



## IPTC Metadata for XMP – Overview 1

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Rev a.				

This document provides a table of:

- metadata elements originating from various IPTC standards (IIM/Information Interchange Model, NITF/News Industry Text Format, NewsML/News Markup Language)
- the IIM metadata structure as adopted by Adobe for the “IPTC Headers” to digital image files
- metadata elements from the Dublin Core Metadata Initiative.

As it can be seen from the recordset:recordnumber numbering of IIM or by comparing the table to the specifications of the various IPTC standards only a subset of specified elements are shown, the criteria for selection were:

- IIM records used by Adobe for the “IPTC Headers”
- Continuity: specific metadata elements used by the IPTC for most of their standards
- Importance: metadata elements considered to be relevant for news exchange – beyond the scope of current adoption by Adobe for the “IPTC Headers”.

The table shows only the names of the elements and for the IPTC standards an additional explanation to learn about the concept for this metadata element.

In the rightmost column proposed names for metadata elements are shown as to be used for an XMP related IPTC Core Metadata schema.

This document does not provide any information about the notation or expression (e.g. in XML) of these metadata elements.

This document is intended as working paper for the “IPTC metadata for XMP” (IPTC4XMP) working group.

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as of: 2004-07-13

<u>IIM-Name</u>	<u>IIM-Comment</u>	<u>Photoshop-Label</u>	<u>NITF-Name</u>	<u>NITF-Comment</u>	<u>NewsML-Name</u>	<u>NewsML-Comment</u>	<u>DC-Name</u>	<u>IPTCXMP-Name</u>
1:05 Destination	This DataSet is to accommodate some providers who require routing information above the appropriate OSI layers.				SentTo	An individual and/or company or organisation to whom the NewsML document is being sent.		SentTo
1:30 Service Identifier	Identifies the provider and product.		head/docdata/del-list/from-src	Delivery service identifier. Identifier used to track the transmission path of the document throughout the delivery process.	NewsService	An identifier for a service to which all the NewsItems in a NewsML document belong.		NewsService
1:50 Product ID	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				NewsProduct	An identifier for a product to which all the NewsItems in a NewsML document belong.		NewsProduct
1:60 Envelope Priority	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				Priority	An indication of the priority notation of a NewsItem.		Priority
1:70 Date Sent	Uses the format CCYYMMDD (century, year, month, day) as defined in ISO 8601 to indicate year, month and day the service sent the material		docdata/date.is sue	Date/time document was issued. If not provided, it is assumed to be on receipt.	NewsEnvelope/DateA ndTime	Date and time of the transmission of this NewsML instance	+:dateSubmitted	SentDateTime
1:80 Time Sent	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.		docdata/date.is sue	Date/time document was issued. If not provided, it is assumed to be on receipt.	see DateAndTime			
1:100 UNO	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.		nitf@uno	Registered identification for document. Character string that provides a unique, persistent identification for a document.	PublicIdentifier	A public identifier (in the sense defined by the XML 1,0 Specification) for a NewsItem.	Identifier	NewsIdentifier
2:03 Object Type Reference	The Object Type is used to distinguish between different types of objects within the IIM.				NewsItemType	An indication of the type of a NewsItem	Type	NewsItemType

