UNIVERSIDADE FEDERAL DE VIÇOSA CENTRO DE CIÊNCIAS EXATAS E TECNOLÓGICAS DEPARTAMENTO DE INFORMÁTICA

# Technical Description of Dublin Core Application Profile to Analysis Patterns (DC2AP)

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### I. INTRODUCTION

The DC2AP is a Dublin Core Application Profile to analysis patterns description. This Dublin Core Application Profile was developed by the Information Systems Group of Federal University of Viçosa based on the template proposed by Pantoquilho et al. (2003) and Raminhos et al. (2006) to specify analysis patterns. The main objectives of DC2AP are to improve the retrieving and reuse of analysis patterns through a more precise way to be treated by a computer, thus offering important information missing before.

#### II. A NOTE ON DUBLIN CORE APPLICATION PROFILES

A Dublin Core Application Profile (DCAP) specifies how the Dublin Core standard is used to specify some class in a specific domain or community. A DCAP describes:

- 1. The set of terms used in a class description.
- 2. How the terms in this set are deployed in this class description. This includes
  - a. the types of resources described by descriptions within these description sets,
  - b. the properties referenced in statements in those descriptions, and how those properties are used to describe resources of the specified type.
  - c. requirements for the occurrence of statements using a specified property,
  - d. constraints on the sets of values which are referenced in a statement using a specified property (vocabulary encoding schemes), and
  - e. constraints on the datatypes of the value strings occurring in a statement using a specified property (syntax encoding schemes)

The terms description set, description, property, value, vocabulary encoding scheme, value representation, value string, syntax encoding scheme, and related description are used in the sense they are used in the DCMI Abstract Model (DCAM) (Powell et al., 2007).

This document is not a description of an RDF/XML format. There may be multiple bindings of this DCAP, to RDF/XML and to other syntaxes.

#### III. VOCABULARIES/NAMESPACES USED IN THIS DCAP

All references to properties and classes in DC metadata descriptions are made using URI. In this document, Qualified Names of the form prefix ":" local-part are sometimes used as abbreviations for URI which identify metadata terms. Prefixes are assumed to be associated with Namespace Names (URI) as follows, and the corresponding URI for the term is constructed by concatenating the Namespace Name and the local-part:

Vocabulary Title	Namespace Name	Prefix
DC2AP Element Set	http://purl.org/dc2ap/elements/	dc2ap
DC2AP Vocabulary Encoding Schemes	http://purl.org/dc2ap/ves/	dc2apves
DC2AP Type Vocabulary	http://purl.org/dc2ap/type/	dc2aptp
DC2AP Format Vocabulary	http://purl.org/dc2ap/format/	dc2apft
The Dublin Core Metadata Element Set, v1.1	http://purl.org/dc/elements/1.1/	dc
Dublin Core Terms	http://purl.org/dc/terms/	dcterms
Dublin Core Type Vocabulary http://purl.org/dc/dcmitype/		dcmitype
RDA Group 1 Elements	oup 1 Elements http://rdvocab.info/Elements/	
RDA Roles	http://rdvocab.info/roles/	rdaroles

#### IV. HOW TO READ THE TABLES IN THIS DOCUMENT

The section "Describing a Analysis Pattern" describe how a set of terms (properties, classes, vocabulary encoding schemes, syntax encoding schemes) is used to construct a DC metadata description of a resource of the specified type.

#### A. Class

This section describes how the class, the type of resource, to which the metadata description applies is defined.

- Class URI: The URI by which the class is referenced in a DC metadata description.
- Qualified Name for Class: The Qualified Name which is typically used as an abbreviation for the class URI.
- **Defined By:** The name and identifier of the metadata vocabulary from which the class is drawn.
- **Type of Term:** An indication of the type of the term, according to the typology of the DCMI Abstract Model
- Subclass Of: Class of which the current class is a subclass.
- Label: The short label provided for the class by its owner/maintenance agency.
- **Definition:** The definition provided for the class by its owner/maintenance agency.
- Comments: Additional information about the class provided by its owner/maintenance agency.

#### B. Property

This section describes how a specified property is used in a statement within a DC metadata description. The use of the property is described using the following attributes:

- **Property URI:** The URI by which the property is referenced in a DC metadata description.
- **Qualified Name for Property:** A unique name/identifier for the property. It is presented as a Qualified Name, but is an abbreviation for the property URI.
- **Defined By:** The name and identifier of the metadata vocabulary from which the property is drawn.
- **Type of Term:** An indication of the type of the term, according to the typology of the DCMI Abstract Model
- **Subproperty Of:** A property of which the current property is a subproperty.
- Source Label: The short label provided for the property by its owner/maintenance agency.
- Label in this DCAP: A short human-readable label that provides an indication of how the property is to be used in a DC metadata description of a resource of the specified type. The label does not appear in the description. It *may* be used to provide a descriptor for fields in displays of descriptions to human readers, but there is no requirement for display applications to use this label.
- Source Definition: The definition provided for the property by its owner/maintenance agency.
- Usage in this DCAP: A description of how the property is to be applied in a description of a resource of the specified type. This information supplements the definition of the property provided by its owner/maintenance agency.
- **Comments for this DCAP:** Additional information about the use of the property in a description of a resource of the specified type, typically on the values and their representation.
- Uses Vocabulary Encoding Scheme: The unique names/identifiers of vocabulary encoding schemes from which values for the property should be drawn. Names are presented as Qualified Names, but are abbreviations for URIs. The URI is used to refer to the vocabulary encoding scheme in DC metadata descriptions. If no vocabulary encoding scheme is listed, then the DCAP

does not specify a vocabulary encoding scheme from which values should be drawn. However the definition and usage of the property may determine that values of only certain types are appropriate. For example, the value of the dc:creator property must be an entity capable of action.

- Value URI: An indication of whether, if a statement using the property (and vocabulary encoding scheme, where specified) is present, a value URI is to be used. Mandatory a value URI is required; Mandatory, Fixed a specified value URI is required; Optional = a value URI is optional<sup>1</sup>; Not permitted = a value URI is not permitted
- Value String: An indication of whether, if a statement using the property (and vocabulary encoding scheme, where specified) is present, a value string is to be used. Mandatory a value string is required; Mandatory, Fixed a specified value string is required; Optional = a value string is optional<sup>1</sup>; Not permitted = a value string is not permitted
- **Syntax Encoding Scheme(s):** The unique names/identifiers of datatypes from which value strings for the property should be drawn. Names are presented as Qualified Names, but are abbreviations for URIs. The URI is used to refer to the datatype in DC metadata descriptions. If no datatype is listed, then the DCAP does not specify a datatype from which value strings should be drawn.
- **Rich Representation:** An indication of whether, if a statement using the property (and vocabulary encoding scheme, where specified) is present, a rich representation is to be used. Mandatory a rich representation is required; Optional = a rich representation is optional<sup>1</sup>; Not permitted = a rich representation is not permitted
- **Obligation:** An indication of whether a statement using this property is required in a DC metadata description. Mandatory = a statement using this property is required, Conditional = a statement using this property is mandatory if exists the corresponding information, Optional = a statement using this property is optional
- **Condition:** Information on any additional conditions on the obligation to include a statement referencing the property in a description of a resource of the specified type
- **Minimum Occurrences:** The minimum number of statements referencing this property that can occur in a description of a resource of the specified type
- **Maximum Occurrences:** The maximum number of statements referencing this property that can occur in a description of a resource of the specified type

#### C. Vocabulary Encoding Scheme

This section describe the vocabulary encoding schemes referenced above is described.

- Vocabulary Encoding Scheme URI: The URI by which the vocabulary encoding scheme is referenced in a DC metadata description.
- **Qualified Name for Vocabulary Encoding Scheme:** The Qualified Name which is typically used as an abbreviation for the class URI.
- **Defined By:** The name and identifier of the metadata vocabulary from which the vocabulary encoding scheme is drawn.
- **Type of Term:** An indication of the type of the term, according to the typology of the DCMI Abstract Model
- Label: The short label provided for the vocabulary encoding scheme by its owner/maintenance agency.
- **Definition:** The definition provided for the vocabulary encoding scheme by its owner/maintenance agency.
- **Comments for this DCAP:** Additional information about the use of the vocabulary encoding scheme in this DCAP.

<sup>&</sup>lt;sup>1</sup> For each value, **at least one** of the following components must be present: a value URI, a rich representation, a value string or a (related) description.

- See Also: A resource which provides further information about the vocabulary encoding scheme.
- Used as Vocabulary Encoding Scheme For: The type of resource and the property for which the vocabulary encoding scheme provides values.

#### D. Syntax Encoding Scheme

This section describe the syntax encoding schemes referenced above is described.

- **Syntax Encoding Scheme URI:** The URI by which the syntax encoding scheme is referenced in a DC metadata description.
- **Qualified Name for Syntax Encoding Scheme:** The Qualified Name which is typically used as an abbreviation for the class URI.
- **Defined By:** The name and identifier of the metadata vocabulary from which the syntax encoding scheme is drawn.
- **Type of Term:** An indication of the type of the term, according to the typology of the DCMI Abstract Model
- Label: The short label provided for the syntax encoding scheme by its owner/maintenance agency.
- **Definition:** The definition provided for the syntax encoding scheme by its owner/maintenance agency.
- **Comments for this DCAP:** Additional information about the use of the syntax encoding scheme in this DCAP.
- See Also: A resource which provides further information about the syntax encoding scheme.
- Used as Syntax Encoding Scheme For: The type of resource and the property for which the syntax encoding scheme provides value strings.

#### V. DESCRIBING AN ANALYSIS PATTERN

#### A. Class description

#### Analysis Pattern [dc2aptp: analysisPattern]

Class URI	http://purl.org/dc2ap/type/analysisPattern			
Qualified Name for Class	dc2aptp: analysisPattern			
Defined By	DC2AP Type Vocabulary			
	http://purl.org/dc2ap/type/			
Type of Term	Class			
SubClass Of	[n/a]			
Label	bel Analysis Pattern			
Definition     The intention of analysis pattern is to encapsulate specialist knowledge and preused for solve a particular recurring problem during the analysis phase of t development.				
Comments	Is a computational artifact of re-use developed for the analysis phase of the software development.			

