



# **IPTC Standard**

## **Information Interchange Model (IIM)**

### **IIM Schema for XMP** Specification Version 1.0

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.

The effort to express IIM properties by an XMP schema was initiated by Dave Compton (Thomson Reuters) and the document was edited by Michael Steidl (IPTC).

## About the Standard

### IIM Specification Version History

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### IIM schema for XMP Specification Version History

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1.0	2008-02-02	IPTC Standards Committee	

### Document Revision History

Revision	Issue Date	Author/revised by	Remarks
1	2008-07-16	M Steidl	Built on Draft version 2

## About this Document

- This document specifies how to express Information Interchange Model (IIM) metadata properties by Adobe's metadata technology "Extended Metadata Platform – XMP".

## Status of this Document

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

This is a specification document which was endorsed by the IPTC members and may be updated, replaced or obsoleted by other documents at any time.

Public versions of this specification document and of related IPTC documents are available at:

[http://www.iptc.org/std/IIM/4.1/specification/IPTC-IIM-Schema4XMP-1.0-spec\\_1.pdf](http://www.iptc.org/std/IIM/4.1/specification/IPTC-IIM-Schema4XMP-1.0-spec_1.pdf)

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 2008 specifications is available at:

<http://www.iptc.org/std/IIM/4.1/specification/IIM-Schema4XMP-1.0-Errata.html>



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## Table of Contents

Introduction to the IIM schema for XMP .....	7
IIM schema for XMP specification notation .....	7
The specification template.....	7
IIM schema for XMP specifications.....	8
Names and Identifiers .....	8
Metadata Properties.....	8
1:00 Model Version .....	8
1:05 Destination .....	8
1:20 File Format .....	8
1:22 File Format Version .....	8
1:30 Service Identifier .....	9
1:40 Envelope Number.....	9
1:50 Product ID.....	9
1:60 Envelope Priority.....	9
1:70 Date Sent .....	9
1:80 Time Sent.....	10
1:100 UNO.....	10
2:03 Object Type Reference.....	10
2:04 Object Attribute Reference.....	10
2:05 Object Name .....	10
2:07 Edit Status.....	11
2:10 Urgency .....	11
2:12 Subject Reference .....	11
2:15 Category.....	11
2:20 Supplemental Category.....	11
2:22 Fixture Identifier.....	12
2:25 Keywords.....	12
2:26 Content Location Code .....	12
2:27 Content Location Name.....	12
2:30 Release Date .....	12
2:35 Release Time .....	13
2:37 Expiration Date.....	13
2:38 Expiration Time.....	13
2:40 Special Instruction .....	13
2:42 Action Advised.....	13
2:45 Reference Service.....	14
2:47 Reference Date.....	14

2:50 Reference Number.....	14
2:55 Date Created.....	14
2:60 Time Created.....	14
2:62 Digital Creation Date.....	15
2:63 Digital Creation Time.....	15
2:65 Originating Program.....	15
2:70 Program Version.....	15
2:80 By-line.....	15
2:85 By-line Title.....	16
2:90 City.....	16
2:92 Sublocation.....	16
2:95 Province/State.....	16
2:100 Country/Primary Location Code.....	16
2:101 Country/Primary Location Name.....	17
2:103 Original Transmission Reference.....	17
2:105 Headline.....	17
2:110 Credit.....	17
2:115 Source.....	17
2:116 Copyright Notice.....	18
2:118 Contact.....	18
2:120 Caption/Abstract.....	18
2:122 Writer/Editor.....	18
2:130 Image Type.....	18
2:131 Image Orientation.....	19
2:135 Language Identifier.....	19
Appendix: Mapping of all IIM properties.....	20
References.....	21



## Introduction to the IIM schema for XMP

The Information Interchange Model – IIM - was the first IPTC standards aiming at multi-media news items which was developed in about 1990. The technical implementation of the IIM metadata properties was specified as binary data blocks.

The most widely use of IIM is still in the area of photos ...

