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

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Date Issued:	2012-02-13
Identifier:	http://purl.org/dc2ap/TechnicalDescription
Replaces:	Not applicable
Is Replaced By:	Not applicable
Latest Version:	Not applicable
Status of Document:	This is a Dublin Core Application Profile.
Description of Document:	This document describes an application profile for analysis patterns description developed by the Information Systems Group of Federal University of Viçosa. Its format was based in the work of Coyle and Baker (2009).

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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 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	http://rdvocab.info/Elements/	**rdaelem**
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[1]; 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[1]; 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[1]; 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.

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[1] 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 A 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	Analysis Pattern
Definition	The intention of analysis pattern is to encapsulate specialist knowledge and provide it to be reused for solve a particular recurring problem during the analysis phase of the software 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
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	Identifier
Label in this DCAP	[n/a]
Source Definition	An unambiguous reference to the resource within a given context.
Usage in this DCAP	It is a unique reference given to the analysis pattern to differentiate it from others, so it is necessary that every analysis pattern has an identification.
Comments for this DCAP	From the identifier must be possible to recover the version of the analysis pattern documented. The identifier 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	Mandatory
Condition	[n/a]
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
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	Title
Label in this DCAP	[n/a]
Source Definition	A name given to the resource.
Usage in this DCAP	Formal name by which the 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 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

Alternative Title [dcterms:alternative]

Property URI	http://purl.org/dc/terms/alternative
Qualified Name for Property	dcterms:alternative
Defined By	Dublin Core Terms http://purl.org/dc/terms/
Type of Term	Property
Subproperty Of	[dc:title] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/title
Source Label	Alternative Title
Label in this DCAP	[n/a]
Source Definition	Any form of the title used as a substitute or alternative to the formal title of the resource.
Usage in this DCAP	Alternative names to submit to the same analysis 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.
Uses Vocabulary Encoding Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
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
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	Creator
Label in this DCAP	[n/a]
Source Definition	An entity primarily responsible for making the resource.
Usage in this DCAP	Name of the creator of the 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 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

Subject [dc:subject]

Property URI	http://purl.org/dc/elements/1.1/subject
Qualified Name for Property	dc:subject
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	Subject
Label in this DCAP	[n/a]
Source Definition	The topic of the resource.
Usage in this DCAP	Is a keyword related to the scope in which the analysis pattern applies, thus providing a brief contextualization.
Comments for this DCAP	Different subjects can be registered, preferably using separate iterations of this element. The subject must be a string.
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

Description [dc:description]

Property URI	http://purl.org/dc/elements/1.1/description
Qualified Name for Property	dc:description
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	Description
Label in this DCAP	[n/a]
Source Definition	An account of the resource.
Usage in this DCAP	Agglutinating element of descriptions aimed in the contextualization of the analysis pattern over various aspects.
Comments for this DCAP	This element is not filled, because their data are concentrated in its element refinements.
Uses Vocabulary Encoding Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
Not permitted	Not permitted		Not permitted

Obligation	Mandatory
Condition	[n/a]
Minimum Occurrences	1
Maximum Occurrences	1

Problem [dc2ap: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] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/description
Source Label	Problem
Label in this DCAP	[n/a]
Source Definition	Brief textual description of the problem solved by the analysis 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 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	1

Motivation [dc2ap:motivation]

Property URI	http://purl.org/dc2ap/elements/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 Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/description
Source Label	Motivation
Label in this DCAP	[n/a]
Source Definition	Specific reasons that justify the existence of the documented analysis pattern. This refinement for element documents peculiarities of the problem should be solved by the analysis pattern, regardless of application domain.
Usage in this DCAP	This element refinement was defined for this DCAP.
Comments for this DCAP	Different motivations can be registered, preferably using separate iterations of this element refinement. The motivation must be a string.
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/elements/example
Qualified Name for Property	dc2ap:example
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:motivation] DC2AP Element Set http://purl.org/dc2ap/elements/motivation
Source Label	Example
Label in this DCAP	[n/a]
Source Definition	Examples of applications where the described analysis pattern can be applied. This element refinement is useful to facilitate the abstraction, since it seeks to illustrate the use of analysis pattern in practice.
Usage in this DCAP	This element refinement was defined for this DCAP.
Comments for this DCAP	Different examples can be registered, preferably using separate iterations of this element refinement. The example must be a string.
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

Known Uses [dc2ap:knownUses]

