

IPTC Standard Photo Metadata (July 2014)

IPTC Core

Specification Version 1.2

IPTC Extension

Specification Version 1.1

Document Revision 1

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Acknowledgments

This document is the result of a team effort by members of the International Press Telecommunications Council, with input and assistance from other contributors.

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About the Standard

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About this Document

- This document specifies metadata properties intended to be used primarily, but not exclusively with photos.
- This document is a specification that may be revised to fix errata. Any changes will be indicated by a new document revision number.
 - Any changes to the specification will be reflected by a change of the version of the standard.
- This specification document will be supplemented by guidelines for end users and implementers of this specification.

Status of this Document

This document is under the governance of the IPTC Photo Metadata Working Group of the IPTC Standards Committee.

This is a specification document endorsed by IPTC members and may be updated, replaced or made obsolete by other documents at any time.

A public version of this specification document is available at:

http://www.iptc.org/std/photometadata/specification

and of related IPTC documents at

http://www.iptc.org/std/photometadata/documentation

Public comments should be sent to the forum and mailing list at:

http://tech.groups.yahoo.com/group/iptc-photometadata

A page with all errata not covered by the latest version of the Photo Metadata specifications (July 2014, document revision 1) is available at:

http://www.iptc.org/std/photometadata/specification/PhotoMetadataErrata.html



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Introduction to IPTC Photo Metadata

Overview

IPTC Photo Metadata provides data about photographs and the values can be processed by software. Each individual metadata entity is called a property and they are grouped into Administrative, Descriptive and Rights Related properties.

IPTC Photo Metadata properties have photo specific definitions that are widely supported by imaging software.

IPTC Photo Metadata aligns with other IPTC metadata standards that are made for media items of any media-type. Thus they integrate with media-type agnostic digital asset management systems.

The IPTC Photo Metadata (July 2010) specification is split into two different schemas:

- The **IPTC Core 1.1 schema** which refers back to properties from the IPTC "Information Interchange Model" (IIM) standard [IPTC IIM].
- The **IPTC Extension 1.1 schema** extends and complements the IPTC Core schema by a set of more granular properties and further specialised rights-related properties from the PLUS metadata schema [PLUS].

This allows users to decide whether ...

- ... to use only the IPTC Core schema that has a higher backward compatibility, but less refined metadata
- ... or to use the IPTC Core and the IPTC Extension schema with refined and specialised metadata, but restricted backward compatibility.

This document provides the latest specifications for both schemas.

Technical Metadata

Digital cameras capture metadata at the time the image is taken reflecting technical characteristics. Such metadata may include, but is not limited to, generic camera metadata, camera manufacturer-specific metadata, ICC profiles and positioning data. Standards for these metadata are not subject to IPTC Standards, but are under the control of the camera manufacturers, their associations (such as CIPA) and others. Because the IPTC acknowledges these technical metadata standards of other bodies and does not wish to duplicate existing metadata properties, the IPTC Photo Metadata specification does not include any technical metadata.

Beyond that the IPTC Photo Metadata Working Group has studied several photo business processes in the industry and discussed the requirements for the type of technical metadata and their handling in photo workflows. As a result, recommendations for persistent Technical Photo Metadata were formulated and are appended to this document as Addendum 1, but are not part of this standard. The recommendations are about the handling of metadata when photos are stored and processed and may provide useful guidelines for the design of a workflow.

History

In1990, the IPTC developed its "Information Interchange Model" (IIM) metadata property standard for exchanging news that was, by design, media-type agnostic and thus encouraged users to apply it to photos. A few years later, the software company Adobe Systems Inc. adopted a subset of IIM properties for its imaging software Photoshop and developed a metadata storage technology name "Image Resource Block" to embed the metadata properties in a header section of the image files. From that moment on, millions of photographs were annotated using IIM metadata.

In September 2001, Adobe introduced its new technical metadata framework "Extensible Metadata Platform (XMP)" [Adobe XMP] that will make the "Image Resource Blocks" sooner or later obsolete. The XML-based XMP technology is much more flexible and can deal better with globalisation requirements.

In 2004, the IPTC and Adobe jointly developed the "IPTC Core Schema for XMP" which is actually a redefinition of the IIM properties in the new XMP environment; only a few properties were added.

In 2007, the IPTC collected requirements from different sectors of the professional photography business – with a focus on news photography and stock photography – and published these requirements in its Photo Metadata White Paper 2007 [PhMdWP2007]. After receiving wide assent to this paper, the IPTC developed specifications for the "IPTC Extension Schema" and slightly revised the IPTC Core specifications. Both specifications are released in one document as "IPTC Photo Metadata" which was last updated in July 2010.

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Photo Metadata specification notation

The specification template

This specification document provides for each photo metadata property a full specification consisting of:

- A generic specification of its name, semantics, requirements and text to be used with the user interface of a software implementing this property
- A technical implementation specific for Adobe's XMP technology [Adobe XMP]
- A technical implementation specific to IPTC's G2-Standards. [IPTC G2-Standards]

The specifications of a Photo Metadata property are notated by a generic table. Please find below the template table with explanations for each row in the right column:

	A generic specification of the property which is agnostic to any implementation			
Generic Specification	technology.			
-	Property Group (in blue): descr iptive / admin istrative / rights rel ated / a data type definition			
NI	This property grouping is not normative, only an indicator of general semantics			
Name	The reference name of the property used by this specification This name shall never be translated			
D-finisi				
Definition	A media-type agnostic definition of the semantics of this property that may be translated for localization.			
Photo Definition	A photo-specific definition of the semantics of this property that may be translated for localization.			
Photo Help Text	A help text for this property which may be displayed by a generic help system of the user interface,			
	and should be translated for localization.			
User Note(s)	Any notes that apply to the end user of this property, should be translated for localization.			
Implementation Note(s)	Any notes that apply to parties implementing this property using any technology.			
Field label/title	Text appearing next to the entry field in the user interface, that should be translated for localization.			
Cardinality	How often this property may appear in a set of Photo Metadata for an image.			
	1 = is mandatory, 01 = one occurrence is optional, 1unbounded = multiple occurrences are			
	optional			
Basic data type	A recommended basic data type			
Required CV	The identifier for a controlled vocabulary that must be used with this property.			
Spec change history	A note in which version of the specification or, if there was an error in the specification document,			
	in which revision of this specification document a property was changed and how.			
XMP implementation	The implementation specification in the context of the Adobe XMP technology			
XMP namespace	The XMP namespace alias, see section "Names and Identifiers" of IPTC Core and IPTC Extension.			
XMP property id	The identifying name of the property			
XMP Value Type	The value type as per XMP specifications XMP Category External/Internal			
Implementation note(s)	Any note regarding the XMP-specific implementation			
Maps to this IIM property	If this XMP property is mapped to an IIM property its IIM Data Set id and name appears in this row.			
XMP/IIM mapping note(s)	Any note on how to access an XMP property for mapping it to the corresponding IIM property.			
	The technical implementation specification for IPTC G2-Standards			
G2 implementation	If this section is left empty no straightforward mapping is possible or recommended, because of			
	either blurred semantics of a photo property or not having an equivalent G2-property.			
Property name (XPath)				
	an XPath for a G2 item.			
Property-attribute(s)	Attributes of G2 properties as they should be used.			
QCode scheme	The scheme-URI of a required controlled vocabulary.			
Implementation note(s)	Any note regarding the G2-specific implementation.			

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Generic specification notes

The terms Metadata Property and Metadata Structure

The term Metadata Property is used for data about the image content. A metadata property can be made to hold only a single kind of value, or a structure of differ rent values, for which the term Metadata Structure is used.

Examples:

*The metadata property Description is made for only one kind of value, a text string, but may provide this value in different languages. It is important to understand that language translations are NOT a metadata structure.

* The property Artwork or Object in the Image is providing a structure of 6 sub-fields, and is not designed for only a single value.

For a property using a structure, the string "structure" is used in the "Basic data type" cell of its specification table. In this case, check the XMP Value Type cell of the table and refer to the corresponding structure identified in it.

For all structures specified by the IPTC this document includes the specification tables for all members of a structure.

For all structures specified by another standardisation body, in particular by PLUS, the specifications of the structure can only be found in the specification documents (website, PDF document ...) of this body.

(legacy) appended to a property name

This suffix is used if the IPTC Extension provides a better solution to annotate the information about an image than the IPTC Core does. In this case, the IPTC recommends to phase out the use of the (legacy)-marked property and to move towards using the IPTC Extension. See the notes on this matter in the particular specification table.

(DEPRECATED) appended to a property name

This suffix is used for properties which should not be used any longer. A reason for this is given in the spec table of the property and may include a recommendation to use a different property in the future.

Saving metadata values to files

The values of properties may be saved by both the IIM format and the XMP format in a single image file. A guideline on how to synchronise values existing in parallel is available from the Metadata Working Group [MetadataWG]



IPTC Core schema 1.1 specifications

Names and Identifiers

The **XML namespace URI** for the "IPTC Core" versions 1.0 and 1.1 is: http://iptc.org/std/Iptc4xmpCore/1.0/xmlns/

The **preferred XML namespace-prefix** for "IPTC Core" related XMP properties is: Iptc4xmpCore

The use of this namespace-prefix is not mandatory, but highly recommended for interoperability support.

These **other namespaces** are used in the scope of IPTC Core:

Name	URI	Recommended/used Prefix
Dublin Core	http://purl.org/dc/elements/1.1/	dc
Photoshop	http://ns.adobe.com/photoshop/1.0/	photoshop

User interfaces (like the custom panels in Adobe CS products) showing "IPTC Core" properties must refer to this schema as an "IPTC Core" or "IPTC" panel.

Metadata Properties

Generic Specification			2descr	
Name	City (legacy)			
Definition	Name of the city the content is focussing on either the place shown in visual media or			
	referenced by text or audio me geographical hierarchy.	edia. This element is a	t the third level of a top-down	
Photo Definition	Name of the city of the location	n shown in the image.	This element is at the third level of a	
	top-down geographical hierard	chy.		
Photo Help Text	Enter the name of the city pict			
User Note(s)				
Implementation Note(s)				
Field label/title	City			
Cardinality	01	Basic data type	free-text	
Required CV				
Spec change history	Legacy status assigned in v 1.	.1		
XMP implementation				
XMP namespace	photoshop	XMP property id	City	
XMP Value Type	Text	XMP Category	External	
Implementation note(s)				
Maps to this IIM property	2:90 City			
XMP/IIM mapping note(s)				
G2 implementation				
Property name (XPath)				
Property-attribute(s)				
QCode scheme				
Implementation note(s)	Do not map this property. Use either Location Created or Location Shown in the Image of the IPTC Extension schema if available.			

Generic Specification	2descr
Name	Country (legacy)
Definition	Full name of the country the content is focussing on either the country shown in visual media or referenced in text or audio media. This element is at the top/first level of a top-down geographical hierarchy. The full name should be expressed as a verbal name and not as a code, a code should go to the element "CountryCode"
Photo Definition	Full name of the country of the location shown in the image. This element is at the top/first level of a top-down geographical hierarchy. The full name should be expressed as a verbal name and not as a code, a code should go to the element "CountryCode"

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Photo Help Text	Enter the name of the country pictured in this image			
User Note(s)	This is a detail of a location with blurred semantics as it does not clearly indicate whether			
	it is the location in the image or the location the photo was taken - which can be different.			
		re available in IPTC E	Extension with Location Created and	
	Location Shown in the Image.			
Implementation Note(s)				
Field label/title	Country			
Cardinality	01	Basic data type	free-text	
Required CV				
Spec change history	Legacy status assigned in v 1.1			
XMP implementation				
XMP namespace	photoshop	XMP property id	Country	
XMP Value Type	Text	XMP Category	External	
Implementation note(s)				
Maps to this IIM property	2:101 Country/Primary Location	n Name		
XMP/IIM mapping note(s)				
G2 implementation				
Property name (XPath)				
Property-attribute(s)				
QCode scheme				
Implementation note(s)	Do not map this property. Use either Location Created or Location Shown in the Image of			
	the IPTC Extension schema if available.			