In the course of developing their XMP technology Adobe mapped more than a dozen IIM properties which were adopted as metadata fields for Photoshop to XMP properties of different XMP schemas. To provide an unambiguous specification of all these properties the IPTC and Adobe jointly developed the IPTC Core schema for XMP which not only defined the mapping on a technical level but also full definitions of the semantics of each property, a handsome user interface – the Adobe custom panels – and a user guideline for photographers.

The existing IPTC Core schema covers only a subset of the IIM properties, mapping them to the following namespaces as appropriate:

- dc: Dublin Core schema
- Iptc4xmpCore: IPTC Core schema
- photoshop: Adobe Photoshop schema
- xmpRights: Adobe Rights Management schema

In order to facilitate mapping the entire IIM set of properties, the IPTC decided to develop the IPTC IIM schema, which maps most of the remaining IIM properties to XMP using the following namespace:

- Iptc4xmpIIM: IPTC IIM

Defining the IPTC IIM schema for XMP properties is the scope and goal of this specification.

The specifications of this schema are built on the latest version of IIM, version 4.1 of July 1999.

## IIM schema for XMP specification notation

### The specification template

This specification document provides for IIM properties a full specification consisting of:

- A generic specification of its name, semantics and cardinality as it appeared in IIM version 4.1
- A technical implementation specific for Adobe's XMP technology [Adobe XMP]

The specifications of an IIM property are notated by a generic table, find below the template table with explanations for each row in the right column:

IIM Specification	
<b>Name</b>	<b>The dataset identifier (in the format recordNo:dataSetNo) and the name of the property – as it appeared in the IIM 4.1 specifications</b>
Definition	A definition of the semantics of this property as it appeared in the IIM specifications
Cardinality	How often this property may appear in a set of Photo Metadata for an image. 1 = is mandatory, 0..1 = one occurrence is optional, 1..unbounded = multiple occurrences are optional
XMP implementation	
<b>XMP namespace</b>	The XMP namespace alias, see section "Names and Identifiers" of IPTC Core and IPTC Extension.
<b>XMP property id</b>	The identifying name of the property
XMP Value Type	The value type as per XMP specifications
Implementation note(s)	Any note regarding the XMP-specific implementation



## IIM schema for XMP specifications

### Names and Identifiers

The **XML namespace URI** for the “IIM in XMP” version 1.0:  
<http://iptc.org/std/Iptc4xmpIIM/1.0/xmlns/>

The **preferred XML namespace-prefix** for “IIM in XMP” related XMP properties is: **Iptc4xmpIIM**  
 The use of this namespace-prefix is not mandatory but highly recommended for interoperability support.

### Metadata Properties

<b>IIM Specification</b>	
<b>Name</b>	<b>1:00 Model Version</b>
Definition	A binary number identifying the version of the Information Interchange Model, Part I, utilised by the provider. Version numbers are assigned by IPTC and NAA.
Cardinality	1
<b>XMP implementation</b>	
<b>XMP namespace</b>	Iptc4xmpIIM
<b>XMP property id</b>	IIM1-000
XMP Value Type	Integer
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>1:05 Destination</b>
Definition	This DataSet is to accommodate some providers who require routing information above the appropriate OSI layers.
Cardinality	0..unbounded
<b>XMP implementation</b>	
<b>XMP namespace</b>	Iptc4xmpIIM
<b>XMP property id</b>	IIM1-005
XMP Value Type	Bag Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>1:20 File Format</b>
Definition	A binary number identifying the version of the Information Interchange Model, Part I, utilised by the provider. Version numbers are assigned by IPTC and NAA.
Cardinality	1
<b>XMP implementation</b>	
<b>XMP namespace</b>	Iptc4xmpIIM
<b>XMP property id</b>	IIM1-020
XMP Value Type	Integer
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>1:22 File Format Version</b>
Definition	A list of File Formats, including version cross references, is included in the IIM specifications as Appendix A.
Cardinality	1
<b>XMP implementation</b>	
<b>XMP namespace</b>	Iptc4xmpIIM
<b>XMP property id</b>	IIM1-022
XMP Value Type	Integer
Implementation note(s)	