#### B. Properties descriptions

### Identifier [dc:identifier]

Property URI	http://purl.org/dc/elements/1.1/identifier					
Qualified Name for Property	dc:identifier	dc:identifier				
Defined By	Dublin Core Me	etadata Element Se	et, v1.1			
	http://purl.org/d	c/elements/1.1/				
Type of Term	Property					
Subproperty Of	[n/a]					
Source Label	Identifier					
Label in this DCAP	[n/a]					
Source Definition	An unambiguou	s reference to the	resource within a given cor	ntext.		
Usage in this DCAP			analysis pattern to differen	tiate it from others, so it is		
	necessary that e	very analysis patt	ern has identification.			
Comments for this DCAP			ole to recover the version of			
	documented. Th	e identifier must l	be a number, string or URI.			
<b>Uses Vocabulary Encoding</b>	[not specified]					
Scheme						
	Value	Value	Syntax	Rich		
	URI	String	Encoding	Represent		
		-	Scheme(s)	_		
	Optional Mandatory [dcterms:URI] Not permitted					
Obligation	Mandatory					
Condition						
Minimum Occurrences	1					
Maximum Occurrences	1					

### Title [dc:title]

Property URI	http://purl.org/dc/elements/1.1/title				
Qualified Name for Property	dc:title	dc:title			
Defined By	Dublin Core Metadata l	Element Set, v1.1			
	http://purl.org/dc/eleme	ents/1.1/			
Type of Term	Property				
Subproperty Of	[n/a]				
Source Label	Title				
Label in this DCAP	[n/a]				
Source Definition	A name given to the res	source.			
Usage in this DCAP	Formal name by which	an analysis pattern	is widely known.		
Comments for this DCAP	This name should be generic, allowing for adjustments for different domains of the same problem covered by the pattern. The title must be a string.				
Uses Vocabulary Encoding Scheme	[not specified]				
	Value	Value	Syntax	Rich	
	URI	String	Encoding Scheme(s)	Represent	
	Not permitted	Mandatory		Not permitted	
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

### Alternative Title [dcterms:alternative]

E						
Property URI	http://purl.org/dc/terr	http://purl.org/dc/terms/alternative				
Qualified Name for Property	dcterms:alternative					
Defined By	Dublin Core Terms	Dublin Core Terms				
	http://purl.org/dc/terms/					
Type of Term	Property					
Subproperty Of	[dc:title] Dublin Core	e Metadata Element S	Set, v1.1			
	http://purl.org/dc/elei	ments/1.1/title				
Source Label	Alternative Title					
Label in this DCAP	[n/a]					
Source Definition	Any form of the title	used as a substitute of	or alternative to the fo	ormal title of the resource.		
Usage in this DCAP	Alternative names us	ed to substitute the fo	ormal name of an ana	lysis pattern.		
Comments for this DCAP	Different alternative names can be registered, preferably using separate iterations of this					
	element refinement. The alternative title must be a string.					
<b>Uses Vocabulary Encoding</b>	[not specified]					
Scheme						
	Value	Value	Syntax	Rich		
	URI	String	Encoding	Represent		
			Scheme(s)			
	Not permitted	Mandatory		Not permitted		
Obligation	Optional					
Condition	Analysis patterns don't always have alternative names, so don't fill this element refinement					
	doesn't affect the retrieval of information.					
Minimum Occurrences	0					
Maximum Occurrences	unbounded					

### Creator [dc:creator]

Property URI	http://purl.org/dc/elements/1.1/creator					
Qualified Name for Property	dc:creator	dc:creator				
Defined By	Dublin Core Metadat	ta Element Set, v1.1				
	http://purl.org/dc/ele	ments/1.1/				
Type of Term	Property					
Subproperty Of	[n/a]					
Source Label	Creator					
Label in this DCAP	[n/a]					
Source Definition	An entity primarily r	esponsible for making	g the resource.			
Usage in this DCAP	Creator's name of an	analysis pattern.				
Comments for this DCAP	The creator can be a person or company. Different creators can be registered, preferably using separate iterations of this element. The creator must be a string.					
Uses Vocabulary Encoding	[not specified]					
Scheme	Value	Value	Symtom	Rich		
	Value URI	Value String	Syntax Encoding Scheme(s)	Represent		
	Not permitted Mandatory Not permitted					
Obligation	Mandatory					
Condition	[n/a]					
Minimum Occurrences	1					
Maximum Occurrences	unbounded					

### Subject [dc:subject]

Subject [ucisubject]					
Property URI	http://purl.org/dc/elements/1.1/subject				
Qualified Name for Property	dc:subject	dc:subject			
Defined By	Dublin Core Metada	Dublin Core Metadata Element Set, v1.1			
	http://purl.org/dc/ele	ments/1.1/			
Type of Term	Property				
Subproperty Of	[n/a]				
Source Label	Subject				
Label in this DCAP	[n/a]				
Source Definition	The topic of the reso	urce.			
Usage in this DCAP			h an analysis pattern	is applied, thus providing a	
	brief contextualization	on.			
Comments for this DCAP			rably using separate i	iterations of this element.	
	The subject must be	a string.			
<b>Uses Vocabulary Encoding</b>	[not specified]				
Scheme					
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
			Scheme(s)		
	Not permitted Mandatory Not permitted				
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	unbounded				

### Description [dc:description]

Duon orten UDI	http://pupl.ong/do/olomo	nts/1 1/decomintion			
Property URI		http://purl.org/dc/elements/1.1/description			
Qualified Name for Property	dc:description				
Defined By	Dublin Core Metadata	Dublin Core Metadata Element Set, v1.1			
	http://purl.org/dc/eleme	http://purl.org/dc/elements/1.1/			
Type of Term	Property				
Subproperty Of	[n/a]				
Source Label	Description				
Label in this DCAP	[n/a]				
Source Definition	An account of the resou	irce.			
Usage in this DCAP	Agglutinating element	of descriptions aimed	in the contextualizat	ion of an analysis pattern	
	over various aspects.				
Comments for this DCAP	This element is not fille	ed, because their data	are concentrated in it	ts element refinements.	
<b>Uses Vocabulary Encoding</b>	[not specified]				
Scheme					
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
			Scheme(s)		
	Not permitted	Not permitted		Not permitted	
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

### Problem [dc2ap:problem]

1 Toblem [uczap.problem]				
Property URI	http://purl.org/dc2ap/elements/problem			
Qualified Name for Property	dc2ap:problem			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/	elements/		
Type of Term	Property			
Subproperty Of	[dc:description] Dubl http://purl.org/dc/eler			
Source Label	Problem			
Label in this DCAP	[n/a]			
Source Definition	Brief textual descript	ion about the problen	n solved by an analys	sis pattern.
Usage in this DCAP	This element refinement was defined for this DCAP.			
Comments for this DCAP	The problem must be a string.			
Uses Vocabulary Encoding	[not specified]			
Scheme	E			
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
			Scheme(s)	
	Not permitted	Mandatory		Not permitted
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	1			

### Motivation [dc2ap:motivation]

Property URI	http://purl.org/dc2ap/elen	ments/motivation		
Qualified Name for Property	dc2ap:motivation			
Defined By	DC2AP Element Set			
·	http://purl.org/dc2ap/elements/			
Type of Term	Property			
Subproperty Of	[dc:description] Dublin C http://purl.org/dc/element		ent Set, v1.1	
Source Label	Motivation			
Label in this DCAP	[n/a]			
Source Definition		ocuments peculiariti	es of the problem	nted analysis pattern. This which should be solved by
Usage in this DCAP	This element refinement was defined for this DCAP.			
Comments for this DCAP	Different motivations car refinement. The motivation		rably using separa	ate iterations of this element
Uses Vocabulary Encoding Scheme	[not specified]			
	Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
	Not permitted	Mandatory		Not permitted
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	unbounded			

Example [dc2ap:example]				
Property URI	http://purl.org/dc2ap/ele	ements/example		
Qualified Name for Property	dc2ap:example			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/ele	ements/		
Type of Term	Property			
Subproperty Of	[dc2ap:motivation] DC2 http://purl.org/dc2ap/ele			
Source Label	Example			
Label in this DCAP	[n/a]			
Source Definition		seful to facilitate t	• •	attern can be applied. This t seeks to illustrate the use
Usage in this DCAP	This element refinemen		his DCAP.	
Comments for this DCAP	Different examples can refinement. The example			ate iterations of this element
Uses Vocabulary Encoding Scheme	[not specified]			
Scheme	Value	Value	Syntax	Rich
	URI	String	Encoding Scheme(s)	Represent
	Not permitted Mandatory Not permitted			
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	unbounded			

### Known Uses [dc2ap:knownUses]

Known Oses [de2dp.know]				
Property URI	http://purl.org/dc2ap/elen	nents/knownUses		
Qualified Name for Property	dc2ap:knownUses			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/elen	nents/		
Type of Term	Property			
Subproperty Of	[dc2ap:motivation] DC24 http://purl.org/dc2ap/elen			
Source Label	Known Uses			
Label in this DCAP	[n/a]			
Source Definition	element refinement is int	ended to share exponent	eriences of using of ribe briefly the appli	ns and applications. This the analysis pattern, since cation or system that used
Usage in this DCAP	This element refinement			
Comments for this DCAP				e iterations of this element
	refinement. The known u	ses must be a string	•	
Uses Vocabulary Encoding Scheme	[not specified]			
Scheme	Value	Value	Suntar	Rich
	URI	String	Syntax Encoding Scheme(s)	Represent
	Not permitted	Mandatory		Not permitted
Obligation	Optional			
Condition	[n/a]			
Minimum Occurrences	0			
Maximum Occurrences	unbounded			

#### Context [dc2ap:context]

Context [desupreontext]				
Property URI	http://purl.org/dc2ap/eler	ments/context		
Qualified Name for Property	dc2ap:context			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/eler	ments/		
Type of Term	Property			
Subproperty Of	[dc:description] Dublin (	Core Metadata Ele	ement Set, v1.1	
	http://purl.org/dc/elemen	ts/1.1/description		
Source Label	Context			
Label in this DCAP	[n/a]			
Source Definition				pattern. The domains where
				ossible causes of recurrence
	are described by this element refinement. This description should be general, enabling new			ald be general, enabling new
	domains of recurrence of			
Usage in this DCAP	This element refinement was defined for this DCAP.			
Comments for this DCAP	The context must be a string.			
Uses Vocabulary Encoding	[not specified]			
Scheme				
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
			Scheme(s)	
	Not permitted	Mandatory		Not permitted
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	1			

