

# IPTC Standard Photo Metadata

(July 2009)

# **IPTC Core**

Specification Version 1.1

# **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 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), David Riecks (PLUS), Sarah Saunders (BAPLA), Jeff Sedlik (PLUS), Klaus Sprick (IPTC), Staffan Teste (Cepic), Andy Williams (Ifra)



#### About the Standard

#### **IPTC Core Specification Version History**

Version	Issue Date	Approved by	Remarks
1.0	2004-10-08	IPTC Standards Committee	
1.1	2008-07-02	IPTC Standards Committee	

#### **IPTC Extension Specification Version History**

Version	Issue Date	Approved by	Remarks
1.0	2008-07-02	IPTC Standards Committee	
1.1	2009-06-17	IPTC Standards Committee	

#### **Document Revision History**

Revision	Issue Date	Author/revised by	Remarks
1	2009-07-07	Photo Md WG/M Steidl	

#### About this Document

- This document specifies metadata properties intended to be used primarily but not exclusively with photos.
- This document is a specification which may be revised to fix errata, this 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 specification document which was endorsed by the IPTC members and may be updated, replaced or obsoleted 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 2009, 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 and they are widely supported by imaging software.

IPTC Photo Metadata aligns with other IPTC metadata standards which 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 2009) 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 specialized rights related properties from the PLUS metadata schema [PLUS].

This allows users to decide whether ...

- ... to use only the IPTC Core schema with higher backward compatibility but less refined metadata
- ... to use the IPTC Core and the Extension schema with refined and specialized 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 are 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 under the control of the camera manufacturers, their associations (such as CIPA) and others. As the IPTC acknowledges these technical metadata standards of other bodies and as the IPTC does not want 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 Persisting Technical Photo Metadata have been formulated and these 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**

In about 1990 the IPTC developed its "Information Interchange Model" (IIM) metadata property standard for exchanging news which was by design media-type agnostic and thus implicitly 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 metadata framework "Extensible Metadata Platform (XMP)" [Adobe XMP] and it was obvious that this will make the "Image Resource Blocks" sooner or later obsolete as the XML-based XMP technology is much more flexible and can deal better with globalisation requirements.

In 2004 the IPTC and Adobe developed jointly 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 hearing wide assent to this paper the IPTC developed specifications for the "IPTC Extension Schema" and revised slightly the IPTC Core specifications. Both specifications are released in one document as "IPTC Photo Metadata" and were last updated in July 2009.

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#### **Photo Metadata specification notation**

#### The specification template

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

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

The specifications of a Photo Metadata property are notated by a generic table, 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 technology.		
Generic Specification	Property Group (in blue): <b>descr</b> iptive / <b>admin</b> istrative / <b>rights rel</b> ated / a data <b>type</b> definition		
denone opecinication	This property grouping is not normative, only an indicator of general semantics		
Name	The reference name of the property used by this specification		
Italie	This name shall never be translated		
Definition	A media-type agnostic definition of the semantics of this property, may be translated for		
	localization.		
Photo Definition	A photo-specific definition of the semantics of this property, 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,		
•	should be translated for localization.		
User Note(s)	Any notes which apply to the end user of this property, should be translated for localization.		
Implementation Note(s)	Any notes which apply to parties implementing this property using any technology.		
Field label/title	Text which should appear next to the entry field in the user interface, 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 which must be used with this property.		
Spec change history	A note in which version a property was changed – and how.		
XMP implementation	The technical implementation specification for Adobe XMP		
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		
IIM mapping	If this property is mapped to an IIM property its IIM Data Set id and name appears in this row.		
IIM/XMP mapping note(s)	Any note on accessing an XMP property for mapping it to the corresponding IIM property.		
	The technical implementation specification for IPTC G2-Standards		
G2 implementation	If this section is left empty no straightforward mapping is possible or recommended, because of		
	either blurred semantics of a photo property or not having an equivalent G2-property.		
Property name (XPath)			
	an XPath for a G2 item.		
Property-attribute(s)			
QCode scheme	The scheme-URI of a required controlled vocabulary		
Implementation note(s)	Any note regarding the G2-specific implementation		

# **Generic specification notes**

- Some IPTC Core properties show {legacy} appended to their name.
   This is indicated if the IPTC Extension provides a better solution to annotate this information about an image than the IPTC Core does and hence the IPTC recommends to phase out the use of the {legacy}-marked property and to move to using the IPTC Extension. See the notes on this matter in the particular specification table.
- 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]

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# **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.

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

#### **Metadata Properties**

Generic Specification			2descr
Name			
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	Name of the city of the location shown in the image. This element is at the third level of a top-down geographical hierarchy.		
Photo Help Text	Enter the name of the City pict	ured 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	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)			
IIM Mapping	2:90 City		
IIM/XMP Mapping note(s)	photoshop:City		
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Do not map this property but either Location Created or Location Shown in the Image of the IPTC Extension schema		

Generic Specification	2descr
Name	Country (legacy)
Definition	Full name of the country the content is focussing on either the country shown in visual
	media or referenced in text or audio media. This element is at the top/first level of a top-
	down geographical hierarchy. The full name should be expressed as a verbal name and
	not as a code, a code should go to the element "CountryCode"
Photo Definition	Full name of the country of the location shown in the image. This element is at the top/first
	level of a top-down geographical hierarchy. The full name should be expressed as a
	verbal name and not as a code, a code should go to the element "CountryCode"
Photo Help Text	Enter the name of the Country pictured in this image
User Note(s)	This is a detail of a location with blurred semantics as it does not clearly indicate whether
	it is the location in the image or the location the photo was taken - which can be different.
	Two more concise properties are available in IPTC Extension with Location Created and
	Location Shown in the Image.

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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)			
IIM Mapping	2:101 Country/Primary Location Name		
IIM/XMP Mapping note(s)	photoshop:Country		
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Do not map this property but et the IPTC Extension schema	either Location Created	d or Location Shown in the Image of

Generic Specification			2descr
Name	Country Code (legacy)		
Definition	Code of the country the content is focussing on either the country shown in visual media		
			s at the top/first level of a top-down
	geographical hierarchy. The code should be taken from ISO 3166 two or three letter. The full name of a country should go to the "Country" element.		
Photo Definition			ge. This element is at the top/first
	level of a top-down geographic	cal hierarchy. The cod	e should be taken from ISO 3166 two
			ld go to the "Country" element.
Photo Help Text			Country pictured in this image
User Note(s)			s it does not clearly indicate whether
			to was taken - which can be different.
	Location Shown in the Image.		Extension with Location Created and
Implementation Note(s)	Location Shown in the image.		
Field label/title	ISO Country Code		
Cardinality	01 Basic data type CV-code		
Required CV	ISO 3166-1 - 2 or 3 characters	,	
Spec change history	Legacy status assigned in v 1.	.1	
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CountryCode
XMP Value Type	closed choice Text	XMP Category	External
Implementation note(s)			ne length of the value string whether
		ne two or three letter s	cheme as no explicit indication can be
IIM Mapping	provided. 2:100 Country/Primary Location Code		
IIM/XMP Mapping note(s)	Iptc4xmpCore:CountryCode		
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
	the IPTC Extension schema		_

Generic Specification	2descr		
Name	Description		
Definition	A textual description, including captions, of the item's content, particularly used where the object is not text.		
Photo Definition	A textual description, including captions, of the image.		
Photo Help Text	Enter a "caption" describing the who, what, and why of what is happening in this image, this might include names of people, and/or their role in the action that is taking place		
User Note(s)			
Implementation Note(s)			
Field label/title	Caption/Description		
Cardinality	01 Basic data type   free-text		



Required CV			
Spec change history			
XMP implementation			
XMP namespace	dc	XMP property id	description
XMP Value Type	Lang Alt	XMP Category	External
Implementation note(s)	Note: the XMP property (dc:de is of type Lang Alt. Hence any processing rules for Lang Alt v	software agent dealin	s the value of this IPTC Core property g with this property must abide to the by the XMP specifications.
IIM Mapping	2:120 Caption/Abstract		,
IIM/XMP Mapping note(s)	dc:description/*[@xml:lang='x-	-default']	
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/descri	ption	
Property-attribute(s)	@role="drol:caption"		
QCode scheme		<u>-</u>	·
Implementation note(s)			