Property URI	http://purl.org/dc2ap/elements/knownUses
Qualified Name for Property	dc2ap:knownUses
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:motivation] DC2AP Element Set http://purl.org/dc2ap/elements/motivation
Source Label	Known Uses
Label in this DCAP	[n/a]
Source Definition	Known uses of the described analysis pattern in real systems and applications. This element refinement is intended to share experiences of using of the analysis pattern, since after its use, the responsible analyst can describe briefly the application or system that used the pattern and how it was useful, contributing so to future users.
Usage in this DCAP	This element refinement was defined for this DCAP.
Comments for this DCAP	Different known uses can be registered, preferably using separate iterations of this element refinement. The known uses must be a string.
Uses Vocabulary Encoding Scheme	[not specified]

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

Context [dc2ap:context]

Property URI	http://purl.org/dc2ap/elements/context
Qualified Name for Property	dc2ap:context
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc:description] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/description
Source Label	Context
Label in this DCAP	[n/a]
Source Definition	Description of contextual coverage of the documented analysis pattern. The domains where the problem solved by analysis patterns is recurrent, and the possible causes of recurrence are described by this element refinement. This description should be general, enabling new domains of recurrence of the problem are identified.
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 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	1

Publisher [dc:publisher]

Property URI	http://purl.org/dc/elements/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 resource available.
Usage in this DCAP	Names of those responsible for providing the analysis pattern for the public. Publishers can be people or companies.
Comments for this DCAP	Different publishers can be registered, preferably using separate iterations of this element. The publisher must be a string.

Uses Vocabulary Encoding Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
Not permitted	Mandatory		Not permitted

Obligation	Optional
Condition	In situations in which the creators of the analysis pattern are also responsible for the availability for the public, it is not necessary to register them again as publishers.
Minimum Occurrences	0
Maximum Occurrences	unbounded

Contributor [dc:contributor]

Property URI	http://purl.org/dc/elements/1.1/contributor
Qualified Name for Property	dc:contributor
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	Contributor
Label in this DCAP	[n/a]
Source Definition	An entity responsible for making contributions to the resource.
Usage in this DCAP	Names of those responsible for changes made in the original version of the analysis pattern. Contributors may be people or companies.
Comments for this DCAP	Different contributors can be registered, preferably using separate iterations of this element. The contributor must be a string.
Uses Vocabulary Encoding Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
Not permitted	Mandatory		Not permitted

Obligation	Conditional
Condition	In situations where the analysis pattern documented is an original version, this element should not be registered, however whenever the analysis pattern documented is a version with modifications, this element must be registered.
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 Metadata Element Set, v1.1 http://purl.org/dc/elements/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 lifecycle of the resource.
Usage in this DCAP	Agglutinating element of dates on the creation and modification of the analysis pattern documented.
Comments for this DCAP	This element is not filled, because their data are concentrated in its element refinements.
Uses Vocabulary Encoding Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
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/dc/terms/created
Qualified Name for Property	dcterms:created
Defined By	Dublin Core Terms http://purl.org/dc/terms/
Type of Term	Property
Subproperty Of	[dc:date] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/date
Source Label	Created
Label in this DCAP	[n/a]
Source Definition	Date of creation of the resource.
Usage in this DCAP	Creation date of the version of the analysis pattern documented.
Comments for this DCAP	The creation date must be in accordance with a format specification 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/dc/terms/modified
Qualified Name for Property	dcterms:modified
Defined By	Dublin Core Terms http://purl.org/dc/terms/
Type of Term	Property
Subproperty Of	[dc:date] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/date
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 the analysis pattern documented.
Comments for this DCAP	The modification date must be in accordance with a format specification 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	Conditional
Condition	If the analysis pattern documented is the current version of the pattern, this element refinement should not be registered, otherwise it should display the creation date of the newest version immediately newer than the documented version.
Minimum Occurrences	0
Maximum Occurrences	1

Type [dc:type]

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	Type
Label in this DCAP	[n/a]
Source Definition	The nature or genre of the resource.
Usage in this DCAP	The nature of resource documented. Because it is an element belonging to a profile of analysis pattern documentation, it should always inform only the nature "Analysis Pattern" in the appropriate language used in the documentation.
Comments for this DCAP	The type must be in accordance with a fixed term of a Vocabulary Encoding Scheme.
Uses Vocabulary Encoding Scheme	[dc2apves:type] DC2AP Vocabulary Encoding Schemes http://purl.org/dc2ap/ves/type