### Publisher [dc:publisher]

Property URI	http://purl.org/dc/elemen	ts/1.1/publisher		
Qualified Name for Property	dc:publisher			
Defined By	Dublin Core Metadata Element Set, v1.1			
	http://purl.org/dc/elements/1.1/			
Type of Term	Property			
Subproperty Of	[n/a]			
Source Label	Publisher			
Label in this DCAP	[n/a]			
Source Definition	An entity responsible for	making the resour	ce available.	
Usage in this DCAP	Names of responsible for	r providing the ar	alysis pattern for th	ne public. Publishers can be
	people or companies.			
Comments for this DCAP			ferably using separa	te iterations of this element.
	The publisher must be a string.			
<b>Uses Vocabulary Encoding</b>	[not specified]			
Scheme				
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
			Scheme(s)	
	Not permitted	Mandatory		Not permitted
Obligation	Optional			
Condition	In situations in which t	he creators of the	e analysis pattern a	are also responsible for the
	availability for the public	e, it is not necessar	y to register them ag	gain as publishers.
Minimum Occurrences	0			
Maximum Occurrences	unbounded			

Contributor [	dc:contributor]
---------------	-----------------

	· .			
Property URI	http://purl.org/dc/element	ts/1.1/contributor		
Qualified Name for Property	dc:contributor			
Defined By	Dublin Core Metadata Element Set, v1.1			
	http://purl.org/dc/element	ts/1.1/		
Type of Term	Property			
Subproperty Of	[n/a]			
Source Label	Contributor			
Label in this DCAP	[n/a]			
Source Definition	An entity responsible for	making contribution	is to the resource.	
Usage in this DCAP			the original version	on of the analysis pattern.
	Contributors may be people or companies.			
Comments for this DCAP			preferably using s	eparate iterations of this
	element. The contributor	must be a string.		
Uses Vocabulary Encoding	[not specified]			
Scheme				
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
			Scheme(s)	
	Not permitted	Mandatory		Not permitted
Obligation	Conditional			
Condition				ginal version, this element
	should not be registered, however whenever the analysis pattern documented is a version			
	with modifications, this e	lement must be regis	stered.	
Minimum Occurrences	0			
Maximum Occurrences	unbounded			

#### Date [dc:date]

Property URI	http://purl.org/dc/elements/1.1/date			
Qualified Name for Property	dc:date			
Defined By	Dublin Core Metada	ta Element Set, v1.1		
	http://purl.org/dc/ele	ments/1.1/		
Type of Term	Property			
Subproperty Of	[n/a]			
Source Label	Date			
Label in this DCAP	[n/a]			
Source Definition	A point or period of	time associated with an	event in the lifecycl	e of the resource.
Usage in this DCAP	Agglutinating element of dates about the creation and modification of the documented analysis pattern.			
Comments for this DCAP	This element is not filled, because their data are concentrated in its element refinements.			
Uses Vocabulary Encoding	[not specified]			
Scheme				
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
			Scheme(s)	
	Not permitted Not permitted Not permitted			
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	1			

Created [dcterms:created]					
Property URI	http://purl.org/	http://purl.org/dc/terms/created			
Qualified Name for Property	dcterms:created	đ			
Defined By	Dublin Core Te http://purl.org/				
Type of Term	Property				
Subproperty Of		n Core Metadata dc/elements/1.1/d	Element Set, v1.1 ate		
Source Label	Created				
Label in this DCAP	[n/a]				
Source Definition	Date of creatio	n of the resource.			
Usage in this DCAP	Creation date of	of the version of th	ne documented analysis pattern		
Comments for this DCAP	The creation da	ate must be in acc	ordance with a format specification	ation of date and time.	
Uses Vocabulary Encoding Scheme	[not specified]				
	Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent	
	Optional	Mandatory	[dcterms:W3CDTF]	Not permitted	
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

### Modified [dcterms:modified]

Property URI	http://purl.org/d	lc/terms/modified	1	
Qualified Name for Property	dcterms:modified			
Defined By	Dublin Core Terms http://purl.org/dc/terms/			
Type of Term	Property			
Subproperty Of		n Core Metadata lc/elements/1.1/d	Element Set, v1.1 ate	
Source Label	Modified			
Label in this DCAP	[n/a]			
Source Definition	Date on which	the resource was	changed.	
Usage in this DCAP	Date of the last	modification of t	the documented analysis patter	n.
Comments for this DCAP	The modification	on date must be in	n accordance with a format spe	ecification of date and time.
Uses Vocabulary Encoding Scheme	[not specified]			
Scheme	Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
	Optional	Mandatory	[dcterms:W3CDTF]	Not permitted
Obligation	Conditional			
Condition	refinement show	ald not be registe	ed is the current version of the red, otherwise it should display ver than the documented version	y the creation date of the
Minimum Occurrences	0			
Maximum Occurrences	1			

Type [dc:type]

Type [deltype]					
Property URI	http://purl.org/dc/elements/1.1/	type			
Qualified Name for Property	dc:type				
Defined By	Dublin Core Metadata Element	Set, v1.1			
	http://purl.org/dc/elements/1.1/				
Type of Term	Property				
Subproperty Of	[n/a]				
Source Label	Туре				
Label in this DCAP	[n/a]				
Source Definition	The nature or genre of the resou	irce.			
Usage in this DCAP	The nature of documented res	ource. Because it is an	element belon	ging to a profile of	
	analysis pattern documentation		n only the natur	e "Analysis Pattern"	
	in the appropriate language use				
Comments for this DCAP	The type must be in accordance	e with a fixed term of a	Vocabulary Enco	oding Scheme.	
Uses Vocabulary Encoding	[dc2apves:type] DC2AP Vocal	bulary Encoding Schem	es		
Scheme	http://purl.org/dc2ap/ves/type				
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
		0	Scheme(s)		
	Mandatory, Fixed Mandatory, Fixed Not permitted				
	[dc2aptp:analysisPattern]	analysisPattern			
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

### Notation [rdaelem:formOfNotation]

Property URI	http://rdvocab.info/Elem	ents/formOfNotat	ion	
Qualified Name for Property	rdaelem:formOfNotation			
Defined By	RDA Group 1 Elements http://rdvocab.info/Elements/			
Type of Term	Property			
Subproperty Of	[dc:type] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/type			
Source Label	Form of notation			
Label in this DCAP	Notation			
Source Definition	A set of characters and/o	r symbols used to	express the content	of a resource.
Usage in this DCAP	The notation used to create the diagrams during the documentation of an analysis pattern requirements.			
Comments for this DCAP	All of these diagrams must follow a single notation in each analysis pattern documented. The notation must be a string.			
Uses Vocabulary Encoding Scheme	[not specified]			
Scheme	Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
	Not permitted Mandatory Not permitted			
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	1			

### Format [dc:format]

Format [uc.format]					
Property URI	http://purl.org/dc/elements	s/1.1/format			
Qualified Name for Property	dc:format				
Defined By	Dublin Core Metadata Ele	ment Set, v1.1			
	http://purl.org/dc/elements	5/1.1/			
Type of Term	Property				
Subproperty Of	[n/a]				
Source Label	Format				
Label in this DCAP	[n/a]				
Source Definition	The file format, physical n	nedium, or dimen	sions of t	he resource.	
Usage in this DCAP	Digital format of the diagrams used in the documentation of the analysis pattern				
	requirements.				
Comments for this DCAP	Different formats can be registered, preferably using separate iterations of this element.				
	The recommended formation				
	PNG (Portable Network				
	must be in accordance with				
Uses Vocabulary Encoding	[dcterms:IMT] Dublin Co			ves:format] DC2.	AP Format
Scheme	http://purl.org/dc/terms/IN	11	Vocabi	url.org/dc2ap/ve	s/format
			nup.//p		
	Value	Value		Syntax	Rich
	URI	String		Encoding	Represent
	Mandatama Eined	Man datama Eina	1	Scheme(s)	Nat name:ttad
	Mandatory, Fixed [dc2apft:xmi]	Mandatory, Fixe			Not permitted
		xmi, jpeg or png	, ,		
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	unbounded				

#### Source [dc:source]

Property URI	http://purl.org/do	c/elements/1.1/sou	ırce		
Qualified Name for Property	dc:source	dc:source			
Defined By	Dublin Core Me	Dublin Core Metadata Element Set, v1.1			
	http://purl.org/do	http://purl.org/dc/elements/1.1/			
Type of Term	Property				
Subproperty Of	[n/a]				
Source Label	Source				
Label in this DCAP	[n/a]				
Source Definition	A related resource	ce from which the	e described resource is deriv	/ed.	
Usage in this DCAP		analysis pattern	used as the main intellectu	al source in the creation of an	
	analysis pattern.				
<b>Comments for this DCAP</b>	• 1		•	om part of the source or even	
	fully. The source must be a number, string or URI.				
Uses Vocabulary Encoding	[not specified]				
Scheme					
	Value	Value	Syntax	Rich	
	URI	String	Encoding Scheme(s)	Represent	
	Optional Mandatory [dcterms:URI] Not permitted				
Obligation	Conditional				
Condition	If the analysis pa	attern documented	has not been based on no	other, this element should not	
	be registered.				
Minimum Occurrences	0				
Maximum Occurrences	1				

### Language [dc:language]

Property URI	http://purl.org/dc/	elements/1.1/langua	ge		
Qualified Name for Property	dc:language	dc:language			
Defined By	Dublin Core Meta	Dublin Core Metadata Element Set, v1.1			
	http://purl.org/dc/elements/1.1/				
Type of Term	Property				
Subproperty Of	[n/a]				
Source Label	Language				
Label in this DCAP	[n/a]				
Source Definition	A language of the	e resource.			
Usage in this DCAP	Language used for	or documenting the a	nalysis pattern.		
Comments for this DCAP	The language must be a string and may also be provided in accordance with a fixed term of				
	a Vocabulary Encoding Scheme.				
Uses Vocabulary Encoding	-	-3] Dublin Core Terr	ns		
Scheme	http://purl.org/dc/	/terms/ISO639-3			
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
			Scheme(s)		
	Optional Mandatory Not permitted				
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

### Relation [dc:relation]

Property URI	http://purl.org/dc/eleme	ents/1.1/relation			
Qualified Name for Property	dc:relation				
Defined By	Dublin Core Metadata Element Set, v1.1				
	http://purl.org/dc/elements/1.1/				
Type of Term	Property				
Subproperty Of	[n/a]				
Source Label	Relation				
Label in this DCAP	[n/a]				
Source Definition	A related resource.				
Usage in this DCAP		of existing relationsl	hips between the do	ocumented analysis pattern	
	and other patterns.				
Comments for this DCAP	This element is not fille	ed, because their data	are concentrated in	its element refinements.	
Uses Vocabulary Encoding	[not specified]				
Scheme					
	Value	Value	Syntax	Rich	
	URI	String	Encoding Scheme(s)	Represent	
	Not permitted     Not permitted     Not permitted				
Obligation	Conditional				
Condition	If there are no relations	hips between the anal	lysis pattern docume	ented and another pattern,	
	this element should not		•	•	
Minimum Occurrences	0	-			
Maximum Occurrences	1				

