rights, <i>.[property].rights</i>			Statement about various property rights associated with the webResource, including intellectual property rights.	Partner			min 0, max unbounded
Standardized Rights Statement*	edm:rights, <i>.[property].edmRights</i>	dc:rights		A property that will be mandatory in future releases. The value given here should be the rights statement that applies to the digital representation as given (for example) in edm:object or edm:isShownAt/By, when these resources are not provided with their own edm:rights. This property requires a controlled set of values.	URI, Partner		dcterms:URI	0 to 1

F. class="ore:Aggregation"

The aggregation of attributes that apply to the SR as a whole, grouped from edm:WebResource and dpla:SourceResource.

Label	Property, JSON-LD Expression	Sub-property of	Range	Usage	Value Type, Origination	Vocab Schema	Syntax Schema	Obligation
Aggregated SR	edm:aggregatedCHO, <i>.aggregatedCHO</i>		edm:ProvidedCHO	Unambiguous ID to SR	URI, DPLA		dcterms:URI	1
Data Provider*	edm:dataProvider, <i>.dataProvider</i>	dcterms:provenance		The organization or entity that supplies data to DPLA through a Provider. If a Data Provider provides data directly to DPLA (i.e. not via an aggregator) the values in edm:dataProvider and edm:provider will be	Literal or URI, Partner			1

				the same.				
Digital Resource Source Record	dpla:originalRecord, <i>.originalRecord</i>	ore:aggregates		Complete original record.	Literal, DPLA			1
Has View	edm:hasView, <i>.hasView</i>	ore:aggregates	edm:Web Resource	Relates an ore:Aggregation about a dpla:SourceResource with an edm:WebResource	Ref, DPLA		dcterms:URI	min 0, max unbounded
Intermediate Provider	dpla:intermediateProvider, <i>.intermediateProvider</i>	edm:hasMet		An intermediate organization that selects, collates, or curates data from a Data Provider that is then aggregated by a Provider from which DPLA harvests. The organization must be distinct from both the Data Provider and the Provider in the data supply chain.	Literal or URI, Partner			min 0, max 1
Is Shown At*	edm:isShownAt, <i>.isShownAt</i>	edm:hasView	edm:Web Resource	Unambiguous URL reference to digital object in its full information context.	URL, Partner		dcterms:URI	1
Object*	edm:object, <i>.object</i>	edm:hasView	edm:Web Resource	Unambiguous URL to the DPLA content preview.	URI, DPLA		dcterms:URI	1
Provider*	edm:provider, <i>.provider</i>			In the DPLA context, a Service or Content Hub providing access to the Data Provider's content. May contain the same value as Data Provider. (literal value in this version)	Literal or URI, Partner			1
Standardized Rights Statement*	edm:rights, <i>.rights</i>	dc:rights		A property that will be mandatory in future releases. The value given here should be the rights statement that applies to the digital representation as given (for example) in edm:object or edm:isShownAt/By, when these resources are not provided with their own edm:rights. This property requires a controlled set of values.	Ref, Partner		dcterms:URI	0 to 1

Change Log (2014-07-03)

- Clarified expression of dc:subject in JSON-LD.
- Added JSON-LD expressions for data as represented in DPLA repository and API.
- Added dpla:intermediateProvider to ore:Aggregation.
- Revised usage notes for edm:provider and edm:dataProvider.
- Range of dc:date and dc:temporal on dpla:SourceResource class set to edm:TimeSpan.
- Properly declared the superproperties of edm:hasView, edm:isShownAt, edm:rights, and edm:object.
- Clarified use of skos:prefLabel on edm:TimeSpan, dc:subject, and dpla:Place.
- Updated value origination field throughout document to provide guidance about value formats and entity responsible for providing the value.
- Added "Genre" property to dpla:SourceResource class.
- Changed obligations for "Collection Title" and "Collection Description" in dc:Collection class.
- Added "Standardized Rights Statement" property to edm:WebResource class.
- Changed obligation for "File format" in edm:WebResource class.
- Added "Standardized Rights Statement" property to edm:WebResource class.
- Added indicators for required fields and fields that display in the DPLA portal.