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
Mandatory, Fixed [dc2aptp:analysisPattern]	Mandatory, Fixed analysisPattern		Not permitted

Obligation	Mandatory
Condition	[n/a]
Minimum Occurrences	1
Maximum Occurrences	1

Notation [rdaelem:formOfNotation]

Property URI	http://rdvocab.info/Elements/formOfNotation
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/or symbols used to express the content of a resource.
Usage in this DCAP	The notation used to create the diagrams during the documentation of the 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]

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]

Property URI	http://purl.org/dc/elements/1.1/format
Qualified Name for Property	dc:format
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	Format
Label in this DCAP	[n/a]
Source Definition	The file format, physical medium, or dimensions of the 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 formats for diagrams are JPEG (Joint Photographic Experts Group), PNG (Portable Network Graphics) and XMI (XML Metadata Interchange). The format must be in accordance with a fixed term of a Vocabulary Encoding Scheme.

Uses Vocabulary Encoding Scheme	[dcterms:IMT] Dublin Core Terms http://purl.org/dc/terms/IMT		[dc2apves:format] DC2AP Format Vocabulary http://purl.org/dc2ap/ves/format	

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
Mandatory, Fixed [dc2apft:xmi]	Mandatory, Fixed xmi, jpeg or png		Not permitted

Obligation	Mandatory
Condition	[n/a]
Minimum Occurrences	1
Maximum Occurrences	unbounded

Source [dc:source]

Property URI	http://purl.org/dc/elements/1.1/source
Qualified Name for Property	dc:source
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	Source
Label in this DCAP	[n/a]
Source Definition	A related resource from which the described resource is derived.
Usage in this DCAP	Reference to the analysis pattern used as the main intellectual source for creating the pattern documented.
Comments for this DCAP	The analysis pattern documented may have been derived from part of the source or even fully. The source 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 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/language
Qualified Name for Property	dc:language
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	Language
Label in this DCAP	[n/a]
Source Definition	A language of the resource.
Usage in this DCAP	Language used for documenting the analysis 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 Scheme	[dcterms:ISO639-3] Dublin Core Terms http://purl.org/dc/terms/ISO639-3

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
Optional	Mandatory		Not permitted

Obligation	Mandatory
Condition	[n/a]
Minimum Occurrences	1
Maximum Occurrences	1

Relation [dc:relation]

Property URI	http://purl.org/dc/elements/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	Agglutinating element of existing relationships between the analysis pattern documented and other patterns.
Comments for this DCAP	This element is not filled, because their data are concentrated in its element refinements.
Uses Vocabulary Encoding Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
Not permitted	Not permitted		Not permitted

Obligation	Conditional
Condition	If doesn't exists any relationship between the analysis pattern documented and another pattern, this element should not be registered.
Minimum Occurrences	0
Maximum Occurrences	1

Is Version Of [dcterms:isVersionOf]

Property URI	http://purl.org/dc/terms/isVersionOf
Qualified Name for Property	dcterms:isVersionOf
Defined By	Dublin Core Terms http://purl.org/dc/terms/
Type of Term	Property
Subproperty Of	[dc:relation] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/relation
Source Label	Is Version Of
Label in this DCAP	[n/a]
Source Definition	A related resource of which the described resource is a version, edition, or adaptation.
Usage in this DCAP	Reference to the first version of the analysis pattern documented.
Comments for this DCAP	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 has not earlier versions, this element refinement should not be registered.
Minimum Occurrences	0
Maximum Occurrences	1

Is Replaced By [dcterms:isReplacedBy]

Property URI	http://purl.org/dc/terms/isReplacedBy
Qualified Name for Property	dcterms:isReplacedBy
Defined By	Dublin Core Terms http://purl.org/dc/terms/
Type of Term	Property
Subproperty Of	[dc:relation] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/relation
Source Label	Is Replaced By
Label in this DCAP	[n/a]
Source Definition	A related resource that supplants, displaces, or supersedes the described resource.
Usage in this DCAP	References for all the most current versions of the analysis pattern documented.
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:replaces]

