

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.

The effort to develop and maintain the IPTC Photo Metadata schemas was lead by Harald Löffler (Ifra) and Michael Steidl (IPTC) and these persons contributed (ordered by surname):

Karl Csoknyay (Keystone Switzerland), Annette Feldman (AP), Jan Leidicke (BVPA), Cindy Lewis (PLUS), Andrea de Polo (CEPIC/Alinari), David Riecks (PLUS), Sarah Saunders (BAPLA/CEPIC), Jeff Sedlik (PLUS), Klaus Sprick (IPTC), Staffan Teste (CEPIC), Andy Williams (Ifra).



About the Standard

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		-	-	
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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 <u>M</u>etadata <u>P</u>latform (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.



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.			
denenc Specification	Property Group (in blue): descriptive / administrative / rights related / a data type definition			
	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			
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, beca				
-	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.			

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 media. This element is at the third level of a top-down			
	geographical hierarchy.		·	
Photo Definition			This element is at the third level of a	
	top-down geographical hierarc			
Photo Help Text	Enter the name of the city pictu			
User Note(s)			as it does not clearly indicate whether	
			to was taken - which can be different.	
	Location Shown in the Image.	are available in IPTC	Extension with Location Created and	
Implementation Note(s)	Location Shown in the image.			
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)			ed or Location Shown in the Image of	
	the IPTC Extension schema if available.			
Generic Specification			2descr	
· ·			Zdescr	
Name Country (legacy)				
Definition	Full name of the country the co	ontent is focussing on	either the country shown in visual	
			ment is at the top/first level of a top-	
	not as a code, a code should g		be expressed as a verbal name and untryCode"	
Photo Definition			e 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			

Photo Help Text				
User Note(s)				
	it is the location in the image or the location the photo was taken - which can be different.			
			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	on 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			2desc	

Generic Specification	2descr			
Name	Country Code (legacy)			
Definition	Code 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 code should be taken from ISO 3166 two or three letter code. The full name of a country should go to the "Country" element.			
Photo Definition	Code 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 code should be taken from ISO 3166 two or three letter code. The full name of a country should go to the "Country" element.			
Photo Help Text User Note(s)	Enter the 2 or 3 letter ISO 3166 Country Code of the Country pictured in this image 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	ISO Country Code			
Cardinality	01	Basic data type	CV-code	
Required CV	ISO 3166-1 - 2 or 3 characters (see Definition)			
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)	Note 1: an implementer would have to derive from the length of the value string whether this is the country code from the two or three letter scheme as no explicit indication can be provided.			
Maps to this IIM property	2:100 Country/Primary Locatio	n 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	antional of the Stand		
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	e who, what, and why	of what is happening in this image,	

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	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)				
	is of type Lang Alt. Hence any	software agent dealin	g with this property must abide to the	
	processing rules for Lang Alt v	alue 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	ilt']	
G2 implementation				
Property name (XPath)	/newsItem/contentMeta/descri	ption		
Property-attribute(s)	@role="drol:caption"			
QCode scheme				
Implementation note(s)				
Generic Specification			2descr	
Name	Headline			
Definition		Headline is not the s	ame as Title	
Photo Definition	A brief synopsis of the caption. Headline is not the same as Title. A brief synopsis of the caption. Headline is not the same as Title.			
Photo Help Text	Enter a brief publishable syno			
User Note(s)				
Implementation Note(s)				
Field label/title	Headline			
Cardinality	01	Basic data type	free-text	
Required CV	0	Duble dula type		
Spec change history				
	<u></u>			
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	
Name	Intellectual Genre			
Definition	Describes the nature, intellect specifically its content.	ual, artistic or journalis	stic characteristic of a item, not	
Photo Definition		ual, artistic or iournalis	tic characteristic of an image	
Photo Help Text	Describes the nature, intellectual, artistic or journalistic characteristic of an image. Enter a term to describe the nature of the image in terms of its intellectual or journalistic			
User Note(s)	characteristics, such as daybook, or feature (examples at: http://www.newscodes.org/) 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)	<u> </u>			
Field label/title	Intellectual genre			
Cardinality	01 Basic data type free-text			
Carumanty	01	Optional: IPTC Genre NewsCodes		
Required CV				



XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	IntellectualGenre
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note / Examples:		
	Journalistic genres: actuality, interview, background, feature, summary, wrapup		
	News category related genres: daybook, obituary, press release, transcript		
	It is advised to use terms from	a controlled vocabula	ary.
Maps to this IIM property	2:04 Object Attribute Referenc	е	
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/genre/	@literal	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			2descr
Name	Keywords		
Definition			words may be free text and don't
			es from the controlled vocabulary
	IPTC Subject NewsCodes mus		
Photo Definition			vords may be free text and don't have
	Subject NewsCodes must go t		m the controlled vocabulary IPTC
Photo Help Text			ed to express the subject matter in
	the image.		
User Note(s)			
Implementation Note(s)	Single values of this field shou	Id not be restricted to	single words but must allow for
	phrases as well.		
Field label/title	Keywords		
Cardinality	0unbounded	Basic data type	free-text
Required CV			
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/@literal		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			2descr
Name	Province or State (legac	y)	
Definition	content is focussing on eithe	r 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 country of the location shown in the image. This element is at the second level of a top-down geographical hierarchy.		
Photo Help Text	Enter the name of the province or state 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. 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			



IFIC Photo Metadala: Co	ore 1.2/Extension 1.1 (July 2014) - Doc Rev 1 Production - Public Release		
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)			
	1		
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			
Name	2des Scene Code		
Definition	Describes the scene of a news content. Specifies one or more terms from the IPTC "Scene-NewsCodes". Each Scene is represented as a string of 6 digits in an unordered list.		
Photo Definition	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 IPTC Scene NewsCodes Controlled Vocabulary (see: http://www.newscodes.org/)		
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	Interformer Concerner		
	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 should be used here. More about the IPTC Scene-NewsCodes at www.newscodes.org.		
Maps to this IIM property			
XMP/IIM mapping note(s)	1		
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/genre/@qcode		
Property-attribute(s)			
QCode scheme	IPTC Scene NewsCodes		
Implementation note(s)			
Generic Specification	2des		
-	Subject Code		
Name			
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 unordere 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 IPTC Subject NewsCode Controlled Vocabulary (see: http://www.newscodes.org/)		
User Note(s)			
Implementation Note(s)			
Eigld lobal/title	LIDTC Subject Code		
Field label/title	IPTC Subject Code		
Cardinality	0unbounded Basic data type CV-code		