Generic Specification			2descr	
Name	Country Code (legacy)			
Definition	Code of the country the content is focussing on either the country shown in visual media			
			s at the top/first level of a top-down	
	geographical hierarchy. The code should be taken from ISO 3166 two or three letter code.			
	The full name of a country sho			
Photo Definition	Code of the country of the loca	ation shown in the ima	ge. This element is at the top/first	
			e should be taken from ISO 3166 two	
Dhata Hala Tart	or three letter code. The full na			
Photo Help Text			Country pictured in this image	
User Note(s)			s it does not clearly indicate whether o was taken - which can be different.	
			Extension with Location Created and	
	Location Shown in the Image.	ale avallable III II TO L	Exterision with Location Created and	
Implementation Note(s)	Lecation Chewn in the image.			
Field label/title	ISO Country Code			
Cardinality	01	Basic data type	CV-code	
Required CV	ISO 3166-1 - 2 or 3 characters			
Spec change history	Legacy status assigned in v 1.	1		
XMP implementation				
XMP namespace	Iptc4xmpCore	XMP property id	CountryCode	
XMP Value Type	closed choice Text	XMP Category	External	
Implementation note(s)			ne length of the value string whether	
		ne two or three letter s	cheme as no explicit indication can be	
	provided.	0 1		
Maps to this IIM property	2:100 Country/Primary Location Code			
XMP/IIM mapping note(s)				
G2 implementation				
Property name (XPath)				
Property-attribute(s)				
QCode scheme				
Implementation note(s)	Do not map this property. Use either Location Created or Location Shown in the Image of			
	the IPTC Extension schema if	available.		

Generic Specification	2descr
Name	Description
Definition	A textual description, including captions, of the item's content, particularly used where the object is not text.
Photo Definition	A textual description, including captions, of the image.
Photo Help Text	Enter a "caption" describing the who, what, and why of what is happening in this image,



	this might include names of people, and/or their role in the action that is taking place within the image.		
User Note(s)			
Implementation Note(s)			
Field label/title	Caption/Description		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	dc	XMP property id	description
XMP Value Type	Lang Alt	XMP Category	External
Implementation note(s)	Note: the XMP property (dc:description) which stores the value of this IPTC Core property is of type Lang Alt. Hence any software agent dealing with this property must abide to the processing rules for Lang Alt value type as specified by the XMP specifications.		
Maps to this IIM property	2:120 Caption/Abstract		·
XMP/IIM mapping note(s)	Use this XPath: dc:description	/*[@xml:lang='x-defau	ılt']
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/description		
Property-attribute(s)	@role="drol:caption"		
QCode scheme			
Implementation note(s)			

Generic Specification				2descr
Name	Headline			
Definition	A brief synopsis of the caption	. Headline is not the s	ame as Title.	
Photo Definition	A brief synopsis of the caption	. Headline is not the s	ame as Title.	
Photo Help Text	Enter a brief publishable syno	osis or summary of the	e contents of the image	
User Note(s)				
Implementation Note(s)				
Field label/title	Headline			
Cardinality	01	Basic data type	free-text	
Required CV				
Spec change history				
XMP implementation				
XMP namespace	photoshop	XMP property id	Headline	
XMP Value Type	Text	XMP Category	External	
Implementation note(s)				
Maps to this IIM property	2:105 Headline			
XMP/IIM mapping note(s)				
G2 implementation				
Property name (XPath)	/newsItem/contentMeta/headli	ne		
Property-attribute(s)		-		
QCode scheme		-		
Implementation note(s)	_	·		

Generic Specification	2descr		
Generic Specification			
Name	Intellectual Genre		
Definition	Describes the nature, intellectual, artistic or journalistic characteristic of a item, not specifically its content.		
Photo Definition	Describes the nature, intellectual, artistic or journalistic characteristic of an image.		
Photo Help Text	Enter a term to describe the nature of the image in terms of its intellectual or journalistic		
	characteristics, such as daybook, or feature (examples at: http://www.newscodes.org/)		
User Note(s)	The IPTC recognizes that the corresponding IPTC Genre NewsCodes needs photo specific extension to be better usable with this field (as of the release of this standard in the year 2008).		
Implementation Note(s)			
Field label/title	Intellectual genre		
Cardinality	01 Basic data type free-text		
Required CV	Optional: IPTC Genre NewsCodes		
Spec change history			



XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	IntellectualGenre
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note / Examples:		
Maps to this IIM property	Journalistic genres: actuality, i News category related genres: It is advised to use terms from 2:04 Object Attribute Reference	daybook, obituary, p	ress release, transcript
XMP/IIM mapping note(s)	2.04 Object / timbute (Cierche	<u> </u>	
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/genre/	@literal	
Property-attribute(s)		·	
QCode scheme			
Implementation note(s)			

Generic Specification			2descr
Name	Keywords		
Definition	Keywords to express the subject of the content. Keywords may be free text and don't		
			es from the controlled vocabulary
	IPTC Subject NewsCodes must go to the "Subject Code" field.		
Photo Definition			vords may be free text and don't have
			m the controlled vocabulary IPTC
B	Subject NewsCodes must go t		
Photo Help Text		s, terms or phrases us	ed to express the subject matter in
III NI-t-(-)	the image.		
User Note(s)	Cingle values of this field show		ain ala vianda bist mista allassifan
Implementation Note(s)	ohrases as well.	id not be restricted to	single words but must allow for
Field label/title	Keywords		
Cardinality	0unbounded	Basic data type	free-text
Required CV	Udribodrided	basic data type	nee-text
Spec change history			
XMP implementation			
XMP namespace	dc	XMP property id	subject
XMP Value Type	bag Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property	2:25 Keywords		
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject	t/@literal	
Property-attribute(s)		·	
QCode scheme			
Implementation note(s)			

Generic Specification			2descr
Name	Province or State (legac	y)	
Definition	content is focussing on either	er the subregion show	province or state or anything else the n in visual media or referenced by text of a top-down geographical hierarchy.
Photo Definition	Name of the subregion of a co the second level of a top-down		shown in the image. This element is at hy.
Photo Help Text	Enter the name of the province	or state pictured in the	nis image
User Note(s)	This is a detail of a location with blurred semantics as it does not clearly indicate whether it is the location in the image or the location the photo was taken - which can be different. Two more concise properties are available in IPTC Extension with Location Created and Location Shown in the Image.		
Implementation Note(s)	-		
Field label/title	Province/State		
Cardinality	01	Basic data type	string
Required CV			



Spec change history	Legacy status assigned in v 1.1		
XMP implementation			
XMP namespace	photoshop	XMP property id	State
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property	2:95 Province/State		
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Do not map this prope the IPTC Extension so	rty. Use either Location Creatochema if available.	ed or Location Shown in the Image of

Generic Specification			2descr	
Name	Scene Code			
Definition		s content. Specifies or	ne or more terms from the IPTC	
		cene is represented as	s a string of 6 digits in an unordered	
Photo Definition	Describes the scene of a photo	list. Describes the scene of a photo content. Specifies one ore more terms from the IPTC "Scene-NewsCodes". Each Scene is represented as a string of 6 digits in an unordered list		
Photo Help Text	Enter only values from the IPT http://www.newscodes.org/)	C Scene NewsCodes	Controlled Vocabulary (see:	
User Note(s)				
Implementation Note(s)				
Field label/title	IPTC Scene Code			
Cardinality	0unbounded	Basic data type	CV-code	
Required CV	IPTC Scene NewsCodes	•		
Spec change history				
XMP implementation				
XMP namespace	Iptc4xmpCore	XMP property id	Scene	
XMP Value Type	bag closed choice Text	XMP Category	External	
Implementation note(s)	Note: Only Scene values from	this IPTC taxonomy s	should be used here. More about the	
	IPTC Scene-NewsCodes at w	ww.newscodes.org.		
Maps to this IIM property				
XMP/IIM mapping note(s)				
G2 implementation				
Property name (XPath)	/newsItem/contentMeta/genre/	@qcode		
Property-attribute(s)		•		
QCode scheme	IPTC Scene NewsCodes			
Implementation note(s)				

Generic Specification			2descr
Name	Subject Code		
Definition	Specifies one or more Subjects from the IPTC Subject-NewsCodes taxonomy to categorise the content. Each Subject is represented as a string of 8 digits in an unordered list.		
Photo Definition	Specifies one or more Subjects from the IPTC Subject-NewsCodes taxonomy to categorise the image. Each Subject is represented as a string of 8 digits in an unordered list.		
Photo Help Text	Enter only values from the IPT http://www.newscodes.org/)	C Subject NewsCode	Controlled Vocabulary (see:
User Note(s)			
Implementation Note(s)			
Field label/title	IPTC Subject Code		
Cardinality	0unbounded	Basic data type	CV-code
Required CV	IPTC Subject NewsCodes		
Spec change history			



XMP implementation				
XMP namespace	Iptc4xmpCore	XMP property id	SubjectCode	
XMP Value Type	bag closed choice Text	XMP Category	External	
Implementation note(s)	Note: Only Subjects from a controlled vocabulary should be used here, free text has to be put into the Keyword element. More about IPTC Subject-NewsCodes at www.newscodes.org.			
Maps to this IIM property	2:12 Subject Reference	2:12 Subject Reference		
XMP/IIM mapping note(s)				
G2 implementation				
Property name (XPath)	/newsItem/contentMeta/subject	t/@qcode		
Property-attribute(s)	-			
QCode scheme	IPTC Subject NewsCodes			
Implementation note(s)				

Generic Specification			2descr
Name	Sublocation (legacy)		
Definition	Name of a sublocation the content is focussing on either the location shown in visual		
	media or referenced by text or audio media. This location name could either be the name		
	of a sublocation to a city or the name of a well known location or (natural) monument		
	outside a city. In the sense of a sublocation to a city this element is at the fourth level of a		
	top-down geographical hierard		
Photo Definition	Exact name of the sublocation	shown in the image.	This sublocation name could either be
			well known location or (natural)
			ion to a city this element is at the
Photo Help Text	fourth level of a top-down geog Enter the name of the Subloca		2200
User Note(s)			as it does not clearly indicate whether
030114010(3)			to was taken - which can be different.
			Extension with Location Created and
	Location Shown in the Image.		
Implementation Note(s)			
Field label/title	Sublocation		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history	Legacy status assigned in v 1.	.1	
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	Location
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property	2:92 Sublocation		
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Do not map this property. Use the IPTC Extension schema if		ed or Location Shown in the Image of

Generic Specification	3admin		
Name	Date Created		
Definition			lectual content was created rather
	than the date of the creation of	f the physical represe	ntation.
Photo Definition	Designates the date and option	nally the time the cont	ent of the image was created rather
	than the date of the creation of	f the digital representa	ation.
Photo Help Text	Enter the Date the image was	taken	
User Note(s)			
Implementation Note(s)	If a software system requires explicit time values and no time is given by the Date Created property the software system should default the time to 00:00:00. If the software system does not require an explicit time value the time part should be left empty as it is.		
Field label/title	Date Created		
Cardinality	01	Basic data type	DateTime (preferred: truncated DateTime)



Required CV			
Spec change history			
XMP implementation			
XMP namespace	photoshop	XMP property id	DateCreated
XMP Value Type	Date	XMP Category	External
Implementation note(s)	Note 1: Any content of the IIM dataset 2:60, Time Created, should be merged to this element. Note 2: Implementers are encouraged to provide the creation date and time from the EXIF data of a digital camera to the user for entering this date for the first time.		
Maps to this IIM property	2:55 Date Created		
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/contentCreated		
Property-attribute(s)			
QCode scheme			
Implementation note(s)		·	

Generic Specification			3admin
Name	Description Writer		
Definition	Identifier or the name of the pe	erson involved in writir	ng, editing or correcting the description
	of the content.		
Photo Definition		erson involved in writir	ng, editing or correcting the description
	of the image.		
Photo Help Text		involved in writing, edi	ting or correcting the description of
	the image		
User Note(s)			
Implementation Note(s)			
Field label/title	Caption/Description writer		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	photoshop	XMP property id	CaptionWriter
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property	2:122 Writer/Editor		
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsitem/contentMeta/contributor		
Property-attribute(s)	@role="ctrol:descrWriter"		
QCode scheme		·	
Implementation note(s)			