Generic Specification			2desci
Name	Headline		
Definition	A brief synopsis of the caption	. Headline is not the s	ame as Title.
Photo Definition	A brief synopsis of the caption	. Headline is not the s	ame as Title.
Photo Help Text	Enter a brief publishable synop	osis or summary of the	e contents of the image
User Note(s)			
Implementation Note(s)			
Field label/title	Headline		
Cardinality	01 Basic data type   free-text		
Required CV			
Spec change history			
XMP implementation			
XMP implementation XMP namespace	photoshop	XMP property id	Headline
	photoshop Text	XMP property id XMP Category	Headline External
XMP namespace			
XMP namespace XMP Value Type			
XMP namespace XMP Value Type Implementation note(s)	Text		
XMP namespace XMP Value Type Implementation note(s) IIM Mapping	Text 2:105 Headline		
XMP namespace XMP Value Type Implementation note(s) IIM Mapping IIM/XMP Mapping note(s)	Text 2:105 Headline	XMP Category	
XMP namespace XMP Value Type Implementation note(s) IIM Mapping IIM/XMP Mapping note(s)  G2 implementation	Text 2:105 Headline photoshop:Headline	XMP Category	
XMP namespace  XMP Value Type Implementation note(s) IIM Mapping IIM/XMP Mapping note(s)  G2 implementation  Property name (XPath)	Text 2:105 Headline photoshop:Headline	XMP Category	

Generic Specification			2descr
Name	Intellectual Genre		
Definition	Describes the nature, intellectu	ual, artistic or journalis	stic characteristic of a item, not
	specifically its content.		
Photo Definition	Describes the nature, intellectu	ual, artistic or journalis	stic characteristic of an image.
Photo Help Text		•	erms of its intellectual or journalistic
	characteristics, such as daybo	ok, or feature (examp	les at: http://www.newscodes.org/)
User Note(s)			Senre NewsCodes needs photo
		usable with this field (	as of the release of this standard in
	the year 2008).		
Implementation Note(s)			
Field label/title	Intellectual genre		
Cardinality	01	Basic data type	free-text
Required CV	Optional: IPTC Genre NewsCodes		
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	IntellectualGenre
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note / Examples:		
	Journalistic genres: actuality, i	nterview, background	, feature, summary, wrapup
	News category related genres:	: daybook, obituary, p	ress release, transcript



	It is advised to use terms from a controlled vocabulary.
IIM Mapping	2:04 Object Attribute Reference
IIM/XMP Mapping note(s)	Iptc4xmpCore:IntellectualGenre
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
	have to be taken from a controlled vocabulary. Codes from the controlled vocabulary		
	IPTC Subject NewsCodes mus		
Photo Definition			vords may be free text and don't have
	Subject NewsCodes must go to		m the controlled vocabulary IPTC
Photo Help Text			ed to express the subject matter in
1 Hoto Holp Toxt	the image.	, torrilo di priradoto ad	od to express the outgood matter in
User Note(s)			
Implementation Note(s)		ld 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)			
IIM Mapping	2:25 Keywords		
IIM/XMP Mapping note(s)	dc:subject		
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject/@literal		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			2descr
Name	Province or State (legacy)		
Definition	Name of the subregion of a co	untry either called p	province or state or anything else the
			n in visual media or referenced by text
			of a top-down geographical hierarchy.
Photo Definition			shown in the image. This element is at
	the second level of a top-down	geographical hierarc	hy.
Photo Help Text	Enter the name of the Province	e or State pictured in t	this image
User Note(s)			as it does not clearly indicate whether
			to was taken - which can be different.
		are available in IPTC I	Extension with Location Created and
	Location Shown in the Image.		
Implementation Note(s)			
Field label/title	Province/State		
Cardinality	01	Basic data type	string
Required CV			
Spec change history	Legacy status assigned in v 1.	1	
XMP implementation			
XMP namespace	photoshop	XMP property id	State
XMP Value Type	Text	XMP Category	External
Implementation note(s)		·	
IIM Mapping	2:95 Province/State		
IIM/XMP Mapping note(s)	photoshop:State		



G2 implementation	
Property name (XPath)	
Property-attribute(s)	
QCode scheme	
Implementation note(s)	Do not map this property but either Location Created or Location Shown in the Image of the IPTC Extension schema

Generic Specification			2descr
Name	Scene Code		
Definition	Describes the scene of a news	content. Specifies or	ne or more terms from the IPTC
	"Scene-NewsCodes". Each Sc	ene is represented as	s a string of 6 digits in an unordered
	list.		
Photo Definition			ne ore more terms from the IPTC
	"Scene-NewsCodes". Each So list.	ene is represented as	s a string of 6 digits in an unordered
Photo Help Text	Enter only values from the IPT	C 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	Iptc4xmpCore	XMP property id	Scene
XMP Value Type	bag closed choice Text	XMP Category	External
Implementation note(s)			should be used here. More about the
	IPTC Scene-NewsCodes at w	ww.newscodes.org.	
IIM Mapping			
IIM/XMP Mapping note(s)	Iptc4xmpCore:Scene		
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/genre/	@qcode	
Property-attribute(s)		·	
QCode scheme	IPTC Scene NewsCodes		
Implementation note(s)			

Generic Specification			2descr	
Name	Subject Code			
Definition	Specifies one or more Subjects from the IPTC Subject-NewsCodes taxonomy to categorise the content. Each Subject is represented as a string of 8 digits in an unordered			
	list.		3 3	
Photo Definition	categorise the image. Each Sulist.	Specifies one or more Subjects from the IPTC Subject-NewsCodes taxonomy to categorise the image. Each Subject is represented as a string of 8 digits in an unordered list.		
Photo Help Text	Enter only values from the IPT http://www.newscodes.org/)	C Subject NewsCode	Controlled Vocabulary (see:	
User Note(s)				
Implementation Note(s)				
Field label/title	IPTC Subject Code			
Cardinality	0unbounded	Basic data type	CV-code	
Required CV	IPTC Subject NewsCodes			
Spec change history				
XMP implementation				
XMP namespace	Iptc4xmpCore	XMP property id	SubjectCode	
XMP Value Type	bag closed choice Text	XMP Category	External	
Implementation note(s)			ould be used here, free text has to be	
	put into the Keyword element. More about IPTC Subject-NewsCodes at			
	www.newscodes.org.			
IIM Mapping	2:12 Subject Reference			
IIM/XMP Mapping note(s)	Iptc4xmpCore:SubjectCode			
G2 implementation				
Property name (XPath)	/newsItem/contentMeta/subject	t/@qcode		



Property-attribute(s)	
QCode scheme	IPTC Subject NewsCodes
Implementation note(s)	

Generic Specification			2descr
Name	Sublocation (legacy)		
Definition	Name of a sublocation the content is focussing on either the location shown in visual		
	media or referenced by text or audio media. This location name could either be the name		
	of a sublocation to a city or the name of a well known location or (natural) monument		
			this element is at the fourth level of a
	top-down geographical hierarc		
Photo Definition	Exact name of the sublocation	shown in the image.	This sublocation name could either be
			well known location or (natural)
			on to a city this element is at the
DI ( 11 1 T (	fourth level of a top-down geog		
Photo Help Text	Enter the name of the Subloca		
User Note(s)			as it does not clearly indicate whether
			to was taken - which can be different.
	Location Shown in the Image.	ire available in IPTC i	Extension with Location Created and
Implementation Note(s)	Location Shown in the image.		
Field label/title	Sublocation		
Cardinality	01	Basic data type	free-text
Required CV	01	Dasic data type	IIGE-IEXI
Spec change history	Legacy status assigned in v 1.	1	
	Legacy status assigned in V 1.	!	
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	Location
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
IIM Mapping	2:92 Sublocation		
IIM/XMP Mapping note(s)	Iptc4xmpCore:Location		
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Do not map this property but e the IPTC Extension schema	ither Location Created	d or Location Shown in the Image of

Generic Specification			3admin	
Name	Date Created			
Definition			llectual content was created rather	
	than the date of the creation of			
Photo Definition			tent of the image was created rather	
	than the date of the creation of		ation.	
Photo Help Text	Enter the Date the image was	taken		
User Note(s)				
Implementation Note(s)		explicit time values an	d no time is given by the Date Created	
	property the software	. t = 00:00:00	ftaa ayataa daaa aat aa ayina ay	
	explicit time value the time par		oftware system does not require an	
Field label/title	Date Created	t should be left empty	as it is.	
		Doois data tuna	DataTime (preferred) truncated	
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 enco	ouraged to provide the	e creation date and time from the EXIF	
	data of a digital camera to the			
IIM Mapping	2:55 Date Created			



IIM/XMP Mapping note(s)	photoshop:DateCreated
G2 implementation	
Property name (XPath)	/newsItem/contentMeta/contentCreated
Property-attribute(s)	
QCode scheme	
Implementation note(s)	