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		
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subjec	t/@acode	
Property-attribute(s)			
QCode scheme	IPTC Subject NewsCodes		
Implementation note(s)			
Generic Specification			2descr
Name	Sublocation (legacy)		
Definition	media or referenced by text or of a sublocation to a city or the	r audio media. This lo e name of a well know a sublocation to a city	either the location shown in visual cation name could either be the name n location or (natural) monument this element is at the fourth level of a
Photo Definition	Exact name of the sublocation shown in the image. This sublocation 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 hierarchy.		
Photo Help Text	Enter the name of the Subloca		
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	Sublocation	1	
Cardinality	01	Basic data type	free-text
Required CV Spec change history	Legacy status assigned in v 1.	1	
XMP implementation			
XMP namespace XMP Value Type	Iptc4xmpCore Text	XMP property id XMP Category	Location External
Implementation note(s)	Text	AIMF Calegory	External
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			Sadmin
Name	Date Created		Jadmin
Definition		nally the time the intel	lectual content was created rather
Demillon	than the date of the creation of		
Photo Definition	Designates the date and optionally the time the content of the image was created rather than the date of the creation of the digital representation.		
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/conter	ntCreated	
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	Enter the name of the person i the image	involved in writing, edi	iting or correcting the description of
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/contrib	outor	
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		rpose of improved wo	rkflow handling. This is a user created
Photo Definition	identifier related to the job for		
Photo Delinition	identifier related to the job for	which the image is sup	
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		
Implementation note(s)	Note: As this identifier references a job of the receiver's workflow it must first be issued by the receiver, then transmitted to the creator or provider of the news object and finally added by the creator to this field.		
Maps to this IIM property	2:103 Original Transmission R		
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/itemMeta/memberC	Of/@literal	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
Generic Specification			3admin
Name	Title		oddinin
Definition		item. Title provides a s	short human readable name which
	can be a text and/or numeric r		
Photo Definition	A shorthand reference for the	digital image. Title pro	vides a short human readable name
Dhata Llala Tart	which can be a text and/or nur		
Photo Help Text			he image, this may be the file name
User Note(s)		ers are provided by the	mage, though the field may be used Digital Image Id, or the Registry
Implementation Note(s)			
Field label/title	Title		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation	<u>.</u>		
XMP namespace	dc	XMP property id	title
		XMP Category	
XMP Value Type Implementation note(s)	Lang Alt Note 1: This element aligns wi		External
	Note 2: the XMP property (dc: type Lang Alt. Hence any softw	title) which stores the vare agent dealing wit	value of this IPTC Core property is of h this property must abide to the
	type Lang Alt. Hence any softwork of the processing rules for Lang Alt v		



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)	/newsltem/itemMeta/title
Property-attribute(s)	
QCode scheme	
Implementation note(s)	

Generic Specification			4rightrel
Name	Copyright Notice		
Definition	Contains any necessary copyright notice for claiming the intellectual property for this item and should identify the current owner of the copyright for the item. Other entities like the creator of the item may be added in the corresponding field. Notes on usage rights should		
	be provided in "Rights usage terms".		
Photo Definition	photograph and should identify	y the current owner of of the photograph may	g the intellectual property for this the copyright for the photograph. be added in the corresponding field. usage terms".
Photo Help Text	Doe	1,7,0	t for this image, such as ©2008 Jane
User Note(s)	Copyright ownership can be expressed in a more controlled way using the PLUS fields "Copyright Owner", "Copyright Owner ID", "Copyright Owner Name" of the IPTC Extension. It is the user's responsibility to keep the values of the four fields in sync.		
Implementation Note(s)		- · ·	
Field label/title	Copyright Notice		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	dc	XMP property id	rights
XMP Value Type	Lang Alt	XMP Category	External
Implementation note(s)	Note: the XMP property (dc:rights) 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	2:116 Copyright Notice		
XMP/IIM mapping note(s)	Use this XPath: dc:rights/*[@xml:lang='x-default']		
G2 implementation			
Property name (XPath)	/newsltem/rightsInfo/copyright	Notice	
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
		entified the name of a	company or organisation may be
Dhata Dafisitian	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	0	
User Note(s)			way using the "Image Creator" of
	PLUS in the IPTC Extension additionally. It is the user's responsibility to keep the values		
	of the IPTC Core and the PLU		
Implementation Note(s)	Synchronising this Creator property with PLUS' Image 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

		J14) - DOC Nev 1	TTOULCION - TUDIIC IVEICASE
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	r/name	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
Generic Specification			4rightrel
Name	Creator's Contact Info		
Definition	The creator's contact informati	on provides all neces	sary information to get in contact with
			properties for proper addressing.
Photo Definition			sary information to get in contact with
	the creator of this image and c	omprises a set of sub	-properties for proper addressing.
Photo Help Text			
User Note(s)			instead of these Creator's Contact
			he creator is also the licensor his or
	her contact information should		
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	IntedympCore	VMD property id	CreaterContectInfo
XMP Value Type	Iptc4xmpCore struct ContactInfo	XMP property id XMP Category	CreatorContactInfo External
Implementation note(s)	Note 1 to user interface implen		
	Note 2: the CreatorContactInfo RFC 2426.		ing aligns with the vCard specification
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/creato	r/noreonDotoilo	
Property-attribute(s)	/newsitem/contentivieta/creato		
QCode scheme			
Implementation note(s)	<u></u>		
Generic Specification			4rightrel
	Createria inhtitia		409000
Name	Creator's jobtitle		
Definition	Contains the job title of the per qualifier the Creator element h Creator's Jobtitle.		content of this item. As this is sort of a andatory prerequisite for using
Photo Definition	has to be filled in as mandator	y prerequisite for using	sort of a qualifier the Creator element g Creator's Jobtitle.
Photo Help Text	Enter the Job Title of the perso	on listed in the Creato	r field
User Note(s)	l		
Implementation Note(s)			
Field label/title	Creator's Jobtitle	1	<u> </u>
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	nhotophon	XMP property id	AuthorsPosition
XMP Value Type	photoshop Text	XMP Category	External

Implementation note(s) Note 1 {added in (July 2010)}: corresponds to the first entry in a sequence of creators

2:85 By-line Title

Maps to this IIM property

XMP/IIM mapping note(s)



G2 implementation			
Property name (XPath)	/newsltem/contentMeta/creato	or/facet	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
Generic Specification			Arightrol
Name	Credit Line		4rightrel
Definition		organiantion(a) requir	ed by the supplier of the item to be
	used when published. This is	a free-text field.	
Photo Definition	used when published. This is	a free-text field.	ed by the supplier of the image to be
Photo Help Text	Enter who should be credited		
User Note(s)	image other rights properties r Note 2: This property was nan	may be used. ned "Credit" by the IIM n IPTC Core 1.1. it has	r or the owner of the copyrights of this I metadata, then it was renamed to s been renamed to "Credit Line" as the
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/creditl	ine	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
Generic Specification			4rightrel
Name	Rights Usage Terms		
Definition	The licensing parameters of th	ie item expressed in fr	ree-text.
Photo Definition	The licensing parameters of th		
Photo Help Text	Enter instructions on how this		
User Note(s)			in parallel to express the licensed
	usage in more controlled term	S.	
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/usageTerms

Property-attribute(s) QCode scheme Implementation note(s)

Generic Specification			4rightrel
Name	Source		
Definition			content supply chain. This could be
	an agency, a member of an agency, an individual or a combination. Source could be		
	different from Creator and from the entities in the Copyright Notice.		
Photo Definition			content supply chain. This could be
			a combination. Source could be
Dhata Ulala Tart	different from Creator and from		
Photo Help Text			a role in the content supply chain,
User Note(s)	such as a person or entity fron This field may be used primari		
Implementation Note(s)	This field may be used primain	IV III SYTUCAUOTI WORK	ilows.
Field label/title	Source		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history	Changed by IPTC Core 1.2, 20	014-06	
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/copyright	Holder	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Metadata Structure: Contact Information Details