Property URI	http://purl.org/dc/terms/replaces
Qualified Name for Property	dcterms:replaces
Defined By	Dublin Core Terms http://purl.org/dc/terms/
Type of Term	Property
Subproperty Of	[dc:relation] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/relation
Source Label	Replaces
Label in this DCAP	[n/a]
Source Definition	A related resource that is supplanted, displaced, or superseded by the described resource.
Usage in this DCAP	References for all previous versions of the analysis pattern documented.
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]

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 first version, this element refinement should not be registered.
Minimum Occurrences	0
Maximum Occurrences	unbounded

Is Part Of [dcterms:isPartOf]

Property URI	http://purl.org/dc/terms/isPartOf
Qualified Name for Property	dcterms:isPartOf
Defined By	Dublin Core Terms http://purl.org/dc/terms/
Type of Term	Property
Subproperty Of	[dc:relation] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/relation
Source Label	Is Part Of
Label in this DCAP	[n/a]
Source Definition	A related resource in which the described resource is physically or logically included.
Usage in this DCAP	References for analysis patterns that contains the analysis pattern documented as part of its composition.
Comments for this DCAP	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 URI.
Uses Vocabulary Encoding Scheme	[not specified]

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

Has Part [dcterms:hasPart]

Property URI	http://purl.org/dc/terms/hasPart
Qualified Name for Property	dcterms:hasPart
Defined By	Dublin Core Terms http://purl.org/dc/terms/
Type of Term	Property
Subproperty Of	[dc:relation] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/relation
Source Label	Has Part
Label in this DCAP	[n/a]
Source Definition	A related resource that is included either physically or logically in the described resource.
Usage in this DCAP	References for analysis patterns which are contained as part of the composition of the analysis pattern documented.
Comments for this DCAP	Different references for analysis patterns which are contained by the analysis pattern documented can be registered, preferably using separate 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 Scheme	[not specified]

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

Is Designed With [dc2ap:isDesignedWith]

Property URI	http://purl.org/dc2ap/elements/isDesignedWith
Qualified Name for Property	dc2ap:isDesignedWith
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc:relation] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/relation
Source Label	Is Designed With
Label in this DCAP	[n/a]
Source Definition	Known design patterns that can be used during the implementation of the analysis pattern documented.
Usage in this DCAP	This element refinement 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 design patterns used during the implementation. Future users of the analysis pattern can be benefit from these reports. 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 Scheme	[not specified]

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

Should Avoid [dc2ap:shouldAvoid]

Property URI	http://purl.org/dc2ap/elements/shouldAvoid
Qualified Name for Property	dc2ap:shouldAvoid
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc:relation] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/relation
Source Label	Should Avoid
Label in this DCAP	[n/a]
Source Definition	Anti-patterns important to avoid common errors identified during the application of the analysis pattern documented.
Usage in this DCAP	This element refinement 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 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 Scheme	[not specified]			
	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

Complemented By [dc2ap:complementedBy]

Property URI	http://purl.org/dc2ap/elements/complementedBy
Qualified Name for Property	dc2ap:complementedBy
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc:relation] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/relation
Source Label	Complemented By
Label in this DCAP	[n/a]
Source Definition	Known analysis patterns that can be used to complement the analysis pattern documented.
Usage in this DCAP	This element refinement 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 Scheme	[not specified]			
	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/Elements/note
Qualified Name for Property	rdaelem:note
Defined By	RDA Group 1 Elements http://rdvocab.info/Elements/
Type of Term	Property
Subproperty Of	[dc:relation] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/relation
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 of the relationships established between the analysis pattern documented and other patterns.
Comments for this DCAP	The relationship description must be a string.

Uses Vocabulary Encoding Scheme	[not specified]			
	Value URI	**Value String**	**Syntax Encoding Scheme(s)**	**Rich 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/elements/1.1/coverage
Qualified Name for Property	dc:coverage
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	Coverage
Label in this DCAP	[n/a]
Source Definition	The spatial or temporal topic of the resource, the spatial applicability 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 analysis pattern documented. 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. The coverage must be a string.

Uses Vocabulary Encoding Scheme	[not specified]			
	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

Rights [dc:rights]

Property URI	http://purl.org/dc/elements/1.1/rights
Qualified Name for Property	dc:rights
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	Rights
Label in this DCAP	[n/a]
Source Definition	Information about rights held in and over the resource.
Usage in this DCAP	Existing rights on the analysis pattern documented.
Comments for this DCAP	Different rights can be registered, preferably using separate iterations of this element. The right can be described by a string or through referrals, for example, URLs (Uniform Resource Locator) for their respective approvals.