Generic Specification			3admin
Name	Description Writer		
Definition	Identifier or the name of the pe	erson involved in writin	ng, editing or correcting the description
	of the content.		
Photo Definition	Identifier or the name of the pe	erson involved in writir	ng, editing or correcting the description
	of the image.		
Photo Help Text		nvolved in writing, edi	ting or correcting the description of
	the image		
User Note(s)			
Implementation Note(s)			
Field label/title	Caption/Description writer		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	photoshop	XMP property id	CaptionWriter
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
IIM Mapping	2:122 Writer/Editor		
IIM/XMP Mapping note(s)	photoshop:CaptionWriter		
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 instruction	s from the provider or	creator to the receiver of the item.
Photo Definition	which might include any of the restrictions not covered by the original means of capture (sca information that the user may	e following: embargoes e "Rights Usage Terms anning notes, coloursp need for accurate repi	creator to the receiver of the image (NewsMagazines OUT) and other "field; information regarding the ace info) or other specific text roduction; additional permissions bey exceed the IIM length of the credit
Photo Help Text	Enter information about emba field	rgoes, or other restrict	ions not covered by the Rights Usage
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)			
IIM Mapping	2:40 Special Instruction		
IIM/XMP Mapping note(s)	photoshop:Instructions		
G2 implementation			
Property name (XPath)	/newsItem/itemMeta/edNote		
Property-attribute(s)			
QCode scheme		·	
Implementation note(s)			



Photo Definition  Photo Help Text User Note(s) Implementation Note(s) Field label/title	identifier related to the job for w	which the item is supp pose of improved woo which the image is sup	rkflow handling. This is a user created oplied.
Photo Definition  Photo Help Text User Note(s) Implementation Note(s) Field label/title	Number or identifier for the purple identifier related to the job for work Number or identifier for the purple identifier related to the job for work Enter a number or identifier needs.  Job Identifier	which the item is supp pose of improved woo which the image is sup	lied. rkflow handling. This is a user created oplied.
Photo Definition  Photo Help Text User Note(s)  Implementation Note(s) Field label/title	identifier related to the job for we Number or identifier for the purple identifier related to the job for we Enter a number or identifier need Job Identifier	which the item is supp pose of improved woo which the image is sup	lied. rkflow handling. This is a user created oplied.
Photo Help Text User Note(s) Implementation Note(s) Field label/title	identifier related to the job for w Enter a number or identifier need Job Identifier	which the image is sup	oplied.
User Note(s) Implementation Note(s) Field label/title	Job Identifier	eded for workflow cor	ntrol or tracking
Implementation Note(s) Field label/title			
Field label/title			-
	01		
		Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	photoshop	XMP property id	TransmissionReference
	Text	XMP Category	External
	Note: As this identifier reference by the receiver, then be transm finally added by him to this field	itted to the creator or	er's workflow it has first to be issued provider of the news object and
	2:103 Original Transmission Re		
IIM/XMP Mapping note(s)	photoshop:TransmissionRefere	ence	
G2 implementation			
_	/newsItem/itemMeta/memberO	f/@literal	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
Generic Specification			3admin
Name	Title		
	A shorthand reference for the it can be a text and/or numeric re		short human readable name which same as Headline.
	A shorthand reference for the d which can be a text and/or num		vides a short human readable name ot the same as Headline.
			he image, this may be the file name
	Many use the Title field to store in many ways. Formal identifier Entry property of the IPTC Exte	rs are provided by the	mage, though the field may be used Digital Image Id, or the Registry
Implementation Note(s)			
	Title		
	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			<u></u>
	dc	XMP property id	title
XMP Value Type	Lang Alt	XMP Category	External
	Note 1: This element aligns with		
		are agent dealing wit	value of this IPTC Core property is of h this property must abide to the by the XMP specifications.
IIM Mapping	2:05 Object Name	•	
	dc:title/*[@xml:lang='x-default']		
G2 implementation			
Property name (XPath)	/newsItem/itemMeta/title		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			
Generic Specification			4rightrel
	Copyright Notice		
Definition	Contains any necessary copyrig	ght notice for claiming	g 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	Contains any necessary copyright notice for claiming the intellectual property for this photograph and should identify the current owner of the copyright for the photograph.  Other entities like the creator of the photograph may be added in the corresponding field. Notes on usage rights should be provided in "Rights usage terms".		
Photo Help Text	Doe	., ,	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 additionally. 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.		
IIM Mapping	2:116 Copyright Notice		
IIM/XMP Mapping note(s)	dc:rights/*[@xml:lang='x-defau	ılt']	
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/copyright	Notice	
Property-attribute(s)		·	
QCode scheme			
Implementation note(s)			

Generic Specification			4rightrel
Name	Creator		
Definition	photos, a graphic artist for graphotographer should not be ideappropriate.	phics, or a writer for to entified the name of a	ontent of this item, a photographer for extual news, but in cases where the company or organisation may be
Photo Definition	Contains the name of the phot be identified the name of a cor		s where the photographer should not may be appropriate.
Photo Help Text	Enter the name of the person t		
User Note(s)	PLUS in the IPTC Extension a of the IPTC Core and the PLU	additionally. It is the us S fields in sync.	way using the "Image Creator" of ser's responsibility to keep the values
Implementation Note(s)	Synchronising this Creator pro by software.	perty with PLUS' Imag	ge Creator Name should be supported
Field label/title	Creator		
Cardinality	0unbounded	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	dc	XMP property id	creator
XMP Value Type	Seq ProperName	XMP Category	External
Implementation note(s)	despite the underlying XMP pr included. If there are more tha as the IPTC Core Creator value	operty dc:creator allow n one item in this arra	only one creator for this news object ws for more than one item to be y the first one should be considered
IIM Mapping	2:80 By-line		
IIM/XMP Mapping note(s)	dc:creator/*[1]		
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 information provides all necessary information to get in contact with the creator of this item and comprises a set of sub-properties for proper addressing.		
Photo Definition	The creator's contact informati	on provides all necess	sary information to get in contact with -properties for proper addressing.
Photo Help Text	5		
User Note(s)		C Extension fields. If the	instead of these Creator's Contact he creator is also the licensor his or censor fields.
Implementation Note(s)	The structure of Creator's Con		
Field label/title	Creator's Contact info		
Cardinality	01	Basic data type	struct
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CreatorContactInfo
XMP Value Type	struct ContactInfo	XMP Category	External
Implementation note(s)	Note 1 to user interface implementers: All sub-properties of "Creator's contact information" should be shown as group on the form.  Note 2: the CreatorContactInfo sub-properties' naming aligns with the vCard specification RFC 2426.		
IIM Mapping	0 = .=0.		
IIM/XMP Mapping note(s)	Iptc4xmpCore:CreatorContact	Info	
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/creato	r/personDetails	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			4rightrel
Name	Creator's jobtitle		
Definition			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 usin	
Photo Help Text	Enter the Job Title of the person	on listed in the Creato	r field
User Note(s)			
Implementation Note(s)			
Field label/title	Creator's Jobtitle	_	
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	photoshop	XMP property id	AuthorsPosition
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
IIM Mapping	2:85 By-line Title		
IIM/XMP Mapping note(s)	photoshop:AuthorsPosition		
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/creato	r/facet	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification	4rightrel
Name	Credit Line
Definition	The credit to person(s) and/or organisation(s) required by the supplier of the item to be
	used when published. This is a free-text field.



Photo Definition			ed by the supplier of the image to be	
	used when published. This is a free-text field.			
Photo Help Text	Enter who should be Credited when this image is published			
User Note(s)	Note 1: For more formal identifications of the creator or the owner of the copyrights of this			
		image other rights properties may be used.		
			I metadata, then it was renamed to	
			to "Credit Line" in IPTC Core 1.1. as	
	this was actually the way the fi	eld has been used.		
Implementation Note(s)				
Field label/title	Credit Line			
Cardinality	01	Basic data type	free-text	
Required CV				
Spec change history	Renamed from Provider in v 1.1			
Spec change history	Renamed nomin novider in vin	. !		
XMP implementation	Nenamed Hom Flovider III v 1	• !		
	photoshop	XMP property id	Credit	
XMP implementation			Credit External	
XMP implementation XMP namespace	photoshop	XMP property id		
XMP implementation  XMP namespace  XMP Value Type	photoshop	XMP property id		
XMP implementation  XMP namespace  XMP Value Type  Implementation note(s)	photoshop Text	XMP property id		
XMP implementation  XMP namespace  XMP Value Type  Implementation note(s)  IIM Mapping	photoshop Text 2:110 Credit	XMP property id		
XMP implementation  XMP namespace  XMP Value Type  Implementation note(s)  IIM Mapping  IIM/XMP Mapping note(s)  G2 implementation  Property name (XPath)	photoshop Text 2:110 Credit	XMP property id  XMP Category		
XMP implementation  XMP namespace  XMP Value Type  Implementation note(s)  IIM Mapping  IIM/XMP Mapping note(s)  G2 implementation  Property name (XPath)  Property-attribute(s)	photoshop Text  2:110 Credit photoshop:Credit	XMP property id  XMP Category		
XMP implementation  XMP namespace  XMP Value Type  Implementation note(s)  IIM Mapping  IIM/XMP Mapping note(s)  G2 implementation  Property name (XPath)	photoshop Text  2:110 Credit photoshop:Credit	XMP property id  XMP Category		