Generic Specification			9type-ContInfo
Name	Contact Information Deta	ails structure {dat	ta 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 Province and Web URL.		
Photo Definition			ion to get in contact with a person or
			try, Email address, Phone number, a
	Postal Code, a State or Provin	ce and Web URL.	
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 schei	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" com	mon component	

ma Contint	
ype-ContInf	
and all sent. To tha	
end, the address is a multiline field. 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.	
information	
ype-ContInf	
ype-ContInf	
information	

Photo Help Text Enter the Country name for the address of the person that created this image



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	Iptc4xmpCore XMP property id CiAdrCtry Text XMP Category External	
Implementation note(s)	Note 1: to user interface implementers: This field should be part of a "Contact information	
implementation note(6)	group on the form. Note 2: 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/address/country/name	
Property-attribute(s)		
QCode scheme		
Implementation note(s)		
Generic Specification	9type-ContInf	
Name	Email address(es) {contact info detail}	
Definition	The contact information email address part.	
Photo Definition	The contact information email address part.	
Photo Help Text	Enter the work Email address(es) for the person that created this image, such as name@domain.com	
User Note(s)	Multiple email addresses can be given. May have to be separated by a comma in the use interface.	
Implementation Note(s)		
Field label/title	(Contact Info detail:) Email(s)	
Cardinality Required CV	0unbounded Basic data type string	
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-ContInf	
Name	Phone number(s) {contact info detail}	
Definition	The contact information phone number part.	

Name	Phone number(s) {contact 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	ie
	international format, such as +1 (123) 456789	
User Note(s)	Multiple numbers can be given. May have to be separated by a comma in the us	ser
	interface.	
Implementation Note(s)		
Field label/title	(Contact Info detail:) Phone(s)	
Cardinality	0unbounded Basic data type string	
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Spec change history	
XMP implementation	
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Maps to this IIM property	
XMP/IIM mapping note(s)	
G2 implementation	
Property name (XPath)/contactInfo/phone	
Property-attribute(s)	
QCode scheme	
Implementation note(s)	
Generic Specification 9typ	e-ContInfo
Name Postal Code {contact info detail}	
Definition The contact information part denoting the local postal code.	
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Note 2: 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/address/area		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
Osusaria Osusaitia atian			
Generic Specification		1.4.10	9type-ContInfo
Name	Web URL(s) {contact info		
Definition		ddress part. Multiple a	ddresses can be given, separated by
	a comma.		
Photo Definition			ddresses can be given. May have to
Dhata Ulala Taut	be separated by a comma in th		ad this impacts and an
Photo Help Text	Enter the work Web URL(s) for http://www.domain.com/	r the person that creat	ed this image, such as
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	
Implementation note(s)		nenters: This field sho	uld be part of a "Contact information"
	group on the form.		
	Note 2 to user interface implen	nenters: provide suffic	ient space to fill in multiple URLs.
	Note 3: the ContactInfo naming	g aligns with the vCard	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.



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 ll	PTC headers>	ХМР
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']
Description	2:120 Caption/Abstract	dc:description/*[@xml:lang='x- 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.

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 interests, skills, tastes and emotions
CLI	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 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	0400000	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	0600000	environmental issue All aspects of protection, damage, and condition of the ecosystem of the planet earth and its surroundings.
HTH	0700000	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	IabourSocial 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	1000000	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 the model(s) in a model-released image.		ne model(s) in a model-released
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		t 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	T	
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	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)	/newsltem/contentMeta/descri	ption	
Property-attribute(s)	@role="drol:modelInfo"		
QCode scheme			
Implementation note(s)			
Generic Specification			2descr
Name	Artwork or Object in the		
Definition	A set of metadata about artwo		
Photo Definition	A set of metadata about artwo		
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	Iptc4xmpExt	XMP property id	ArtworkOrObject
XMP Value Type	bag ArtworkOrObjectDetails	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			2desci
Name	Code of Organisation Fe		
Definition		ulary for identifying the	e organisation or company which is
	featured in the content.		
Photo Definition		ulary for identifying the	e organisation or company which is
	featured in the image.		
Photo Help Text			a colon, and finally the code from the
			is image (e.g. nasdaq:companyA)
User Note(s)	For example a stock ticker syr	mbol may be used.	
Implementation Note(s)	Code of footured Organization		
Field label/title Cardinality	Code of featured Organisation 0unbounded	Basic data type	CV-code
Required CV	Open to any CV	Dasic uala type	CV-code
Spec change history			
	<u></u>		
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)	<u></u>		
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject	ct/@qcode	
Property-attribute(s)	@type="cpnat:organisation"		
QCode scheme			
Implementation note(s)			
Generic Specification	1		2desc

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	A term to describe the content of the image by a value from a Controlled Vocabulary.		
Photo Help Text	Enter an identifier for the contr	olled vocabulary, ther	n a colon, and finally the code from the
	vocabulary assigned to the ter	m	
User Note(s)			
Implementation Note(s)			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	
Required CV	Any Controlled Vocabulary reg	jistered with the IPTC	for this field.
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	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
· · · · · · · · · · · · · · · · · · ·	Lessting Observation that		20650
Name	Location Shown in the In		
Definition	A location the content of the ite	em is about. For photo	os 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		
User Note(s)	If the location the image was ta	aken in is different fro	m this location the property Location
	Created should be used too.		
Implementation Note(s)			
Field label/title	Location shown		
Cardinality	0unbounded	Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	LocationShown
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/contentMeta/subject	:t/	
Property-attribute(s)	@type="cpnat:geoArea"		
QCode scheme			
Implementation note(s)			

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	Age of the human model(s) at the time this image was 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)	The user should be aware of a Ages below 18 years should n		of providing ages for young models.	
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/descri	ption		
Property-attribute(s)	@role="drol:modelAge"			
QCode scheme				
Implementation note(s)				
Generic Specification			2descr	
Namo	Name of Organisation E	astured in the Ima	no	

Generic Specification			2descr
Name	Name of Organisation Fe	eatured in the Ima	ige
Definition	Name of the organisation or company which is featured in the content.		
Photo Definition	Name of the organisation or company which is featured in the image.		
Photo Help Text	Enter the name of the organisa	ation which is featured	by this image
User Note(s)	May be supplemented by value field.	es from a controlled v	ocabulary in the Organisation Code
Implementation Note(s)			
Field label/title	Name of featured Organisation	1	
Cardinality	0unbounded	Basic data type	free-text
Required CV			
Spec change history			

XMP implementation			
XMP namespace	Iptc4xmpExt	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	1		
Property name (XPath)	/newsItem/contentMeta/subject	ct/name	
Property-attribute(s)	@type="cpnat:organisation"	50 name	
QCode scheme	Stype= opnationgamoution		
Implementation note(s)			
Generic Specification			2descr
Name	Person Shown in the Ima	age	
Definition			or photos that is a person shown in
	the image.		
Photo Definition	Name of a person shown in th		
Photo Help Text	Enter the name of the person	shown in this image	
User Note(s)	ļ		
Implementation Note(s)			
Field label/title	Person shown		
Cardinality	0unbounded	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	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	ct/name	
Property-attribute(s)	@type="cpnat:person"		
QCode scheme			
Implementation note(s)			
Generic Specification			3admin
Name	Digital Image GUID		
Definition		ne item. It is created a	nd applied by the creator of the item at
	the time of its creation . This v		
Photo Definition	Globally unique identifier for th	nis digital image. It is c	created and applied by the creator of
	the digital image at the time o	of its creation . This val	lue shall not be changed after that
	time.		
Photo Help Text	_	hange - otherwise ente	er a globally unique identifier for this
	digital image		
User Note(s)			nical means of an imaging device or
			file as early as possible in its life cycle.
			, particularly in case of a scan of non-
Implementation Nate (a)	digital images, only this digital		with the technical requirements to
Implementation Note(s)	Any algorithm to create this lo		

	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 identify the date and time of the creation of the picture.
		This field should be implemented in a way to prove it has not been changed since its value has been applied.
L		value has been applied.