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	In the case of existence of known rights about the pattern, they must be registered no later to be transparency 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	Agglutinating element of historical data about the evolution of analysis pattern documented. 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 URI	**Value String**	**Syntax Encoding Scheme(s)**	**Rich Represent**
	Not permitted	Not permitted		Not permitted

Obligation	Mandatory
Condition	[n/a]
Minimum Occurrences	1
Maximum Occurrences	unbounded

Event Date [dc:date]

Property URI	http://purl.org/dc/elements/1.1/date
Qualified Name for Property	dc:date
Defined By	Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/
Type of Term	Property
Subproperty Of	[dc2ap:history] DC2AP Element Set http://purl.org/dc2ap/elements/history
Source Label	Date
Label in this DCAP	Event Date
Source Definition	A point or period of time associated with an event in the lifecycle of the resource.
Usage in this DCAP	Date of the historic event occurrence.
Comments for this DCAP	The event date must be in accordance with a format specification 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

Author [rdaroles:author]

Property URI	http://rdvocab.info/roles/author
Qualified Name for Property	rdaroles:author
Defined By	RDA Roles http://rdvocab.info/roles/
Type of Term	Property
Subproperty Of	[dc2ap:history] DC2AP Element Set http://purl.org/dc2ap/elements/history
Source Label	Author
Label in this DCAP	[n/a]
Source Definition	A person, family or corporate body responsible for the creation of a work.
Usage in this DCAP	Names of those 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]

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

Reason [dc2ap:reason]

Property URI	http://purl.org/dc2ap/elements/reason
Qualified Name for Property	dc2ap:reason
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:history] DC2AP Element Set http://purl.org/dc2ap/elements/history
Source Label	Reason
Label in this DCAP	[n/a]
Source Definition	Reason for the occurrence of the historical event.
Usage in this DCAP	This element refinement was defined for this DCAP.
Comments for this DCAP	The reason must be a string.
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	1

Changes [dc2ap:changes]

Property URI	http://purl.org/dc2ap/elements/changes
Qualified Name for Property	dc2ap:changes
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:history] DC2AP Element Set http://purl.org/dc2ap/elements/history
Source Label	Changes
Label in this DCAP	[n/a]
Source Definition	Changes made in the analysis pattern during the event of changes.
Usage in this DCAP	This element refinement was defined for this DCAP.
Comments for this DCAP	The change must be a string.
Uses Vocabulary Encoding Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
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
Maximum Occurrences	1

Requirements [dc2ap:requirements]

Property URI	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 of data about the requirements of the analysis pattern documented.
Usage in this DCAP	This element was defined for this DCAP.
Comments for this DCAP	This element is not filled, because their data are concentrated in its element refinements.
Uses Vocabulary Encoding Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich 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/elements/functionalRequirements
Qualified Name for Property	dc2ap:functionalRequirements
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:requirements] DC2AP Element Set http://purl.org/dc2ap/elements/requirements
Source Label	Functional Requirements
Label in this DCAP	[n/a]
Source Definition	Responsibilities and restrictions for meet each functional requirement of the analysis pattern.
Usage in this DCAP	This element refinement was defined for this DCAP.
Comments for this DCAP	Different functional requirements can be registered, preferably using separate iterations of this element refinement. The functional requirement must be a string.
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

Non-functional Requirements [dc2ap:nonFunctionalRequirements]

Property URI	http://purl.org/dc2ap/elements/nonFunctionalRequirements
Qualified Name for Property	dc2ap:nonFunctionalRequirements
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:requirements] DC2AP Element Set http://purl.org/dc2ap/elements/requirements
Source Label	Non-functional Requirements
Label in this DCAP	[n/a]
Source Definition	Responsibilities and restrictions for meet each non-functional requirement of the analysis pattern.
Usage in this DCAP	This element refinement was defined for this 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 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

Dependencies and Contributions [dc2ap:dependenciesAndContributions]

Property URI	http://purl.org/dc2ap/elements/dependenciesAndContributions
Qualified Name for Property	dc2ap:dependenciesAndContributions
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:requirements] DC2AP Element Set http://purl.org/dc2ap/elements/requirements
Source Label	Dependencies and Contributions
Label in this DCAP	[n/a]
Source Definition	Brief explanation about the identified relations of dependency and contributions among the requirements of the analysis pattern documented.
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 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	1