<b>IIM Specification</b>	
<b>Name</b>	<b>1:30 Service Identifier</b>
Definition	Identifies the provider and product.
Cardinality	1
<b>XMP implementation</b>	
<b>XMP namespace</b>	lptc4xmpIIM
<b>XMP property id</b>	IIM1-030
XMP Value Type	Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>1:40 Envelope Number</b>
Definition	The characters form a number that will be unique for the date specified in 1:70 and for the Service Identifier specified in 1:30.
Cardinality	1
<b>XMP implementation</b>	
<b>XMP namespace</b>	lptc4xmpIIM
<b>XMP property id</b>	IIM1-040
XMP Value Type	Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>1:50 Product ID</b>
Definition	Allows a provider to identify subsets of its overall service. Used to provide receiving organisation data on which to select, route, or otherwise handle data
Cardinality	0..unbounded
<b>XMP implementation</b>	
<b>XMP namespace</b>	lptc4xmpIIM
<b>XMP property id</b>	IIM1-050
XMP Value Type	Bag Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>1:60 Envelope Priority</b>
Definition	Specifies the envelope handling priority and not the editorial urgency (see 2:10, Urgency). '1' indicates the most urgent, '5' the normal urgency, and '8' the least urgent copy. The numeral '9' indicates a User Defined Priority. '0' reserved for futur
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	lptc4xmpIIM
<b>XMP property id</b>	IIM1-060
XMP Value Type	Integer
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>1:70 Date Sent</b>
Definition	Uses the format CCYYMMDD (century, year, month, day) as defined in ISO 8601 to indicate year, month and day the service sent the material
Cardinality	1
<b>XMP implementation</b>	
<b>XMP namespace</b>	lptc4xmpIIM
<b>XMP property id</b>	IIM1-070
XMP Value Type	Date
Implementation note(s)	Note 1: Any content of the IIM dataset 1:80, Time sent, should be merged to this element.



<b>IIM Specification</b>	
<b>Name</b>	<b>1:80 Time Sent</b>
Definition	Uses the format HHMMSS±HHMM where HHMMSS refers to local hour, minute and seconds and HHMM refers to hours and minutes ahead (+) or behind ( ) Universal Coordinated Time as described in ISO 8601. This is the time the service sent the material.
Cardinality	
<b>XMP implementation</b>	
<b>XMP namespace</b>	
<b>XMP property id</b>	
XMP Value Type	
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>1:100 UNO</b>
Definition	UNO Unique Name of Object, providing eternal, globally unique identification for objects as specified in the IIM, independent of provider and for any media form. The provider must ensure the UNO is unique. Objects with the same UNO are identical.
Cardinality	1
<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM1-100
XMP Value Type	Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>2:03 Object Type Reference</b>
Definition	The Object Type is used to distinguish between different types of objects within the IIM.
Cardinality	1
<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-003
XMP Value Type	Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>2:04 Object Attribute Reference</b>
Definition	The Object Attribute defines the nature of the object independent of the Subject.
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpCore
<b>XMP property id</b>	IntellectualGenre
XMP Value Type	Text
Implementation note(s)	Note / Examples:  Journalistic genres: actuality, interview, background, feature, summary, wrapup  News category related genres: daybook, obituary, press release, transcript  It is advised to use terms from a controlled vocabulary.
<b>IIM Specification</b>	
<b>Name</b>	<b>2:05 Object Name</b>
Definition	Used as a shorthand reference for the object. Changes to existing data, such as updated stories or new crops on photos, should be identified in Edit Status.
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	dc



<b>XMP property id</b>	title
XMP Value Type	Lang Alt
Implementation note(s)	Note 1: This element aligns with the use of Dublin Core's "Title" element.  Note 2: the XMP property (dc:title) 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.