	If the identifier has been	created by the imaging devic	e its type and brand can be found in
	the Exif/technical metadata.		
Field label/title	Digital Image Identifier		
Cardinality Required CV	01	Basic data type	string
Spec change history	Specs (July 2010): XMP	Category changed to Interna	1
XMP implementation		oalegory changed to interna	
XMP namespace	Iptc4xmpExt	XMP property id	DigImageGUID
XMP Value Type	text		Internal
Implementation note(s)			
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsltem/contentMeta/a		
Property-attribute(s)	@type="altidtype:image@	JUID"	
QCode scheme			
Implementation note(s)			
Generic Specification			3admi
Name	Digital Source File T	ype (DEPRECATED)	
Definition	The type of the source di	gital file.	
Photo Definition	The type of the source di	gital file.	
Photo Help Text	-		
User Note(s)		ot to imploment this area t	(on (longor
Implementation Note(s) Field label/title	Physical type of original p	not to implement this property	any longer.
Cardinality			CV-code
Required CV		m {scanfilm}, scan from trans	
		from print {scanprint}, came	era raw {cameraraw}, camera tiff
Spec change history	Deprecated in v 1.1		
XMP implementation			
XMP namespace	Iptc4xmpExt		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) Property-attribute(s)	/newsitem/contentMeta/l	ptc4xmpExt:digSourceFileTy	p/@qcode
QCode scheme			
Implementation note(s)			
			3admi
Generic Specification			
Name	Digital Source Type	this digital image	
Name Definition	The type of the source of		
Name Definition Photo Definition	The type of the source of The type of the source of	this digital image	
Name Definition	The type of the source of The type of the source of	this digital image	
Name Definition Photo Definition Photo Help Text User Note(s)	The type of the source of The type of the source of Select one of the values	this digital image	source of the digital image from the
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s)	The type of the source of The type of the source of Select one of the values to controlled vocabulary	this digital image for identifying the type of the	
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title	The type of the source of The type of the source of Select one of the values to controlled vocabulary Type of source for this ph	this digital image for identifying the type of the	source of the digital image from the
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality	The type of the source of The type of the source of Select one of the values to controlled vocabulary Type of source for this ph 01	this digital image for identifying the type of the noto Basic data type	source of the digital image from the
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV	The type of the source of The type of the source of Select one of the values to controlled vocabulary Type of source for this ph 01 Digital Source Type News	this digital image for identifying the type of the	source of the digital image from the
Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history	The type of the source of The type of the source of Select one of the values to controlled vocabulary Type of source for this ph 01	this digital image for identifying the type of the noto Basic data type	source of the digital image from the
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 type of the source of The type of the source of Select one of the values to controlled vocabulary Type of source for this ph 01 Digital Source Type New Added in v 1.1	this digital image for identifying the type of the noto Basic data type scodes - http://cv.iptc.org/ne	source of the digital image from the CV-code wscodes/digitalsourcetype/
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 type of the source of The type of the source of Select one of the values to controlled vocabulary Type of source for this ph 01 Digital Source Type News Added in v 1.1	this digital image for identifying the type of the boto Basic data type sCodes - http://cv.iptc.org/ne	source of the digital image from the CV-code ewscodes/digitalsourcetype/ DigitalSourceType
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	The type of the source of The type of the source of Select one of the values to controlled vocabulary Type of source for this ph 01 Digital Source Type New Added in v 1.1	this digital image for identifying the type of the boto Basic data type sCodes - http://cv.iptc.org/ne	source of the digital image from the CV-code wscodes/digitalsourcetype/
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 type of the source of The type of the source of Select one of the values to controlled vocabulary Type of source for this ph 01 Digital Source Type News Added in v 1.1	this digital image for identifying the type of the boto Basic data type sCodes - http://cv.iptc.org/ne	source of the digital image from the CV-code ewscodes/digitalsourcetype/ DigitalSourceType



G2 implementation			
Property name (XPath)	/newsItem/contentMeta/Iptc4x	mpExt:diaSourceTvpe	e/@acode
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
Generic Specification			Sadmin
-	Friend.		oddinin
Name	Event	"	
Definition	Names or describes the specif		
Photo Definition	Names or describes the specie		
Photo Help Text	Enter the name or description		nony, etc. If this is a sub-event of a
User Note(s)			(XXIX Olympic Summer Games
			Id be named by this property too.
Implementation Note(s)	(Deijing): opening ceremony: (id be hamed by this property too.
Field label/title	Event		
Cardinality	01	Basic data type	free-text
Required CV	01	Dasie data type	
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	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)	/newsltem/contentMeta/subject	\	
Property-attribute(s)	@type="cpnat:event"	<i>, u</i>	
OCode scheme			
QCode scheme			
QCode scheme Implementation note(s)			
Implementation note(s)			3admin
Implementation note(s) Generic Specification			3admin
Implementation note(s) Generic Specification Name	Image Registry Entry		
Implementation note(s) Generic Specification	Both a Registry Item Id and a	Registry Organisation	3admin Id to record any registration of this
Implementation note(s) Generic Specification Name Definition	Both a Registry Item Id and a item with a registry.		Id to record any registration of this
Implementation note(s) Generic Specification Name	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a		
Implementation note(s) Generic Specification Name Definition Photo Definition	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry.	Registry Organisation	Id to record any registration of this Id to record any registration of this
Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th	Registry Organisation	Id to record any registration of this Id to record any registration of this image ID
Implementation note(s) Generic Specification Name Definition Photo Definition	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry	Registry Organisation	Id to record any registration of this Id to record any registration of this
Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s)	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image.	Registry Organisation he registry issuing the is negotiated and app	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital
Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa	Registry Organisation he registry issuing the is negotiated and app tion must show both	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and
Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s)	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon	Registry Organisation he registry issuing the is negotiated and app tion must show both	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital
Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s)	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa	Registry Organisation he registry issuing the is negotiated and app tion must show both	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and
Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s)	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory.	Registry Organisation he registry issuing the is negotiated and app tion must show both	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and
Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry	Registry Organisation the registry issuing the is negotiated and app ation must show both s iding values. Further a	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made
Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry	Registry Organisation the registry issuing the is negotiated and app ation must show both s iding values. Further a	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made
Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry	Registry Organisation the registry issuing the is negotiated and app ation must show both s iding values. Further a	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made
Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as corresponmandatory. Registry Entry 0unbounded	Registry Organisation the registry issuing the is negotiated and app ation must show both s iding values. Further a Basic data type	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made structure
Implementation note(s) Generic Specification 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	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry 0unbounded	Registry Organisation he registry issuing the is negotiated and app ation must show both s iding values. Further a Basic data type XMP property id	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made structure
Implementation note(s) Generic Specification 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	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as corresponmandatory. Registry Entry 0unbounded	Registry Organisation the registry issuing the is negotiated and app ation must show both s iding values. Further a Basic data type	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made structure
Implementation note(s) Generic Specification 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)	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry 0unbounded	Registry Organisation he registry issuing the is negotiated and app ation must show both s iding values. Further a Basic data type XMP property id	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made structure
Implementation note(s) Generic Specification 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	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry 0unbounded	Registry Organisation he registry issuing the is negotiated and app ation must show both s iding values. Further a Basic data type XMP property id	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made structure
Implementation note(s) Generic Specification 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)	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry 0unbounded	Registry Organisation he registry issuing the is negotiated and app ation must show both s iding values. Further a Basic data type XMP property id	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made structure
Implementation note(s) Generic Specification 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	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry 0unbounded	Registry Organisation he registry issuing the is negotiated and app ation must show both s iding values. Further a Basic data type XMP property id	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made structure
Implementation note(s) Generic Specification 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 value Type Implementation note(s) Maps to this IIM property XMP/IIM mapping note(s) G2 implementation	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry 0unbounded	Registry Organisation he registry issuing the is negotiated and app ation must show both s iding values. Further a Basic data type XMP property id	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made structure
Implementation note(s) Generic Specification 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)	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry 0unbounded	Registry Organisation he registry issuing the is negotiated and app ation must show both s iding values. Further a Basic data type XMP property id	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made structure
Implementation note(s) Generic Specification 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 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	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry 0unbounded	Registry Organisation he registry issuing the is negotiated and app ation must show both s iding values. Further a Basic data type XMP property id	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made structure
Implementation note(s) Generic Specification Name Definition Photo Definition Photo Definition Photo Help Text User Note(s) Implementation 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)	Both a Registry Item Id and a item with a registry. Both a Registry Item Id and a digital image with a registry. Enter IDs for this image and th Typically an id from a registry image. Any user interface implementa Organisation Id - as correspon mandatory. Registry Entry 0unbounded	Registry Organisation he registry issuing the is negotiated and app ation must show both s iding values. Further a Basic data type XMP property id	Id to record any registration of this Id to record any registration of this image ID lied after the creation of the digital sub-properties - Item Id and an input to both fields should be made structure