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2:04 Object Attribute Reference	The Object Attribute defines the nature of the object independent of the Subject.		tobject.property@type	Includes such items as analysis, feature, and obituary.	Genre	An indication of the Genre of a NewsComponent		Genre
2:05 Object Name	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.	Title	body/body.content/media@alternate-text	Plain-text description that can serve as a substitute for the media object.	NameLabel	A string used by human users as a name to help identify a NewsItem	Title	NameLabel
2:07 Edit Status	Status of the objectdata, according to the practice of the provider.		head/docdata@management-status	Defines whether this document is a cancellation of a previous doc, and other news management properties. Allowed values are usable,embargoed,withheld,canceled	Status	An indication of the Status of a NewsItem.		Status
2:09 Urgency	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	Urgency	head/docdata/urgency	News importance. Can be used to set the priority for distribution but does not set the actual distribution priority	Urgency	An indication of the urgency of a NewsItem		Urgency
2:12 Subject Reference	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 ':'		head/tobject/tobject.subject	Assigns subject information to news material based on a Subject Code system. A three-tiered hierarchy consisting of broad subjects, secondary topics (Subject Matter), and tertiary topics (Subject Detail).	SubjectCode	A container for the IPTC Subject Codes that indicate the subject of a NewsItem, as defined in the IPTC Information Interchange Model.	Subject	SubjectCode
2:15 Category	Identifies the subject of the objectdata in the opinion of the provider.	Category						Category
2:20 Supplemental Category	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.	Supplemental Categories						
2:22 Fixture Identifier	Identifies objectdata that recurs often and predictably. Enables users to immediately find or recall such an object.		head/docdata/fixture	Specification for named document, such as Heard on the Street or On Language. Provides a consistent reference to a document whose content is refreshed periodically.				
2:25 Keywords	Used to indicate specific information retrieval words.	Keywords	head/docdata/key-list/...	List of keywords. Holds a list of keywords about the document.	Keywordline	A displayable set of keywords relevant to a news object. This can be used by a NewsML system to assist manual or automated searches.	Subject	Keywords

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2:26 Content Location Code	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.		body/body.head/byline/location/location-code	Significant place mentioned in an article. Used to normalize locations.	Location/...	An indication of the location somehow relevant to the NewsItem. Type of the location (the nature of its relation to the NewsItem) is specified using the HowPresent attribute that is part of e.g. DateLine, Event, etc.		
2:27 Content Location Name	Provides a full, publishable name of a country/geographical location referenced by the content of the object, according to guidelines of the provider.		body/body.head/byline/location	Significant place mentioned in an article. Used to normalize locations.	see Location			
2:30 Release Date	Designates in the form CCYYMMDD the earliest date the provider intends the object to be used. Follows ISO 8601 standard.		head/docdata/date.release	Date/time document is available to be released. If not provided, it is assumed to be on receipt.	StatusWillChange/DateAndTime + FutureStatus	Date and time when the status of the NewsItem will change to "usable"	+:Available	UseableDateTime
2:35 Release Time	Designates in the form HHMMSS±HHMM the earliest time the provider intends the object to be used. Follows ISO 8601 standard		head/docdata/date.release	Date/time document is available to be released. If not provided, it is assumed to be on receipt.	see StatusWillChange/DateAndTime + FutureStatus			
2:37 Expiration Date	Designates in the form CCYYMMDD the latest date the provider or owner intends the objectdata to be used. Follows ISO 8601 standard.		head/docdata/date.expire	Date/time at which the document has no validity. If not provided, it is assumed to be infinity.	StatusWillChange/DateAndTime + FutureStatus	Date and time when the status of the NewsItem will change to "canceled"		CanceledDateTime
2:38 Expiration Time	Designates in the form HHMMSS±HHMM the latest time the provider or owner intends the objectdata to be used. Follows ISO 8601 standard.		head/docdata/date.expire	Date/time at which the document has no validity. If not provided, it is assumed to be infinity.	see StatusWillChange/DateAndTime + FutureStatus			
2:40 Special Instruction	Other editorial instructions concerning the use of the objectdata, such as embargoes and warnings.	Instructions	head/docdata/ed-msg	Place where an information provider can send a note to the editor about the contents of the story.	Instruction	An instruction from a news provider to the recipient of a NewsItem.		Instruction
2:45 Reference Service	Identifies the Service Identifier of a prior envelope to which the current object refers				~ DerivedFrom // AssociatedWith	A reference to an NewsItem from which this one is derived	Relation	
2:47 Reference Date	Identifies the date of a prior envelope to which the current object refers				~ DerivedFrom // AssociatedWith	A reference to an NewsItem from which this one is derived	Relation	
2:50 Reference Number	Identifies the Envelope Number of a prior envelope to which the current object refers		head/docdata@management-doc-idref	Refers to the docdata's doc-id of a previously published document.	~ DerivedFrom // AssociatedWith	A reference to an NewsItem from which this one is derived	Relation	
2:55 Date Created	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.	Date Created			FirstCreated	The date and, optionally, time at which a NewsItem was first created	Date/+:Created	FirstCreatedDateTime