Dependency Graph [dc2ap:dependencyGraph]

Property URI	http://purl.org/dc2ap/elements/dependencyGraph
Qualified Name for Property	dc2ap:dependencyGraph
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:dependenciesAndContributions] DC2AP Element Set http://purl.org/dc2ap/elements/dependenciesAndContributions
Source Label	Dependency Graph
Label in this DCAP	[n/a]
Source Definition	Graph Diagram used to represent the identified relations of dependency among the requirements of the analysis pattern documented.
Usage in this DCAP	This element refinement was defined for this DCAP.
Comments for this DCAP	The dependency graph can be represented by an URI relative to a XMI file or image.
Uses Vocabulary Encoding Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
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/dc2ap/elements/contributionGraph
Qualified Name for Property	dc2ap:contributionGraph
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:dependenciesAndContributions] DC2AP Element Set http://purl.org/dc2ap/elements/dependenciesAndContributions
Source Label	Contribution Graph
Label in this DCAP	[n/a]
Source Definition	Graph diagram used to represent the identified relations of contribution among the requirements of the analysis pattern documented.
Usage in this DCAP	This element refinement was defined 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 URI	Value String	Syntax 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/elements/conflictAndResolution
Qualified Name for Property	dc2ap:conflictAndResolution
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:requirements] DC2AP Element Set http://purl.org/dc2ap/elements/requirements
Source Label	Conflict identification and Guidance to Resolution
Label in this DCAP	[n/a]
Source Definition	Brief explanation about the identified conflicts among the requirements of the 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 URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
Not permitted	Mandatory		Not permitted

Obligation	Conditional
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]

Property URI	http://purl.org/dc2ap/elements/priorities
Qualified Name for Property	dc2ap:priorities
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:requirements] DC2AP Element Set http://purl.org/dc2ap/elements/requirements
Source Label	Priorities diagram
Label in this DCAP	[n/a]
Source Definition	The priorities diagram represents the order which the requirements of the analysis pattern should be satisfied respecting their dependencies.
Usage in this DCAP	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 Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
Optional	Mandatory	[dcterms:URI]	Optional

Obligation	Mandatory
Condition	[n/a]
Minimum Occurrences	1
Maximum Occurrences	1

Participants [dc2ap:participants]

Property URI	http://purl.org/dc2ap/elements/participants
Qualified Name for Property	dc2ap:participants
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
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 the requirements of the analysis pattern.
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 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

Modelling [dc2ap:modelling]

Property URI	http://purl.org/dc2ap/elements/modelling
Qualified Name for Property	dc2ap:modelling
Defined By	DC2AP Element Set http://purl.org/dc2ap/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 defined for this DCAP.
Comments for this DCAP	This element is not filled, because their data are concentrated in its element refinements.

Uses Vocabulary Encoding Scheme	[not specified]			
	Value URI	**Value String**	**Syntax Encoding Scheme(s)**	**Rich Represent**
	Not permitted	Not permitted		Not permitted

Obligation	Mandatory
Condition	[n/a]
Minimum Occurrences	1
Maximum Occurrences	1

Behaviour [dc2ap:behaviour]

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
Subproperty Of	[dc2ap:modelling] DC2AP Element Set 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 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	1

Use Case Diagram [dc2ap:useCaseDiagram]

Property URI	http://purl.org/dc2ap/elements/useCaseDiagram
Qualified Name for Property	dc2ap:useCaseDiagram
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:behaviour] DC2AP Element Set http://purl.org/dc2ap/elements/behaviour
Source Label	Use Case Diagram
Label in this DCAP	[n/a]
Source Definition	Diagram used to represents a system that meets the requirements of the analysis pattern together with the entities which interact with them.
Usage in this DCAP	This element refinement was defined for this DCAP.
Comments for this DCAP	The use case diagram can be represented by an URI relative to a XMI file or image.
Uses Vocabulary Encoding Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
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/dc2ap/elements/collaborationSequenceDiagrams
Qualified Name for Property	dc2ap:collaborationSequenceDiagrams
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:behaviour] DC2AP Element Set http://purl.org/dc2ap/elements/behaviour
Source Label	Collaboration/Sequence Diagrams
Label in this DCAP	[n/a]
Source Definition	Collaboration and Sequence diagrams are used to create scenarios that represent the excecution of each use case of the analysis pattern.
Usage in this DCAP	This element refinement was defined for this DCAP.
Comments for this DCAP	These diagrams have an important role in the problem solution, 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 relative to a XMI file or image.
Uses Vocabulary Encoding Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
Optional	Mandatory	[dcterms:URI]	Optional