Generic Specification			3admin
Name	Image Supplier		
Definition		of the item, who is	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 recent supplier of this image - note that this might not be the creator or owner of the image		
User Note(s)		well known and/o	r registered company name or a URI
	For identifying the supplier either a well known and/or registered company name or a URL of the company's web site may be used. This property succeeds the Provider property of IPTC Core 1.0 by its semantics as that Provider was renamed to Credit Line.		
Implementation Note(s)	This is a PLUS version 1.2 property	y included in the I	PTC Extension schema.
Field label/title	Image Supplier		
Cardinality	01	Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace		MP 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			
G2 implementation			
-	/newsItem/rightsInfo/ExtPoint		
Property name (XPath)	/newsItem/rightsInfo/ExtPoint		
-	/newsltem/rightsInfo/ExtPoint		
Property name (XPath) Property-attribute(s)	/newsItem/rightsInfo/ExtPoint		
Property name (XPath) Property-attribute(s) QCode scheme	/newsItem/rightsInfo/ExtPoint		
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s)	/newsltem/rightsInfo/ExtPoint		3admin
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification	Image Supplier Image ID Optional identifier assigned by the	Image Supplier to	the image.
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name	Image Supplier Image ID Optional identifier assigned by the	Image Supplier to Image Supplier to	the image.
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition	Image Supplier Image ID	Image Supplier to	the image. the image.
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s)	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I	Image Supplier to by the image supp	the image. the image. lier.
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s)	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property	Image Supplier to by the image supp	the image. the image. lier.
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s)	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id	Image Supplier to by the image supp y included in the If	the image. the image. lier.
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id	Image Supplier to by the image supp	the image. the image. lier.
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id 01	Image Supplier to by the image supp y included in the If Basic data type	the image. the image. blier. PTC Extension schema.
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id	Image Supplier to by the image supp y included in the If Basic data type	the image. the image. blier. PTC Extension schema.
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id 01	Image Supplier to by the image supp y included in the If Basic data type	the image. the image. blier. PTC Extension schema.
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Definition Photo Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id 01 Specs (July 2010): property added	Image Supplier to by the image supp y included in the If Basic data type	the image. the image. blier. PTC Extension schema.
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id 01 Specs (July 2010): property added	Image Supplier to by the image supp y included in the If Basic data type	the image. the image. olier. PTC Extension schema. string
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification 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)	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id 01 Specs (July 2010): property added plus X	Image Supplier to by the image supp y included in the II Basic data type	the image. the image. olier. PTC Extension schema. string ImageSupplierImageID
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Mame Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation XMP namespace XMP Value Type Implementation note(s)	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id 01 Specs (July 2010): property added plus X	Image Supplier to by the image supp y included in the II Basic data type	the image. the image. olier. PTC Extension schema. string ImageSupplierImageID
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification 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)	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id 01 Specs (July 2010): property added plus X	Image Supplier to by the image supp y included in the II Basic data type	the image. the image. olier. PTC Extension schema. string ImageSupplierImageID
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Definition Photo Help Text User Note(s) Implementation 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)	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id 01 Specs (July 2010): property added plus X	Image Supplier to by the image supp y included in the II Basic data type	the image. the image. olier. PTC Extension schema. string ImageSupplierImageID
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Definition Photo Help Text User Note(s) Implementation 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	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id 01 Specs (July 2010): property added plus X	Image Supplier to by the image supp y included in the II Basic data type	the image. the image. olier. PTC Extension schema. string ImageSupplierImageID
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Definition Photo Help Text User Note(s) Implementation Note(s) Implementation Note(s) Field label/title Cardinality Spec change history 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	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id 01 Specs (July 2010): property added plus X	Image Supplier to by the image supp y included in the II Basic data type	the image. the image. olier. PTC Extension schema. string ImageSupplierImageID
Property name (XPath) Property-attribute(s) QCode scheme Implementation note(s) Generic Specification Name Definition Photo Definition Photo Definition Photo Help Text User Note(s) Implementation 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	Image Supplier Image ID Optional identifier assigned by the Optional identifier assigned by the Enter the unique identifier created I This is a PLUS version 1.2 property Image Supplier Image Id 01 Specs (July 2010): property added plus X	Image Supplier to by the image supp y included in the II Basic data type	the image. the image. olier. PTC Extension schema. string ImageSupplierImageID

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.

		here have emplied	often this data
	One may infer no metadata va		
Implementation Note(s)	The value of this property should never be set by software. XMP-aware software should reflect any changes to metadata by the xmp:MetadataDate property of the XMP Basic		
	scheme.	ta by the xmp:ivietada	tadate property of the XMP Basic
	IPTC Fields Last Edited		
Field label/title		Decis data tura	DetaTina
Cardinality	01	Basic data type	DateTime
Required CV		4	
Spec change history	Legacy status assigned in v 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		he user or be set by a metadata
	editing software		
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 locati	on where this image v	was created
User Note(s)			ion the photo was taken the IPTC
	Extension property Location S	hown in the Image sh	ould be used.
Implementation Note(s)		-	
Field label/title	Location Created		
Cardinality	01	Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	LocationCreated