Generic Specification	3admin	
Name	Instructions	
Definition	Any of a number of instructions from the provider or creator to the receiver of the item.	
Photo Definition	Any of a number of instructions from the provider or creator to the receiver of the image which might include any of the following: embargoes (NewsMagazines OUT) and other restrictions not covered by the "Rights Usage Terms" field; information regarding the original means of capture (scanning notes, colourspace info) or other specific text information that the user may need for accurate reproduction; additional permissions required when publishing; credits for publishing if they exceed the IIM length of the credit field	
Photo Help Text	Enter information about embargoes, or other restrictions not covered by the Rights Usage field	
User Note(s)		
Implementation Note(s)		
Field label/title	Instructions	
Cardinality	01 Basic data type free-text	
Required CV		
Spec change history		



XMP implementation			
XMP namespace	photoshop	XMP property id	Instructions
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property	2:40 Special Instruction		
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/itemMeta/edNote		
Property-attribute(s)			
QCode scheme			
Implementation note(s)		·	•

Generic Specification			3admin
Name	Job Id		
Definition	Number or identifier for the pu	rpose of improved wo	rkflow handling. This is a user created
	identifier related to the job for		
Photo Definition	Number or identifier for the pu	rpose of improved wo	rkflow handling. This is a user created
	identifier related to the job for	which the image is su	pplied.
Photo Help Text	Enter a number or identifier ne	eded for workflow cor	ntrol or tracking
User Note(s)			
Implementation Note(s)			
Field label/title	Job Identifier		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	photoshop	XMP property id	TransmissionReference
XMP Value Type	Text	XMP Category	External
Implementation note(s)			er's workflow it must first be issued by
			der of the news object and finally
	added by the creator to this fie	eld.	
Maps to this IIM property	2:103 Original Transmission R	teference	
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/itemMeta/member0	Of/@literal	,
Property-attribute(s)			
QCode scheme			
			· · · · · · · · · · · · · · · · · · ·

Generic Specification			3admin
Name	Title		
Definition	A shorthand reference for the i	tem. Title provides a	short human readable name which
	can be a text and/or numeric re	eference. It is not the	same as Headline.
Photo Definition	A shorthand reference for the	digital image. Title pro	ovides a short human readable name
	which can be a text and/or nun	neric reference. It is n	ot the same as Headline.
Photo Help Text	Enter a short verbal and huma	n readable name for t	the image, this may be the file name
User Note(s)			mage, though the field may be used
			Digital Image Id, or the Registry
	Entry property of the IPTC Exte	ension.	
Implementation Note(s)			
Field label/title	Title		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	dc	XMP property id	title
XMP Value Type	Lang Alt	XMP Category	External
Implementation note(s)	Note 1: This element aligns with the use of Dublin Core's "Title" element.		
			value of this IPTC Core property is of
	type Lang Alt. Hence any software agent dealing with this property must abide to the		
	processing rules for Lang Alt value type as specified by the XMP specifications.		



Maps to this IIM property	2:05 Object Name
XMP/IIM mapping note(s)	Use this XPath: dc:title/*[@xml:lang='x-default']
G2 implementation	
Property name (XPath)	/newsItem/itemMeta/title
Property-attribute(s)	
QCode scheme	
Implementation note(s)	

Generic Specification			4rightrel
•	O a serial d Nadia		4ngnitei
Name	Copyright Notice	 	
Definition	Contains any necessary copyright notice for claiming the intellectual property for this item		
			nt for the item. Other entities like the
			ng field. Notes on usage rights should
Disate Definition	be provided in "Rights usage to		n the sintelle street many arts for this
Photo Definition			g the intellectual property for this
			the copyright for the photograph. be added in the corresponding field.
	Notes on usage rights should l		
Photo Help Text			t for this image, such as ©2008 Jane
Filoto Help Text	Doe	owner or the copyright	tion this image, such as @2000 Jane
User Note(s)		ynressed in a more co	ontrolled way using the PLUS fields
0361 14016(3)	"Copyright Owner", "Copyright		
			values of the four fields in sync.
Implementation Note(s)	Exteriorem it to the deer of roop	orioiomity to hoop the t	raidos of the four heide in cyric.
Field label/title	Copyright Notice		
Cardinality	01	Basic data type	free-text
Required CV		71	
Spec change history			
XMP implementation			
XMP namespace	dc	XMP property id	rights
XMP Value Type	Lang Alt	XMP Category	
Implementation note(s)	Note: the XMP property (dc:rig		value of this IPTC Core property is of
			th this property must abide to the
	processing rules for Lang Alt v	alue type as specified	I by the XMP specifications.
Maps to this IIM property	2:116 Copyright Notice		
XMP/IIM mapping note(s)	Use this XPath: dc:rights/*[@xml:lang='x-default']		
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/copyrightNotice		
Property-attribute(s)			
QCode scheme			-
Implementation note(s)			

Generic Specification			4rightrel
Name	Creator		
Definition			ontent of this item, a photographer for
			extual news, but in cases where the
	photographer should not be id-	entified the name of a	company or organisation may be
	appropriate.		
Photo Definition	•	• .	s where the photographer should not
	be identified the name of a cor		
Photo Help Text	Enter the name of the person t	that created this image	е
User Note(s)			vay using the "Image Creator" of
			ser's responsibility to keep the values
	of the IPTC Core and the PLU		
Implementation Note(s)		perty with PLUS' Imag	ge Creator Name should be supported
	by software.		
Field label/title	Creator		
Cardinality	0unbounded	Basic data type	string
Required CV			
Spec change history	Specs (July 2010): mapping IIM <-> XMP aligned to the unbounded cardinality of both the		
	IIM and the XMP property		
XMP implementation			
XMP namespace	dc	XMP property id	creator



XMP Value Type	Seq ProperName	XMP Category	External
Implementation note(s)			
Maps to this IIM property	2:80 By-line		
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/creato	or/name	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			4rightrel
Name	Creator's Contact Info		g.u.e.
Definition		on provides all peces	sary information to get in contact with
Deminion			roperties for proper addressing.
Photo Definition	The creator's contact information provides all necessary information to get in contact with		
Those Benninger			-properties for proper addressing.
Photo Help Text	3	•	1 1 3
User Note(s)	The IPTC Extension Licensor f	fields should be used	instead of these Creator's Contact
, ,			he creator is also the licensor his or
	her contact information should	be provided in the Lic	censor fields.
Implementation Note(s)	The structure of Creator's Con-	tact Info should not be	e visible to the user.
Field label/title	Creator's Contact info		
Cardinality	01	Basic data type	struct
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CreatorContactInfo
XMP Value Type	struct ContactInfo	XMP Category	External
Implementation note(s)	Note 1 to user interface implen		erties of "Creator's contact
	information" should be shown a	as group on the form.	
		sub-properties' nami	ng aligns with the vCard specification
NA t- this UNA	RFC 2426.		
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/creato	r/personDetails	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			4rightrel
Name	Creator's jobtitle		
Definition	Contains the job title of the person who created the content of this item. As this is sort of a qualifier the Creator element has to be filled in as mandatory prerequisite for using Creator's Jobtitle.		
Photo Definition	has to be filled in as mandator	y prerequisite for usin	
Photo Help Text	Enter the Job Title of the person	on listed in the Creato	r field
User Note(s)			
Implementation Note(s)			
Field label/title	Creator's Jobtitle		
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	photoshop	XMP property id	AuthorsPosition
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1 {added in (July 2010)}:	corresponds to the fir	st entry in a sequence of creators
Maps to this IIM property	2:85 By-line Title		
XMP/IIM mapping note(s)		-	



G2 implementation	
Property name (XPath)	/newsItem/contentMeta/creator/facet
Property-attribute(s)	
QCode scheme	
Implementation note(s)	

Generic Specification			4rightrel
Name	Credit Line		
Definition	The credit to person(s) and/or	organisation(s) requir	ed by the supplier of the item to be
	used when published. This is		
Photo Definition			ed by the supplier of the image to be
	used when published. This is		
Photo Help Text	Enter who should be credited		
User Note(s)			r or the owner of the copyrights of this
	image other rights properties n		
			metadata, then it was renamed to
			s been renamed to "Credit Line" as the
	field is used for this purpose by	y many users.	
Implementation Note(s)			
Field label/title	Credit Line		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history	Renamed from Provider to Cre	edit Line in v 1.1	
XMP implementation			
XMP namespace	photoshop	XMP property id	Credit
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property	2:110 Credit		
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/creditli	ne	
Property-attribute(s)			
QCode scheme			
Implementation note(s)		·	

Generic Specification			4rightrel
Name	Rights Usage Terms		
Definition	The licensing parameters of th	ne item expressed in fr	ree-text.
Photo Definition	The licensing parameters of the	ne image expressed in	free-text.
Photo Help Text	Enter instructions on how this	image can legally be	used
User Note(s)	The PLUS fields of the IPTC E usage in more controlled terms		in parallel to express the licensed
Implementation Note(s)			
Field label/title	Rights Usage Terms		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	xmpRights	XMP property id	UsageTerms
XMP Value Type	Lang Alt	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/usageTer	rms	
Property-attribute(s)	_	·	
QCode scheme	_	·	
Implementation note(s)			



Generic Specification			4rightrel
Name	Source		
Definition			content supply chain. This could be
			a combination. Source could be
	different from Creator and from		
Photo Definition			content supply chain. This could be
			a combination. Source could be
	different from Creator and from		
Photo Help Text			a role in the content supply chain,
	such as a person or entity from		
User Note(s)	This field may be used primari	y in syndication workt	flows.
Implementation Note(s)			
Field label/title	Source		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history	Changed by IPTC Core 1.2, 20)14-06	
XMP implementation			
XMP namespace	photoshop	XMP property id	Source
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property	2:115 Source		
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/copyrightI	Holder	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Metadata Structure: Contact Information Details

Generic Specification			9type-ContInfo
Name	Contact Information Details structure {data type}		
Definition	A generic structure providing a basic set of information to get in contact with a person or		
	organisation. It includes an Address, a City, a Country, Email address, Phone number, a		
	Postal Code, a State or Provin		
Photo Definition			on to get in contact with a person or
	organisation. It includes an Ad Postal Code, a State or Provin		ry, Email address, Phone number, a
Photo Help Text	·		
User Note(s)			
Implementation Note(s)			
Field label/title	Contact Information		
Cardinality		Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	ContactInfoDetails
XMP Value Type	structure	XMP Category	
Implementation note(s)	Adoption of an appropriate per	son information sche	me discussed - decision on 9
	September.		
Maps to this IIM property	2:118 Contact		
XMP/IIM mapping note(s)	NONE		
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme		·	·
Implementation note(s)	Maps to the "contactInfo" comi	mon component	