<b>IIM Specification</b>	
<b>Name</b>	<b>2:07 Edit Status</b>
Definition	Status of the objectdata, according to the practice of the provider.
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-007
XMP Value Type	Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:10 Urgency</b>
Definition	Specifies the editorial urgency of content and not necessarily the envelope handling priority (see 1:60, Envelope Priority). The '1' is most urgent, '5' normal and '8' denotes the least-urgent copy. '0', '9' reserved for future use
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-010
XMP Value Type	Integer
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:12 Subject Reference</b>
Definition	Is a structured definition of the subject matter. It must contain an IPR (default value is "IPTC"), an 8 digit Subject Reference Number and optional Subject Name, Subject Matter Name and Subject Detail Name. Parts are separated by an '!'.
Cardinality	0..unbounded

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpCore
<b>XMP property id</b>	SubjectCode
XMP Value Type	bag closed choice Text
Implementation note(s)	Note: Only Subjects from a controlled vocabulary should be used here, free text has to be put into the Keyword element. More about IPTC Subject-NewsCodes at <a href="http://www.newsCodes.org">www.newsCodes.org</a> .

<b>IIM Specification</b>	
<b>Name</b>	<b>2:15 Category</b>
Definition	Identifies the subject of the objectdata in the opinion of the provider.
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-015
XMP Value Type	Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:20 Supplemental Category</b>
Definition	Further refines the subject of an objectdata. Only a single supplemental category may be contained in each DataSet. A supplemental category may include any of the recognised categories as used in 2:15. Otherwise it is left to the provider.
Cardinality	0..unbounded



<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-020
XMP Value Type	Bag Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:22 Fixture Identifier</b>
Definition	Identifies objectdata that recurs often and predictably. Enables users to immediately find or recall such an object.
Cardinality	1

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-022
XMP Value Type	Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:25 Keywords</b>
Definition	Used to indicate specific information retrieval words.
Cardinality	0..unbounded

<b>XMP implementation</b>	
<b>XMP namespace</b>	dc
<b>XMP property id</b>	subject
XMP Value Type	bag Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:26 Content Location Code</b>
Definition	Indicates the code of a country/geographical location referenced by the content of the object. Where ISO has established an appropriate country code under ISO 3166, that code will be used.
Cardinality	0..unbounded

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-026
XMP Value Type	Bag Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:27 Content Location Name</b>
Definition	Provides a full, publishable name of a country/geographical location referenced by the content of the object, according to guidelines of the provider.
Cardinality	0..unbounded

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-027
XMP Value Type	Bag Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:30 Release Date</b>
Definition	Designates in the form CCYYMMDD the earliest date the provider intends the object to be used. Follows ISO 8601 standard.
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM



<b>XMP property id</b>	IIM2-030
XMP Value Type	Date
Implementation note(s)	Note 1: Any content of the IIM dataset 2:35, Release Time, should be merged to this element.

<b>IIM Specification</b>	
<b>Name</b>	<b>2:35 Release Time</b>
Definition	Designates in the form HHMMSS±HHMM the earliest time the provider intends the object to be used. Follows ISO 8601 standard
Cardinality	
<b>XMP implementation</b>	
<b>XMP namespace</b>	
<b>XMP property id</b>	
XMP Value Type	
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:37 Expiration Date</b>
Definition	Designates in the form CCYYMMDD the latest date the provider or owner intends the objectdata to be used. Follows ISO 8601 standard.
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-037
XMP Value Type	Date
Implementation note(s)	Note 1: Any content of the IIM dataset 2:38, Expiration Time, should be merged to this element.