Generic Specification			4rightrel
Name	Rights Usage Terms		
Definition	The licensing parameters of th	e item expressed in fi	ee-text.
Photo Definition	The licensing parameters of th		
Photo Help Text	Enter instructions on how this		
User Note(s)	The PLUS fields of the IPTC E	xtension can be used	in parallel to express the licensed
	usage in more controlled terms	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)			
IIM Mapping			
IIM/XMP Mapping note(s)	xmpRights:UsageTerms		
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/usageTer	ms	
Property-attribute(s)		·	
QCode scheme		·	
Implementation note(s)		·	

Generic Specification	4rightrel
Name	Source
Definition	Identifies the original owner of the copyright for the intellectual content of the item. This could be an agency, a member of an agency or an individual. Source could be different from Creator and from the entities in the CopyrightNotice.
Photo Definition	Identifies the original owner of the copyright for the intellectual content of the image. This could be an agency, a member of an agency or an individual. Source could be different from Creator and from the entities in the CopyrightNotice.
Photo Help Text	Enter the original owner of the copyright of this image
User Note(s)	This field may be used primarily in syndication workflows.
Implementation Note(s)	
Field label/title	Source
Cardinality	01 Basic data type   free-text
Required CV	



Spec change history			
XMP implementation			
XMP namespace	photoshop	XMP property id	Source
XMP Value Type	Text	XMP Category	External
Implementation note(s)	As the original owner can not change the content of this property should never be changed or deleted after the information is entered following the news object's initial creation.		
IIM Mapping	2:115 Source		
IIM/XMP Mapping note(s)	photoshop:Source		
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/copyright	Holder	
Property-attribute(s)			
QCode scheme		·	·
Implementation note(s)			

Generic Specification			9type-ContInfo	
•	**			
Name		Contact Information Details structure		
Definition	A generic structure providing a	a basic set of informat	ion to get in contact with a person or	
	organisation.			
Photo Definition	A generic structure providing a organisation.	a basic set of informat	ion to get in contact with a person or	
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 September.	son information sche	me discussed - decision on 9	
IIM Mapping	2:118 Contact			
IIM/XMP Mapping note(s)	NONE			
G2 implementation				
Property name (XPath)				
Property-attribute(s)				
QCode scheme				
Implementation note(s)	Maps to the "contactInfo" comi	mon component		

Generic Specification			9type-ContInfo
Name	Address (contact info de	etail}	
Definition	The contact information address part. Comprises an optional company name and all required information to locate the building or postbox to which mail should be sent. To that end, the address is a multiline field.		
Photo Definition		he building or postbo	n optional company name and all x to which mail should be sent. To that
Photo Help Text	Enter Address for the person t	hat created this image	e
User Note(s)			
Implementation Note(s)			
Field label/title	(Contact Info detail:) Address		
Cardinality	0unbounded	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiAdrExtadr
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1: to user interface imple group on the form.	menters: This field sh	ould be part of a "Contact information"



	Note 2: the ContactInfo naming aligns with the vCard specification RFC 2426.
IIM Mapping	
IIM/XMP Mapping note(s)	The referenced resource's Iptc4xmpCore:CiAdrExtadr
G2 implementation	
Property name (XPath)	/contactInfo/address/line
Property-attribute(s)	
QCode scheme	
Implementation note(s)	

One win One office time			0, 0, 1, 1
Generic Specification	9type-ContInfo		
Name	City {contact info detail}		
Definition	The contact information city pa	art.	
Photo Definition	The contact information city pa	art.	
Photo Help Text	Enter the City for the address	of the person that crea	ated this image
User Note(s)			
Implementation Note(s)			
Field label/title	(Contact Info detail:) City		
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiAdrCity
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1: to user interface implementers: This field should be part of a "Contact information" group on the form.		
	Note 2: the ContactInfo naming	g aligns with the vCar	d specification RFC 2426.
IIM Mapping			
IIM/XMP Mapping note(s)	The referenced resource's lpto	:4xmpCore:CiAdrCity	
G2 implementation			
Property name (XPath)	/contactInfo/address/locality/name		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			9type-ContInfo
Name	Country {contact info detail}		
Definition	The contact information countr	y part.	
Photo Definition	The contact information countr	y part.	
Photo Help Text	Enter the Country name for the	e address of the perso	on 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	Text	XMP Category	External
Implementation note(s)	Note 1: to user interface implementers: This field should be part of a "Contact information" group on the form.  Note 2: the ContactInfo naming aligns with the vCard specification RFC 2426.		
IIM Mapping	140te 2: the contactino naming	g angris with the voar	a specification (1) 0 2420.
IIM/XMP Mapping note(s)	The referenced resource's Iptc4xmpCore:CiAdrCtry		
G2 implementation			
Property name (XPath)	/contactInfo/address/country/name		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification	9type-ContInfo



Name	Email address(es) {conta	act info detail}	
Definition	The contact information email address part.		
Photo Definition	The contact information email		
Photo Help Text	Enter the work Email address(	es) for the person tha	t created this image, such as
	name@domain.com		
User Note(s)		oe given. May have to	be separated by a comma in the user
	interface.		
Implementation Note(s)			
Field label/title	(Contact Info detail:) Email(s)	T	
Cardinality	0unbounded	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiEmailWork
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1 to user interface implementers: This field should be part of a "Contact information" group on the form.  Note 2 to user interface implementers: provide sufficient space to fill in multiple e-mail addresses.  Note 3: the ContactInfo naming aligns with the vCard specification RFC 2426.		
IIM Mapping	,	<u> </u>	•
IIM/XMP Mapping note(s)	The referenced resource's Iptc4xmpCore:CiEmailWork		
G2 implementation			
Property name (XPath)	/contactInfo/email		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			9type-ContInfo
Name	Phone number(s) {conta	ct info detail}	
Definition	The contact information phone	number part.	
Photo Definition	The contact information phone	number part.	
Photo Help Text	Enter the work Phone number	(s) for the person that	created this image, using the
	international format, such as +		-
User Note(s)	Multiple numbers can be giver interface.	n. May have to be sep	arated by a comma in the user
Implementation Note(s)			
Field label/title	(Contact Info detail:) Phone(s)		
Cardinality	0unbounded	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiTelWork
XMP Value Type	Text	XMP Category	
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 impler	nenters: provide suffic	cient space to fill in multiple
	international numbers.		
	Note 3: the ContactInfo naming	g aligns with the vCar	d specification RFC 2426
IIM Mapping	11000 0. tro Contactino namin	g angrio with the voar	a openioation (1 o 2 120.
IIM/XMP Mapping note(s)	The referenced resource's lpto	:4xmpCore:CiTelWork	(
G2 implementation			
Property name (XPath)	/contactInfo/phone		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification	9type-ContInfo
Name	Postal Code {contact info detail}
Definition	The contact information part denoting the local postal code.
Photo Definition	The contact information part denoting the local postal code.