Generic Specification			9type-ContInfo
Name	Address (contact info de	etail}	
Definition	The contact information address part. Comprises an optional company name and all required information to locate the building or postbox to which mail should be sent. To that end, the address is a multiline field.		
Photo Definition	The contact information address part. Comprises an optional company name and all required information to locate the building or postbox to which mail should be sent. To that end, the address is a multiline field.		
Photo Help Text	Enter Address for the person the	hat created this image)
User Note(s)			
Implementation Note(s)			
Field label/title	(Contact Info detail:) Address	Б :	
Cardinality	0unbounded	Basic data type	string
Required CV			
Spec change history	1		
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiAdrExtadr
XMP Value Type	Text	XMP Category	External
Implementation note(s)	group on the form.		ould be part of a "Contact information"
Maps to this IIM property	Note 2: the ContactInfo naming	g aligns with the voar	u specification RFC 2426.
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/contactInfo/address/line		
Property-attribute(s) QCode scheme			
Implementation note(s)			
implementation note(3)			
Generic Specification			9type-ContInfo
Name	City {contact info detail}		9type-Contlnfo
Name Definition	The contact information city pa	art.	9type-ContInfo
Name Definition Photo Definition	The contact information city pa The contact information city pa	art. art.	
Name Definition Photo Definition Photo Help Text	The contact information city pa	art. art.	
Name Definition Photo Definition Photo Help Text User Note(s)	The contact information city pa The contact information city pa	art. art.	
Photo Definition Photo Help Text User Note(s) Implementation Note(s)	The contact information city pa The contact information city pa Enter the City for the address of	art. art.	
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title	The contact information city pa The contact information city pa Enter the City for the address of (Contact Info detail:) City	art. art. of the person that crea	ated this image
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality	The contact information city pa The contact information city pa Enter the City for the address of	art. art.	ated this image
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV	The contact information city pa The contact information city pa Enter the City for the address of (Contact Info detail:) City	art. art. of the person that crea	ated this image
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history	The contact information city pa The contact information city pa Enter the City for the address of (Contact Info detail:) City	art. art. of the person that crea	ated this image
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation	The contact information city particle and	art. of the person that create Basic data type	ated this image
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace	The contact information city particle and the contact information city particle and the city for the address of the contact Info detail:) City 01	Basic data type XMP property id	string CiAdrCity
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation	The contact information city particle and	Basic data type XMP property id XMP Category	ated this image
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s)	The contact information city particle and the contact information city particle and the contact information city particle and the city for the address of the contact info detail:) City 01 Iptc4xmpCore Text Note 1: to user interface imples	Basic data type XMP property id XMP Category menters: This field sho	string CiAdrCity External ould be part of a "Contact information"
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property	The contact information city particle and	Basic data type XMP property id XMP Category menters: This field sho	string CiAdrCity External ould be part of a "Contact information"
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s)	The contact information city particle and	Basic data type XMP property id XMP Category menters: This field sho	string CiAdrCity External ould be part of a "Contact information"
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation	The contact information city particle in the contact information city particle in the contact information city particle in the city for the address of the contact information city particle in the conta	Basic data type XMP property id XMP Category menters: This field shi	string CiAdrCity External ould be part of a "Contact information"
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath)	The contact information city particle and	Basic data type XMP property id XMP Category menters: This field shi	string CiAdrCity External ould be part of a "Contact information"
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s)	The contact information city particle in the contact information city particle in the contact information city particle in the city for the address of the contact information city particle in the conta	Basic data type XMP property id XMP Category menters: This field shi	string CiAdrCity External ould be part of a "Contact information"
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme	The contact information city particle in the contact information city particle in the contact information city particle in the city for the address of the contact information city particle in the conta	Basic data type XMP property id XMP Category menters: This field shi	string CiAdrCity External ould be part of a "Contact information"
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s)	The contact information city particle in the contact information city particle in the contact information city particle in the city for the address of the contact information city particle in the conta	Basic data type XMP property id XMP Category menters: This field shi	string CiAdrCity External ould be part of a "Contact information"
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s)	The contact information city particle in the contact information city particle in the contact information city particle in the city for the address of the contact information city particle in the conta	Basic data type XMP property id XMP Category menters: This field shi	string CiAdrCity External ould be part of a "Contact information" d specification RFC 2426.
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s)	The contact information city particle and city particle and the contact information city particle and city particl	Basic data type XMP property id XMP Category menters: This field sho	string CiAdrCity External ould be part of a "Contact information"
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s)	The contact information city particle in the contact information city particle in the contact information city particle in the city for the address of the contact information city particle in the conta	Basic data type XMP property id XMP Category menters: This field short g aligns with the vCare	string CiAdrCity External ould be part of a "Contact information" d specification RFC 2426.

Photo Definition The contact information country part.



User Note(s)			
Implementation Note(s)			
Field label/title	(Contact Info detail:) Country		
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiAdrCtry
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1: to user interface imple	menters: This field sh	ould be part of a "Contact information"
	group on the form.		
	Note 2: the ContactInfo naming	g aligns with the vCar	d specification RFC 2426.
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/contactInfo/address/country	/name	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			9type-ContInfo
Name	Email address(es) {contact info detail}		
Definition	The contact information email	address part.	
Photo Definition	The contact information email		
Photo Help Text	Enter the work Email address(name@domain.com	(es) for the person tha	t created this image, such as
User Note(s)	Multiple email addresses can l interface.	be given. May have to	be separated by a comma in the user
Implementation Note(s)			
Field label/title	(Contact Info detail:) Email(s)		
Cardinality	0unbounded	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiEmailWork
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1 to user interface implementers: This field should be part of a "Contact information" group on the form. Note 2 to user interface implementers: provide sufficient space to fill in multiple e-mail addresses. Note 3: the ContactInfo naming aligns with the vCard specification RFC 2426.		
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/contactInfo/email		
Property-attribute(s)			
QCode scheme		·	
Implementation note(s)			

Generic Specification			9type-ContInfo
Name	Phone number(s) {contact	ct info detail}	
Definition	The contact information phone	number part.	
Photo Definition	The contact information phone	number part.	
Photo Help Text	Enter the work Phone number(s) for the person that	created this image, using the
	international format, such as +7	1 (123) 456789	
User Note(s)	Multiple numbers can be given	. May have to be sepa	arated by a comma in the user
	interface.		
Implementation Note(s)			
Field label/title	(Contact Info detail:) Phone(s)		
Cardinality	0unbounded	Basic data type	string
Required CV			



Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiTelWork
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1 to user interface implementers: This field should be part of a "Contact information" group on the form. Note 2 to user interface implementers: provide sufficient space to fill in multiple international numbers. Note 3: the ContactInfo naming aligns with the vCard specification RFC 2426.		
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/contactInfo/phone		
Property-attribute(s)		<u>-</u>	
QCode scheme			
Implementation note(s)			

Generic Specification			9type-ContInfo
Name	Postal Code {contact info detail}		
Definition	The contact information part de	enoting the local posta	al code.
Photo Definition	The contact information part de	enoting the local posta	al code.
Photo Help Text	Enter the Postal Code for the a	address of the person	that created this image
User Note(s)			
Implementation Note(s)			
Field label/title	(Contact Info detail:) Postal Co	ode	
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiAdrPcode
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1: to user interface implementers: This field should be part of a "Contact information" group on the form. Note 2: the ContactInfo naming aligns with the vCard specification RFC 2426.		
Maps to this IIM property	,	<u> </u>	
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/contactInfo/address/postalC	ode	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			9type-ContInfo
Name	State/Province {contact info detail}		
Definition	The contact information part denoting regional information such as state or province.		
Photo Definition	The contact information part d	enoting regional inforr	mation such as state or province.
Photo Help Text	Enter the State for the address	s of the person that cr	eated this image
User Note(s)			
Implementation Note(s)			
Field label/title	(Contact Info detail:) State/Pro	vince	
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpCore	XMP property id	CiAdrRegion
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1: to user interface imple group on the form. Note 2: the ContactInfo namin		ould be part of a "Contact information"



Maps to this IIM property	
XMP/IIM mapping note(s)	
G2 implementation	
Property name (XPath)	/contactInfo/address/area
Property-attribute(s)	
QCode scheme	
Implementation note(s)	

Canaria Specification			Otrona Canthafa
Generic Specification			9type-ContInfo
Name	Web URL(s) {contact info		
Definition	The contact information web a	ddress part. Multiple a	addresses can be given, separated by
	a comma.		
Photo Definition			addresses can be given. May have to
	be separated by a comma in the user interface.		
Photo Help Text	Enter the work Web URL(s) for	r the person that crea	ted this image, such as
	http://www.domain.com/		
User Note(s)			
Implementation Note(s)			
Field label/title	(Contact Info detail:) Web URL	_(s)	
Cardinality	0unbounded	Basic data type	URL
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiUrlWork
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1 to user interface implem	nenters: This field sho	ould be part of a "Contact information"
	group on the form.		
	Note 2 to user interface implen	nenters: provide suffic	cient space to fill in multiple URLs.
	Note 3: the ContactInfo naming	g aligns with the vCar	d specification RFC 2426.
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/contactInfo/web	·	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

"Deprecated" IIM metadata elements

Not all of the IIM datasets adopted by Adobe to be used for the Photoshop File Info have been adopted for the IPTC Core schema. In terms of mapping and transferring metadata from the legacy IIM-based headers, these datasets must to be considered as deprecated:

Urgency: As this metadata element pertains to distribution management, it was not adopted. However, this data is still synchronised with the XMP property "photoshop:Urgency", and hence, available for future use, but outside the IPTC Core.

Category: As this metadata element was earmarked as deprecated already for IIM 4.1, it was not adopted. However, this data is still synchronised with the XMP property "photoshop:Category", and hence available for future use – but outside the IPTC Core.

For migrating from Category codes to Subject Codes please read the Guideline for mapping Category Codes to Subject NewsCodes section below.

Supplemental Categories: As this metadata element was earmarked as deprecated already for IIM 4.1, it was not adopted. However, this data is still synchronised with the XMP property

"photoshop:SupplementalCategories", and hence available for future use – but outside the IPTC Core.

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Synchronising IIM elements with existing XMP properties

This table shows how legacy metadata elements from the "IPTC header" – which were taken from the IPTC Information Interchange Model IIM are synchronised by Adobe Photoshop CS with XMP properties.

< legacy II	PTC headers>	XMP
Photoshop name	IIM name	Mapping (XPath expression)
Title	2:05 Object Name	dc:title/*[@xml:lang='x-default']
Urgency	2:10 Urgency	photoshop:Urgency
Category	2:15 Category	photoshop:Category
Supplemental Categories	2:20 Supplemental Category	photoshop:SupplementalCategories
Keywords	2:25 Keywords	dc:subject
Instructions	2:40 Special Instruction	photoshop:Instructions
Date Created	2:55 Date Created	photoshop:DateCreated
Author	2:80 By-line	dc:creator
AuthorsPosition	2:85 By-line Title	photoshop:AuthorsPosition
City	2:90 City	photoshop:City
State/Province	2:95 Province/State	photoshop:State
Country	2:101 Country/Primary Location Name	photoshop:Country
Transmission Reference	2:103 Original Transmission Reference	photoshop:TransmissionReference
Headline	2:105 Headline	photoshop:Headline
Credit	2:110 Credit	photoshop:Credit
Source	2:115 Source	photoshop:Source
Copyright Notice	2:116 Copyright Notice	dc:rights/*[@xml:lang='x-default']
		dc:description/*[@xml:lang='x-
Description	2:120 Caption/Abstract	default']
Description Writer	2:122 Writer/Editor	photoshop:CaptionWriter

As of July 2010.

For the exact processing while synchronising metadata values please read the Guidelines for Handling Image Metadata from the Metadata Working Group. The document can be obtained from http://www.metadataworkinggroup.org/specs/



Guideline for mapping Category Codes to Subject NewsCodes

Early versions of IIM included the Datasets 2:15 "Category" and 2:20 "Supplemental Category". But these two fields were replaced in IIM version 4 (released in 1999) by the Dataset 2:12 "Subject Reference" which must be populated by values from the Subject NewsCodes controlled vocabulary. In version 4 of the IIM specification document the Datasets Category and Supplemental Category were indicated as "deprecated" which meant that after the time of this release these two Datasets should not be populated with values any longer.

To support the move from the three letter codes used with the Category Dataset to the Subject NewsCodes this

table provides a reference for mapping.

	des a reference	
Category	Subject	Name and definition of the code
Code	NewsCode	
ACE	01000000	arts, culture and entertainment
		Matters pertaining to the advancement and refinement of the human mind, of
01.1		interests, skills, tastes and emotions
CLJ	02000000	crime, law and justice
		Establishment and/or statement of the rules of behaviour in society, the enforcement
		of these rules, breaches of the rules and the punishment of offenders. Organizations
D 10		and bodies involved in these activities.
DIS	03000000	disaster and accident
		Man made and natural events resulting in loss of life or injury to living creatures
		and/or damage to inanimate objects or property.
FIN	04000000	economy, business and finance
		All matters concerning the planning, production and exchange of wealth.
EDU	05000000	education
		All aspects of furthering knowledge of human individuals from birth to death.
EVN	06000000	environmental issue
		All aspects of protection, damage, and condition of the ecosystem of the planet earth
		and its surroundings.
HTH	07000000	health
		All aspects pertaining to the physical and mental welfare of human beings.
HUM	08000000	human interest
		Lighter items about individuals, groups, animals or objects.
LAB	09000000	labour
		Social aspects, organizations, rules and conditions affecting the employment of
		human effort for the generation of wealth or provision of services and the economic
		support of the unemployed.
LIF	10000000	lifestyle and leisure
		Activities undertaken for pleasure, relaxation or recreation outside paid employment,
		including eating and travel.
POL	11000000	politics
		Local, regional, national and international exercise of power, or struggle for power,
		and the relationships between governing bodies and states.
REL	12000000	religion and belief
		All aspects of human existence involving theology, philosophy, ethics and spirituality.
SCI	13000000	science and technology
		All aspects pertaining to human understanding of nature and the physical world and
		the development and application of this knowledge
SOI	14000000	social issue
		Aspects of the behaviour of humans affecting the quality of life.
SPO	15000000	sport
		Competitive exercise involving physical effort. Organizations and bodies involved in
		these activities.
WAR	16000000	unrest, conflicts and war
		Acts of socially or politically motivated protest and/or violence.
WEA	17000000	weather
		The study, reporting and prediction of meteorological phenomena.