Obligation	Mandatory
Condition	[n/a]
Minimum Occurrences	1
Maximum Occurrences	unbounded

Activity/State Diagrams [dc2ap:activityStateDiagrams]

Property URI	http://purl.org/dc2ap/elements/activityStateDiagrams
Qualified Name for Property	dc2ap:activityStateDiagrams
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:behaviour] DC2AP Element Set http://purl.org/dc2ap/elements/behaviour
Source Label	Activity/State Diagrams
Label in this DCAP	[n/a]
Source Definition	Activity and State diagrams are used to represent the general behaviour of the system specified by the analysis pattern.
Usage in this DCAP	This element refinement 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 Scheme	[not specified]

Value URI	Value String	Syntax Encoding Scheme(s)	Rich Represent
Optional	Mandatory	[dcterms:URI]	Optional

Obligation	Optional
Condition	[n/a]
Minimum Occurrences	0
Maximum Occurrences	unbounded

Structure [dc2ap:structure]

Property URI	http://purl.org/dc2ap/elements/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] DC2AP Element Set http://purl.org/dc2ap/elements/modelling
Source Label	Structure
Label in this DCAP	[n/a]
Source Definition	Agglutinating element of the diagram and of the descriptions that make 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.

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	1

Class Diagram [dc2ap:classDiagram]

Property URI	http://purl.org/dc2ap/elements/classDiagram
Qualified Name for Property	dc2ap:classDiagram
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:structure] DC2AP Element Set http://purl.org/dc2ap/elements/structure
Source Label	Class Diagram
Label in this DCAP	[n/a]
Source Definition	Class diagram is the main part of the problem solution treated by the analysis pattern. This diagram should be created according with the objects identified by the behavioral model of the analysis pattern.
Usage in this DCAP	This element refinement was defined for this DCAP.
Comments for this DCAP	This diagram can be represented by an URI relative to a XMI file or image.

Uses Vocabulary Encoding Scheme	[not specified]			
	Value URI	**Value String**	**Syntax Encoding Scheme(s)**	**Rich Represent**
	Optional	Mandatory	[dcterms:URI]	Optional

Obligation	Mandatory
Condition	[n/a]
Minimum Occurrences	1
Maximum Occurrences	1

Class Descriptions [dc2ap:classDescriptions]

Property URI	http://purl.org/dc2ap/elements/classDescriptions
Qualified Name for Property	dc2ap:classDescriptions
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:structure] DC2AP Element Set http://purl.org/dc2ap/elements/structure
Source Label	Class Descriptions
Label in this DCAP	[n/a]
Source Definition	Brief description of each class of the class diagram.
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 class descriptions can be registered, preferably using separate iterations of this element refinement. The class description must be a string.
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

Relationship Descriptions [dc2ap:relationshipDescriptions]

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] DC2AP Element Set http://purl.org/dc2ap/elements/structure
Source Label	Relationship Descriptions
Label in this DCAP	[n/a]
Source Definition	Brief description of the main relationships present in the class diagram.
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 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

Solution Variants [dc2ap:solutionVariants]

Property URI	http://purl.org/dc2ap/elements/solutionVariants
Qualified Name for Property	dc2ap:solutionVariants
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:modelling] DC2AP Element Set http://purl.org/dc2ap/elements/modelling
Source Label	Solution Variants
Label in this DCAP	[n/a]
Source Definition	This element refinement presents alternative models of behaviour and structure to solve the problem treated by the analysis pattern.
Usage in this DCAP	This element refinement 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 may have modified the models proposed to better meet small problem variants. Future users of the analysis pattern can be benefit from these alternative models. Different solution variants can be registered, preferably using separate iterations of this element refinement. The solution variants can be represented by URI relative to XMI files or images.