XMP namespace	lptc4xmpExt	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)	/newsltem/contenteMeta/loca	ted/POIdetails/contact	Info/address/(locality,area.country)
		lied, i Oldetallo, contact	(locality, aloa, oo aliay)
Property-attribute(s)			into addreed into any area, or driving y
			into/ddarooo/int(locality;arod;ocarity)

Generic Specification			3admin	
Name	Max Avail Height			
Definition	The maximum available height in pixels of the original photo from which this photo has been derived by downsizing.			
Photo Definition	The maximum available heigh been derived by downsizing.	The maximum available height in pixels of the original photo from which this photo has		
Photo Help Text	Enter the maximum available has been derived by downsizi	Enter the maximum available height in pixels of the 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	Iptc4xmpExt	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)	/newsltem/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	Iptc4xmpExt	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 PLU	JS standards in place	at the time of the transaction.
Photo Definition	The version number of the PLU	JS standards in place	at the time of the transaction.
Photo Help Text	-		
User Note(s)	In the event of a misunderstan reference to the version of the transaction. PLUS standards a	PLUS standards that are updated periodical	was in place at the time of the ly.
Implementation Note(s)	other PLUS properties. To refle string "1.2.0"		schema from PLUS version 1.2 as all PLUS Version" should be set to the
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 copyrigh	it in the licensed ima	age.
Photo Definition	Owner or owners of the copyrigh	it in the licensed ima	age.
Photo Help Text	Enter the owner or owners of the	e copyright in the lice	ensed image
User Note(s)			he Copyright Owner, Image Creator
	and Licensor may be the same o		
Implementation Note(s) Field label/title	This is a PLUS version 1.2 prope Copyright owner	erty included in the I	PIC Extension schema.
Cardinality	03	Basic data type	structure
Required CV	0	Dasic uala type	Siluciule
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	CopyrightOwner
XMP Trainespace XMP Value Type	Seq CopyrightOwnerDetail	XMP Category	External
Implementation note(s)		Xilli Oategoly	External
Maps to this IIM property			
XMP/IIM mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/CopyrightHo	older/@acode + /na	me
Property-attribute(s)	/newsitem/ngntsinio/copyngnting	oluel/@qcoue + /lla	lile
QCode scheme			
Implementation note(s)			
Generic Specification			4rightre
Name	Image Creator		
Definition	Creator or creators of the image.		
Photo Definition	Creator or creators of the image		
Photo Help Text	Enter details about the creator or	r creators of this ima	age
User Note(s)	In many countries, the Image Cre	eator must be attrib	t using the IPTC Core Creator field. uted in association with any use of the
	image. The Image Creator, Copy same or different entities.	right Owner, Image	Supplier and Licensor may be the
Implementation Note(s)	This is a PLUS version 1.2 prope	erty 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/creator/@	@qcode + /name	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
Generic Specification			4rightre
Name	Licensor		
Definition		d be contacted to ob	tain a licence for using the item or
DeminuOff	who has licensed the item.		the neerice for using the nerr of

A person or company that should be contacted to obtain a licence for using the item or 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.		
Enter the person or company that should be contacted for obtaining a license for this image		
This is a PLUS version 1.2 pro	perty included in the l	IPTC Extension schema.
Licensor		
03	Basic data type	struct
	who has licensed the item. A person or company that sho who has licensed the item. Enter the person or company to image This is a PLUS version 1.2 pro Licensor	who has licensed the item. A person or company that should be contacted to ob who has licensed the item. Enter the person or company that should be contact image This is a PLUS version 1.2 property included in the Licensor

IPTC Photo Metadata: Co	ore 1.2/Extension 1.1 (July 2	014) - Doc Rev 1	Production - Public Release
Required CV			
Spec change history			
XMP implementation	<u> </u>		
XMP namespace	plus	XMP property id	Licensor
XMP Value Type	bag LicensorDetail	XMP property id XMP Category	External
	bag Licensor Detail	AIVIF Calegory	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			4rightre
Name	Minor Model Age Disclo	sure	
Definition			the time that the image was made.
Photo Definition			the time that the image was made.
Photo Help Text			image, at the time that this image
	was made.		
User Note(s)	This age should not be displa	yed to the public on op	pen web portals and the like. But it
	may be used by image reposi		
Implementation Note(s)	This is a PLUS version 1.2 pr		
Field label/title	Minor Model Age Disclosure	1	
Cardinality	01	Basic data type	CV-code
Required CV	CV defined by PLUS	Bablo dala typo	01 0000
Spec change history	Specs (July 2010): XMP Valu	a type corrected	
XMP implementation		1	1
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			
	/nowaltam/rightalafa/EvtDaiat		
Property name (XPath)	/newsItem/rightsInfo/ExtPoint		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
Conorio Crocklestier	1		
Generic Specification			4rightre
Name	Model Release Id		
Definition	Optional identifier associated		
Photo Definition	Optional identifier associated		ase.
Photo Help Text	Enter an identifier for each Mo	odel Release	
User Note(s)			
Implementation Note(s)	This is a PLUS version 1.2 pr	operty included in the	IPTC Extension schema.
Field label/title	Model Release Id		
Cardinality	0unbounded	Basic data type	Identifier
Required CV	1		
Spec change history	Specs (July 2010): definition a	aligned with PLUS spe	CS
XMP implementation			
		VMD property id	MadalPalaasalD
XMP namespace	plus Pog Toxt	XMP property id	ModelReleaseID
XMP Value Type	Bag Text	XMP Category	External
Implementation note(s)			

Property name (XPath) /newsItem/rightsInfo/ExtPoint

Maps to this IIM property XMP/IIM mapping note(s)

Property-attribute(s) QCode scheme Implementation note(s)