IPTC Extension schema 1.1 specifications

Names and Identifiers

The **XML namespace URI** for the "IPTC Extension" versions 1.0 and 1.1 is: http://iptc.org/std/Iptc4xmpExt/2008-02-29/

The **preferred XML namespace-prefix** for "IPTC Extension"-related XMP properties is: **Iptc4xmpExt**The use of this namespace-prefix is not mandatory but highly recommended for interoperability support.

User interfaces (like the custom panels in Adobe CS products) showing "IPTC Extension" properties must refer to it as an "IPTC Extension" or "IPTC ..." panel.

This **other namespace** is used in the scope of IPTC Extension:

Name	URI	Recommended Prefix
PLUS	http://ns.useplus.org/ldf/xmp/1.0/	plus

Metadata Properties

Generic Specification			2descr
Name	Additional Model Inform	ation	
Definition	Information about the ethnicity	and other facets of th	ne model(s) in a model-released
	image.		
Photo Definition	Information about the ethnicity and other facets of the model(s) in a model-released		
	image.		
Photo Help Text	Enter information like ethnicity		the model(s) in this image
User Note(s)	Use the Model Age field for the	e age of model(s).	
Implementation Note(s)			
Field label/title	Additional model info		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	AddlModelInfo
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/descrip	otion	
Property-attribute(s)	@role="drol:modelInfo"	·	·
QCode scheme			
Implementation note(s)		·	

Generic Specification				2descr
Name	Artwork or Object in the Image			
Definition	A set of metadata about artwo	A set of metadata about artwork or an object in the item		
Photo Definition	A set of metadata about artwo	rk or an object in the i	mage	
Photo Help Text	Enter details about artwork or	objects shown in this	image	
User Note(s)				
Implementation Note(s)				
Field label/title	Artwork or object in the image			
Cardinality	0unbounded	Basic data type	structure	
Required CV				
Spec change history				
XMP implementation				
XMP namespace	lptc4xmpExt	XMP property id	ArtworkOrObject	
XMP Value Type	bag ArtworkOrObjectDetails	XMP Category	External	•

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Implementation note(s)	
Maps to this IIM property	
XMP/IIM mapping note(s)	
G2 implementation	
Property name (XPath)	
Property-attribute(s)	
QCode scheme	
Implementation note(s)	Mapping rules are pending.

Generic Specification			2descr
Name	Code of Organisation Fe	atured in the Ima	ge
Definition	Code from a controlled vocabu	lary for identifying the	e organisation or company which is
	featured in the content.		
Photo Definition	Code from a controlled vocabu	lary for identifying the	e organisation or company which is
	featured in the image.		
Photo Help Text			n a colon, and finally the code from the is image (e.g. nasdaq:companyA)
User Note(s)	For example a stock ticker sym	nbol may be used.	
Implementation Note(s)			
Field label/title	Code of featured Organisation		
Cardinality	0unbounded	Basic data type	CV-code
Required CV	Open to any CV		
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	OrganisationInImageCode
XMP Value Type	bag Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subjec	t/@qcode	
Property-attribute(s)	@type="cpnat:organisation"		
QCode scheme			
Implementation note(s)			

Generic Specification			2descr	
Name	Controlled Vocabulary T	erm		
Definition	A term to describe the content	of the image by a val	ue from a Controlled Vocabulary.	
Photo Definition			ue from a Controlled Vocabulary.	
Photo Help Text	Enter an identifier for the controlled vocabulary, then a colon, and finally the code from the			
·	vocabulary assigned to the term			
User Note(s)	<u> </u>			
Implementation Note(s)	This property is part of the Pho	oto Metadata 2008 sp	ecifications, but should not released to	
	the public on the standard Add		r IPTC metadata or other user	
	interfaces unless agreed by th	e IPTC.		
Field label/title	Controlled Vocabulary Term			
Cardinality	0unbounded	Basic data type	CV-code	
Required CV	Any Controlled Vocabulary reg	Any Controlled Vocabulary registered with the IPTC for this field.		
Spec change history				
XMP implementation				
XMP namespace	lptc4xmpExt	XMP property id	CVterm	
XMP Value Type	bag URI	XMP Category	External	
Implementation note(s)				
Maps to this IIM property				
XMP/IIM mapping note(s)				
G2 implementation				
Property name (XPath)	/newsItem/contentMeta/subject	ct/@qcode		
Property-attribute(s)	•			
QCode scheme				
Implementation note(s)				



Generic Specification			2descr
Name	Location Shown in the Ir	nage	
Definition	A location the content of the item is about. For photos that is a location shown in the		
	image.		
Photo Definition	A location shown in the image.		
Photo Help Text	Enter the details about a locati	on which is shown in	this image
User Note(s)	If the location the image was to Created should be used too.	aken in is different from	m this location the property Location
Implementation Note(s)			
Field label/title	Location shown		
Cardinality	0unbounded	Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
VMD namaanaaa	Inda Avenue Cv4	XMP property id	LocationShown
XMP namespace	Iptc4xmpExt	Aivir property id	Locationomi
XMP namespace XMP Value Type	bag LocationDetails	XMP Category	External
XMP Value Type			
XMP Value Type Implementation note(s)			
XMP Value Type Implementation note(s) Maps to this IIM property			
XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s)		XMP Category	
XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation	bag LocationDetails	XMP Category	
XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath)	bag LocationDetails //newsItem/contentMeta/subjections	XMP Category	
XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s)	bag LocationDetails //newsItem/contentMeta/subjections	XMP Category	
XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme	bag LocationDetails //newsItem/contentMeta/subjections	XMP Category	

Generic Specification			2descr
Name	Model Age		
Definition	Age of the human model(s) at the time this image was taken in a model released image.		
Photo Definition	Age of the human model(s) at	the time this image w	as taken in a model released image.
Photo Help Text	Enter the age of the human me	odel(s) at the time this	s image was made
User Note(s)			of providing ages for young models.
	Ages below 18 years should n	ot be included.	
Implementation Note(s)			
Field label/title	Model age		
Cardinality	0unbounded	Basic data type	numeric
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	ModelAge
XMP Value Type	bag Integer	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/description		
Property-attribute(s)	@role="drol:modelAge"		
QCode scheme			
Implementation note(s)			

Generic Specification	2descr		
Name	Name of Organisation Fe	eatured in the Ima	age
Definition	Name of the organisation or co	ompany which is featu	red in the content.
Photo Definition	Name of the organisation or co		
Photo Help Text	Enter the name of the organisa	ation which is featured	d by this image
User Note(s)	May be supplemented by values from a controlled vocabulary in the Organisation Code field.		
Implementation Note(s)			
Field label/title	Name of featured Organisation		
Cardinality	0unbounded Basic data type free-text		
Required CV			
Spec change history			



XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	OrganisationInImageName
XMP Value Type	bag Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject	t/name	
Property-attribute(s)	@type="cpnat:organisation"		
QCode scheme			
Implementation note(s)	_	·	

Generic Specification			2descr
Name	Person Shown in the Image		
Definition	Name of a person the content	of the item is about. F	or photos that is a person shown in
	the image.		
Photo Definition	Name of a person shown in the		
Photo Help Text	Enter the name of the person	shown in this image	
User Note(s)			
Implementation Note(s)			
Field label/title	Person shown		
Cardinality	0unbounded	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	PersonInImage
XMP Value Type	bag Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject/name		
Property-attribute(s)	@type="cpnat:person"		
QCode scheme			
Implementation note(s)			

Generic Specification	3admin
Name	Digital Image GUID
Definition	Globally unique identifier for the item. It is created and applied by the creator of the item at the time of its creation. This value shall not be changed after that time.
Photo Definition	Globally unique identifier for this digital image. It is created and applied by the creator of the digital image at the time of its creation. This value shall not be changed after that time.
Photo Help Text	If an ID already exists, don't change - otherwise enter a globally unique identifier for this digital image
User Note(s)	The identifier will probably be generated by the technical means of an imaging device or software and should be applied to the digital image file as early as possible in its life cycle. This identifier does not identify any pictured content, particularly in case of a scan of non-digital images, only this digital representation.
Implementation Note(s)	Any algorithm to create this identifier has to comply with the technical requirements to create a globally unique id. Any device creating digital images - e.g. still image cameras, video cameras, scanners - should create such an identifer right at the time of the creation of the digital data and add the id to the set of metadata without compromising performance. It is recommended that this image identifier allows identifying the device by which the image data and the GUID were created. IPTC's basic requirements for unique ids are: * It must be globally unique. Algorithms for this purpose exist. * It should identify the camera body. * It should identify each individual photo from this camera body. * It should identify the date and time of the creation of the picture. * It should be secured against tampering. This field should be implemented in a way to prove it has not been changed since its value has been applied.



	If the identifier has been created by the imaging device its type and brand can be found in the Exif/technical metadata.		
Field label/title	Digital Image Identifier		
Cardinality	01	Basic data type	string
Required CV			
Spec change history	Specs (July 2010): XMP Cated	ory changed to Interr	nal
XMP implementation			
XMP namespace	lptc4xmpExt XMP property id DigImageGUID		
XMP Value Type	text	XMP Category	Internal
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/altId		
Property-attribute(s)	@type="altidtype:imageGUID"		
QCode scheme		·	•
Implementation note(s)			

Generic Specification			3admin
Name	Digital Source File Type	(DEPRECATED)	
Definition	The type of the source digital f	ile.	
Photo Definition	The type of the source digital f	ile.	
Photo Help Text	-		
User Note(s)			
Implementation Note(s)	The IPTC recommends not to	implement this proper	ty any longer.
Field label/title	Physical type of original photo		
Cardinality	01	Basic data type	CV-code
Required CV	Values are: Scan from film {scanfilm}, scan from transparency (including slide) {scantransparancy}, scan from print {scanprint}, camera raw {cameraraw}, camera tiff {cameratiff}, camera jpeg {camerajpeg}		
Spec change history	Deprecated in v 1.1		
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	DigitalSourcefileType
XMP Value Type	URI	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/Iptc4xmpExt:digSourceFileTyp/@qcode		
Property-attribute(s)			
QCode scheme			
Implementation note(s)	_	·	

Generic Specification			3admin
Name	Digital Source Type		
Definition	The type of the source of this of	digital image	
Photo Definition	The type of the source of this of	digital image	
Photo Help Text	Select one of the values for ide controlled vocabulary	entifying the type of th	e source of the digital image from the
User Note(s)			
Implementation Note(s)			
Field label/title	Type of source for this photo		
Cardinality	01	Basic data type	CV-code
Required CV	Digital Source Type NewsCod	es - http://cv.iptc.org/r	newscodes/digitalsourcetype/
Spec change history	Added in v 1.1		
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	DigitalSourceType
XMP Value Type	URI	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			



G2 implementation	
Property name (XPath)	/newsItem/contentMeta/Iptc4xmpExt:digSourceType/@qcode
Property-attribute(s)	
QCode scheme	
Implementation note(s)	

0			
Generic Specification			3admin
Name	Event		
Definition	Names or describes the specif	ic event the content re	elates to.
Photo Definition	Names or describes the specif	ic event at which the	photo was taken.
Photo Help Text	Enter the name or description	of the event where thi	s image was taken
User Note(s)	larger event both can be provide	ded by the field: e.g. >	nony, etc. If this is a sub-event of a (XXIX Olympic Summer Games Id be named by this property too.
Implementation Note(s)			
Field label/title	Event		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	Event
XMP Value Type	Lang Alt	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject/		
Property-attribute(s)	@type="cpnat:event"		
QCode scheme			
Implementation note(s)			

Generic Specification			3admin
Name	Image Registry Entry		
Definition	Both a Registry Item Id and a Registry Organisation Id to record any registration of this		
	item with a registry.		
Photo Definition	Both a Registry Item Id and a Registry Organisation Id to record any registration of this		
	digital image with a registry.		
Photo Help Text	Enter IDs for this image and th		
User Note(s)	Typically an id from a registry	is negotiated and app	lied after the creation of the digital
	image.		
Implementation Note(s)	Any user interface implementa		
		iding values. Further a	an input to both fields should be made
	mandatory.		
Field label/title	Registry Entry	Donie doto turo	atm. at
Cardinality	0unbounded	Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	Registryld
XMP Value Type	bag RegistryEntryDetails	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/altId		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			