<b>IIM Specification</b>	
<b>Name</b>	<b>2:38 Expiration Time</b>
Definition	Designates in the form HHMMSS±HHMM the latest time the provider or owner intends the objectdata to be used. Follows ISO 8601 standard.
Cardinality	

<b>XMP implementation</b>	
<b>XMP namespace</b>	
<b>XMP property id</b>	
XMP Value Type	
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:40 Special Instruction</b>
Definition	Other editorial instructions concerning the use of the objectdata, such as embargoes and warnings.
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	photoshop
<b>XMP property id</b>	Instructions
XMP Value Type	Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:42 Action Advised</b>
Definition	Indicates the type of action that this object provides to a previous object.
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-042
XMP Value Type	Text



Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>2:45 Reference Service</b>
Definition	Identifies the Service Identifier of a prior envelope to which the current object refers
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	Iptc4xmpIIM
<b>XMP property id</b>	IIM2-045
XMP Value Type	Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>2:47 Reference Date</b>
Definition	Identifies the date of a prior envelope to which the current object refers
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	Iptc4xmpIIM
<b>XMP property id</b>	IIM2-047
XMP Value Type	Date
Implementation note(s)	This date must not contain a time part
<b>IIM Specification</b>	
<b>Name</b>	<b>2:50 Reference Number</b>
Definition	Identifies the Envelope Number of a prior envelope to which the current object refers
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	Iptc4xmpIIM
<b>XMP property id</b>	IIM2-050
XMP Value Type	Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>2:55 Date Created</b>
Definition	Represented in the form CCYYMMDD to designate the date the intellectual content of the objectdata was created rather than the date of the creation of the physical representation.
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	photoshop
<b>XMP property id</b>	DateCreated
XMP Value Type	Date
Implementation note(s)	Note 1: Any content of the IIM dataset 2:60, Time Created, should be merged to this element.  Note 2: Implementers are encouraged to provide the creation date and time from the EXIF data of a digital camera to the user for entering this date for the first time.
<b>IIM Specification</b>	
<b>Name</b>	<b>2:60 Time Created</b>
Definition	Represented in the form HHMMSS±HHMM to designate the time the intellectual content of the objectdata current source material was created rather than the creation of the physical representation.
Cardinality	
<b>XMP implementation</b>	
<b>XMP namespace</b>	
<b>XMP property id</b>	
XMP Value Type	
Implementation note(s)	Any content from this IIM dataset should be merged to the IPTC Core element "CreateDate".



<b>IIM Specification</b>	
<b>Name</b>	<b>2:62 Digital Creation Date</b>
Definition	Represented in the form CCYYMMDD to designate the date the digital representation of the objectdata was created.
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-062
XMP Value Type	Date
Implementation note(s)	Note 1: Any content of the IIM dataset 2:63, Digital Creation Time, should be merged to this element.

<b>IIM Specification</b>	
<b>Name</b>	<b>2:63 Digital Creation Time</b>
Definition	Represented in the form HHMMSS±HHMM to designate the time the digital representation of the objectdata was created.
Cardinality	

<b>XMP implementation</b>	
<b>XMP namespace</b>	
<b>XMP property id</b>	
XMP Value Type	
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:65 Originating Program</b>
Definition	Identifies the type of program used to originate the objectdata.
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-065
XMP Value Type	Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:70 Program Version</b>
Definition	Used to identify the version of the program mentioned in 2:65. DataSet 2:70 is invalid if 2:65 is not present.
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-070
XMP Value Type	Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:80 By-line</b>
Definition	Contains name of the creator of the objectdata, e.g. writer, photographer or graphic artist
Cardinality	0..unbounded

<b>XMP implementation</b>	
<b>XMP namespace</b>	dc
<b>XMP property id</b>	creator
XMP Value Type	Seq ProperName
Implementation note(s)	Aligning with IIM notions IPTC Core intends to have only one creator for this news object despite the underlying XMP property dc:creator allows for more than one item to be included. If there are more than one item in this array the first one should be considered as the IPTC Core Creator value.