Photo Help Text	Enter the Postal Code for the address of the person that created this image		
User Note(s)			
Implementation Note(s)			
Field label/title	(Contact Info detail:) Postal Co	ode	
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiAdrPcode
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1: to user interface implementers: This field should be part of a "Contact information" group on the form.  Note 2: the ContactInfo naming aligns with the vCard specification RFC 2426.		
IIM Mapping		gg	
IIM/XMP Mapping note(s)	The referenced resource's lptc4xmpCore:CiAdrPcode		
G2 implementation			
Property name (XPath)	/contactInfo/address/postalCode		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			9type-ContInfo
Name	State/Provnice {contact info detail}		
Definition	The contact information part de	enoting regional inforr	nation like state or province.
Photo Definition	The contact information part de		
Photo Help Text	Enter the State for the address	s of the person that cr	eated this image
User Note(s)			
Implementation Note(s)			
Field label/title	(Contact Info detail:) State/Pro	vince	
Cardinality	01	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiAdrRegion
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1: to user interface implementers: This field should be part of a "Contact information" group on the form.  Note 2: the ContactInfo naming aligns with the vCard specification RFC 2426.		
IIM Mapping	Note 2. the Contactinio naming	g aligiis with the voai	d specification (1 C 2420.
IIM/XMP Mapping note(s)	The referenced resource's lptc4xmpCore:CiAdrRegion		
G2 implementation			
Property name (XPath)	/contactInfo/address/area		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification	9type-ContInfo
Name	Web URL(s) {contact info detail}
Definition	The contact information web address part. Multiple addresses can be given, separated by a comma.
Photo Definition	The contact information web address part. Multiple addresses can be given. May have to be separated by a comma in the user interface.
Photo Help Text	Enter the work Web URL(s) for the person that created this image, such as http://www.domain.com/
User Note(s)	
Implementation Note(s)	
Field label/title	(Contact Info detail:) Web URL(s)
Cardinality	0unbounded Basic data type URL
Required CV	
Spec change history	



XMP implementation			
XMP namespace	Iptc4xmpCore	XMP property id	CiUrlWork
XMP Value Type	Text	XMP Category	External
Implementation note(s)	Note 1 to user interface 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 URLs.  Note 3: the ContactInfo naming aligns with the vCard specification RFC 2426.		
IIM Mapping	,		
IIM/XMP Mapping note(s)	The referenced resource's lpto	4xmpCore:CiUrlWork	
G2 implementation			
Property name (XPath)	/contactInfo/web		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

#### "Deprecated" metadata elements

Not all of the IIM datasets adopted by Adobe to be used for the Photoshop File Infos have been adopted for the IPTC Core schema – in terms of mapping and transferring metadata from the legacy IIM-based headers they have to be considered as deprecated:

- **Urgency**: As this metadata element pertains to distribution management it was not adopted. But it 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. But it is still synchronised with the XMP property "photoshop:Category" and hence available for future use but outside the IPTC Core.
- **Supplemental Categories**: As this metadata element was earmarked as deprecated already for IIM 4.1 it was not adopted. But it is still synchronised with the XMP property "photoshop:SupplementalCategory" 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 IF	PTC headers>	XMP
Photoshop name	IIM name	Mapping (XPath expression)
Title	2:05 Object Name	dc:title/*[@xml:lang='x-default']
Urgency	2:10 Urgency	photoshop:Urgency
Category	2:15 Category	photoshop:Category
Supplemental Categories	2:20 Supplemental Category	photoshop:SupplementalCategory
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/*[1]
AuthorsPosition	2:85 By-line Title	photoshop:AuthorsPosition
City	2:90 City	photoshop:City
State/Province	2:95 Province/State	photoshop:State
Country	2:101 Country/Primary Location Name	photoshop:Country
Transmission Reference	2:103 Original Transmission Reference	photoshop:TransmissionReference
Headline	2:105 Headline	photoshop:Headline
Credit	2:110 Credit	photoshop:Credit
Source	2:115 Source	photoshop:Source
Copyright Notice	2:116 Copyright Notice	dc:rights/*[@xml:lang='x-default']
		dc:description/*[@xml:lang='x-
Description	2:120 Caption/Abstract	default']
Description Writer	2:122 Writer/Editor	photoshop:CaptionWriter

As of September 2004.



# **IPTC Extension schema 1.1 specifications**

#### **Names and Identifiers**

The **XML namespace URI** for the "IPTC Extension" version 1.0 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.

#### **Metadata Properties**

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

Generic Specification				2descr
Name	Artwork or Object in the Image			
Definition	A set of metadata about artwo	rk or an object in the i	tem	
Photo Definition	A set of metadata about artwo	rk or an object in the i	mage	
Photo Help Text	Enter details about artwork or	objects shown in this	image	
User Note(s)				
Implementation Note(s)				
Field label/title	Artwork or object in the image			
Cardinality	0unbounded	Basic data type	structure	
Required CV				
Spec change history				
XMP implementation				
XMP namespace	Iptc4xmpExt	XMP property id	ArtworkOrObject	
XMP Value Type	bag ArtworkOrObjectDetails	XMP Category	External	
Implementation note(s)	-			
IIM Mapping				
IIM/XMP Mapping note(s)				
G2 implementation				

IPTC-PhotoMetadata(200907)\_1.docx



Property name (XPath)	
Property-attribute(s)	
QCode scheme	
Implementation note(s)	Mapping rules are pending.

Generic Specification			2descr
•	0.1	-4 12-41 - 1	
Name	Code of Organisation Fe		
Definition		lary for identifying the	e organisation or company which is
	featured in the content.		
Photo Definition	Code from a controlled vocabu	lary for identifying the	e organisation or company which is
	featured in the image.		
Photo Help Text	Enter an identifier for the control	olled vocabulary, ther	a colon, and finally the code from the
·			is image (e.g. nasdaq:companyA)
User Note(s)	For example a stock ticker sym	bol may be used.	
Implementation Note(s)			
Field label/title	Code of featured Organisation		
Cardinality	0unbounded	Basic data type	CV-code
Required CV	Open to any CV		
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	OrganisationInImageCode
XMP Value Type	bag Text	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation	_		
Property name (XPath)	/newsItem/contentMeta/subject	t/@qcode	
Property-attribute(s)	@type="cpnat:organisation"		
QCode scheme		•	
Implementation note(s)			

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

Generic Specification	2descr
Name	Location Shown in the Image
Definition	A location the content of the item is about. For photos that is a location shown in the
	image.
Photo Definition	A location shown in the image



Photo Help Text	Enter the details about a location which is shown in this image			
User Note(s)	If the location the image was taken is different from 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	lptc4xmpExt	XMP property id	LocationShown	
XMP Value Type	bag LocationDetails XMP Category External			
Implementation note(s)				
IIM Mapping				
IIM/XMP Mapping note(s)				
G2 implementation				
Property name (XPath)	/newsItem/contentMeta/subjec	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 w	as taken in a model released image.	
Photo Definition			as taken in a model released image.	
Photo Help Text	Enter the age of the human m			
User Note(s)			of providing ages for young models.	
	Ages below 18 years should n	ot be included.		
Implementation Note(s)				
Field label/title	Model age			
Cardinality	0unbounded	Basic data type	numeric	
Required CV				
Spec change history				
XMP implementation				
XMP namespace	lptc4xmpExt	XMP property id	ModelAge	
XMP Value Type	bag Integer	XMP Category	External	
Implementation note(s)				
IIM Mapping				
IIM/XMP 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	
Name	Name of Organisation Featured in the Image			
Definition	Name of the organisation or co	ompany which is featu	red in the content.	
Photo Definition	Name of the organisation or co	ompany which is featu	red 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.	May be supplemented by values from a controlled vocabulary in the Organisation Code field.		
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	lptc4xmpExt	XMP property id	OrganisationInImageName	
XMP Value Type	bag Text	XMP Category	External	
Implementation note(s)				
IIM Mapping				
IIM/XMP Mapping note(s)				



G2 implementation	
Property name (XPath)	/newsItem/contentMeta/subject/name
Property-attribute(s)	@type="cpnat:organisation"
QCode scheme	
Implementation note(s)	

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

Generic Specification	3admin		
Name	Digital Image GUID		
Definition	Globally unique identifier for the item. It is created and applied by the creator of the item at the time of its creation. This value shall not be changed after that time.		
Photo Definition	Globally unique identifier for this digital image. It is created and applied by the creator of the digital image at the time of its creation. This value shall not be changed after that time.		
Photo Help Text	If an ID already exists, don't change - otherwise enter a globally unique identifier for this digital image		
User Note(s)	The identifier will probably be generated by the technical means of an imaging device or software and should be applied to the digital image file as early as possible in its life cycle. This identifier does not identify any pictured content, particularly in case of a scan of non-digital images, only this digital representation.		
Implementation Note(s)	Any algorithm to create this identifier has to comply with the technical requirements to create a globally unique id. Any device creating digital images - e.g. still image cameras, video cameras, scanners - should create such an identifier 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 to identify the device by which the data were created.  IPTC's basic requirements for unique ids are: It must be globally unique. Algorithms for this purpose exist. It should identify the camera body.  It should identify each individual photo from this camera body. It should identify the date and time of the creation of the picture. It should be secured against tampering.  This field should be implemented in a way to prove it has not been changed since its value has been applied.  If the identifier has been created by the imaging device its type and brand can be found in the Exif/technical metadata.		
Field label/title	Digital Image Identifier		
Cardinality	01 Basic data type string		
Required CV			
Spec change history			
XMP implementation			



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XMP namespace	Iptc4xmpExt	XMP property id	DigImageGUID
XMP Value Type	text	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/altId		
Property-attribute(s)	@type="altidtype:imageGUID"		
QCode scheme			
Implementation note(s)	_	·	•