Generic Specification			3admin
Name	Image Supplier		
Definition	Identifies the most recent supp	olier of the item, who is	s not necessarily its owner or creator.
Photo Definition	Identifies the most recent supplier of the image, who is not necessarily its owner or creator.		
Photo Help Text	Enter the identifier for the most the creator or owner of the image.		s image - note that this might not be
User Note(s)	of the company's web site may	be used. Ovider property of IPT	or registered company name or a URL C Core 1.0 by its semantics as that
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the I	IPTC Extension schema.
Field label/title	Image Supplier		
Cardinality	01	Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	ImageSupplier
XMP Value Type	Seq ImageSupplierDetail	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/ExtPoint		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification				3admin
Name	Image Supplier Image ID			
Definition	Optional identifier assigned by the Image Supplier to the image.			
Photo Definition	Optional identifier assigned by the Image Supplier to the image.			
Photo Help Text	Enter the unique identifier created by the image supplier.			
User Note(s)				
Implementation Note(s)	This is a PLUS version 1.2 property included in the IPTC Extension schema.			
Field label/title	Image Supplier Image Id			
Cardinality	01	Basic data type	string	
Required CV				
Spec change history	Specs (July 2010): property added			
XMP implementation				
XMP namespace	plus	XMP property id	ImageSupplierImageID	
XMP Value Type	Text	XMP Category	External	
Implementation note(s)				
Maps to this IIM property				
XMP/IIM mapping note(s)				
G2 implementation				
Property name (XPath)				
Property-attribute(s)				·
QCode scheme				·
Implementation note(s)				

Generic Specification	3admin
Name	IPTC Metadata Last Edited (Legacy)
Definition	The date and optionally time when any of the IPTC photo metadata fields has been last edited
Photo Definition	The date and optionally time when any of the IPTC photo metadata fields has been last edited.
Photo Help Text	-
User Note(s)	The public use of this property is deprecated by IPTC Extension version 1.1. It may only still be used by a private user interface for a use scoped to a company. If used this field should be a timestamp of the latest change applied to any of the fields.



	One may infer no metadata value has been applied after this date.		
Implementation Note(s)	The value of this property should never be set by software. XMP-aware software should		
	reflect any changes to metada	ita by the xmp:Metada	taDate property of the XMP Basic
	scheme.		
Field label/title	IPTC Fields Last Edited		
Cardinality	01	Basic data type	DateTime
Required CV			
Spec change history	Legacy status assigned in v 1.	.1	
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	IptcLastEdited
XMP Value Type	Date	XMP Category	External/Internal
Implementation note(s)	The value of this property can editing software	either be entered by t	he user or be set by a metadata
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			3admin
Name	Location created		
Definition	The location the content of the	item was created.	
Photo Definition	The location the photo was tak	ken.	
Photo Help Text	Enter the details about a locat	ion where this image	was created
User Note(s)	If the location in the image is of Extension property Location S		ion the photo was taken the IPTC
Implementation Note(s)	Extension property Location 5	nown in the image sn	ould be used.
Implementation Note(s) Field label/title	Location Created		
	01	Docio doto tuno	atruatura
Cardinality	01	Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	LocationCreated
XMP Value Type	Bag LocationDetails	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contenteMeta/locat	ed/POIdetails/contact	Info/address/(locality,area,country)
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			3admin
Name	Max Avail Height		
Definition	The maximum available height been derived by downsizing.	t in pixels of the origin	al photo from which this photo has
Photo Definition	The maximum available height been derived by downsizing.	t in pixels of the origin	al photo from which this photo has
Photo Help Text	Enter the maximum available has been derived by downsizir		original photo from which this photo
User Note(s)	-		
Implementation Note(s)			
Field label/title	Maximum available height		
Cardinality	01	Basic data type	integer
Required CV			-
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	MaxAvailHeight
XMP Value Type	Integer	XMP Category	External



Implementation note(s)	
Maps to this IIM property	
XMP/IIM mapping note(s)	
G2 implementation	
Property name (XPath)	/newsItem/contentSet[rendition='rnd:highRes']/height
Property-attribute(s)	
QCode scheme	
Implementation note(s)	Only mapping out of G2!

Generic Specification			3admin
Name	Max Avail Width		
Definition		in pixels of the origina	al photo from which this photo has
	been derived by downsizing.		
Photo Definition		in pixels of the origina	al photo from which this photo has
	been derived by downsizing.		
Photo Help Text			riginal photo from which this photo
	has been derived by downsizir	ng	
User Note(s)			
Implementation Note(s)			
Field label/title	Maximum available width		
Cardinality	01	Basic data type	integer
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	MaxAvailWidth
XMP Value Type	Integer	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentSet[rendition	n='rnd:highRes']/width	
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Only mapping out of G2!	·	

Generic Specification			3admin
Name	PLUS Version		
Definition	The version number of the PLI	JS standards in place	at the time of the transaction.
Photo Definition	The version number of the PLI	JS standards in place	at the time of the transaction.
Photo Help Text	-		
User Note(s)	In the event of a misunderstan	ding between the part	ties, PLUS Version provides a
	reference to the version of the	PLUS standards that	was in place at the time of the
	transaction. PLUS standards a		
Implementation Note(s)	This property was included into	the IPTC Extension	schema from PLUS version 1.2 as all
	other PLUS properties. To refle	ect this the value of "F	PLUS Version" should be set to the
	string "1.2.0"		
Field label/title	PLUS Version		
Cardinality	01	Basic data type	
Required CV			
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	Version
XMP Value Type	Text	XMP Category	Internal
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)			



Generic Specification			4rightrel
Name	Copyright Owner		
Definition	Owner or owners of the copyri	ght in the licensed ima	age.
Photo Definition	Owner or owners of the copyri	ght in the licensed ima	age.
Photo Help Text	Enter the owner or owners of t		
User Note(s)	Serves to identify the rights ho and Licensor may be the same		The Copyright Owner, Image Creator
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the l	PTC Extension schema.
Field label/title	Copyright owner		
Cardinality	03	Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	CopyrightOwner
XMP Value Type	Seq CopyrightOwnerDetail	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/Copyrigh	tHolder/@qcode + /na	me
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			4rightrel
Name	Image Creator		
Definition	Creator or creators of the imag	ge.	
Photo Definition	Creator or creators of the imag	ge	
Photo Help Text	Enter details about the creator	or creators of this image	age
User Note(s)	The creator can be additionally expressed in free-text using the IPTC Core Creator field. In many countries, the Image Creator must be attributed in association with any use of the image. The Image Creator, Copyright Owner, Image Supplier and Licensor may be the same or different entities.		
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the I	PTC Extension schema.
Field label/title	Image Creator		
Cardinality	03	Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	ImageCreator
XMP Value Type	Seq ImageCreatorDetail	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/creato	r/@qcode + /name	
Property-attribute(s)	_	·	·
QCode scheme	_	·	
Implementation note(s)			

Generic Specification			4rightrel	
Name	Licensor			
Definition	A person or company that sho who has licensed the item.	uld be contacted to ob	otain a licence for using the item or	
Photo Definition	A person or company that sho who has licensed the item.	A person or company that should be contacted to obtain a licence for using the item or who has licensed the item.		
Photo Help Text	Enter the person or company that should be contacted for obtaining a license for this image			
User Note(s)				
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the	IPTC Extension schema.	
Field label/title	Licensor			
Cardinality	03	Basic data type	struct	



Required CV			
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	Licensor
XMP Value Type	bag LicensorDetail	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/ExtPoint		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			4rightrel
Name	Minor Model Age Disclos	sure	
Definition	Age of the youngest model pic	tured in the image, at	the time that the image was made.
Photo Definition			the time that the image was made.
Photo Help Text	Enter the age of the youngest	model pictured in this	image, at the time that this image
	was made.		
User Note(s)			en web portals and the like. But it
	may be used by image reposit		
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the I	PTC Extension schema.
Field label/title	Minor Model Age Disclosure		
Cardinality	01	Basic data type	CV-code
Required CV	CV defined by PLUS		
Spec change history	Specs (July 2010): XMP Value	type corrected	
XMP implementation			
XMP namespace	plus	XMP property id	MinorModelAgeDisclosure
XMP Value Type	URL	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/ExtPoint		
Property-attribute(s)		·	
QCode scheme			
Implementation note(s)			

Generic Specification				4rightrel
Name	Model Release Id			
Definition	Optional identifier associated v	with each Model Relea	ase.	
Photo Definition	Optional identifier associated v	with each Model Relea	ase.	
Photo Help Text	Enter an identifier for each Mo	del Release		
User Note(s)				
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the I	PTC Extension schema.	
Field label/title	Model Release Id			
Cardinality	0unbounded	Basic data type	Identifier	
Required CV				
Spec change history	Specs (July 2010): definition a	ligned with PLUS spe	cs	
XMP implementation				
XMP namespace	plus	XMP property id	ModelReleaseID	
XMP Value Type	Bag Text	XMP Category	External	
Implementation note(s)				
Maps to this IIM property				
XMP/IIM mapping note(s)				
G2 implementation				
Property name (XPath)	/newsItem/rightsInfo/ExtPoint			
Property-attribute(s)				
QCode scheme				
Implementation note(s)				



Generic Specification			4rightrel
Name	Model Release Status		
Definition	Summarizes the availability and scope of model releases authorizing usage of the		
	likenesses of persons appearing	ng in the photograph.	
Photo Definition	Summarises the availability an		eases authorising usage of the
	likenesses of persons appearing	ng in the photograph.	
Photo Help Text			pility and scope of model releases
	authorising usage of the likene		
User Note(s)			ue Unlimited Model Releases (MR-
		eck the wording of the	model release thoroughly before
	applying it.		
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the I	PTC Extension schema.
Field label/title	Model Release Status		
Cardinality	01	Basic data type	CV-code
Required CV	CV defined by PLUS		
Spec change history	Specs (July 2010): XMP Value	type corrected	
XMP implementation			
XMP namespace	plus	XMP property id	ModelReleaseStatus
XMP Value Type	URL	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/ExtPoint		
Property-attribute(s)		·	
QCode scheme		·	
Implementation note(s)			

Generic Specification				4rightrel
Name	Property Release Id			
Definition	Optional identifier associated v	with each Property Re	lease.	
Photo Definition	Optional identifier associated v		lease.	
Photo Help Text	Enter an identifier for each Pro	perty Release		
User Note(s)				
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the I	PTC Extension schema.	
Field label/title	Property Release Id			
Cardinality	0unbounded	Basic data type	Identifier	
Required CV				
Spec change history	Specs (July 2010): definition a	ligned with PLUS spe	CS	
XMP implementation				
XMP namespace	plus	XMP property id	PropertyReleaseID	
XMP Value Type	Bag Text	XMP Category	External	
Implementation note(s)				
Maps to this IIM property				
XMP/IIM mapping note(s)				
G2 implementation				
Property name (XPath)	/newsItem/rightsInfo/ExtPoint			
Property-attribute(s)				_
QCode scheme				
Implementation note(s)	•			

Generic Specification	4rightrel
Name	Property Release Status
Definition	Summarises the availability and scope of property releases authorizing usage of the properties appearing in the photograph.
Photo Definition	Summarises the availability and scope of property releases authorising usage of the properties appearing in the photograph.
Photo Help Text	Select one of the values for summarising the availability and scope of property releases authorising usage of the properties appearing in the photograph
User Note(s)	It is recommended to apply the value PR-UPR very carefully and to check the wording of the property release thoroughly before applying it.
Implementation Note(s)	This is a PLUS version 1.2 property included in the IPTC Extension schema.



Field label/title	Property Release Status		
Cardinality	01	Basic data type	CV-code
Required CV	CV defined by PLUS		
Spec change history	Specs (July 2010): XMP Value	type corrected	
XMP implementation			
XMP namespace	plus	XMP property id	PropertyReleaseStatus
XMP Value Type	URL	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/ExtPoint		
Property-attribute(s)			
QCode scheme			
Implementation note(s)		·	

Metadata Structure: Artwork or Object in the Image Details

Generic Specification			9type-artobj
Name	Artwork or Object in the Image Details structure {data type}		
Definition			object in an image. Includes a ce, a Source Inventory Number and a
Photo Definition			object in an image. Includes a ce, a Source Inventory Number and a
Photo Help Text	-		
User Note(s)			
Implementation Note(s)			
Field label/title	N/A		
Cardinality		Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	ArtworkOrObjectDetails
XMP Value Type	structure	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Mapping rules are pending.		