### Is Version Of [dcterms:isVersionOf]

-	cisionorj				
Property URI	http://purl.org/do	c/terms/isVersion	Of		
Qualified Name for Property	dcterms:isVersio	onOf			
Defined By	Dublin Core Ter	rms			
	http://purl.org/do	http://purl.org/dc/terms/			
Type of Term	Property				
Subproperty Of	[dc:relation] Du	blin Core Metadat	a Element Set, v1.1		
	http://purl.org/do	c/elements/1.1/rel	ation		
Source Label	Is Version Of				
Label in this DCAP	[n/a]				
Source Definition	A related resource	ce of which the de	escribed resource is a version	on, edition, or adaptation.	
Usage in this DCAP	Reference to the	first version of th	e documented analysis pat	tern.	
Comments for this DCAP	This element ref	inement must be a	a number, string or URI.		
Uses Vocabulary Encoding	[not specified]				
Scheme	_			_	
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
		U	Scheme(s)	-	
	Optional Mandatory [dcterms:URI] Not permitted				
Obligation	Conditional				
Condition	If the analysis pattern documented has not earlier versions, this element refinement should				
	not be registered	l <b>.</b>			
Minimum Occurrences	0				
Maximum Occurrences	1				

### Is Replaced By [dcterms:isReplacedBy]

Property URI	http://purl.org/d	c/terms/isReplace	dBy		
Qualified Name for Property	dcterms:isReplacedBy				
Defined By	Dublin Core Te	rms			
	http://purl.org/dc/terms/				
Type of Term	Property				
Subproperty Of		blin Core Metadat c/elements/1.1/rel	a Element Set, v1.1 ation		
Source Label	Is Replaced By				
Label in this DCAP	[n/a]				
Source Definition	A related resour	rce that supplants,	displaces, or supersedes the	e described resource.	
Usage in this DCAP	References for a	all the most curren	t versions of the documente	ed analysis pattern.	
Comments for this DCAP	Different references to the most current versions can be registered, preferably using separate iterations of this element refinement. This element refinement must be a number, string or URI.				
Uses Vocabulary Encoding Scheme	[not specified]				
	Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent	
	Optional Mandatory [dcterms:URI] Not permitted				
Obligation	Conditional				
Condition	If the analysis pattern documented is the most current version, this element refinement should not be registered.				
Minimum Occurrences	0				
Maximum Occurrences	unbounded				

Replaces [dcterms:replace	s]			
Property URI	http://purl.org/d	c/terms/replaces		
Qualified Name for Property	dcterms:replaces			
Defined By	Dublin Core Te	rms		
	http://purl.org/d	c/terms/		
Type of Term	Property			
Subproperty Of		blin Core Metada c/elements/1.1/rel	ta Element Set, v1.1 ation	
Source Label	Replaces			
Label in this DCAP	[n/a]			
Source Definition	A related resour	ce that is supplant	ted, displaced, or supersede	d by the described resource.
Usage in this DCAP	References for a	all previous versio	ns of the documented analy	vsis pattern.
Comments for this DCAP	Different references to previous current versions can be registered, preferably using separate iterations of this element refinement. This element refinement must be a number, string or URI.			
Uses Vocabulary Encoding Scheme	[not specified]			
	ValueValueSyntaxRichURIStringEncoding Scheme(s)Represent			
	Optional	Mandatory	[dcterms:URI]	Not permitted
Obligation	Conditional			
Condition	If the analysis p be registered.	attern documented	l is the first version, this ele	ement refinement should not
Minimum Occurrences	0			
Maximum Occurrences	unbounded			

### Is Part Of [dcterms:isPartOf]

01]			
http://purl.org/dc	/terms/isPartOf		
dcterms:isPartOf			
Dublin Core Ter	ms		
http://purl.org/dc	/terms/		
Property			
[dc:relation] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/relation			
Is Part Of			
[n/a]			
A related resource	e in which the descr	ribed resource is physical	lly or logically included.
References for analysis patterns that contain the documented analysis pattern as part of its composition.			
Different references to analysis patterns that contains the pattern documented can be registered, preferably using separate iterations of this element refinement. The analysis patterns referenced may contain the whole pattern documented in its composition or only part of it. This element refinement must be a number string or URL			
[not specified]			
Value	Value	Syntax	Rich
URI	String	Encoding	Represent
Scheme(s)			
Optional Mandatory [dcterms:URI] Not permitted			
Optional			
[n/a]			
0			
unbounded			
	dcterms:isPartOf     Dublin Core Tern     http://purl.org/dc     Property     [dc:relation] Dub     http://purl.org/dc     Is Part Of     [n/a]     A related resource     References for a     composition.     Different reference     patterns reference     patt of it. This el     [not specified]     Value     URI     Optional     [n/a]     0	[dc:relation] Dublin Core Metadata I     http://purl.org/dc/elements/1.1/relation     Is Part Of     [n/a]     A related resource in which the descences for analysis patterns that composition.     Different references to analysis patterns that composition.     Different references to analysis patterns referenced may contain the part of it. This element refinement ment ment of it. This element refinement ment ment of the string     Value   Value     URI   Value     Optional   Mandatory     Optional   0	dcterms:isPartOf     Dublin Core Terms     http://purl.org/dc/terms/     Property     [dc:relation] Dublin Core Metadata Element Set, v1.1     http://purl.org/dc/elements/1.1/relation     Is Part Of     [n/a]     A related resource in which the described resource is physica     References for analysis patterns that contain the documented composition.     Different references to analysis patterns that contains the registered, preferably using separate iterations of this elem patterns referenced may contain the whole pattern documen part of it. This element refinement must be a number, string of [not specified]     Value   Value     URI   Syntax     Encoding   Scheme(s)     Optional   Mandatory     [dcterms:URI]   Optional     [n/a]   0

#### Has Part [dcterms:hasPart]

E	-				
Property URI	http://purl.org/dc	/terms/hasPart			
Qualified Name for Property	dcterms:hasPart				
Defined By	Dublin Core Terr	ms			
	http://purl.org/dc	/terms/			
Type of Term	Property				
Subproperty Of	[dc:relation] Dub	lin Core Metadata	Element Set, v1.1		
	http://purl.org/dc	/elements/1.1/relati	on		
Source Label	Has Part				
Label in this DCAP	[n/a]				
Source Definition	A related resource	that is included eiter	ither physically or logical	lly in the described resource.	
Usage in this DCAP		• •	hich are contained as p	art of the composition of the	
	documented anal				
Comments for this DCAP				ained by the analysis pattern	
				e iterations of this element	
	refinement. The analysis patterns referenced can be contained entirely or partially in the				
	composition of the pattern documented. This element refinement must be a number, string				
	or URI.				
Uses Vocabulary Encoding	[not specified]				
Scheme	77.1	<b>X7</b> 1			
	Value	Value	Syntax Example:	Rich	
	URI	String	Encoding Scheme(s)	Represent	
	Optional     Mandatory     [dcterms:URI]     Not permitted				
Obligation	Optional	•			
Condition	[n/a]				
Minimum Occurrences	0				
Maximum Occurrences	unbounded				

### Is Designed With [dc2ap:isDesignedWith]

	1 // 1 /1	2 (1 ( D )	133.7.41	
Property URI		2ap/elements/isDesi	gned With	
Qualified Name for Property	dc2ap:isDesigned			
Defined By	DC2AP Element			
	http://purl.org/dc2ap/elements/			
Type of Term	Property			
Subproperty Of	[dc:relation] Dub	olin Core Metadata E	Element Set, v1.1	
	http://purl.org/dc/elements/1.1/relation			
Source Label	Is Designed With	1		
Label in this DCAP	[n/a]			
Source Definition	Known design pa	atterns that can be us	ed during the implementation	n of the documented
	analysis pattern.			
Usage in this DCAP	This element refi	nement was defined	for this DCAP.	
Comments for this DCAP	This element ref	inement is intended	to share experiences of usin	g of the analysis pattern,
			analyst can report design j	
			e analysis pattern can be be	
	Different design patterns can be registered, preferably using separate iterations of this			
	element refinement. This element refinement must be a number, string or URI.			
Uses Vocabulary Encoding	[not specified]			
Scheme	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
	UNI	String	Scheme(s)	Represent
	Optional     Mandatory     [dcterms:URI]     Not permitted			
Obligation				
Obligation	Optional			
Condition	[n/a]			
Minimum Occurrences	0			
Maximum Occurrences	unbounded			

### Should Avoid [dc2ap:shouldAvoid]

	-				
Property URI	http://purl.org/dc	2ap/elements/sho	ouldAvoid		
Qualified Name for Property	dc2ap:shouldAvoid				
Defined By	DC2AP Element				
	http://purl.org/dc	2ap/elements/			
Type of Term	Property				
Subproperty Of	[dc:relation] Dub	olin Core Metada	ta Element Set, v1.1		
	http://purl.org/dc	c/elements/1.1/rel	ation		
Source Label	Should Avoid				
Label in this DCAP	[n/a]				
Source Definition	Anti-patterns im	portant to avoid c	common errors identified du	aring the application of the	
	documented anal	lysis pattern.			
Usage in this DCAP	This element ref	inement was defi	ned for this DCAP.		
Comments for this DCAP	This element refinement is intended to share experiences of using of the analysis pattern, since after its use, the responsible analyst can report anti-patterns used to avoid the common errors identified. Future users of the analysis pattern can be benefit from these reports. Different anti-patterns can be registered, preferably using separate iterations of this element refinement. This element refinement must be a number, string or URI.				
Uses Vocabulary Encoding	[not specified]				
Scheme	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
	Scheme(s)				
	Optional Mandatory [dcterms:URI] Not permitted				
Obligation	Optional			Â	
Condition	[n/a]				
Minimum Occurrences	0				
Maximum Occurrences	unbounded				