<b>IIM Specification</b>	
<b>Name</b>	<b>2:85 By-line Title</b>
Definition	A by-line title is the title of the creator or creators of an objectdata. Where used, a by-line title should follow the by-line it modifies.
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	photoshop
<b>XMP property id</b>	AuthorsPosition
XMP Value Type	Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>2:90 City</b>
Definition	Identifies city of objectdata origin according to guidelines established by the provider.
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	photoshop
<b>XMP property id</b>	City
XMP Value Type	Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>2:92 Sublocation</b>
Definition	Identifies the location within a city from which the objectdata originates, according to guidelines established by the provider
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpCore
<b>XMP property id</b>	Location
XMP Value Type	Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>2:95 Province/State</b>
Definition	Identifies Province/State of origin according to guidelines established by the provider.
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	photoshop
<b>XMP property id</b>	State
XMP Value Type	Text
Implementation note(s)	
<b>IIM Specification</b>	
<b>Name</b>	<b>2:100 Country/Primary Location Code</b>
Definition	Indicates the code of the country/primary location where the intellectual property of the objectdata was created, e.g. a photo was taken, an event occurred. Where ISO has established an appropriate country code under ISO 3166, that code will be used.
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpCore
<b>XMP property id</b>	CountryCode
XMP Value Type	closed choice Text
Implementation note(s)	Note 1: an implementer would have to derive from the length of the value string whether this is the country code from the two or three letter scheme as no explicit indication can be provided.





<b>IIM Specification</b>	
<b>Name</b>	<b>2:101 Country/Primary Location Name</b>
Definition	Provides full, publishable, name of the country/primary location where the intellectual property of the objectdata was created, according to guidelines of the provider.
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	photoshop
<b>XMP property id</b>	Country
XMP Value Type	Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:103 Original Transmission Reference</b>
Definition	A code representing the location of original transmission according to practices of the provider.
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	photoshop
<b>XMP property id</b>	TransmissionReference
XMP Value Type	Text
Implementation note(s)	Note: As this identifier references a job of the receiver's workflow it has first to be issued by the receiver, then be transmitted to the creator or provider of the news object and finally added by him to this field.

<b>IIM Specification</b>	
<b>Name</b>	<b>2:105 Headline</b>
Definition	A publishable entry providing a synopsis of the contents of the objectdata
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	photoshop
<b>XMP property id</b>	Headline
XMP Value Type	Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:110 Credit</b>
Definition	Identifies the provider of the objectdata, not necessarily the owner/creator
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	photoshop
<b>XMP property id</b>	Credit
XMP Value Type	Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:115 Source</b>
Definition	Identifies the original owner of the intellectual content of the objectdata. This could be an agency, a member of an agency or an individual.
Cardinality	0..1

<b>XMP implementation</b>	
<b>XMP namespace</b>	photoshop
<b>XMP property id</b>	Source
XMP Value Type	Text
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.



<b>IIM Specification</b>	
<b>Name</b>	<b>2:116 Copyright Notice</b>
Definition	Contains any necessary copyright notice
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	dc
<b>XMP property id</b>	rights
XMP Value Type	Lang Alt
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.

<b>IIM Specification</b>	
<b>Name</b>	<b>2:118 Contact</b>
Definition	Identifies the person or organisation which can provide further background information on the objectdata.
Cardinality	
<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpCore
<b>XMP property id</b>	ContactInfoDetails
XMP Value Type	structure
Implementation note(s)	Adoption of an appropriate person information scheme discussed - decision on 9 September.

<b>IIM Specification</b>	
<b>Name</b>	<b>2:120 Caption/Abstract</b>
Definition	A textual description of the objectdata, particularly used where the object is not text.
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	dc
<b>XMP property id</b>	description
XMP Value Type	Lang Alt
Implementation note(s)	Note: the XMP property (dc:description) which stores the value of this IPTC Core property is of type Lang Alt. Hence any software agent dealing with this property must abide to the processing rules for Lang Alt value type as specified by the XMP specifications.

