

# ISO/IEC JTC 1/SC 29/WG 1 N2736

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## ***Coding of Still Pictures***

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- TITLE:** Mapping between Dublin Core and JPX metadata
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# Mapping between Dublin Core and JPX metadata

WG 1 N2736, version 1.1, 15 October 2002

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## Introduction

This document proposes a mapping between

- the Dublin Core Element Set, Version 1.1 (<http://dublincore.org/documents/1999/07/02/dces/>), and
- the JPX file format extended metadata definition, in Annex N of JPEG 2000 Part 2 (ISO/IEC 15444-2:2002), which is itself based on the DIG35 Specification of the Digital Imaging Group.

## Categorizations

Dublin Core was published earlier as RFC 2413 (<http://www.ietf.org/rfc/rfc2413.txt>) (now superseded by Version 1.1). This RFC provides the following categorization of elements into three groups:

Content	Intellectual Property	Instantiation
Title	Creator	Date
Subject	Publisher	Format
Description	Contributor	Identifier
Type	Rights	Language
Source		
Relation		
Coverage		

This categorization can be compared with that provided by the different types of JPX metadata, which are indicated in the mapping table below using the following key:

- C Image Creation
- D Content Description
- H History
- R Intellectual Property Rights
- I Image Identification

Because the approaches underlying the two metadata sets are somewhat different, each Dublin Core Element has been assigned to none, one, or more than one JPX category. In fact, although not shown in the table below, H is also implied by C, D or R, because history metadata can contain old versions of C, D, H or R (but not I) metadata.

## Mapping

Dublin Core Element Identifier	Value	JPX category	JPX element	ISO/IEC 15444-2 clause
Title		D	CAPTION	N.6.2
		R	IPR_TITLE	N.6.4.2
Subject		C	CAPTURED_ITEM	N.6.1
		D	CAPTION	N.6.2
		D	PERSON	N.6.2.1
		D	THING	N.6.2.2
		D	ORGANIZATION	N.6.2.3
		D	EVENT	N.6.2.4
		D	PROPERTY	N.6.2.8
		R	IPR_LEGEND	N.6.4.2
		R	IPR_CAPTION	N.6.4.2
		Description		D
C	CAPTURED_ITEM			N.6.1
R	IPR_DESCRIPTION			N.6.4.2
Type	Image		–	
Source		H	BASIC_IMAGE_PARAM	N.6.3.4
		C	CAPTURED_ITEM	N.6.1
Relation		H	BASIC_IMAGE_PARAM	N.6.3.4
		C	CAPTURED_ITEM	N.6.1
Coverage		D	LOCATION	N.6.2
		D	EVENT	N.6.2.4
Creator		C	IMAGE_CREATOR	N.6.1.1
		C	OPERATOR_ID	N.6.1.1
		C	OPERATOR_ORG	N.6.1.1
		R	IPR_NAMES	N.6.4.1
		R	IPR_CONTACT_POINT	N.6.4.9
Publisher		R	IPR_CONTACT_POINT	N.6.4.9
			IPR_NAMES	N.6.4.1
Contributor		D	PERSON	N.6.2.1
		C	OPERATOR_ID	N.6.1.1
		C	OPERATOR_ORG	N.6.1.1
		D	EVENT.PARTICIPANT	N.6.2.5
		R	IPR_NAMES	N.6.4.1
Rights		R	IPR	N.6.4
Date		C	CREATION_TIME	N.6.1.1
		D	CAPTURE_TIME	N.6.2
		D	EVENT.EVENT_TIME	N.6.2.4
		H	PROCESSING_SUMMARY.IMG_CREATED	N.6.3.1
		R	IPR_DATES	N.6.4.3

Dublin Core Element Identifier	Value	JPX category	JPX element	ISO/IEC 15444-2 clause
Format	image/jp2 image/jpx etc.		–	
Identifier		I	IMAGE_ID	N.6.5
		R	IPR_IDENTIFICATION	N.6.4.6
Language			–	

## Notes

1. **TIMESTAMP** could be a relevant target of DC:Date; however, it is an XML *attribute* applicable to many JPX elements – not an element itself.
2. DC:Rights could perhaps map more narrowly to lower-level IPR elements such as IPR\_EXPLOITATION (N.6.4.4) or IPR\_MGMT\_SYS (N.6.4.5).
3. We need to establish what's happening about the Internet media-types for JPEG 2000 (listed under DC:Format).
4. The vile colours are intended for drafting purposes only! They flag boundary differences between DC and JPX (although only some of them).
5. For the clause numbers, in some cases there is a choice of the element's own defining clause, or where it is included in an appropriate parent element; we should consider this further.
6. The directionality of the mappings, if any is implied, should be clarified. The DC:Type and DC:Format mappings could be regarded as *to* DC.