Generic Specification	9type-artobj	
Name	Copyright Notice {Artwork or Object detail}	
Definition	Contains any necessary copyright notice for claiming the intellectual property for artwork or an object in the image and should identify the current owner of the copyright of this work with associated intellectual property rights.	
Photo Definition	Contains any necessary copyright notice for claiming the intellectual property for artwork or an object in the image and should identify the current owner of the copyright of this work with associated intellectual property rights.	
Photo Help Text	Enter any necessary copyright notice for claiming the intellectual property for artwork or an object in this image	
User Note(s)		
Implementation Note(s)		
Field label/title	(Artwork or Object detail:) Copyright notice	
Cardinality	01 Basic data type free-text	
Required CV		
Spec change history		



XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	AOCopyrightNotice
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Mapping rules are pending.		

Generic Specification			9type-artobj
Name	Creator (Artwork or Obj	ect detail}	
Definition	Contains the name of the artis	t who has created arty	work or an object in the image.
Photo Definition			work or an object in the image. In
			ied the name of a company or
	organisation may be appropria		
Photo Help Text	Enter the name of the artist when	no has created artworl	k or an object in this image
User Note(s)			
Implementation Note(s)			
Field label/title	(Artwork or Object detail:) Cre	ator	
Cardinality	0unbounded	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	AOCreator
XMP Value Type	Seq ProperName	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Mapping rules are pending.		

Generic Specification			9type-artobj
Name	Date Created (Artwork o	r Object detail}	
Definition			ork or object in the image was
			ciated intellectual property rights.
Photo Definition			ork or object in the image was
			ciated intellectual property rights.
Photo Help Text		he time when the artw	ork or object in this image was
	created		
User Note(s)			
Implementation Note(s)			
Field label/title	(Artwork or Object detail:) Date		
Cardinality	01	Basic data type	DateTime (preferred: truncated
			DateTime)
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	AODateCreated
XMP Value Type	Date	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			



QCode scheme			
Implementation note(s)	Mapping rules are pending.		
Generic Specification			9type-artobj
Name	Source {Artwork or Obje	ct detail}	
Definition	The organisation or body holdi inventory purposes.	ng and registering the	e artwork or object in the image for
Photo Definition	The organisation or body holdi inventory purposes.	ng and registering the	e artwork or object in the image for
Photo Help Text	Enter the name of the organisa this image for inventory purpos		and registering the artwork or object in
User Note(s)			
Implementation Note(s)			
Field label/title	(Artwork or Object detail:) Sou	rce	
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	AOSource
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)		-	
QCode scheme			
Implementation note(s)	Mapping rules are pending.		

Generic Specification			9type-artobj
Name	Source Inventory Number	er {Artwork or Ob	ject detail}
Definition	The inventory number issued	by the organisation or	body holding and registering the
	artwork or object in the image.		
Photo Definition			body holding and registering the
	artwork or object in the image.		
Photo Help Text			on or body holding and registering the
	artwork or object in this image		
User Note(s)			
Implementation Note(s)			
Field label/title	(Artwork or Object detail:) Sou	rce inventory number	
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	AOSourceInvNo
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Mapping rules are pending.		

Generic Specification	9type-artobj
Name	Title {Artwork or Object detail}
Definition	A reference for the artwork or object in the image.
Photo Definition	A reference for the artwork or object in the image.
Photo Help Text	Enter the verbal and human readable name of the artwork or object in this image
User Note(s)	
Implementation Note(s)	



Field label/title	(Artwork or Object detail:) Title		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	AOTitle
XMP Value Type	Lang Alt	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Mapping rules are pending.		

Metadata Structure: Location Details

Generic Specification			9type-location
Name	Location Details structur	re {data type}	
Definition	A structured datatype for details of a location. It includes a Sublocation, a City, a Province		
	or State, a Country (Name and ISO-Code) and a World Region.		
Photo Definition	A structured datatype for details of a location. It includes a Sublocation, a City, a Province		
	or State, a Country (Name and	I ISO-Code) and a Wo	orld Region.
Photo Help Text	-		
User Note(s)			
Implementation Note(s)			
Field label/title	N/A		
Cardinality		Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	LocationDetails
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			_
Property-attribute(s)		·	
QCode scheme			
Implementation note(s)			

Generic Specification				9type-location
Name	City {location detail}			
Definition	Name of the city of a location. geographical hierarchy.	This element is at the	fourth level of a top-do	own
Photo Definition	Name of the city of a location. geographical hierarchy.	This element is at the	fourth level of a top-do	own
Photo Help Text	Enter the name of the City			
User Note(s)				
Implementation Note(s)				
Field label/title	(Location detail:) City			
Cardinality	01	Basic data type	string	
Required CV				
Spec change history				
XMP implementation				
XMP namespace	lptc4xmpExt	XMP property id	City	
XMP Value Type	Text	XMP Category	External	
Implementation note(s)				
Maps to this IIM property				•

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XMP/IIM mapping note(s)	
G2 implementation	
Property name (XPath)	/newsItem/contentMeta/subject/
Property-attribute(s)	@type="cpnat:geoArea"+@facet="fct:city"
QCode scheme	
Implementation note(s)	Mapping for Location Shown in the Image only

Generic Specification			9type-location
Name	Country ISO-Code {loca	tion detail}	
Definition			nt is at the second level of a top-down
Bommaon	geographical hierarchy.	a location. This clother	in to at the second level of a top down
Photo Definition	The ISO code of a country of a location. This element is at the second level of a top-down		
	geographical hierarchy.		
Photo Help Text	Enter the 2 or 3 letter ISO 316	6 Country Code of the	e Country
User Note(s)		•	
Implementation Note(s)			
Field label/title	(Location detail:) Country ISO	-Code	
Cardinality	01	Basic data type	CV-code
Required CV	ISO 3166-1 - 2 or 3 characters	s (see Definition)	
Spec change history	Specs (201007): XMP ValueT	ype corrected	
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	CountryCode
XMP Value Type	closed choice	XMP Category	External
Implementation note(s)			ne length of the value string whether
		ne two or three letter s	scheme as no explicit indication can be
	provided.		
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject	ct/@qcode	
Property-attribute(s)	@type="cpnat:geoArea"+@fac	cet="fct:country"	
QCode scheme		•	
Implementation note(s)	Mapping for Location Shown in	n the Image only	

Generic Specification			9type-location
Name	Country Name (location	detail}	
Definition	The name of a country of a loc	ation. This element is	at the second level of a top-down
	geographical hierarchy.		
Photo Definition	The name of a country of a location. This element is at the second level of a top-down geographical hierarchy.		
Photo Help Text	Enter the name of the Country		
User Note(s)	•		
Implementation Note(s)			
Field label/title	(Location detail:) Country Nam	ne	
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	CountryName
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject	t/name	
Property-attribute(s)	@type="cpnat:geoArea"+@fac	cet="fct:country"	
QCode scheme			
Implementation note(s)	Mapping for Location Shown in	n the Image only	



·	T		
Generic Specification			9type-location
Name	Province or State (locat	ion detail}	
Definition	at the third level of a top-dow	n geographical hierarch	
Photo Definition	The name of a subregion of a at the third level of a top-down		r state - of a location. This element is
Photo Help Text	Enter the name of the Province		
User Note(s)			
Implementation Note(s)			
Field label/title	(Location detail:) Province/Sta	ate	
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	ProvinceState
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subje	ct/	
Property-attribute(s)	@type="cpnat:geoArea"+@fa		
QCode scheme		ioni ioniprovolato	
Implementation note(s)	Mapping for Location Shown	in the Image only	
Generic Specification			9type-location
Name	Sublocation {location d	etail}	
Definition	Name of a sublocation. This s	sublocation name could	l either be the name of a sublocation
	to a city or the name of a well	known location or (nat	cural) monument outside a city. In the
	sense of a sublocation to a circle	ty this element is at the	fifth level of a top-down geographical
Photo Definition	Name of a sublocation. This s	sublocation name could	l either be the name of a sublocation
			tural) monument outside a city. In the
		ty this element is at the	fifth level of a top-down geographical
	hierarchy.		
Photo Help Text	Enter the name of the Subloc	ation	
User Note(s)			
	+		
Implementation Note(s)			
Implementation Note(s) Field label/title	(Location detail:) Sublocation		
Implementation Note(s) Field label/title Cardinality	(Location detail:) Sublocation 01	Basic data type	string
Implementation Note(s) Field label/title Cardinality Required CV	· · · · · · · · · · · · · · · · · · ·	Basic data type	string
Implementation Note(s) Field label/title Cardinality Required CV Spec change history	· · · · · · · · · · · · · · · · · · ·	Basic data type	string
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation	· · · · · · · · · · · · · · · · · · ·	Basic data type	string
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace	· · · · · · · · · · · · · · · · · · ·	Basic data type XMP property id	string Sublocation
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation	01		
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace	01 Iptc4xmpExt	XMP property id	Sublocation
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property	01 Iptc4xmpExt	XMP property id	Sublocation
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s)	01 Iptc4xmpExt	XMP property id	Sublocation
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s)	01 Iptc4xmpExt	XMP property id	Sublocation
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation	Iptc4xmpExt Text	XMP property id XMP Category	Sublocation
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath)	Iptc4xmpExt Text /newsItem/contentMeta/subje	XMP property id XMP Category	Sublocation
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s)	Iptc4xmpExt Text	XMP property id XMP Category	Sublocation
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath)	Iptc4xmpExt Text /newsItem/contentMeta/subje	XMP property id XMP Category ct/	Sublocation
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s)	/newsItem/contentMeta/subje@type="cpnat:geoArea"+@fa	XMP property id XMP Category ct/	Sublocation External
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification	Iptc4xmpExt Text /newsItem/contentMeta/subje @type="cpnat:geoArea"+@fa Mapping for Location Shown	XMP property id XMP Category ct/ cet="fct:subLoc" in the Image only	Sublocation
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name	Iptc4xmpExt Text /newsItem/contentMeta/subje @type="cpnat:geoArea"+@fa Mapping for Location Shown World Region {location	XMP property id XMP Category ct/ cet="fct:subLoc" in the Image only detail}	Sublocation External 9type-location
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification	Iptc4xmpExt Text /newsItem/contentMeta/subje @type="cpnat:geoArea"+@fa Mapping for Location Shown World Region {location The name of a world region o	xMP property id XMP Category ct/ cet="fct:subLoc" in the Image only detail} f a location. This element	Sublocation External
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition	Iptc4xmpExt Text /newsItem/contentMeta/subje @type="cpnat:geoArea"+@fa Mapping for Location Shown World Region {location The name of a world region of down geographical hierarchy.	XMP property id XMP Category ct/ cet="fct:subLoc" in the Image only detail} f a location. This element	Sublocation External 9type-location ent is at the first (topl) level of a top-
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name	Iptc4xmpExt Text /newsItem/contentMeta/subje @type="cpnat:geoArea"+@fa Mapping for Location Shown World Region {location The name of a world region o down geographical hierarchy. The name of a world region o	xMP property id XMP Category ct/ cet="fct:subLoc" in the Image only detail} f a location. This element	Sublocation External 9type-location
Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition	Iptc4xmpExt Text /newsItem/contentMeta/subje @type="cpnat:geoArea"+@fa Mapping for Location Shown World Region {location The name of a world region of down geographical hierarchy.	xMP property id XMP Category ct/ cet="fct:subLoc" in the Image only detail} f a location. This element	Sublocation External 9type-location ent is at the first (topl) level of a top-



User Note(s)			
Implementation Note(s)			
Field label/title	(Location detail:) World Region	1	
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	WorldRegion
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subjec		
Property-attribute(s)	@type="cpnat:geoArea"+@fac	et="fct:worldReg"	
QCode scheme			
Implementation note(s)			·