Generic Specification			3admin
Name	Digital Source File Type	(DEPRECATED)	
Definition	The type of the source digital f	ile.	
Photo Definition	The type of the source digital f	ile.	
Photo Help Text	-		
User Note(s)			
Implementation Note(s)	The IPTC recommends not to	implement this proper	ty any longer.
Field label/title	Physical type of original photo		
Cardinality	01	Basic data type	CV-code
Required CV	Values are: Scan from film {scanfilm}, scan from transparency (including slide) {scantransparancy}, scan from print {scanprint}, camera raw {cameraraw}, camera tiff {cameratiff}, camera jpeg {camerajpeg}		
Spec change history	Deprecated in v 1.1	, <u>v</u>	
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	DigitalSourcefileType
XMP Value Type	URI	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/Iptc4x	mpExt:digSourceFileT	yp/@qcode
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			3admin
Name	Digital Source Type		- Cadmin
Definition	The type of the source of this of	digital image	
Photo Definition	The type of the source of this of		
Photo Help Text			the digital image from the controlled
User Note(s)			
Implementation Note(s)			
Field label/title	Type of source for this photo		
Cardinality	01	Basic data type	CV-code
Required CV	Digital Source Type NewsCode	es - http://cv.iptc.org/r	newscodes/digitalsourcetype/
Spec change history	Added in v 1.1		-
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	DigitalSourceType
XMP Value Type	URI	XMP Category	-
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/Iptc4xi	mpExt:digSourceType	e/@qcode
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification	3admin



Name	Event		
Definition	Names or describes the specific event the content relates to.		
Photo Definition	Names or describes the speci-	fic event at which the	ohoto was taken.
Photo Help Text	Enter the name or description	of the event where thi	s image was taken
User Note(s)			nony, etc. If this is a sub-event of a
			XXXIX Olympic Summer Games
	(Beijing): opening ceremony. l	Jnplanned events cou	ld be named by this property too.
Implementation Note(s)			
Field label/title	Event		
Cardinality	01	Basic data type	free-text
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	Event
XMP Value Type	Lang Alt	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject	~t/	
rioperty name (Ar am)	/newsitem/contentivieta/subjec	J (	
Property-attribute(s)	@type="cpnat:event"		
		50	

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

Generic Specification	3admin
Name	Image Supplier
Definition	Identifies the most recent supplier 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)	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 pro	perty included in the	IPTC Extension schema.
Field label/title	Image Supplier		
Cardinality	01	Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	ImageSupplier
XMP Value Type	Seq ImageSupplierDetail	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/ExtPoint		
Property-attribute(s)			
QCode scheme		·	·
Implementation note(s)			

Generic Specification			3admin
Name	IPTC Metadata Last Edited (Legacy)		
Definition	The date and optionally time when any of the IPTC photo metadata fields has been last edited		
Photo Definition	The date and optionally time wedited.	hen any of the IPTC p	photo metadata fields has been last
Photo Help Text	-		
User Note(s)	still be used by a private user i	interface for a use sco mestamp of the latest	change applied to any of the fields.
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.		
Field label/title	IPTC Fields Last Edited		
Cardinality	01	Basic data type	DateTime
Required CV			
Spec change history	Legacy status assigned in v 1.	1	
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	IptcLastEdited
XMP Value Type	Date	XMP Category	External/Internal
Implementation note(s)	The value of this property can either be entered by the user or be set by a metadata editing software		
IIM Mapping			
IIM/XMP 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 taken.		
Photo Help Text	Enter the details about a location where this image was created		
User Note(s)	If the location in the image is different from the location the photo was taken the IPTC Extension property Location Shown in the Image should 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	lptc4xmpExt	XMP property id	LocationCreated



XMP Value Type	Bag LocationDetails	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contenteMeta/locat	ted/POIdetails/contactl	Info/address/(locality,area,country)
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

One aris One aification			0.1.
Generic Specification			3admin
Name	Max Avail Height		
Definition	The maximum available height	in pixels of the origination	al photo from which this photo has
	been derived by downsizing.		
Photo Definition		in pixels of the origination	al photo from which this photo has
	been derived by downsizing.		
Photo Help Text			original photo from which this photo
	has been derived by downsizir	ng	
User Note(s)			
Implementation Note(s)			
Field label/title	Maximum available height		
Cardinality	01	Basic data type	integer
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	MaxAvailHeight
XMP Value Type	Integer	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentSet[rendition='rnd:highRes']/height		
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Only mapping out of G2!		

Generic Specification			3admin
Name	Max Avail Width		
Definition		in pixels of the origina	al photo from which this photo has
	been derived by downsizing.	1 3	·
Photo Definition	The maximum available width in pixels of the original photo from which this photo has been derived by downsizing.		
Photo Help Text	Enter the maximum available width in pixels of the original photo from which this photo has been derived by downsizing		
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)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentSet[rendition='rnd:highRes']/width		
Property-attribute(s)		·	
QCode scheme			
Implementation note(s)	Only mapping out of G2!	-	



Generic Specification			3admin
Name	PLUS Version		
Definition	The version number of the PLI	JS standards in place	at the time of the transaction.
Photo Definition	The version number of the PLI	JS standards in place	at the time of the transaction.
Photo Help Text	-		
User Note(s)	In the event of a misunderstanding between the parties, PLUS Version provides a		
	reference to the version of the	PLUS standards that	was in place at the time of the
	transaction. PLUS standards a		
Implementation Note(s)			schema from PLUS version 1.2 as all
		ect this the value of "F	PLUS Version" should be set to the
	string "1.2.0"		
Field label/title	PLUS Version		
Cardinality	01	Basic data type	
Required CV			
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	Version
XMP Value Type	Text	XMP Category	Internal
Implementation note(s)			
IIM Mapping			
IIM/XMP 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 copyright in the licensed image.		
Photo Definition	Owner or owners of the copyright in the licensed image.		
Photo Help Text	Enter the owner or owners of the copyright in the licensed image		
User Note(s)	Serves to identify the rights holder/s for the image. The Copyright Owner, Image Creator and Licensor may be the same or different entities.		
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the	IPTC Extension schema.
Field label/title	Copyright owner		
Cardinality	03	Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	CopyrightOwner
XMP Value Type	Seq CopyrightOwnerDetail	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/Copyright	tHolder/@qcode + /na	ime
Property-attribute(s)			
QCode scheme			
Implementation note(s)			·

Generic Specification	4rightrel
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 creators of this image
User Note(s)	The creator can be expressed in free-text using the IPTC Core Creator field additionally. In many countries, the Image Creator must be attributed in association with any use of the image. The Image Creator, Copyright Owner, Image Supplier and Licensor may be the same or different entities.
Implementation Note(s)	This is a PLUS version 1.2 property included in the IPTC 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)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/creat	or/@qcode + /name	
Property-attribute(s)			
QCode scheme			
Implementation note(s)			·

Onnania Onnaitiantian			Ant minute in
Generic Specification			4rightrel
Name	Licensor		
Definition	A person or company that sho who has licensed the item.	uld be contacted to ob	otain a licence for using the item or
Photo Definition	A person or company that sho who has licensed the item.	uld be contacted to ob	otain a licence for using the item or
Photo Help Text	Enter the person or company to image	that should be contact	ted for obtaining a license for this
User Note(s)			
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the	IPTC Extension schema.
Field label/title	Licensor		
Cardinality	03	Basic data type	struct
Required CV			
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	Licensor
XMP Value Type	bag LicensorDetail	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/ExtPoint		
Property-attribute(s)		·	
QCode scheme			
Implementation note(s)			

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



Property name (XPath)	/newsItem/rightsInfo/ExtPoint
Property-attribute(s)	
QCode scheme	
Implementation note(s)	

Generic Specification				4rightrel
Name	Model Release Id			
Definition	A PLUS-ID identifying each Me	odel Release.		
Photo Definition	A PLUS-ID identifying each Me			
Photo Help Text	Enter the PLUS-Identifier for e	ach Model Release		
User Note(s)				
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the I	PTC Extension schema.	
Field label/title	Model Release Id			
Cardinality	0unbounded	Basic data type	Identifier	
Required CV				
Spec change history				
XMP implementation				
XMP namespace	plus	XMP property id	ModelReleaseID	
XMP Value Type	Bag Text	XMP Category	External	
Implementation note(s)				
IIM Mapping				
IIM/XMP Mapping note(s)				
G2 implementation				
Property name (XPath)	/newsItem/rightsInfo/ExtPoint			
Property-attribute(s)				
QCode scheme		-		
Implementation note(s)		<u> </u>	<u> </u>	