### Complemented By [dc2ap:complementedBy]

Property URI	- http://purl.org/dc	2ap/elements/compl	ementedBv	
Qualified Name for Property	dc2ap:compleme	<u> </u>	j	
Defined By	DC2AP Element			
<b>-</b>	http://purl.org/dc2ap/elements/			
Type of Term	Property			
Subproperty Of	[dc:relation] Dub	olin Core Metadata E	Element Set, v1.1	
	http://purl.org/dc	/elements/1.1/relatio	on	
Source Label	Complemented E	By		
Label in this DCAP	[n/a]			
Source Definition	Known analysis	patterns that can be	used to complement the doc	cumented analysis pattern.
Usage in this DCAP	This element refi	nement was defined	for this DCAP.	
Comments for this DCAP	This element refinement is intended to share experiences of using of the analysis pattern, since after its use, the responsible analyst can report analysis patterns used or which can be used together with the analysis pattern documented. Future users of the analysis pattern can be benefit from these reports. Different analysis patterns can be registered, preferably using separate iterations of this element refinement. This element refinement must be a number, string or URI.			
Uses Vocabulary Encoding	[not specified]			
Scheme	Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
	Optional Mandatory [dcterms:URI] Not permitted			
Obligation	Optional			
Condition	[n/a]			
Minimum Occurrences	0			
Maximum Occurrences	unbounded			

#### About [rdaelem:note]

Property URI	http://rdvocab.info/Ele	ments/note		
Qualified Name for Property	rdaelem:note			
Defined By	RDA Group 1 Element	ts		
	http://rdvocab.info/Ele	ments/		
Type of Term	Property			
Subproperty Of	[dc:relation] Dublin Co http://purl.org/dc/elemo		nt Set, v1.1	
Source Label	Note			
Label in this DCAP	About			
Source Definition	An annotation providing additional information relating to data recorded in another element.			
Usage in this DCAP	Description of details about relationships established among the documented analysis pattern and other patterns.			
Comments for this DCAP	The relationship descri	ption must be a stri	ng.	
Uses Vocabulary Encoding	[not specified]			
Scheme	Value	Value	Syntax	Rich
	URI	String	Encoding Scheme(s)	Represent
	Not permitted	Mandatory		Not permitted
Obligation	Conditional			
Condition	All relationships established must be described in detail by this element refinement, so			
	whenever there is at least an established relationship that element refinement must be			
	registered.			
Minimum Occurrences	0			
Maximum Occurrences	1			

#### Coverage [dc:coverage]

Property URI	http://purl.org/dc/element	ts/1.1/coverage		
Qualified Name for Property	dc:coverage			
Defined By	Dublin Core Metadata El	ement Set, v1.1		
	http://purl.org/dc/element	ts/1.1/		
Type of Term	Property			
Subproperty Of	[n/a]			
Source Label	Coverage			
Label in this DCAP	[n/a]			
Source Definition	1 1	1 ·	1 11	ity of the resource, or the
	jurisdiction under which the resource is relevant.			
Usage in this DCAP	This element contains the spatial location or time period covered by the scope of the			
	documented analysis pattern. Although it is an optional element not apply to all analysis			
	patterns, its use can be very useful to compensate regionalisms that generate semantic			
	ambiguities that may adversely affect the reuse of the pattern. The description of the			
	analysis pattern coverage provides the disambiguation of terms used mainly during the modeling of the pattern.			
Comments for this DCAP	Different coverages can be registered, preferably using separate iterations of this element.			
comments for this berri	The coverage must be a string.			
Uses Vocabulary Encoding	[not specified]			
Scheme				
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
	Scheme(s)			
	Not permitted Mandatory Not permitted			
Obligation	Optional			
Condition	[n/a]			
Minimum Occurrences	0			
Maximum Occurrences	unbounded			

#### **Rights** [dc:rights]

Inghis [definghts]					
Property URI	http://purl.org/dc	/elements/1.1/righ	its		
Qualified Name for Property	dc:rights				
Defined By	Dublin Core Met	adata Element Se	t, v1.1		
	http://purl.org/dc	/elements/1.1/			
Type of Term	Property				
Subproperty Of	[n/a]				
Source Label	Rights				
Label in this DCAP	[n/a]				
Source Definition	Information about	it rights held in an	d over the resource.		
Usage in this DCAP	Existing rights ov	ver the documente	d analysis pattern.		
Comments for this DCAP	Different rights can be registered, preferably using separate iterations of this element. The				
				for example, URLs (Uniform	
	Resource Locato	r) for their respect	ive approvals.		
Uses Vocabulary Encoding	[not specified]				
Scheme	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
	0.112	See and the second seco	Scheme(s)		
	Optional	Mandatory	[dcterms:URI]	Not permitted	
Obligation	Conditional				
Condition	In the case of ex	istence of known	rights about the pattern, th	ey must be registered no later	
	to be transparence	y in the provision	of the pattern.		
Minimum Occurrences	0				
Maximum Occurrences	unbounded				

### History [dc2ap:history]

				-
Property URI	http://purl.org/dc2ap/	elements/history		
Qualified Name for Property	dc2ap:history			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/	elements/		
Type of Term	Property			
Subproperty Of	[n/a]			
Source Label	History			
Label in this DCAP	[n/a]			
Source Definition				ne documented analysis
	pattern. Historical events related to the pattern, for example, its creation or modifications made must be registered			
Usage in this DCAP	This element was defined for this DCAP.			
Comments for this DCAP	Newer versions of an analysis pattern should keep the history of the previous versions, adding data to it when there are new events. Each iteration of this element represents the occurrence of an event. This element is not filled, because their data are concentrated in its element refinements.			
Uses Vocabulary Encoding Scheme	[not specified]			
	Value	Value	Syntax	Rich
	URI	String	Encoding Scheme(s)	Represent
	Not permitted Not permitted Not permitted			
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	unbounded			

#### Event Date [dc:date]

Event Date [uc.uate]					
Property URI	http://purl.org/d	c/elements/1.1/d	ate		
Qualified Name for Property	dc:date				
Defined By	Dublin Core M	Dublin Core Metadata Element Set, v1.1			
	http://purl.org/d	c/elements/1.1/			
Type of Term	Property				
Subproperty Of		DC2AP Element			
	http://purl.org/d	c2ap/elements/hi	story		
Source Label	Date				
Label in this DCAP	Event Date				
Source Definition	A point or period	od of time associa	ted with an event in the lifecyc	cle of the resource.	
Usage in this DCAP	Date of the hist	oric event occurr	ence.		
Comments for this DCAP	The event date	must be in accord	lance with a format specification	on of date and time.	
Uses Vocabulary Encoding	[not specified]				
Scheme				_	
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
		Ũ	Scheme(s)	-	
	Optional Mandatory [dcterms:W3CDTF] Not permitted				
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

### Author [rdaroles:author]

Property URI	http://rdvocab.info/r	oles/author			
Qualified Name for Property	rdaroles:author	*			
Defined By	RDA Roles				
Defined by	http://rdvocab.info/roles/				
Type of Term	Property				
Subproperty Of	[dc2ap:history] DC2 http://purl.org/dc2ap				
Source Label	Author				
Label in this DCAP	[n/a]				
Source Definition	A person, family or	corporate body respor	sible for the creation	n of a work.	
Usage in this DCAP	Names of responsible for the occurrence of the historic event.				
Comments for this DCAP	Different authors can be registered, preferably using separate iterations of this element refinement. The author must be a string.				
Uses Vocabulary Encoding Scheme	[not specified]				
	ValueValueSyntaxRichURIStringEncodingRepresentScheme(s)Scheme(s)Scheme(s)Scheme(s)				
	Not permitted Mandatory Not permitted				
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	unbounded				

#### Reason [dc2ap:reason]

Reason [de2ap:reason]				
Property URI	http://purl.org/dc2ap/e	elements/reason		
Qualified Name for Property	dc2ap:reason			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/e	elements/		
Type of Term	Property			
Subproperty Of	[dc2ap:history] DC2A			
	http://purl.org/dc2ap/e	elements/history		
Source Label	Reason			
Label in this DCAP	[n/a]			
Source Definition	Reason for the occurre	ence of the historical	event.	
Usage in this DCAP	This element refineme	ent was defined for th	his DCAP.	
Comments for this DCAP	The reason must be a string.			
Uses Vocabulary Encoding	[not specified]			
Scheme	-			_
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
			Scheme(s)	
	Not permitted Mandatory Not permitted			
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	1			

### Changes [dc2ap:changes]

Property URI	http://purl.org/dc2ap/e	lements/changes			
		dc2ap:changes			
Qualified Name for Property	· · ·				
Defined By	DC2AP Element Set	<b>.</b> .			
	http://purl.org/dc2ap/elements/				
Type of Term	Property				
Subproperty Of	[dc2ap:history] DC2A	P Element Set			
	http://purl.org/dc2ap/e	lements/history			
Source Label	Changes				
Label in this DCAP	[n/a]				
Source Definition	Changes made in the a	analysis pattern duri	ng an event of chang	es.	
Usage in this DCAP	This element refineme	ent was defined for t	his DCAP.		
Comments for this DCAP	The change must be a	string.			
Uses Vocabulary Encoding	[not specified]				
Scheme					
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
		~8	Scheme(s)		
	Not permitted	Mandatory		Not permitted	
Obligation	Conditional				
Condition	This element refinement should not be registered only when the historical event refers to				
	the creation of the analysis pattern documented.				
Minimum Occurrences	0	• <u> </u>			
Maximum Occurrences	1				

### **Requirements [dc2ap:requirements]**

Requirements [uc2ap.requ					
Property URI	http://purl.org/dc2ap/	http://purl.org/dc2ap/elements/requirements			
Qualified Name for Property	dc2ap:requirements				
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/				
Type of Term	Property				
Subproperty Of	[n/a]				
Source Label	Requirements				
Label in this DCAP	[n/a]				
Source Definition	Agglutinating element	nt of data about the requ	irements of the doct	umented analysis pattern.	
Usage in this DCAP	This element was def	This element was defined for this DCAP.			
Comments for this DCAP	This element is not fi	illed, because their data	are concentrated in	its element refinements.	
Uses Vocabulary Encoding Scheme	[not specified]				
	ValueValueSyntaxRichURIStringEncoding Scheme(s)Represent				
	Not permitted Not permitted Not permitted				
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

### Functional Requirements [dc2ap:functionalRequirements]

Property URI	http://purl.org/dc2ap/eler	nents/functionalReq	uirements	
Qualified Name for Property	dc2ap:functionalRequirements			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/elements/			
Type of Term	Property			
Subproperty Of	[dc2ap:requirements] DC			
	http://purl.org/dc2ap/eler	<u> </u>		
Source Label	Functional Requirements			
Label in this DCAP	[n/a]			
Source Definition	Responsibilities and res	trictions for meet	each functional r	requirement of the analysis
	pattern.			
Usage in this DCAP	This element refinement	was defined for this	DCAP.	
Comments for this DCAP				using separate iterations of
	this element refinement.	The functional requi	rement must be a	string.
Uses Vocabulary Encoding	[not specified]			
Scheme			~	
	Value	Value	Syntax	Rich
	URI	String	Encoding Schome(g)	Represent
	Scheme(s)			
	Not permitted Mandatory Not permitted			
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	unbounded			