Metadata Structure: Registry Entry Details

Generic Specification			9type-registryid
Name	Registry Entry Details st	tructure {data type	e}
Definition	A structured datatype for an el	ntry in a registry, inclu	des the id issued by the registry and
	the registry's id.		
Photo Definition	A structured datatype for an entry in a registry, includes the id for the image issued by the		
	registry and the registry's id.		
Photo Help Text	-		
User Note(s)			
Implementation Note(s)			
Field label/title	N/A		
Cardinality		Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	RegistryEntryDetails
XMP Value Type	structure	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme		·	
Implementation note(s)			

Generic Specification			9type-registryid
Name	Item Id {registry entry de	tail}	
Definition		g applied. This identi	by the creator of the item. This value fier is linked to a corresponding
Photo Definition	A unique identifier created by a This value shall not be changed corresponding Registry Organi	d after being applied.	by the creator of the digital image. This identifier is linked to a
Photo Help Text	Enter the unique identifier created by a registry and applied by the creator of the digital image. This value shall not be changed after being applied.		
User Note(s)	This identifier may be globally unique by itself, but it must be unique for the issuing registry.		
Implementation Note(s)			
Field label/title	(Registry Entry detail:) Item Ide	entifier	
Cardinality	1	Basic data type	string
Required CV		·	·

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Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	Regitemid
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/altId		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			9type-registryid	
Name	Organisation Id {registry entry detail}			
Definition	An identifier for the registry which issued the corresponding Registry Image Id.			
Photo Definition	An identifier for the registry wh	An identifier for the registry which issued the corresponding Registry Image Id.		
Photo Help Text	Enter the identifier for the regis	stry which issued the o	corresponding Registry Image ID	
User Note(s)				
Implementation Note(s)				
Field label/title	(Registry Entry detail:) Organis	sation Identifier		
Cardinality	1	Basic data type	string	
Required CV				
Spec change history				
XMP implementation				
XMP implementation XMP namespace	Iptc4xmpExt	XMP property id	RegOrgld	
XMP namespace XMP Value Type	Iptc4xmpExt Text	XMP property id XMP Category	RegOrgId External	
XMP namespace				
XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property				
XMP namespace XMP Value Type Implementation note(s)				
XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property				
XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s)		XMP Category		
XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath) Property-attribute(s)	Text	XMP Category		
XMP namespace XMP Value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation Property name (XPath)	Text	XMP Category		



References

Name	Source
Adobe XMP	Adobe Extensible Metadata Platform (XMP)
	http://www.adobe.com/products/xmp/
	Latest specification as of April 2010
	This document includes the specification of the metadata schemas Dublin Core, XMP
	Rights management and Photoshop which are referenced in this specification.
DC	Dublin Core metadata schema:
	http://www.dublincore.org/
IPTC G2-Standards	IPTC G2-Standards: EventsML-G2 and NewsML-G2 (as of 2010)
	http://www.iptc.org/G2-Standards/
IPTC IIM	IPTC Information Interchange Model: http://www.iptc.org/IIM/ and
	http://www.iptc.org/std/IIM/4.1/specification/IIMV4.1.pdf
PhMdWP2007	IPTC Photo Metadata White Paper 2007
	http://www.iptc.org/goto?phmdwp2007
PLUS	Picture Licensing Universal System – PLUS: http://www.useplus.org
	PLUS specifications: http://www.useplus.com/useplus/standards.asp
MetadataWG	Guidelines for Handling Image Metadata v 1.1
	http://www.metadataworkinggroup.com/specs/



Addendum 1:

Persistent Technical Photo Metadata – a recommendation

Objectives for Technical Photo Metadata

Technical photo metadata within the scope of this paper are:

- Digital camera manufacturers' metadata, including all Exif and MakerNote metadata that record the camera settings and image capture conditions
- ICC metadata in the form of ICC profiles, if embedded, that define the colours of the image in a standard way
- Other third-party application metadata, for example, Photoshop and Fotoware metadata, and face detection metadata
- File format metadata like that in Exif DCF2, camera RAW, JPEG 2000 or JPEG XR.

All these forms of technical metadata should be persistent, along with metadata contained in the IPTC Core, IPTC Extension or IIM metadata.

Why do we need persistent technical metadata?

Technical metadata must be viewed as being just as important as descriptive (content oriented) metadata standards defined by the IPTC. Both types of metadata are essential to the business of picture agencies, news reporting, and cultural heritage works.

The prime reason to preserve and maintain technical metadata is to take advantage of technical developments in digital photography. Workflows need to be faster and more efficient, saving time and money whenever and wherever possible, image quality needs to be higher, and search and retrieval for images needs to be more discerning and more fruitful.

The digital present and the digital future require a general all-round improvement in the use of resources and digital assets.

A more complete discussion regarding the benefits of keeping technical metadata is given in an extended version of "Persisting Technical Photo Metadata" available on the Ifra web site. After reading this document, it should become clear that there is much to be gained by keeping all metadata and the highest advantages can be obtained at low cost through automatic software procedures.

Photo Workflows

Whenever photos are captured by digital cameras, metadata is written into the image file. Subsequently, additional metadata is written by the photographer, picture desk editor, picture librarians and also automatically by application and system software.

Software applications need to be aware of metadata that has been added to the image by, firstly, the digital camera and, secondly, by other people or another application, so that a complete record of metadata is preserved and persisted with each image as it passes through every stage of the workflow.

How to persist metadata in different workflows

Workflow diagrams are shown here for the persistence of technical metadata for:

- a) the general case
- b) a news picture agency
- c) a newspaper

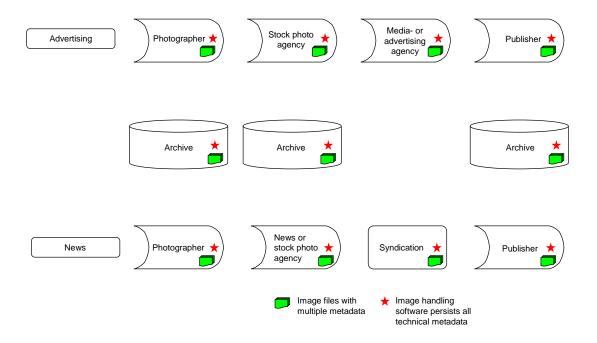
The workflow diagrams have red asterisks to show where metadata can be invalidated or lost, if the software application does not fully support technical metadata by updating certain fields after processing and correctly writing the metadata into the image file on saving.

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Generalised Photo Value Chain

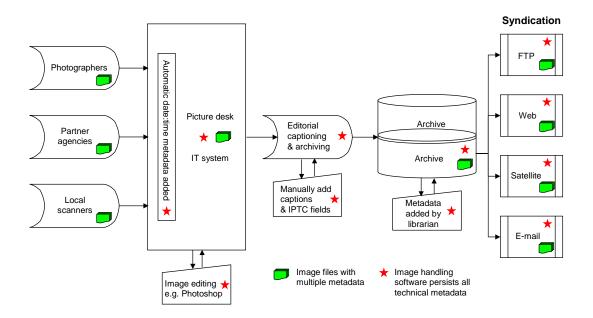


At every stage in the value chain, starting with downloading images from the camera to a storage device, and at every further stage of picture annotation and editing, only software that persists and maintains all photo metadata should be used.



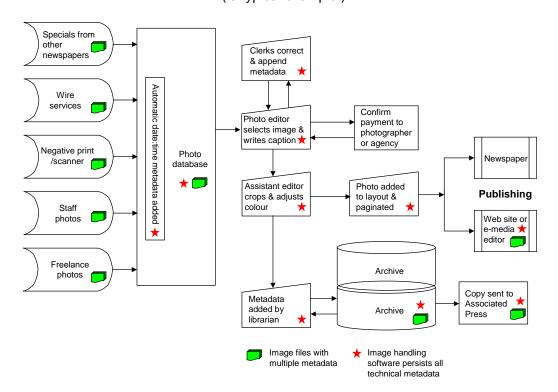
News Agency Workflow

(example from dpa, Deutsche Presse-Agentur)



U.S. Newspaper's Workflow

(a typical example)





Recommendations

- 1. "Persisting technical metadata" means that all metadata properties and their values relating to:
 - <u>Basic file management</u> (e.g. file type, image dimensions in pixels, orientation, image data compression parameters) MUST BE PERSISTED AND MAINTAINED to record the current state of the image
 - <u>Administration</u> (e.g. date and time of capture, creator, copyright holder, GPS, unique image ID) MUST BE PERSISTED AND MAINTAINED
 - <u>Camera settings</u> (e.g. auto- or manual exposure, auto- or manual focus, colour space and colour profile, ISO setting, scene type, camera ID, lens ID) MUST BE PERSISTED AND NOT CHANGED
 - <u>Image capture conditions</u> (e.g. exposure time, lens aperture, distance to subject) MUST BE PERSISTED AND NOT CHANGED, and
 - <u>Descriptions</u> (e.g. comments, title) are to be added and ARE OPTIONALLY PERSISTED AND EDITED.
- 2. All metadata (descriptive and technical), should be persisted in accordance with the first recommendation, above, as long as each image file remains digitally accessible. All JPEG-based Exif, TIFF/EP and camera RAW files contain technical camera metadata. PDF files also contain technical metadata, as do the new generation of file formats, JPEG 2000 and JPEG XR.
- 3. All technical metadata should be persisted, even if they are not required for use by the current application in a workflow step. Any application should not be limited by inadequate metadata processing of software in a previous workflow step. It should not remove any property.
- 4. Versioning metadata, to historically record all modifications to the image, is optional. Similarly, an application must be able to update standard metadata, where appropriate.
- 5. If the picture data is edited, for example through orientation, colour characterisation, sizing or cropping, then the pertinent metadata (e.g. pixel height and width) and the thumbnail image need to be updated in the file to be commensurate with the main picture data.
- 6. Image suppliers should persist all of the technical metadata, both standard and proprietary, in its existing and standardised form within the respective image files (Exif, TIFF, JPEG 2000, RAW, PDF, DNG etc.). Not just one schema for metadata has to be supported today, but several IPTC IIM and IPTC Core, IPTC Extension, TIFF, Dublin Core, Exif, ICC and others.
- 7. In order for the technical metadata to be usable by the widest range of existing applications, technical metadata is required in its original schema. The Exif format, for example, is by far the most common digital camera format and schema for digital pictures. All automatic image processing applications cater first and foremost to this format and schema, while extending their capabilities to other less common formats as well. Technical metadata originating from the camera-, ICC profiles-, GPS information- and face detection metadata, should remain in the schema in which it was originally created by the camera or application. This would ensure maximum compatibility with clients' and customers' systems and workflows today. If technical metadata is repeated in another schema within the same file, the metadata should still be persisted to its fullest extent in its original schema. Additionally, any updating of a metadata property that becomes necessary in one schema, for example because of, image processing or administration, should be automatically replicated by the software in each of the other metadata schemas where the same property appears in that file. Without this assistance, photo sources have problems in keeping multiple sets of the same metadata current and synchronised within the file.
- 8. in the future, the use of a single schema for all metadata should be recommended, but not until such a schema is approved by all bodies that issue imaging file standards (e.g. ISO, IEC, ITU, JEITA, JPEG, ICC).
- 9. Archived images should be a copy of the original picture data and full metadata so that, as technical metadata develops, it shall become possible to take advantage of new algorithms to further improve image quality, the use of image resources, and the implementation of asset management.



- 10. Technical metadata and the associated image pixel data should always be kept together or be linked together in an unambiguous manner.
- 11. While the persistence of all metadata is the prime goal, metadata that contravenes personal information data protection, or personal-, state- or national security may be removed because of legal requirements. Software that captures all metadata must contain functions that allow the deletion of sensitive metadata, if it contravenes just one of these principles. For example, under some circumstances, a personal ID and GPS information could both be considered safety hazards to a photojournalist in the field and must be removed before distribution.
- 12. When organisations create or support formats for photos or picture standards, they should ensure that the respective schema or format can be read or be written by freely available software, preferably under an Open Source Licence.

This would enable the reading and writing of image data and metadata so that the above recommendations are met, while obtaining such software should not then become expensive. Only when such software is freely available and easily integrated into picture-handling programs, can the agencies and organisations which are currently unable to take advantage of the technical developments in digital photography expect to participate effectively in an international trading of pictures.

http://www.ifra.com/Persisting_Technical_Photo_Metadata.pdf

An example of such software is Phil Harvey's ExifTool to be found at: http://www.sno.phy.queensu.ca/~phil/exiftool/