Generic Specification			4rightrel
Name	Model Release Status		
Definition	Summarizes the availability an	d scope of model rele	ases authorizing usage of the
	likenesses of persons appearing	ng in the photograph.	
Photo Definition	Summarises the availability an	d scope of model rele	ases authorising usage of the
	likenesses of persons appearing	ng in the photograph.	
Photo Help Text	Select one of the values for su	mmarising the availab	oility and scope of model releases
	authorising usage of the likene		
User Note(s)			ue Unlimited Model Releases (MR-
		eck the wording of the	model release thoroughly before
	applying it.		
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the I	PTC Extension schema.
Field label/title	Model Release Status		
Cardinality	01	Basic data type	CV-code
Required CV	CV defined by PLUS		
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	ModelReleaseStatus
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP 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	A PLUS-ID identifying each Property Release.	
Photo Definition	A PLUS-ID identifying each Property Release.	
Photo Help Text	Enter the PLUS-Identifier for each Property Release	
User Note(s)		



Implementation Note(s)	This is a PLUS version 1.2 property included in the IPTC Extension schema.		
Field label/title	Property Release Id		
Cardinality	0unbounded	Basic data type	Identifier
Required CV			
Spec change history			
XMP implementation			
XMP namespace	plus	XMP property id	PropertyReleaseID
XMP Value Type	Bag Text	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/ExtPoint		
Property-attribute(s)			
QCode scheme			
Implementation note(s)		·	•

Generic Specification			4rightrel
Name	<b>Property Release Status</b>		
Definition	Summarizes the availability an	d scope of property re	eleases authorizing usage of the
	properties appearing in the pho-	otograph.	
Photo Definition			eleases authorising usage of the
	properties appearing in the pho		
Photo Help Text			pility and scope of property releases
	authorising usage of the prope		
User Note(s)			carefully and to check the wording of
	the property release thoroughly		
Implementation Note(s)	This is a PLUS version 1.2 pro	perty included in the I	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			
XMP implementation			
XMP namespace	plus	XMP property id	PropertyReleaseStatus
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/rightsInfo/ExtPoint		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			9type-artobj	
Name	Artwork or Object in the	Artwork or Object in the Image Details {data type}		
Definition	A structured datatype for deta	ils about artwork or an	object in an image	
Photo Definition	A structured datatype for deta	ils about artwork or an	object in an image	
Photo Help Text	-			
User Note(s)				
Implementation Note(s)				
Field label/title	N/A			
Cardinality		Basic data type	structure	
Required CV				
Spec change history				
XMP implementation				
XMP namespace	lptc4xmpExt	XMP property id	ArtworkOrObjectDetails	
XMP Value Type	structure	XMP Category	External	
Implementation note(s)				
IIM Mapping		·		
IIM/XMP 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 copyr	ight notice for claimin	g the intellectual property for artwork	
	or an object in the image and	should identify the cur	rent owner of the copyright of this	
		work with associated intellectual property rights.		
Photo Definition			g the intellectual property for artwork	
			rent owner of the copyright of this	
	work with associated intellectu	al property rights.		
Photo Help Text	Enter any necessary copyright	notice for claiming th	e intellectual property for artwork or	
User Note(s)	an object in this image			
Implementation Note(s)				
Field label/title	(Artwork or Object detail:) Cop	vright notice		
Cardinality	01	Basic data type	free-text	
Required CV	01	basic data type	nee-text	
Spec change history				
XMP implementation				
XMP namespace	Iptc4xmpExt	XMP property id	AOCopyrightNotice	
XMP Value Type	Text	XMP Category	External	
Implementation note(s)				
IIM Mapping				
IIM/XMP Mapping note(s)				
G2 implementation				
Property name (XPath)				
Property-attribute(s)				
QCode scheme				
Implementation note(s)	Mapping rules are pending.			

Generic Specification			9type-artobj
Name	Creator (Artwork or Obj	ect detail}	
Definition	Contains the name of the artis	t who has created arty	work or an object in the image.
Photo Definition			work or an object in the image. In
	cases where the artist could o		ied the name of a company or
	organisation may be appropria		
Photo Help Text	Enter the name of the artist when	no has created artwork	k or an object in this image
User Note(s)			
Implementation Note(s)			
Field label/title	(Artwork or Object detail:) Cre	ator	
Cardinality	0unbounded	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	AOCreator
XMP Value Type	Seq ProperName	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP 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 or Object detail)



Designates the date and optionally the time the artwork or object in the image was			
created. This relates to artwork or objects with associated intellectual property rights.			
nter the date and optionally the	he time when the artw	ork or object in this image was	
eated			
rtwork or Object detail:) Date	e created		
.1		DateTime (preferred: truncated	
	71	DateTime)	
		,	
tc4xmpExt	XMP property id	AODateCreated	
ate	XMP Category	External	
	<u> </u>		
e	eated. This relates to artwork ter the date and optionally the eated  rtwork or Object detail:) Date  1	twork or Object detail:) Date created  Basic data type  C4xmpExt  XMP property id	

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

Generic Specification	9type-artobj		
Name	Source Inventory Number {Artwork or Object detail}		
Definition	The inventory number issued by the organisation or body holding and registering the artwork or object in the image.		
Photo Definition	The inventory number issued by the organisation or body holding and registering the artwork or object in the image.		
Photo Help Text	Enter the inventory number issued by the organisation or body holding and registering the artwork or object in this image		
User Note(s)	, and the second		
Implementation Note(s)			
Field label/title	(Artwork or Object detail:) Source inventory number		
Cardinality	01	Basic data type string	



Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	AOSourceInvNo
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Mapping rules are pending.		

Generic Specification			9type-artobj
Name	Title {Artwork or Object	detail}	
Definition	A reference for the artwork or	object in the image.	
Photo Definition	A reference for the artwork or	object in the image.	
Photo Help Text	Enter the verbal and human re	eadable name of the a	rtwork 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)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)			
Property-attribute(s)			
QCode scheme			
Implementation note(s)	Mapping rules are pending.		•

Generic Specification			9type-location
Name	City {location detail}		
Definition	Name of the city of a location.	This element is at the	fourth level of a top-down
	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	1	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	City
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP 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	



Generic Specification			9type-location
Name	Country ISO-Code {local	tion detail}	
Definition	The ISO code of a country of a	a location. This elemen	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	Country
User Note(s)			
Implementation Note(s)			
Field label/title	(Location detail:) Country ISO-		
Cardinality	1 Basic data type CV-code		
Required CV	ISO 3166-1 - 2 or 3 characters (see Definition)		
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	CountryCode
XMP Value Type	bag closed choice	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 provided.	ne two or three letter s	cheme as no explicit indication can be
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject/@qcode		
Property-attribute(s)	@type="cpnat:geoArea"+@facet="fct:country"		
QCode scheme			
Implementation note(s)	Mapping for Location Shown in	n the Image only	

Generic Specification			9type-location	
Name	<b>Country Name (location</b>	detail}		
Definition		cation. This element is	at the second level of a top-down	
	geographical hierarchy.			
Photo Definition		cation. This element is	at the second level of a top-down	
	geographical hierarchy.			
Photo Help Text	Enter the name of the Country	1		
User Note(s)				
Implementation Note(s)				
Field label/title	(Location detail:) Country Nam	ne		
Cardinality	1	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)				
IIM Mapping				
IIM/XMP Mapping note(s)				
G2 implementation				
Property name (XPath)	/newsItem/contentMeta/subject/name			
Property-attribute(s)	@type="cpnat:geoArea"+@fac	@type="cpnat:geoArea"+@facet="fct:country"		
QCode scheme				
Implementation note(s)	Mapping for Location Shown in	n the Image only		

Generic Specification	9type-location
Name	Location Details {data type}
Definition	A structured datatype for details of a location
Photo Definition	A structured datatype for details of a location
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 proper	ty id	LocationDetails
XMP Value Type	Text	XMP Cate	gory	External
Implementation note(s)				
IIM Mapping				
IIM/XMP Mapping note(s)				
G2 implementation				
Property name (XPath)				
Property-attribute(s)				
QCode scheme				
Implementation note(s)				

Generic Specification			9type-location
Name	Province or State {location detail}		
Definition	The name of a subregion of a	country - a province o	or state - of a location. This element is
	at the third level of a top-down geographical hierarchy.		
Photo Definition	The name of a subregion of a country - a province or state - of a location. This element is		
	at the third level of a top-down	geographical hierarcl	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	1	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	ProvinceState
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject/		
Property-attribute(s)	@type="cpnat:geoArea"+@facet="fct:provState"		
QCode scheme			
Implementation note(s)	Mapping for Location Shown in the Image only		