### Non-functional Requirements [dc2ap:nonFunctionalRequirements]

Property URI	http://purl.org/dc2ap	/elements/nonFunctio	nalRequirements	
			nancequirements	
Qualified Name for Property	dc2ap:nonFunctionalRequirements			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/elements/			
Type of Term	Property			
Subproperty Of		] DC2AP Element Set		
	http://purl.org/dc2ap/	/elements/requiremen	ts	
Source Label	Non-functional Requ	irements		
Label in this DCAP	[n/a]			
Source Definition	Responsibilities and	restrictions for meet	each non-functional	l requirement of the analysis
	pattern.			
Usage in this DCAP	This element refinem	nent was defined for th	his DCAP.	
Comments for this DCAP	This element refinement is optional because quality attributes, as described by non- functional requirements, may vary by application domain of the analysis pattern. Different non-functional requirements can be registered, preferably using separate iterations of this			
	element refinement. The non-functional requirement must be a string.			
Uses Vocabulary Encoding Scheme	[not specified]			
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
	Scheme(s)			
	Not permitted Mandatory Not permitted			
Obligation	Optional			
Condition	[n/a]			
Minimum Occurrences	0			
Maximum Occurrences	unbounded			

### Dependencies and Contributions [dc2ap:dependenciesAndContributions]

- Duon outry LIDI	http://pupl.org/do2op/olog	manta/danan danaiaa	- AndContributions	
Property URI	http://purl.org/dc2ap/elen	<u> </u>	AndContributions	
Qualified Name for Property	dc2ap:dependenciesAnd	Contributions		
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/eler	ments/		
Type of Term	Property			
Subproperty Of	[dc2ap:requirements] DC	C2AP Element Set		
	http://purl.org/dc2ap/eler	ments/requirements		
Source Label	Dependencies and Contri	ibutions		
Label in this DCAP	[n/a]			
Source Definition	Brief explanation about the identified relations of dependency and contributions among the			
	requirements of the documented analysis pattern.			
Usage in this DCAP	This element refinement	was defined for this	DCAP.	
Comments for this DCAP	The dependencies and contributions must be a string.			
Uses Vocabulary Encoding	[not specified]			
Scheme	-			
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
		8	Scheme(s)	
	Not permitted Mandatory Not permitted			
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	1			

#### Dependency Graph [dc2ap:dependencyGraph]

Dependeney Gruph [dezu]	1 .				
Property URI	http://purl.org/	dc2ap/elements/depe	endencyGraph		
Qualified Name for Property	dc2ap:depende	dc2ap:dependencyGraph			
Defined By	DC2AP Eleme	DC2AP Element Set			
	http://purl.org/	http://purl.org/dc2ap/elements/			
Type of Term	Property				
Subproperty Of			ions] DC2AP Element Set		
	http://purl.org/	dc2ap/elements/depe	endenciesAndContributions		
Source Label	Dependency G	raph			
Label in this DCAP	[n/a]				
Source Definition				of dependency among the	
	requirements of the documented analysis pattern.				
Usage in this DCAP	This element re	efinement was define	ed for this DCAP.		
Comments for this DCAP	The dependence	y graph can be repre	esented by an URI relative to	a XMI file or image.	
Uses Vocabulary Encoding	[not specified]				
Scheme					
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
		-	Scheme(s)	_	
	Optional Mandatory [dcterms:URI] Optional				
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

### Contribution Graph [dc2ap:contributionGraph]

Property URI	http://purl.org/dc	2ap/elements/cont	ributionGraph		
Qualified Name for Property	dc2ap:contributio	-	1		
Defined By	DC2AP Element	<u>^</u>			
·	http://purl.org/dc	http://purl.org/dc2ap/elements/			
Type of Term	Property				
Subproperty Of	- 1 1		ons] DC2AP Element Set		
			endenciesAndContributions		
Source Label	Contribution Gra	ıph			
Label in this DCAP	[n/a]				
Source Definition		used to represent the documented an	t the identified relations or alysis pattern.	of contribution among the	
Usage in this DCAP	This element refi	inement was define	ed for this DCAP.		
Comments for this DCAP	This diagram should to classify each relation of this kind as positive or negative contribution. The contribution graph can be represented by an URI relative to a XMI file or image.				
Uses Vocabulary Encoding Scheme	[not specified]				
	Value URIValue StringSyntax Encoding Scheme(s)Rich Represent				
	Optional	Mandatory	[dcterms:URI]	Optional	
Obligation	Conditional				
Condition	Whenever there are relations of this kind among the requirements of the pattern, the contribution diagram should be registered.				
Minimum Occurrences	0				
Maximum Occurrences	1				

### Conflict identification and Guidance to Resolution [dc2ap:conflictAndResolution]

Property URI	http://purl.org/dc2ap/e	elements/conflictAnd	Resolution	
Qualified Name for Property	dc2ap:conflictAndRes			
Defined By	DC2AP Element Set	oration		
Defined by	http://purl.org/dc2ap/e	lements/		
Type of Term	Property			
	[dc2ap:requirements] DC2AP Element Set			
Subproperty Of	http://purl.org/dc2ap/e			
Source Label	Conflict identification	-		
Label in this DCAP	[n/a]			
Source Definition	Brief explanation about the identified conflicts among the requirements of an analysis pattern and possible manners to solve them.			
Usage in this DCAP	This element refinement was defined for this DCAP.			
Comments for this DCAP	Normally there are conflicts among requirements of the analysis pattern when the graph diagrams of dependency or contribution presents cycles. Different conflicts and resolutions can be registered, preferably using separate iterations of this element refinement. The conflict identification and guidance to resolution must be a string.			
Uses Vocabulary Encoding Scheme	[not specified]			
	Value	Value	Syntax	Rich
	URI	String	Encoding Scheme(s)	Represent
	Not permitted     Mandatory     Not permitted			
Obligation				
Condition	If there is at least an identified conflict, is necessary to register this element refinement.			
Minimum Occurrences	0	· · · · ·		
Maximum Occurrences	unbounded			

### Priorities Diagram [dc2ap:priorities]

<u> </u>	1				
Property URI	http://purl.org/dc	2ap/elements/prioriti	es		
<b>Qualified Name for Property</b>	dc2ap:priorities				
Defined By	DC2AP Element	Set			
	http://purl.org/dc	http://purl.org/dc2ap/elements/			
Type of Term	Property				
Subproperty Of		ents] DC2AP Elemen			
		2ap/elements/require	ments		
Source Label	Priorities diagram	n			
Label in this DCAP	[n/a]				
Source Definition	The priorities diagram represents the order which requirements of an analysis pattern should be satisfied respecting their dependencies.			of an analysis pattern	
Usage in this DCAP		1 0 1			
	This element refinement was defined for this DCAP.				
Comments for this DCAP	From this diagram it is possible to identify the importance of each requirement of the				
	analysis pattern and thus solve possible conflicts among them, prioritizing a most				
	important requirement over another. The priorities diagram can be represented by an URI				
	relative to a XMI file or image.				
Uses Vocabulary Encoding	[not specified]				
Scheme					
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
			Scheme(s)		
	Optional Mandatory [dcterms:URI] Optional				
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

### Participants [dc2ap:participants]

i ui neipunts [uezup:pui ne	T				
Property URI	http://purl.org/dc2ap/elen	nents/participants			
Qualified Name for Property	dc2ap:participants	dc2ap:participants			
Defined By	DC2AP Element Set				
	http://purl.org/dc2ap/elen	nents/			
Type of Term	Property				
Subproperty Of	[dc2ap:requirements] DC2AP Element Set				
	http://purl.org/dc2ap/elements/requirements				
Source Label	Participants				
Label in this DCAP	[n/a]				
Source Definition	Entities that interact with analysis pattern requirements.				
Usage in this DCAP	This element refinement was defined for this DCAP.				
Comments for this DCAP	The participants are the actors of the use case diagram which represents a system that				
	meets the requirements of the analysis pattern. Different participants can be registered,				
	preferably using separate iterations of this element refinement. The participants must be a				
	string.				
Uses Vocabulary Encoding	[not specified]				
Scheme					
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
	Scheme(s)				
	Not permitted	Mandatory		Not permitted	
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	unbounded				

### Modelling [dc2ap:modelling]

intouching [uc=upiniouchin	8-				
Property URI	http://purl.org/dc2ap	http://purl.org/dc2ap/elements/modelling			
Qualified Name for Property	dc2ap:modelling				
Defined By	DC2AP Element Set	t			
	http://purl.org/dc2ap	o/elements/			
Type of Term	Property				
Subproperty Of	[n/a]				
Source Label	Modelling				
Label in this DCAP	[n/a]				
Source Definition	Agglutinating element of diagrams and descriptions that represents part of the problem solution.				
Usage in this DCAP	This element was de	fined for this DCAP.			
Comments for this DCAP	This element is not f	filled, because their data	are concentrated in	its element refinements.	
Uses Vocabulary Encoding	[not specified]				
Scheme					
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
			Scheme(s)		
	Not permitted Not permitted Not permitted				
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

#### **Property URI** http://purl.org/dc2ap/elements/behaviour **Qualified Name for Property** dc2ap:behaviour **Defined By** DC2AP Element Set http://purl.org/dc2ap/elements/ **Type of Term** Property [dc2ap:modelling] DC2AP Element Set **Subproperty Of** http://purl.org/dc2ap/elements/modelling Source Label Behaviour Label in this DCAP [n/a]Source Definition Agglutinating element of diagrams that make up the behavioral model of the analysis pattern. The behavioral model is the basis for the structural model of the analysis pattern. Usage in this DCAP This element refinement was defined for this DCAP. **Comments for this DCAP** This element refinement is not filled, because their data are concentrated in its element refinements. **Uses Vocabulary Encoding** [not specified] Scheme Value Value **Syntax** Rich URI String Encoding Represent Scheme(s) Not permitted Mandatory Not permitted Obligation Mandatory Condition [n/a] **Minimum Occurrences** 1 **Maximum Occurrences** 1