G2 implementation

Production - Public Release

IPTC Photo Metadata: Core 1.2/Extension 1.1 (July 2014) - Doc Rev 1

Generic Specification			4rightrel
Name	Model Release Status		
Definition	Summarizes the availability an	nd scope of model rele	eases authorizing usage of the
	likenesses of persons appearing		0 0
Photo Definition	Summarises the availability an		eases authorising usage of the
	likenesses of persons appearing	ng in the photograph.	
Photo Help Text			bility 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	IPTC Extension schema.
Field label/title	Model Release Status		r
Cardinality	01	Basic data type	CV-code
Required CV	CV defined by PLUS		
Spec change history	Specs (July 2010): XMP Value	e 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	with each Property Re	lease.	
Photo Definition	Optional identifier associated		lease.	
Photo Help Text	Enter an identifier for each Pro	operty Release		
User Note(s)				
Implementation Note(s)	This is a PLUS version 1.2 pro	operty included in the l	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	Specs (July 2010): definition aligned with PLUS specs		
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 str	ucture {data type}
Definition	A structured datatype for details about artwork or an object in an image. Includes a Copyright Notice, a Creator, a Date Created, a Source, a Source Inventory Number and a Title.		
Photo Definition	A structured datatype for details about artwork or an object in an image. Includes a Copyright Notice, a Creator, a Date Created, a Source, a Source Inventory Number and a Title.		
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	Iptc4xmpExt	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			
	, .	5	rent owner of the copyright of this	
	work with associated intellectu			
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)		Aivii Category	External
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 Ob	ect detail}	
Definition			work or an object in the image.
Photo Definition			work or an object in the image. In
			ed the name of a company or
Dhata Uala Taut	organisation may be appropri		
Photo Help Text User Note(s)	Enter the name of the artist w	no has created artwork	c or an object in this image
Implementation Note(s)			
Field label/title	(Artwork or Object detail:) Cre	pator	
Cardinality	0unbounded	Basic data type	string
Required CV			'y
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	AOCreator
XMP Namespace XMP Value Type	Seq ProperName	XMP Category	External
Implementation note(s)		Xivii Oategory	Exema
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 of		
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			ork or object in this image was
	created		
User Note(s)			
Implementation Note(s)		a avaata -l	
Field label/title	(Artwork or Object detail:) Dat		DataTimo (proformad: trunsated
Cardinality	01	Basic data type	DateTime (preferred: truncated DateTime)
Required CV		l	Baterinoj
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	AODateCreated
XMP Value Type	Date	XMP Category	External
Implementation note(s)		eatogory	
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-artol
Name	Source {Artwork or Obje	ct detail}	
Definition	The organisation or body holding and registering the artwork or object in the image for inventory purposes.		
Photo Definition	The organisation or body holding and registering the artwork or object in the image for		
Photo Help Text	inventory purposes. Enter the name of the organisation or body holding and registering the artwork or object in		
-	this image for inventory purpos	ses	
User Note(s)			
Implementation Note(s)			
Field label/title Cardinality	(Artwork or Object detail:) Sou 01	rce Basic data type	free-text
Required CV	01	Dasic uala type	liee-lext
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	AOSource
XMP Value Type		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-arto
Name	Source Inventory Number	ar {Artwork or Ohi	
D (* ***			
Definition	The inventory number issued artwork or object in the image.	by the organisation or	body holding and registering the
Definition Photo Definition	The inventory number issued la artwork or object in the image. The inventory number issued la artwork or object in the image.	by the organisation or by the organisation or by	body holding and registering the
	The inventory number issued la artwork or object in the image. The inventory number issued la artwork or object in the image. Enter the inventory number iss	by the organisation or by the organisation or by the organisation or build by the organisation	body holding and registering the
Photo Definition Photo Help Text User Note(s)	The inventory number issued la artwork or object in the image. The inventory number issued la artwork or object in the image.	by the organisation or by the organisation or by the organisation or build by the organisation	body holding and registering the
Photo Definition Photo Help Text User Note(s) Implementation Note(s)	The inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image	by the organisation or by the organisation or by the organisation or build by the organisation	body holding and registering the
Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title	The inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou	by the organisation or by the organisation or sued by the organisation rce inventory number	body holding and registering the body holding and registering the on or body holding and registering th
Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality	The inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image	by the organisation or by the organisation or by the organisation or build by the organisation	body holding and registering the
Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV	The inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou	by the organisation or by the organisation or sued by the organisation rce inventory number	body holding and registering the body holding and registering the on or body holding and registering th
Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history	The inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou	by the organisation or by the organisation or sued by the organisation rce inventory number	body holding and registering the body holding and registering the on or body holding and registering th
Photo Definition Photo Help Text User Note(s) Implementation Note(s) Field label/title Cardinality Required CV Spec change history XMP implementation	The inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type	body holding and registering the body holding and registering the on or body holding and registering th string
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 inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id	body holding and registering the body holding and registering the on or body holding and registering th string AOSourceInvNo
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	The inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type	body holding and registering the body holding and registering the on or body holding and registering th string
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 inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id	body holding and registering the body holding and registering the on or body holding and registering th string AOSourceInvNo
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	The inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id	body holding and registering the body holding and registering the on or body holding and registering th string AOSourceInvNo
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)	The inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id	body holding and registering the body holding and registering the on or body holding and registering th string AOSourceInvNo
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 inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id	body holding and registering the body holding and registering the on or body holding and registering th string AOSourceInvNo
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 inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id	body holding and registering the body holding and registering the on or body holding and registering th string AOSourceInvNo
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 inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id	body holding and registering the body holding and registering the on or body holding and registering th string AOSourceInvNo
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 inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id	body holding and registering the body holding and registering the on or body holding and registering the string AOSourceInvNo
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 inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id	body holding and registering the body holding and registering the on or body holding and registering th string AOSourceInvNo External
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 inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id XMP Category	body holding and registering the body holding and registering the on or body holding and registering th string AOSourceInvNo External
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) Generic Specification Name Definition	The inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01 Iptc4xmpExt Text Mapping rules are pending.	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id XMP Category detail}	body holding and registering the body holding and registering the on or body holding and registering th string AOSourceInvNo External
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) Generic Specification	The inventory number issued I artwork or object in the image. The inventory number issued I artwork or object in the image. Enter the inventory number iss artwork or object in this image (Artwork or Object detail:) Sou 01 Iptc4xmpExt Text Text Mapping rules are pending. Title {Artwork or Object A reference for the artwork or A reference for the artwork or	by the organisation or by the organisation or sued by the organisation rce inventory number Basic data type XMP property id XMP Category detail} object in the image.	body holding and registering the body holding and registering the on or body holding and registering the string AOSourceInvNo External 9type-artol

 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	Iptc4xmpExt	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 structu		
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 ISO-Code) and a World 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	Iptc4xmpExt	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.		
Photo Definition	Name of the city of a location. geographical hierarchy.	This element is at the	fourth level of a top-down
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	Iptc4xmpExt	XMP property id	City
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/			
Property-attribute(s)	@type="cpnat:geoArea"+@facet="fct:city"			
QCode scheme				
Implementation note(s)	Mapping for Location Shown in	n the Image only		
	1			
Generic Specification			9type-location	
Name	Country ISO-Code {locat	tion detail}		
Definition			nt is at the second level of a top-down	
	geographical hierarchy.			
Photo Definition		a location. This eleme	nt 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)	(Leastian dataile) Country ICO	Cada		
Field label/title Cardinality	(Location detail:) Country ISO- 01		CV-code	
Required CV	ISO 3166-1 - 2 or 3 characters	Basic data type	CV-code	
Spec change history	Specs (201007): XMP ValueT			
XMP implementation				
XMP namespace	Iptc4xmpExt	XMP property id	CountryCode	
XMP Value Type	closed choice	XMP Category		
Implementation note(s)			ne length of the value string whether	
	provided.		cheme as no explicit indication can be	
Maps to this IIM property				
XMP/IIM mapping note(s)				
G2 implementation				
Property name (XPath)	/newsltem/contentMeta/subject			
Property-attribute(s) QCode scheme	@type="cpnat:geoArea"+@fac	cet= ict.country		
Implementation note(s)	Mapping for Location Shown in	the Image only		
		r the image only		
Generic Specification			9type-location	
Name	Country Name {location	dotaill		
Definition			at the second level of a top-down	
Deminion	geographical hierarchy.		at the second level of a top-down	
Photo Definition		ation. 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			
Cardinality	01	Basic data type	string	
Required CV				
Spec change history				
XMP implementation				
XMP namespace	Iptc4xmpExt	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			
QCode scheme				
Implementation note(s)	Mapping for Location Shown in	n the Image only		