Generic Specification			9type-location
Name	Sublocation {location de	etail}	
Definition	Name of a sublocation. This su	ublocation name could	d either be the name of a sublocation
	to a city or the name of a well	known location or (na	tural) monument outside a city. In the
			e fifth level of a top-down geographical
	hierarchy.		
Photo Definition	Name of a sublocation. This su	ublocation name could	d either be the name of a sublocation
	to a city or the name of a well	known location or (na	tural) monument outside a city. In the
	sense of a sublocation to a city	this element is at the	e fifth level of a top-down geographical
	hierarchy.		
Photo Help Text	Enter the name of the Subloca	tion	
User Note(s)			
Implementation Note(s)			
Field label/title	(Location detail:) Sublocation		
Cardinality	1	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	Sublocation
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
IIM Mapping		·	
IIM/XMP Mapping note(s)			



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

Generic Specification			9type-location
Name	World Region {location detail}		
Definition	The name of a world region of	a location. This eleme	ent is at the first (topl) level of a top-
	down geographical hierarchy.		
Photo Definition	The name of a world region of a location. This element 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 Region	າ	
Cardinality	1	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)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/subject	:t/	
Property-attribute(s)	@type="cpnat:geoArea"+@facet="fct:worldReg"		
QCode scheme			
Implementation note(s)		-	

Generic Specification			9type-registryid
Name	Item Id {registry entry detail}		
Definition	A unique identifier created by a registry and applied by the creator of the item. This value		
	shall not be changed after beir	ng applied. This identi	fier is linked to a corresponding
	Registry Organisation Identifie		
Photo Definition			by the creator of the digital image.
	This value shall not be change corresponding Registry Organ	ed aπer being applied.	inis identifier is linked to a
Photo Help Text			applied by the creator of the digital
1 Hoto Holp Toxt	image. This value shall not be		
User Note(s)			must be unique for the issuing
	registry.		· · · · · · · · · · · · · · · · · · ·
Implementation Note(s)			
Field label/title	(Registry Entry detail:) Item Ide		
Cardinality	1	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	Regitemid
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/altId		<u> </u>
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification	9type-registryid
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Name	Organisation Id {registry	entry detail}	
Definition	An identifier for the registry which issued the corresponding Registry Image Id.		
Photo Definition	An identifier for the registry 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:) Organis	sation Identifier	
Cardinality	1	Basic data type	string
Required CV			
Spec change history			
XMP implementation			
XMP namespace	lptc4xmpExt	XMP property id	RegOrgId
XMP Value Type	Text	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)	/newsItem/contentMeta/altId/@type="RegOrgId"		
Property-attribute(s)			
QCode scheme			
Implementation note(s)			

Generic Specification			9type-registryid
Name	Registry Entry Details {c	lata type}	
Definition		ntry in a registry, inclu	des the id issued by the registry and
	the registry's id.		
Photo Definition	A structured datatype for an entry in a registry, includes the id for the image issued by the		
DI CHILT	registry and the registry's id.		
Photo Help Text	-		
User Note(s)			
Implementation Note(s)			
Field label/title	N/A		
Cardinality		Basic data type	structure
Required CV			
Spec change history			
XMP implementation			
XMP namespace	Iptc4xmpExt	XMP property id	RegistryEntryDetails
XMP Value Type	structure	XMP Category	External
Implementation note(s)			
IIM Mapping			
IIM/XMP Mapping note(s)			
G2 implementation			
Property name (XPath)			
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 September 2008	
	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 2008)	
	http://www.iptc.org/G2-Standards/	
IPTC IIM	IPTC Information Interchange Model: <a href="http://www.iptc.org/IIM/">http://www.iptc.org/IIM/</a> 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: <a href="http://www.useplus.com/useplus/standards.asp">http://www.useplus.com/useplus/standards.asp</a>	
MetadataWG	Guidelines for Handling Image Metadata v 1.1	
	http://www.metadataworkinggroup.com/specs/	



# Addendum 1: Persisting 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 persisted, in addition to all other such as contained in the IPTC Core, IPTC Extension or IIM metadata.

#### Why do we need to persist 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 and digital photography. Workflows need to be faster and more efficient, saving time and money whenever and wherever possible, image quality needs to be higher, and search and retrieval for images needs to be more discerning and more fruitful.

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

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

### **Photo Workflows**

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

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

#### How to persist metadata in different workflows

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

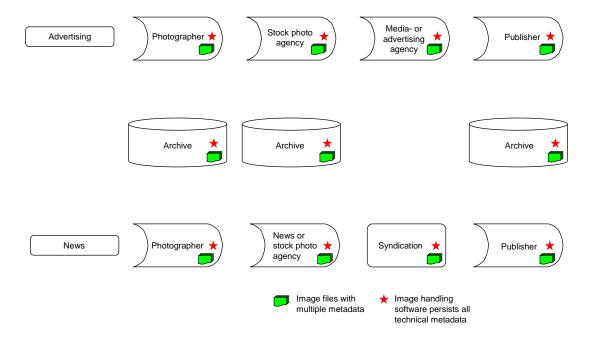
- a) the general case
- b) a news picture agency
- c) a newspaper

The workflow diagrams that have red asterisks 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.

IPTC-PhotoMetadata(200907) 1.docx



## **Generalised Photo Value Chain**

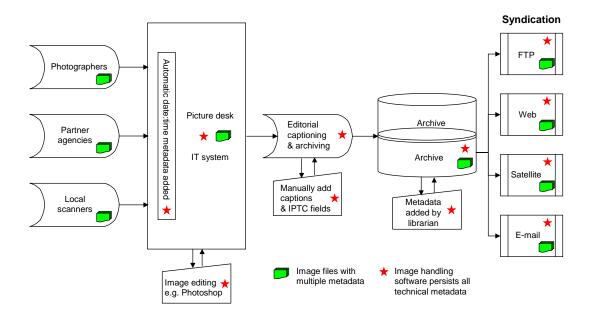


At every stage in the value chain, starting with downloading images from the camera to a storage device, and at every further stage of picture annotation and editing, only software that persists and maintains all photo metadata should be used.



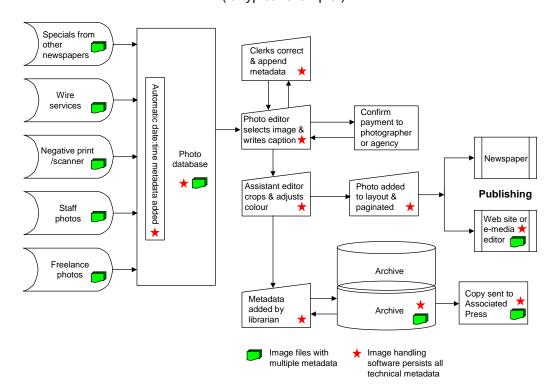
# **News Agency Workflow**

(example from dpa, Deutsche Presse-Agentur)



# **U.S. Newspaper's Workflow**

( a typical example )





# **Recommendations**

- 1. Persisting technical metadata means 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.
- All metadata, descriptive and technical, should be persisted in accordance with the first recommendation, above, as long as each image file remains digitally accessible. All JPEG-based Exif, TIFF/EP and camera RAW files contain technical camera metadata. PDF files also contain technical metadata, as do the new generation of file formats, JPEG 2000 and JPEG XR.
- 3. All technical metadata should be persisted, even if they are not required for use by the current application in a workflow step. Any application should not be limited by inadequate metadata processing of software in a previous workflow step. It should not remove any property.
- 4. Versioning metadata, to historically record all modifications to the image, is optional. Similarly, an application must be able to update standard metadata, where appropriate.
- 5. If the picture data is edited, for example through orientation, colour characterisation, sizing or cropping, then the pertinent metadata (e.g. pixel height and width) and the thumbnail image need to be updated in the file to be commensurate with the main picture data.
- 6. Image suppliers should persist all of the technical metadata, both standard and proprietary, in its existing and standardised form within the respective image files (Exif, TIFF, JPEG 2000, RAW, PDF, DNG etc.). Not just one schema for metadata has to be supported today, but several IPTC IIM and IPTC Core, IPTC Extension, TIFF, Dublin Core, Exif, ICC and others.
- 7. In order for the technical metadata to be usable by the widest range of existing applications, technical metadata is required in its original schema. The Exif format, for example, is by far the most common digital camera format and schema for digital pictures. All automatic image processing applications cater first and foremost for 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. For the future, the use of a single schema for all metadata is to 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 the use of technical metadata develops, it shall become possible to take advantage of new algorithms to further improve image quality, the use of image resources and asset management.



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

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

http://www.ifra.com/Persisting\_Technical\_Photo\_Metadata.pdf

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