#### Behaviour [dc2ap:behaviour]

#### Use Case Diagram [dc2ap:useCaseDiagram]

	0	la Can /alamanta /usa Ca	Diagram		
Property URI		lc2ap/elements/useCa	aseDiagram		
Qualified Name for Property	dc2ap:useCase	dc2ap:useCaseDiagram			
Defined By	DC2AP Element	nt Set			
	http://purl.org/o	lc2ap/elements/			
Type of Term	Property				
Subproperty Of	[dc2ap:behavio	ur] DC2AP Element	Set		
	http://purl.org/o	lc2ap/elements/behav	viour		
Source Label	Use Case Diag	ram			
Label in this DCAP	[n/a]				
Source Definition				an analysis pattern together	
		nich interact with the			
Usage in this DCAP	This element re	finement was defined	l for this DCAP.		
Comments for this DCAP	The use case di	agram can be represe	nted by an URI relative to a	a XMI file or image.	
Uses Vocabulary Encoding	[not specified]				
Scheme					
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
		0	Scheme(s)		
	Optional Mandatory [dcterms:URI] Optional				
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

### Collaboration/Sequence Diagrams [dc2ap:collaborationSequenceDiagrams]

Property URI	http://purl.org/dc	2ap/elements/collab	oorationSequenceDiagrams	
Qualified Name for Property	dc2ap:collaborat	ionSequenceDiagram	ms	
Defined By	DC2AP Element	Set		
	http://purl.org/dc	http://purl.org/dc2ap/elements/		
Type of Term	Property			
Subproperty Of	[dc2ap:behaviou	r] DC2AP Element	Set	
	http://purl.org/dc	2ap/elements/behav	viour	
Source Label	Collaboration/Se	quence Diagrams		
Label in this DCAP	[n/a]			
Source Definition	Collaboration and Sequence diagrams are used to create scenarios that represent the			cenarios that represent the
	execution of each use case of the analysis pattern.			
Usage in this DCAP	This element refi	nement was defined	d for this DCAP.	
Comments for this DCAP				on, because from them are
	identified the base objects for the creation of the structural model of the analysis pattern.			
	Different collaboration and sequence diagrams can be registered, preferably using separate			
	iterations of this element refinement. These diagrams can be represented by an URI			
Uses Veesbulerry Encoding	relative to a XMI file or image.			
Uses Vocabulary Encoding Scheme	[not specified]			
Scheme	Value	Value	Suntar	Rich
	URI	String	Syntax Encoding	Represent
	UNI	String	Scheme(s)	Kepresent
	Optional Mandatory [dcterms:URI] Optional			
Obligation	Mandatory	j	[]	- r
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	unbounded			
Waximum Occurrences	unoounucu			

### Activity/State Diagrams [dc2ap:activityStateDiagrams]

· · · · ·	- V	0 -		
Property URI	http://purl.org/dc2	ap/elements/activity	StateDiagrams	
Qualified Name for Property	dc2ap:activityState	eDiagrams		
Defined By	DC2AP Element S	DC2AP Element Set		
	http://purl.org/dc2	ap/elements/		
Type of Term	Property			
Subproperty Of	[dc2ap:behaviour]	DC2AP Element S	et	
	http://purl.org/dc2	ap/elements/behavio	our	
Source Label	Activity/State Dia	grams		
Label in this DCAP	[n/a]			
Source Definition	Activity and State	e diagrams are use	d to represent the genera	l behaviour of the system
	specified by the an			
Usage in this DCAP	This element refin	ement was defined	for this DCAP.	
Comments for this DCAP	These diagrams represent the behaviour of the system more clearly and detailed than the use case diagram, however aren't prerequisite for the creation of the structural model of the analysis pattern. Different activity and state diagrams can be registered, preferably using separate iterations of this element refinement. These diagrams can be represented by an URI relative to a XMI file or image.			
Uses Vocabulary Encoding	[not specified]			
Scheme	Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
	Optional Mandatory [dcterms:URI] Optional			
Obligation	Optional	J		- <b>r</b> · · · ·
Condition	[n/a]			
Minimum Occurrences	0			
Maximum Occurrences	unbounded			
wiaxinium occurrences	unounded			

### Structure [dc2ap:structure]

	-			
Property URI	http://purl.org/dc2ap/ele	ements/structure		
Qualified Name for Property	dc2ap:structure			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/elements/			
Type of Term	Property			
Subproperty Of	[dc2ap:modelling] DC2			
	http://purl.org/dc2ap/ele	ements/modelling		
Source Label	Structure			
Label in this DCAP	[n/a]			
Source Definition	Agglutinating element of the diagram and descriptions that make up the structural model of			ke up the structural model of
	the analysis pattern.			
Usage in this DCAP	This element refinement was defined for this DCAP.			
Comments for this DCAP	This element refinement is not filled, because their data are concentrated in its element			
	refinements.			
<b>Uses Vocabulary Encoding</b>	[not specified]			
Scheme		-		
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
			Scheme(s)	
	Not permitted	Mandatory		Not permitted
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	1			

### Class Diagram [dc2ap:classDiagram]

Property URI	http://purl.org/d	c2ap/elements/class	Diagram		
Qualified Name for Property	dc2ap:classDiag	dc2ap:classDiagram			
Defined By	DC2AP Elemen	t Set			
	http://purl.org/d	c2ap/elements/			
Type of Term	Property				
Subproperty Of	[dc2ap:structure	] DC2AP Element S	Set		
	http://purl.org/d	c2ap/elements/struct	ture		
Source Label	Class Diagram				
Label in this DCAP	[n/a]				
Source Definition	Class diagram is	s the main part of the	e problem solution treated b	by the analysis pattern. This	
	diagram should	be created according	g with the objects identified	by the behavioral model of	
	the analysis pattern.				
Usage in this DCAP	This element ret	finement was defined	d for this DCAP.		
Comments for this DCAP	This diagram ca	n be represented by	an URI relative to a XMI fi	le or image.	
Uses Vocabulary Encoding	[not specified]				
Scheme					
	Value	Value	Syntax	Rich	
	URI	String	Encoding	Represent	
			Scheme(s)		
	Optional	Mandatory	[dcterms:URI]	Optional	
Obligation	Mandatory				
Condition	[n/a]				
Minimum Occurrences	1				
Maximum Occurrences	1				

#### Class Descriptions [dc2ap:classDescriptions]

	1 -			
Property URI	http://purl.org/dc2ap/eler	nents/classDescript	ions	
Qualified Name for Property	dc2ap:classDescriptions			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/eler	ments/		
Type of Term	Property			
Subproperty Of	[dc2ap:structure] DC2AI	P Element Set		
	http://purl.org/dc2ap/eler	nents/structure		
Source Label	Class Descriptions			
Label in this DCAP	[n/a]			
Source Definition	Brief description of each	class of the class d	iagram.	
Usage in this DCAP	This element refinement	was defined for this	S DCAP.	
Comments for this DCAP	These descriptions are important to facilitate the understanding of the diagram and			
	consequently of the problem solution proposed by the analysis pattern. Different class			
				iterations of this element
	refinement. The class des	scription must be a	string.	
Uses Vocabulary Encoding	[not specified]			
Scheme				
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
			Scheme(s)	
	Not permitted	Mandatory		Not permitted
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	unbounded			

### **Relationship Descriptions [dc2ap:relationshipDescriptions]**

		<b>-</b>		
Property URI	http://purl.org/dc2ap/elements/relationshipDescriptions			
Qualified Name for Property	dc2ap:relationshipDescriptions			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/elements/			
Type of Term	Property			
Subproperty Of	[dc2ap:structure] DC2AF			
	http://purl.org/dc2ap/eler	nents/structure		
Source Label	Relationship Description	S		
Label in this DCAP	[n/a]			
Source Definition	Brief description of the n	nain relationships pro	esent in the class of	liagram.
Usage in this DCAP	This element refinement	was defined for this	DCAP.	
Comments for this DCAP	These descriptions are important to facilitate the understanding of the diagram and consequently of the problem solution proposed by the analysis pattern. Different relationship descriptions can be registered, preferably using separate iterations of this element refinement. The relationship description must be a string.			
Uses Vocabulary Encoding	[not specified]			
Scheme	Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
	Not permitted	Mandatory		Not permitted
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	unbounded			

### Solution Variants [dc2ap:solutionVariants]

Solution variants [uc2ap.s		~1		
Property URI	http://purl.org/dc2	ap/elements/solution	Variants	
Qualified Name for Property	dc2ap:solutionVariants			
Defined By	DC2AP Element S	Set		
	http://purl.org/dc2	ap/elements/		
Type of Term	Property			
Subproperty Of		DC2AP Element Set		
		ap/elements/modellin	ıg	
Source Label	Solution Variants			
Label in this DCAP	[n/a]			
Source Definition		1		ar and structure to solve the
	problem treated by	y the analysis pattern.		
Usage in this DCAP	This element refin	ement was defined for	or this DCAP.	
Comments for this DCAP				ing of the analysis pattern,
	since after its use, the responsible analyst may have modified the models proposed to better			
				n can be benefit from these
				l, preferably using separate
			The solution variants c	an be represented by URI
	relative to XMI files or images.			
Uses Vocabulary Encoding Scheme	[not specified]			
Scheme	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
			Scheme(s)	
	Optional	Mandatory	[dcterms:URI]	Optional
Obligation	Optional			
Condition	[n/a]			
Minimum Occurrences	0			
Maximum Occurrences	unbounded			

#### Resulting Context [dc2ap:resultingContext]

<u> </u>	estateming estatement]			
Property URI	http://purl.org/dc2ap/elen	nents/resultingConte	xt	
Qualified Name for Property	dc2ap:resultingContext			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/elen	nents/		
Type of Term	Property			
Subproperty Of	[n/a]			
Source Label	Resulting Context			
Label in this DCAP	[n/a]			
Source Definition	This element describes a specific systems.	This element describes adaptations realized in the analysis pattern when it is applied in specific systems.		
Usage in this DCAP	This element was defined	for this DCAP.		
Comments for this DCAP	This element is intended to share experiences of using of the analysis pattern, since after its use, the responsible analyst may have realized adaptations to better meet specificities of a system. Future users of the analysis pattern can be benefit from these use reports of the analysis pattern in specific cases. Different resulting contexts can be registered, preferably using separate iterations of this element. The resulting context must be a string.			
Uses Vocabulary Encoding	[not specified]			
Scheme	Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
	Not permitted	Mandatory		Not permitted
Obligation	Optional			
Condition	[n/a]			
Minimum Occurrences	0			
Maximum Occurrences	unbounded			