<b>IIM Specification</b>	
<b>Name</b>	<b>2:122 Writer/Editor</b>
Definition	Identification of the name of the person involved in the writing, editing or correcting the objectdata or caption/abstract
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	photoshop
<b>XMP property id</b>	CaptionWriter
XMP Value Type	Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:130 Image Type</b>
Definition	The first is a numeric character and the second is an alphabetic character.
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-130
XMP Value Type	Text
Implementation note(s)	



<b>IIM Specification</b>	
<b>Name</b>	<b>2:131 Image Orientation</b>
Definition	Indicates the layout of the image area. Allowed values are P (for Portrait), L (for Landscape) and S (for Square).
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-131
XMP Value Type	Text
Implementation note(s)	

<b>IIM Specification</b>	
<b>Name</b>	<b>2:135 Language Identifier</b>
Definition	Describes the major national language of the object, according to the 2-letter codes of ISO 639:1988. Does not define or imply any coded character set, but is used for internal routing.
Cardinality	0..1
<b>XMP implementation</b>	
<b>XMP namespace</b>	iptc4xmpIIM
<b>XMP property id</b>	IIM2-135
XMP Value Type	Text
Implementation note(s)	



## Appendix: Mapping of all IIM properties

As outlined in the Overview section some IIM properties have been mapped to XMP properties first by Adobe in their development of XMP and then they have been included in the IPTC Core schema for XMP in 2004.

The table below provides a list of all IIM metadata properties which have been mapped to an XMP property.

Find below this table a list of IIM properties which have not been mapped to XMP.

<b>IIM property: Record no:Dataset no and name</b>	<b>XMP namespace alias:XMP property – IPTC schema for XMP (in parentheses)</b>
1:00 Model Version	lptc4xmplIIM:IIM1-000 (IPTC IIM schema)
1:05 Destination	lptc4xmplIIM:IIM1-005 (IPTC IIM schema)
1:20 File Format	lptc4xmplIIM:IIM1-020 (IPTC IIM schema)
1:22 File Format Version	lptc4xmplIIM:IIM1-022 (IPTC IIM schema)
1:30 Service Identifier	lptc4xmplIIM:IIM1-030 (IPTC IIM schema)
1:40 Envelope Number	lptc4xmplIIM:IIM1-040 (IPTC IIM schema)
1:50 Product ID	lptc4xmplIIM:IIM1-050 (IPTC IIM schema)
1:60 Envelope Priority	lptc4xmplIIM:IIM1-060 (IPTC IIM schema)
1:70 Date Sent	lptc4xmplIIM:IIM1-070 (IPTC IIM schema)
1:80 Time Sent	Not mapped
1:100 UNO	lptc4xmplIIM:IIM1-100 (IPTC IIM schema)
2:03 Object Type Reference	lptc4xmplIIM:IIM2-003 (IPTC IIM schema)
2:04 Object Attribute Reference	lptc4xmpCore:IntellectualGenre (IPTC Core schema)
2:05 Object Name	dc:title (IPTC Core schema)
2:07 Edit Status	lptc4xmplIIM:IIM2-007 (IPTC IIM schema)
2:10 Urgency	lptc4xmplIIM:IIM2-010 (IPTC IIM schema)
2:12 Subject Reference	lptc4xmpCore:SubjectCode (IPTC Core schema)
2:15 Category	lptc4xmplIIM:IIM2-015 (IPTC IIM schema)
2:20 Supplemental Category	lptc4xmplIIM:IIM2-020 (IPTC IIM schema)
2:22 Fixture Identifier	lptc4xmplIIM:IIM2-022 (IPTC IIM schema)
2:25 Keywords	dc:subject (IPTC Core schema)
2:26 Content Location Code	lptc4xmplIIM:IIM2-026 (IPTC IIM schema)
2:27 Content Location Name	lptc4xmplIIM:IIM2-027 (IPTC IIM schema)
2:30 Release Date	lptc4xmplIIM:IIM2-030 (IPTC IIM schema)
2:35 Release Time	Not mapped
2:37 Expiration Date	lptc4xmplIIM:IIM2-037 (IPTC IIM schema)
2:38 Expiration Time	Not mapped
2:40 Special Instruction	photoshop:Instructions (IPTC Core schema)
2:42 Action Advised	lptc4xmplIIM:IIM2-042 (IPTC IIM schema)
2:45 Reference Service	lptc4xmplIIM:IIM2-045 (IPTC IIM schema)
2:47 Reference Date	lptc4xmplIIM:IIM2-047 (IPTC IIM schema)
2:50 Reference Number	lptc4xmplIIM:IIM2-050 (IPTC IIM schema)
2:55 Date Created	photoshop:DateCreated (IPTC Core schema)
2:60 Time Created	Not mapped
2:62 Digital Creation Date	lptc4xmplIIM:IIM2-062 (IPTC IIM schema)
2:63 Digital Creation Time	Not mapped
2:65 Originating Program	lptc4xmplIIM:IIM2-065 (IPTC IIM schema)
2:70 Program Version	lptc4xmplIIM:IIM2-070 (IPTC IIM schema)
2:80 By-line	dc:creator (IPTC Core schema)
2:85 By-line Title	photoshop:AuthorsPosition (IPTC Core schema)
2:90 City	photoshop:City (IPTC Core schema)
2:92 Sublocation	lptc4xmpCore:Location (IPTC Core schema)
2:95 Province/State	photoshop:State (IPTC Core schema)
2:100 Country/Primary Location Code	lptc4xmpCore:CountryCode (IPTC Core schema)
2:101 Country/Primary Location Name	photoshop:Country (IPTC Core schema)