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2:60 Time Created	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.					see FirstCreated		
2:62 Digital Creation Date	Represented in the form CCYYMMDD to designate the date the digital representation of the objectdata was created.							
2:63 Digital Creation Time	Represented in the form HHMMSS±HHMM to designate the time the digital representation of the objectdata was created.							
2:65 Originating Program	Identifies the type of program used to originate the objectdata.	Description Writer						MetadataWriter
2:70 Program Version	Used to identify the version of the program mentioned in 2:65. DataSet 2:70 is invalid if 2:65 is not present.							MetadataWriterVersion
2:80 By-line	Contains name of the creator of the objectdata, e.g. writer, photographer or graphic artist	Author	body.head/byline/person/...	Container for byline information. Can either be structured with direct specification of the responsible person / entity and their title or unstructured text can be provided./Human individual. Used to normalize people.	ByLine // Creator	A natural-language statement of the author/creator information.	Creator	ByLine
2:85 By-line Title	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.	AuthorsPosition	body.head/byline/byttl	Byline title. Often contains an organization. Title of the person, or entity associated with the byline and a specified person.	ByLineTitle	A natural-language statement of the title of author/creator of the information.		BylineTitle
2:90 City	Identifies city of objectdata origin according to guidelines established by the provider.	City	head/docdata/evloc@city	Event location. Where an event took place (as opposed to where the story was written).	Location/Property@FormalName="City"	An indication of the location somehow relevant to the NewsItem. Type of the location (the nature of its relation to the NewsItem) is specified using the HowPresent attribute that is part of e.g. DateLine, Event, etc.	Coverage	City
2:92 Sublocation	Identifies the location within a city from which the objectdata originates, according to guidelines established by the provider		head/docdata/evloc@county-dist	Event location. Where an event took place (as opposed to where the story was written).	Location/Property@FormalName="Sublocation"		Coverage	Sublocation
2:95 Province/State	Identifies Province/State of origin according to guidelines established by the provider.	State/Province	head/docdata/evloc@state-prov	Event location. Where an event took place (as opposed to where the story was written).	Location/Property@FormalName="CountryArea"		Coverage	CountryArea

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2:100 Country/Primary Location Code	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.		head/docdata/ evloc@iso-cc	Event location. Where an event took place (as opposed to where the story was written).	Location/Property@Fo rmalName="Country"		Coverage	Country
2:101 Country/Primary Location Name	Provides full, publishable, name of the country/primary location where the intellectual property of the objectdata was created, according to guidelines of the provider.	Country			Location/Property@Fo rmalName="Country"		Coverage	
2:103 Original Transmission Reference	A code representing the location of original transmission according to practices of the provider.	Transmission Reference						PrevTransID
2:105 Headline	A publishable entry providing a synopsis of the contents of the objectdata	Headline	body.head/hedl ine/hl1	Headline 1 (main-headline). The primary headline of the story.	HeadLine	A displayable headline		Headline
2:110 Credit	Identifies the provider of the objectdata, not necessarily the owner/creator	Credit	body/body.hea d/distributor	Information distributor. May or may not be the owner or creator	Provider // CreditLine	An individual and/or company or organisation that modified or enhanced a news object after its creation. // A natural-language statement of credit information.	Publisher	Provider
2:115 Source	Identifies the original owner of the intellectual content of the objectdata. This could be an agency, a member of an agency or an individual.	Source			Source	An individual and/or company or organisation that provided source material for a news object.	Source	Source
2:116 Copyright Notice	Contains any necessary copyright notice	Copyright Notice	head/docdata/ doc.copyright	Copyright information for document header. A metadata location for the information about the year and holder of the document copyright.	CopyrightHolder // CopyrightLine	A natural-language statement indicating who owns the copyright. // A natural-language statement of the copyright information	Rights (+:rightsHolder)	CopyrightLine
2:120 Caption/Abstract	A textual description of the objectdata, particularly used where the object is not text.	Description	body/body.hea d/abstract	Story abstract summary or synopsis of the contents of the document.	NewsLine with appropriate NewsLineType		Description	Caption
2:122 Writer/Editor	Identification of the name of the person involved in the writing, editing or correcting the objectdata or caption/abstract		revision-history with function attribute		{metadata}@assigned By	An individual and/or company or organisation that created a news object		
2:131 Image Orientation	Indicates the layout of the image area. Allowed values are P (for Portrait), L (for Landscape) and S (for Square).				~ Property@FormalNam e="Scene"			