#### Design Guidelines [dc2ap:designGuidelines]

Design Guidennes [dezap:	8			
Property URI	http://purl.org/dc2ap/elen	nents/designGuidelin	nes	
Qualified Name for Property	dc2ap:designGuidelines			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/elen	nents/		
Type of Term	Property			
Subproperty Of	[n/a]			
Source Label	Design Guidelines			
Label in this DCAP	[n/a]			
Source Definition	This element presents gen	neral tips for implem	entation of the docu	mented analysis pattern.
Usage in this DCAP	This element was defined	l for this DCAP.		
Comments for this DCAP	This element is intended to share experiences of using of the analysis pattern, since after its use, the responsible analyst can report actions taken during the implementation that can benefit future users of the pattern too. These tips should be independent of platform or programming language for thus doesn't limit the benefits to potential users. Different design guidelines can be registered, preferably using separate iterations of this element. The design guideline must be a string.			
<b>Uses Vocabulary Encoding</b>	[not specified]			
Scheme	Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
	Not permitted	Mandatory		Not permitted
Obligation	Optional			
Condition	[n/a]			
Minimum Occurrences	0			
Maximum Occurrences	unbounded			

#### Consequences [dc2ap:consequences]

	[] [] [] [] [] [] [] [] [] [] [] [] [] [			
Property URI	http://purl.org/dc2ap/	http://purl.org/dc2ap/elements/consequences		
Qualified Name for Property	dc2ap:consequences	dc2ap:consequences		
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/	/elements/		
Type of Term	Property			
Subproperty Of	[n/a]			
Source Label	Consequences			
Label in this DCAP	[n/a]			
Source Definition	Agglutinating eleme	ent of descriptions of	f advantages and	disadvantages of use the
	documented analysis	pattern.		
Usage in this DCAP	This element was defined for this DCAP.			
Comments for this DCAP	These positive and negative consequences are related to various aspects of the pattern. This			
	element is not filled, because their data are concentrated in its element refinements.			
<b>Uses Vocabulary Encoding</b>	[not specified]			
Scheme	-			
	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
			Scheme(s)	
	Not permitted	Not permitted		Not permitted
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	1			

#### **Positive [dc2ap:positive]**

i ostive [uezap.positive]				
Property URI	http://purl.org/dc2ap/elements/positive			
Qualified Name for Property	dc2ap:positive			
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/	/elements/		
Type of Term	Property			
Subproperty Of	[dc2ap:consequences	s] DC2AP Element Se	et	
	http://purl.org/dc2ap/	/elements/consequenc	ces	
Source Label	Positive			
Label in this DCAP	[n/a]			
Source Definition	Positive consequences of use of the documented analysis pattern.			
Usage in this DCAP	This element refinem	nent was defined for the	his DCAP.	
Comments for this DCAP	Different positive consequences can be registered, preferably using separate iterations of			
	this element refinement. The positive consequence must be a string.			
Uses Vocabulary Encoding	[not specified]			
Scheme	Value	Value	Syntax	Rich
	URI	String	Encoding	Represent
		0	Scheme(s)	
	Not permitted	Mandatory		Not permitted
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	unbounded			

#### **Negative** [dc2ap:negative]

Property URI	http://purl.org/dc2ap/elements/negative			
Qualified Name for Property	dc2ap:negative	dc2ap:negative		
Defined By	DC2AP Element Set			
	http://purl.org/dc2ap/el	ements/		
Type of Term	Property			
Subproperty Of	[dc2ap:consequences] I	DC2AP Element Se	et	
	http://purl.org/dc2ap/el	ements/consequenc	es	
Source Label	Negative			
Label in this DCAP	[n/a]			
Source Definition	Negative consequences of use of the documented analysis pattern.			
Usage in this DCAP	This element refinement was defined for this DCAP.			
Comments for this DCAP	Different negative consequences can be registered, preferably using separate iterations of			
	this element refinement. The negative consequence must be a string.			
Uses Vocabulary Encoding	[not specified]			
Scheme	Value Value Syntax Rich			Rich
	URI	String	Encoding	Represent
	UNI	String	Scheme(s)	Represent
	Not permitted	Mandatory		Not permitted
Obligation	Mandatory			
Condition	[n/a]			
Minimum Occurrences	1			
Maximum Occurrences	unbounded			

#### C. Vocabulary Encoding Schemes descriptions

Vocabulary Encoding Scheme URI	http://purl.org/dc2ap/ves/type
Qualified Name	dc2apves:type
Defined By	DC2AP Vocabulary Encoding Schemes
	http://purl.org/dc2ap/ves/
Type of Term	Vocabulary Encoding Scheme
Label	DC2AP Type Vocabulary
Definition	The set of classes specified by the DC2AP Type Vocabulary, used to categorize the nature or genre
	of the resource.
Label in this DCAP	[n/a]
See Also	http://purl.org/dc2ap/type/
Used as Vocabulary	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc:type] Dublin Core Metadata Element Set, v1.1
For	http://purl.org/dc/elements/1.1/type

#### DC2APtype [dc2apves:type]

### DC2APformat [dc2apves:format]

Vocabulary Encoding Scheme URI	http://purl.org/dc2ap/ves/format
Qualified Name	dc2apves:format
Defined By	DC2AP Vocabulary Encoding Schemes
	http://purl.org/dc2ap/ves/
Type of Term	Vocabulary Encoding Scheme
Label	DC2AP Format Vocabulary
Definition	The set of file formats specified by the DC2AP Format Vocabulary, used to categorize the nature or
	genre of the files.
Label in this DCAP	[n/a]
See Also	http://purl.org/dc2ap/format/
Used as Vocabulary	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc:format] Dublin Core Metadata Element Set, v1.1
For	http://purl.org/dc/elements/1.1/format

### IMT [dcterms:IMT]

Vocabulary Encoding Scheme URI	http://purl.org/dc/terms/IMT
Qualified Name	dcterms:IMT
Defined By	Dublin Core Terms http://purl.org/dc/terms/
Type of Term	Vocabulary Encoding Scheme
Label	IMT
Definition	The set of media types specified by the Internet Assigned Numbers Authority.
Label in this DCAP	[n/a]
See Also	http://www.iana.org/assignments/media-types/
Used as Vocabulary	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc:format] Dublin Core Metadata Element Set, v1.1
For	http://purl.org/dc/elements/1.1/format

### ISO639-3 [dcterms:ISO639-3]

Vocabulary Encoding Scheme URI	http://purl.org/dc/terms/ISO639-3
Qualified Name	dcterms:ISO639-3
Defined By	Dublin Core Terms http://purl.org/dc/terms/
Type of Term	Vocabulary Encoding Scheme
Label	ISO 639-3
Definition	The set of three-letter codes listed in ISO 639-3 for the representation of names of languages.
Label in this DCAP	[n/a]
See Also	http://www.sil.org/iso639-3/
Used as Vocabulary	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc:language] Dublin Core Metadata Element Set, v1.1
For	http://purl.org/dc/elements/1.1/language

### D. Syntax Encoding Schemes descriptions

### Uniform Resource Identifier [dcterms:URI]

Syntax Encoding Scheme URI	http://purl.org/dc/terms/URI
Qualified Name	dcterms:URI
Defined By	Dublin Core Terms
	http://purl.org/dc/terms/
Type of Term	Syntax Encoding Scheme
Label	Uniform Resource Identifier
Definition	The set of identifiers constructed according to the generic syntax for Uniform Resource Identifiers
	as specified by the Internet Engineering Task Force.
Label in this DCAP	[n/a]
See Also	http://www.ietf.org/rfc/rfc3986.txt
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc:identifier] Dublin Core Metadata Element Set, v1.1
For	http://purl.org/dc/elements/1.1/identifier
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc:source] Dublin Core Metadata Element Set, v1.1
For	http://purl.org/dc/elements/1.1/source
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc:rights] Dublin Core Metadata Element Set, v1.1
For	http://purl.org/dc/elements/1.1/rights
Used as Syntax Encoding Scheme	Analysis Pattern [dc2aptp:analysisPattern] [dcterms:isVersionOf] Dublin Core Terms
For	http://purl.org/dc/terms/isVersionOf
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dcterms:isReplacedBy] Dublin Core Terms
For	http://purl.org/dc/terms/isReplacedBy
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dcterms:replaces] Dublin Core Terms
For	http://purl.org/dc/terms/replaces
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dcterms:isPartOf] Dublin Core Terms
For	http://purl.org/dc/terms/isPartOf
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dcterms:hasPart] Dublin Core Terms
For	http://purl.org/dc/terms/hasPart
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc2ap:isDesignedWith] DC2AP Element Set
For	http://purl.org/dc2ap/elements/isDesignedWith

Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc2ap:shouldAvoid] DC2AP Element Set
For	http://purl.org/dc2ap/elements/shouldAvoid
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc2ap:complementedBy] DC2AP Element Set
For	http://purl.org/dc2ap/elements/complementedBy
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc2ap:dependencyGraph] DC2AP Element Set
For	http://purl.org/dc2ap/elements/dependencyGraph
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc2ap:contributionGraph] DC2AP Element Set
For	http://purl.org/dc2ap/elements/contributionGraph
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc2ap:priorities] DC2AP Element Set
For	http://purl.org/dc2ap/elements/priorities
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc2ap:useCaseDiagram] DC2AP Element Set
For	http://purl.org/dc2ap/elements/useCaseDiagram
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc2ap:collaborationSequenceDiagrams] DC2AP Element Set
For	http://purl.org/dc2ap/elements/collaborationSequenceDiagrams
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc2ap:activityStateDiagrams] DC2AP Element Set
For	http://purl.org/dc2ap/elements/activityStateDiagrams
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc2ap:classDiagram] DC2AP Element Set
For	http://purl.org/dc2ap/elements/classDiagram
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc2ap:solutionVariants] DC2AP Element Set
For	http://purl.org/dc2ap/elements/solutionVariants

### W3C-DTF [dcterms:W3CDTF]

Syntax Encoding Scheme URI	http://purl.org/dc/terms/W3CDTF
Qualified Name	dcterms:W3CDTF
Defined By	Dublin Core Terms http://purl.org/dc/terms/
Type of Term	Syntax Encoding Scheme
Label	W3C-DTF
Definition	The set of dates and times constructed according to the W3C Date and Time Formats Specification.
Label in this DCAP	[n/a]
See Also	http://www.w3.org/TR/NOTE-datetime
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dcterms:created] Dublin Core Terms
For	http://purl.org/dc/terms/created
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dcterms:modified] Dublin Core Terms
For	http://purl.org/dc/terms/modified
Used as Syntax	Analysis Pattern [dc2aptp:analysisPattern]
Encoding Scheme	[dc:date] Dublin Core Metadata Element Set, v1.1
For	http://purl.org/dc/elements/1.1/date

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