2:103 Original Transmission Reference	photoshop:TransmissionReference (IPTC Core schema)
2:105 Headline	photoshop:Headline (IPTC Core schema)
2:110 Credit	photoshop:Credit (IPTC Core schema)
2:115 Source	photoshop:Source (IPTC Core schema)
2:116 Copyright Notice	dc:rights (IPTC Core schema)
2:118 Contact	iptc4xmpCore:ContactInfoDetails (IPTC Core schema)
2:120 Caption/Abstract	dc:description (IPTC Core schema)
2:122 Writer/Editor	photoshop:CaptionWriter (IPTC Core schema)
2:130 Image Type	iptc4xmpIIM:IIM2-130 (IPTC IIM schema)
2:131 Image Orientation	iptc4xmpIIM:IIM2-131 (IPTC IIM schema)
2:135 Language Identifier	iptc4xmpIIM:IIM2-135 (IPTC IIM schema)

These IIM properties have not been mapped to XMP:

Record 1:

1:90 Coded Character Set  
 1:120 ARM Identifier  
 1:122 ARM Version

Record 2:

2:00 Record Version  
 2:08 Editorial Update  
 2:75 Object Cycle  
 2:125 Rasterised Caption  
 2:150-4 Audio properties  
 2:200-2 Object Data properties

Record 7:\* Pre-Object Descriptor Record properties (mandatory in IIM)

Record 9:\* Post-Object Descriptor Record properties (mandatory in IIM)

## References

Name	Source
Adobe XMP	Adobe Extensible Metadata Platform (XMP) <a href="http://www.adobe.com/products/xmp/">http://www.adobe.com/products/xmp/</a> Specification as of September 2005 This document includes the specification of the metadata schemas Dublin Core, XMP Rights management and Photoshop which are referenced in this specification.
IPTC IIM	IPTC Information Interchange Model: <a href="http://www.iptc.org/IIM/">http://www.iptc.org/IIM/</a> and <a href="http://www.iptc.org/std/IIM/4.1/specification/IIMV4.1.pdf">http://www.iptc.org/std/IIM/4.1/specification/IIMV4.1.pdf</a>
IPTC Core	IPTC Core schema for XMP version 1.0: <a href="http://www.iptc.org/std/Iptc4xmpCore/1.0/specification/Iptc4xmpCore_1.0-spec-XMPSchema_8.pdf">http://www.iptc.org/std/Iptc4xmpCore/1.0/specification/Iptc4xmpCore_1.0-spec-XMPSchema_8.pdf</a> IPTC Core schema for XMP version 1.1: <a href="http://www.iptc.org/std/photometadata/2008/specification/IPTC-PhotoMetadata-2008_1.pdf">http://www.iptc.org/std/photometadata/2008/specification/IPTC-PhotoMetadata-2008_1.pdf</a>