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2:135 Language Identifier	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.		nitf@baselang	Base language for document. Uses en-US (per ISO 639 and 3166).	Language	An indication of the, or a, language used in a content item.	Language	Language
		head/docdata/series		Series information. Identification of an article within a series of related articles.	SeriesLine	A displayable version of information about a news object's place in a series.		SeriesInfo
		revision-history with function attribute			Contributor	An individual and/or company or organisation that modified or enhanced a news object after its creation.	Contributor	Contributor
		head/docdata/doc-scope		Indicates an area where the document may be of interest. Where a non-category interest may be specified. These are often geographic in origin, such as Pacific Northwest.	OfInterestTo	An indication of the target audience of a NewsItem.	+:Audience	OfInterestTo
		body/body.content/media@mediatype			MediaType	An indication of the media type of a ContentItem.		MediaType
		body/body.content/media/mime-type			Format // MimeType	An indication of the format of a ContentItem. // An indication of the MIME-type of a ContentItem.	Format	MediaFormat
					Notation	An indication of the notation of a ContentItem. (like JPEG, MPEG2aud, SGML, XML)		MediaNotation
		body/body.content/media/coding			Encoding	The encoding of the data comprising the content of a ContentItem.		MediaEncoding
					ThisRevisionCreated	The date and, optionally, time at which the current revision of a NewsItem was created.	+:modified	ThisRevisionCreated
					StatusWillChange/DateAndTime + FutureStatus			EmbargoedDateTime
					Creator	An individual and/or company or organisation that created a news obj		CreatorID
					Property@FormalName="Scene"	To describe the scene of what is covered by the content.		Scene



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IIM-Name    IIM-Comment                    Photoshop-Label NITF-Name    NITF-Comment                    NewsML-Name NewsML-Comment                    DC-Name    IPTCXMP-Name

**Column headers:**

IIM-Name/...-Comment: Name and comment from IPTC Information Interchange Model (IIM) specification, Version 4.1, 1997, adopted as data structure for "IPTC Headers"

The "number:number" sequence to the left of each name reflects "recordset":"recordnumber" of IIM.

Photoshop-Label: Label to edit fields as it appears on "file info" forms in Photoshop CS, 2004 / The fields relate to the IIM-field in the same row

NITF-Name/...-Comment: Name and comment from IPTC News Industry Text Format (NITF) specification, version 3.2, 2003

NewsML-Name/...-Comment: Name and comment from IPTC News Markup Language (NewsML) specification, version 1.2, 2003

DC-Name: Name from Dublin Core Metadata Element Set, version 1.1, 2003, or DCMI Metadata Terms, 2004 (= "+:")

IPTCXMP: proposed name for XML schema of IPTC metadata to be used by XMP, 2004