Uses Vocabulary Encoding Scheme	[not specified]			
	Value URI	**Value String**	**Syntax Encoding Scheme(s)**	**Rich Represent**
	Optional	Mandatory	[dcterms:URI]	Optional

Obligation	Optional
Condition	[n/a]
Minimum Occurrences	0
Maximum Occurrences	unbounded

Resulting Context [dc2ap:resultingContext]

Property URI	http://purl.org/dc2ap/elements/resultingContext
Qualified Name for Property	dc2ap:resultingContext
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[n/a]
Source Label	Resulting Context
Label in this DCAP	[n/a]
Source Definition	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 Scheme	[not specified]			
	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]

Property URI	http://purl.org/dc2ap/elements/designGuidelines
Qualified Name for Property	dc2ap:designGuidelines
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[n/a]
Source Label	Design Guidelines
Label in this DCAP	[n/a]
Source Definition	This element presents general tips for the implementation of the documented analysis pattern.
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 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.

Uses Vocabulary Encoding Scheme	[not specified]			
	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/elements/consequences
Qualified Name for Property	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 element of descriptions of advantages and disadvantages of use the analysis pattern documented.
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.

Uses Vocabulary Encoding Scheme	[not specified]			
	Value URI	**Value String**	**Syntax Encoding Scheme(s)**	**Rich Represent**
	Not permitted	Not permitted		Not permitted

Obligation	Mandatory
Condition	[n/a]
Minimum Occurrences	1
Maximum Occurrences	1

Positive [dc2ap: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] DC2AP Element Set http://purl.org/dc2ap/elements/consequences
Source Label	Positive
Label in this DCAP	[n/a]
Source Definition	Positive consequences of the use of the analysis pattern documented.
Usage in this DCAP	This element refinement was defined for this 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 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

Negative [dc2ap:negative]

Property URI	http://purl.org/dc2ap/elements/negative
Qualified Name for Property	dc2ap:negative
Defined By	DC2AP Element Set http://purl.org/dc2ap/elements/
Type of Term	Property
Subproperty Of	[dc2ap:consequences] DC2AP Element Set http://purl.org/dc2ap/elements/consequences
Source Label	Negative
Label in this DCAP	[n/a]
Source Definition	Negative consequences of the use of the analysis pattern documented.
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 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

C. *Vocabulary Encoding Schemes descriptions*

DC2APtype [dc2apves:type]

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 Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc:type] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/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 Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc:format] Dublin Core Metadata Element Set, v1.1 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 Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc:format] Dublin Core Metadata Element Set, v1.1 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 Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc:language] Dublin Core Metadata Element Set, v1.1 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 Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc:identifier] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/identifier
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc:source] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/source
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc:rights] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/rights
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dcterms:isVersionOf] Dublin Core Terms http://purl.org/dc/terms/isVersionOf
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dcterms:isReplacedBy] Dublin Core Terms http://purl.org/dc/terms/isReplacedBy
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dcterms:replaces] Dublin Core Terms http://purl.org/dc/terms/replaces
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dcterms:isPartOf] Dublin Core Terms http://purl.org/dc/terms/isPartOf
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dcterms:hasPart] Dublin Core Terms http://purl.org/dc/terms/hasPart
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc2ap:isDesignedWith] DC2AP Element Set http://purl.org/dc2ap/elements/isDesignedWith

Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc2ap:shouldAvoid] DC2AP Element Set http://purl.org/dc2ap/elements/shouldAvoid
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc2ap:complementedBy] DC2AP Element Set http://purl.org/dc2ap/elements/complementedBy
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc2ap:dependencyGraph] DC2AP Element Set http://purl.org/dc2ap/elements/dependencyGraph
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc2ap:contributionGraph] DC2AP Element Set http://purl.org/dc2ap/elements/contributionGraph
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc2ap:priorities] DC2AP Element Set http://purl.org/dc2ap/elements/priorities
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc2ap:useCaseDiagram] DC2AP Element Set http://purl.org/dc2ap/elements/useCaseDiagram
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc2ap:collaborationSequenceDiagrams] DC2AP Element Set http://purl.org/dc2ap/elements/collaborationSequenceDiagrams
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc2ap:activityStateDiagrams] DC2AP Element Set http://purl.org/dc2ap/elements/activityStateDiagrams
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc2ap:classDiagram] DC2AP Element Set http://purl.org/dc2ap/elements/classDiagram
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc2ap:solutionVariants] DC2AP Element Set 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 Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dcterms:created] Dublin Core Terms http://purl.org/dc/terms/created
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dcterms:modified] Dublin Core Terms http://purl.org/dc/terms/modified
Used as Syntax Encoding Scheme For	Analysis Pattern [dc2aptp:analysisPattern] [dc:date] Dublin Core Metadata Element Set, v1.1 http://purl.org/dc/elements/1.1/date

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