Generic Specification			9type-location	
Name	Province or State {location detail}			
	The name of a subregion of a country - a province or state - of a location. This element is			
Definition				
	at the third level of a top-down			
Photo Definition			or state - of a location. This element is	
	at the third level of a top-down		hy.	
Photo Help Text	Enter the name of the Province	e or State		
User Note(s)				
Implementation Note(s)				
Field label/title	(Location detail:) Province/Sta	te		
Cardinality	01	Basic data type	string	
Required CV				
Spec change history				
XMP implementation				
XMP namespace	Iptc4xmpExt	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/subject	ct/		
Property-attribute(s)	@type="cpnat:geoArea"+@fac	@type="cpnat:geoArea"+@facet="fct:provState"		
QCode scheme				
Implementation note(s)	Mapping for Location Shown in	n the Image only		

Generic Specification			9type-location		
Name	Sublocation {location detail}				
Definition	Name of a sublocation. This sublocation 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 fifth level of a top-down geographical hierarchy.				
Photo Definition	to a city or the name of a well sense of a sublocation to a city hierarchy.	Name of a sublocation. This sublocation 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 fifth level of a top-down geographical			
Photo Help Text	Enter the name of the Subloca	ation			
User Note(s)					
Implementation Note(s)					
Field label/title	(Location detail:) Sublocation				
Cardinality	01	Basic data type	string		
Required CV					
Spec change history					
XMP implementation					
XMP namespace	Iptc4xmpExt	XMP property id	Sublocation		
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)	/newsltem/contentMeta/subject	ct/			
Property-attribute(s)	@type="cpnat:geoArea"+@fac	cet="fct:subLoc"			
QCode scheme					
Implementation note(s)	Mapping for Location Shown in	n the Image only			
Generic Specification			9type-location		
Name	World Region {location				
Definition		a location. This eleme	ent is at the first (topl) level of a top-		
	down geographical hierarchy.				
Photo Definition		a location. This eleme	ent is at the first (topl) level of a top-		
	down geographical hierarchy.				
Photo Help Text	Enter the name of the World R	legion			



User Note(s)			
Implementation Note(s)			
Field label/title	(Location detail:) World Regio	n	
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	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)	/newsltem/contentMeta/subject/		
Property-attribute(s)	@type="cpnat:geoArea"+@facet="fct:worldReg"		
QCode scheme		-	
Implementation note(s)			

Metadata Structure: Registry Entry Details

Generic Specification			9type-registryid	
Name	Registry Entry Details structure {data type}			
Definition	A structured datatype for an entry in a registry, includes the id issued by the registry and			
	the registry's id.			
Photo Definition		ntry in a registry, inclu	des the id for the image issued by the	
	registry and the registry's id.			
Photo Help Text	-			
User Note(s)				
Implementation Note(s)	N1/A			
Field label/title	N/A	Desis data tura	- 1	
Cardinality		Basic data type	structure	
Required CV				
Spec change history				
XMP implementation				
XMP namespace	Iptc4xmpExt	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	etail}		
Definition			by the creator of the item. This value	
			fier is linked to a corresponding	
	Registry Organisation Identifie			
Photo Definition			by the creator of the digital image.	
	This value shall not be change		This identifier is linked to a	
	corresponding Registry Organisation Identifier. Enter the unique identifier created by a registry and applied by the creator of the digital			
Photo Help Text				
	image. This value shall not be		applied. must be unique for the issuing	
User Note(s)	registry.	unique by itself, but it	must be unique for the issuing	
Implementation Note(s)	regiony.			
Field label/title	(Registry Entry detail:) Item Ide	entifier		
Cardinality	1 Basic data type string			
Required CV	•		Johny	
	1			

Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	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)	/newsltem/contentMeta/altId		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
Generic Specification			9type-registryid
Name	Organisation Id {registry		
Definition	An identifier for the registry wh		
Photo Definition	An identifier for the registry which issued the corresponding Registry Image Id.		
Photo Help Text	Enter the identifier for the registry which issued the corresponding Registry Image ID		
User Note(s)			
Implementation Note(s)			
Field label/title	(Registry Entry detail:) Organisation Identifier		
Cardinality	1	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	RegOrgId
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/@type="RegOrgId"		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			



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 <u>on the Ifra web site</u>. 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.

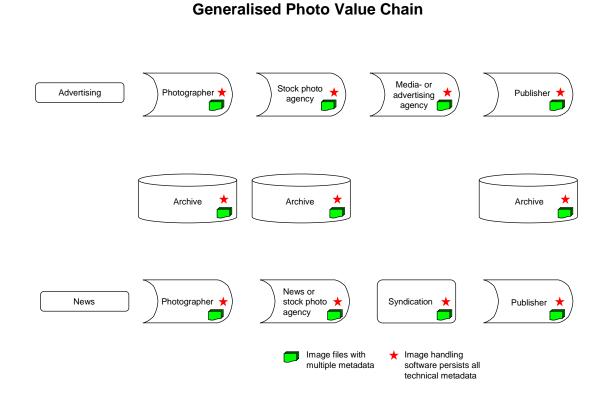
How to persist metadata in different workflows

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.

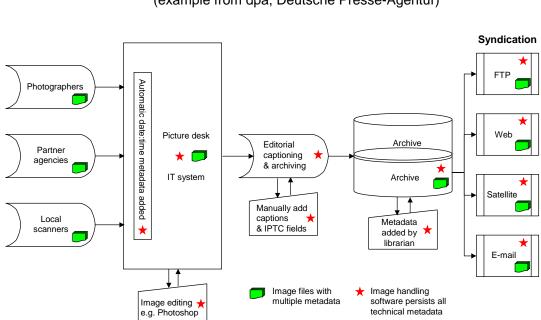




At every stage in the value chain, starting with downloading images from the camera to a storage device, and at every further stage of picture annotation and editing, only software that persists and maintains all photo metadata should be used.

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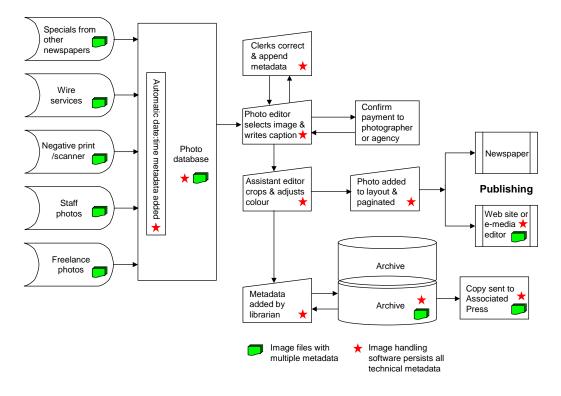


News Agency Workflow

(example from dpa, Deutsche Presse-Agentur)

U.S. Newspaper's Workflow

(a typical example)





"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

- Descriptions (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.
- 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 expensiveⁱⁱ. 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.sno.phy.queensu.ca/~phil/exiftool/

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

[#] An example of such software is Phil Harvey's ExifTool to be found at: