

IPTC Document: NAR 0502.1

IPTC SPRING MEETING 2005

held at the Holiday in on the Bay hotel 1355 Harbour Drive, San Diego, CA 92101, USA

3rd to 5th March 2005

Minutes of the News Architecture Working Party held on 3rd March 2005

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Revision	Issue Date	Pages	Author (revised by)	Remark		
unrevised	2005-03-19	5+25	Michael Steidl/Laurent Le Meur			

Present:

Chairman:

Walter Baranger, New York Times Company	Laurent Le Meur, Agence France Presse
Scott Calder, Mainstream Data	Jaak Leenknegt, Agence de Presse Belga
Guthrie Collin, The Associated Press	Johan Lindgren, Tidningarnas Telegrambyrå
Dave Compton, Reuters Limited	Harald Löffler, ifra
Jay Cousins, RivCom [as contracted consultant]	Jayson Lorenzen, Business Wire
Honor Craig-Bennett, PA NewsLtd	Angelo Marrara, ANSA
Arnaud Descamps, Relaxnews	John Minting, United Press International
Takahiro Fujiwara, EAST Co. Ltd	Peter Müller, SDA/ATS
Stéphane Guérillot, Agence France Presse	Stuart Myles, Dow Jones & Company
Darko Gulija, HINA	Karl Oanes, CCNMatthews
Klaus Herwig, Deutsche Presse-Agentur GmbH	Jean-François Richard, Agence France Presse
Niels Hojer-Pedersen, Ritzau Bureau I's	Hitoshi Saito, Nihon Shinbun Kyokai
Rudi Horvath, Austria Presse Agentur	Hiroshi Shinotsuka, Kyodo News
John Iobst, Newspaper Association of America	Klaus Sprick, Deutsche Presse-Agentur GmbH
Hugh Johnstone, IPTC	Henrik Stadler, Tidningarnas Telegrambyrå
Alan Karben, XML Team Solutions, Inc.	Charles Tichenor, The Associated Press
Dean Large, Business Wire	Misha Wolf, Reuters Limited

Michael Steidl, IPTC Managing Director as Secretary

1 Chairman's introduction to the news working party

The WP Chairman said this Working Party was set up in the course of reorganising the IPTC working structure in January 2005. The scope of the work will be shown under item 2.

2 The IPTC News Architecture – introduction and overview

The WP Chairman made a presentation of the IPTC News Architecture – see slides 1 through 28 as Appendix 1 to these minutes.

Additional notes on this presentation:

Slide #5: The WP Chairman emphasised the IPTC has decided to move to W3C XML Schemas as primary tool to specify its XML based content markup standards.

Slide #11:

Misha Wolf said what exactly NewsML 2 is as a brand for some technology stuff has to be decided by the Management and Public Relations Committees.

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Slide #12:

Misha Wolf said for the work on the News Metadata Framework more conference calls and more participants are required.

The WP Chairman responded we have to think about this carefully as we have to consider the (human) resources which are made available by the members.

DISCUSSION:

Johan Lindgren: the EventsML group does not have the requirement for two levels of conformance. Is this a must for all standards?

Misha Wolf said regarding the discussion on labels at the Yahoo group: it is required to have two levels of conformance and hence it has to be considered how to implement a specific level for a certain standard.

He added a requirement should be added to the NAR saying implementers should be enabled to do their own business within this framework. Currently it appears to him some of the NAR requirements are based solely on engineering considerations and not on business considerations. The IPTC has to have a have way to meet the more complex requirements of Reuters' – maybe also other news agencies require them.

Darko Gulija demanded the provider should be able to extend a standard with specific requirements – while the basic features of a standard MUST be supported.

The WP Chairman said the rule must be: Providers are allowed to extend but not to change a standard.

Misha Wolf pointed at the current TopicSets as a good example for this kind of extension: Reuters use their own sets as they have created a very elaborate set of metadata which goes beyond what is provided by the IPTC TopicSets.

He added the IPTC should discuss if extended features as introduced by Reuters should be adopted for future versions of a standard.

Klaus Spring pointed at something he considers to be a key problem of making standards: - either to include many options into a specification and finally having no standard anymore - or to constrain having options and being able to model a solid standard.

He added he considers all IPTC members representatives participate in the standardisation work primarily for business reasons and not for engineering reasons only.

Stuart Myles said regarding conformance:

He thought the individual provider will decide which component or feature is covered by a "basic" and an "power" conformance level – in the presentation it was said this is to be decided by the IPTC.

The WP Chairman responded: the IPTC decides whether a component is in the "basic" or "power" level – the provider can decide to use the extended capabilities of the power level or not.

Stuart Myles proposed the IPTC members should be asked whether the current process of developing standards is appropriate.

Misha Wolf said he could not imagine how to get things done without a discussion between meetings. We have to balance available resources and the requirement to accomplish work.

The WP Chairman added currently about 10 persons are involved into the actual development work.



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3 News Management Working Group (Stuart Myles)

The WG chair made a presentation of the work of the News Management working group – see slides 1 through 18 as Appendix 2 to these minutes.

DISCUSSION:

Misha Wolf asked if an item could opt out the management component?

The WG chair: yes and no, the component could not be opted out but everything except the identifier is optional.

Misha Wolf said if the status is part of a generic management component the allowed values have to be reviewed – for TopicItems a status like "retired" is required.

Karl Oanes asked if a mechanism for tracking distribution will be part of the management component.

The WG chair said this feature should only cover some kind of chaining of providers which were involved in the syndication process and this will not be part of the management component as this is a distribution issue.

He added IPTC standards can not solve the issue of checking business rules and the completeness of packages.

Darko Gulija said a "publishing" and a "rights" component could help for the case Karl raised.

The WG chair added currently no work is done on implementing something specific for a rights component.

Darko Gulija asked how to deal with indicating "outdated" news (e.g. a package of "today's headlines" is not up to date tomorrow anymore)

The WG chair replied saying this would not be in the scope of management but rather in the scope of a "publishing" component.

Information about an embargo would be part of the management component, but would be expressed as a date, not as a status value.

Then it was discussed how to address the issue of allowing to store items in DBs easily without the requirement to update them for embargo state changes.

4 News Structure Working Group (Laurent Le Meur)

The WG chair made a presentation of the work of the News Structure working group – see slides 1 through 19 as Appendix 3 to these minutes.

Slide #10: Misha Wolf said

DISCUSSION:

Misha Wolf asked how Reuters' "Headlines" fit into this structure.

The WG chair replied this is a kind of General News and should be covered by NewsML.

5 Common Components Working Group (Johan Lindgren)

The WG chair made a presentation of the work of the News Structure working group – see slides 1 through 13 as Appendix 4 to these minutes.



Slide #9:

The WG chair emphasised the Common Components are for IPTC internal use only, they should not be available as discrete elements to the public outside.

DISCUSSION:

Stuart Myles asked how to reuse other non-IPTC standards.

The WG chair said we have to think about how to incorporate external standards, but currently this is left to the requirements expressed for such a component.

And we should be aware not to get involved with the development and maintenance of these standards – how would changes to these standards affect the IPTC component?

Stuart Myles pointed at Digital Rights Management standards and said he thinks this is a good candidate for such a common component.

Laurent Le Meur said we could think about an IPTC wrapper for external data structures.

Then the nature of metadata about a location or person were discussed:

- is this a common component

- or is it a kind of content component = a variant of a topicItem.

It was said if this is comprehensive information about a location or person it should be designed as a kind of topicItem.

But there is also a need for a construct inside e.g. a newsItem to reference this person or location related topicItem if the news content is about this person or content.

Finally the WG chair introduced the Common Components Model working document which can be downloaded from the Files section of the News Architecture Yahoo group.

6 News Metadata Framework Working Group (Misha Wolf)

The WG chair said the work of this group was in an idle state for some time but commenced to be at full power in February.

Then he made a walk through of version 8 of the News Metadata Framework Business Requirements document (DRAFT-NAR_1.0-spec-NMDF-BusinessRequ_8.doc) as available in the Files section of the News Architecture Yahoo group.

Finally he invited to join the Yahoo group on NMDF.

DISCUSSION:

Laurent Le Meur pointed at the extended approach to associate topicItems with content in this new framework. In the scope of NewsML1 only a topic inside a TopicSet could be referenced, now each topic should be a completely independent entity and it will be possible to assign associations also among topics creating some kind of network of topics this way.

Stéphane Guérillot: will the TopicSets survive?

The WG chair said the group is currently in the process of soliciting for requirements – so no decision made yet.



7 Presentation and discussion of the consultant's "Architecture discussion document"

Jay Cousins gave a presentation on the "Architecture discussion document" (available in the DRAFT-NAR_1.0-doc-ArchitectureDiscussionDocument_9.zip – package in the Files section of the News Architecture Yahoo group) – see slides 1 through 58 as Appendix 5 to these minutes.

After the presentation of the document Jay Cousins showed the decisions points arising from this document to the IPTC members. (Slides #53 through #57).

DISCUSSION:

- How to deal with these decisions as they require a lot of detailed considerations on very specific technology issues.
- It was proposed to extend the timeline for the project to allow the IPTC to discuss these decisions points for about two weeks after the meeting.

The WP Chairman said this discussion will be continued on the next day in an available time slot in the afternoon.

[continued discussion on 4 March 2005]

The WP Chairman showed a working document with current draft decisions for the points raised by the consultants.

This document was updated in the session to be presented to the Standards Committee on the final day of the Spring Meeting.

8 Any Other Business

There was no other business.

9 Date and Place of Next Meeting

6-9 June 2005, London, Bonnington Hotel in Bloomsbury

continued: Document Appendix 1,2,3,4 and 5 (+ 25 pages) >>>



	Managen	nent Committee									
ing)	Standards Committee										
ual General Meet	News Architecture WP	News Structure WG News Management WG Common Components WG News Metadata Framework WG	NewsML WG	EventsML WG	SportsML WG	ProgramGuideML	NITF Maintenance WP NewsML 1 Maintenance WP				
(Ann			News Content WP				NewsCodes WP				





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NAR Goals

- Make it simple (for basic needs)
- Make it powerful (for high level needs)
- Make it easy to understand (clear concepts, ease of adoption)
- Make it modular (reuse btw IPTC standards)
- Make it interoperable (standard processing) (*)
- Make it extensible (for providers) (*)
- Do not reinvent the wheel (use other standards when available)
- Think forward (evolutivity)
- == Make it a worldwide standard ==

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NMDF levels plus at the level of each standard.

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Mails & Conference calls

- Discussions of dev forums (*)
- Conference call each Friday

 Goal = reach agreement on subjects already discussed by mail
 - Each WG in turn
 - ~ 14:00 UTC
 - Advertised on the NAR-dev list with an agenda
- Notes sent to the NAR-dev after the confcall
- Please join at any moment to participate to the choices

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- Common Components: iptc-commoncomponents-dev
- News Metadata Framework: iptc-metadata-dev
- Note: the newsml forum is not used for that purpose anymore.

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Conformance levels (2)

- 'basic' level: focus on *simplicity* and *interoperability*.
- 'power' level: focus on capability to fulfill *high level needs* of the news industry, and *extensibility*.
- The 'power' level is an *extension* of the 'basic' level; but it is not a 'do what you want' spec
- Requirement: to find a smart balance btw the features found at each level

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• Target: a 80/20 ratio for implementers.





IPTC SPRING MEETING

News Management Working Group Thursday, March 3, 2005

> Stuart Myles Dow Jones & Company Inc <u>smyles @WSJ.com</u>

News Management Working Group

No minutes...

Agenda

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3

5

- News Management
- The current solutions in NewsML, NITF, etc.

2

4

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 Discussion of the proposed management component

News Management

- Often, news providers need to modify a news object which they have previously sent to a customer.
- For example, they may correct a headline, expand upon the body of a story or delete a piece of news altogether.
- This process of updating, deleting and modifying is known as "news management".
- IPTC needs to provide facilities for developing news over time

News Management

- Different news providers may have different news management policies
- The mechanisms that the IPTC provides must allow for providers and their customers to implement a variety of procedures
- News management isn't simple or obvious
- Defining sophisticated means of news management is important to the success of IPTC standards

IPTC News Management Today

- Currently, News Management is implemented within each IPTC standard
- For example, NewsML 1.X and NITF each provide their own news management facilities
- As other standards are created, such as EventsML and SportsML, they also need their own management mechanisms

IPTC News Management Today
NewsML 1.X manages the evolution of News Items via several different mechanisms sprinkled throughout the DTD

- Various types of identifier (newsidentifier, duid, euid, etc.)
 The NewsManagement element with type, history, status
- and relationship information
- The Update element
- The Instruction element
- NITF has three "management" attributes within the docdata element, plus a "correction" element

IPTC News Management Today

- News management facilities within NewsML are uneven
- For example, how to manage things which are not NewsItems within NewsML, such as Topic Items? EventItems?
- NITF management does not have all the facilities of NewsML, although it has similar terminology

IPTC News Management Today

- News management needs to be "reinvented" (and therefore reimplemented) for each IPTC standard
- The exact syntax and mechanisms used for news management tend to differ between standards
- Combinations of IPTC standards can lead to duplicated and overlapping news management mechanisms
- Therefore, some items within a given news document can have more than one way to manage them, whereas others have no formal management mechanism at all

Time to change news management?

- As news providers and consumers use the existing standards, the strengths and weaknesses of the management mechanisms we created before have become clearer
- The recent set of "specialized content" standards in various stages of definition have made it clearer that management needs to be applied in more than two areas
- Broader rearchitecture of the IPTC standards presents an opportunity to redefine management

Proposal: Management Component

- As part of the rearchitecture of the IPTC standards, management is now a "component"
- The management component may be included within any "item" – news item, event item, topic item, etc.
- The management component is a specialized structure that governs the creation, evolution and destruction of items

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Management Component Benefits

- A unified management model promotes interoperability between implementations
- Simplifies implementation for both producers and consumers
- A single management mechanism for all item classes encourages adoption of a wider range of IPTC item types (since it lowers the implementation hurdles)
- Future changes to the management component and its processing model will apply to all IPTC item types uniformly

An Alternative Approach

- We could have included the management properties directly within the Anyltem, so that all derived item types would have inherited them
- However, this would not work because each derived item type would have defined the management properties within its own namespace
- For example, newsml:dateFirstIssued would differ from eventsml:dateFirstIssued

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News Management Working Group • Discussion? • Any other business?











- Abstract level: an object model.
 - Defines abstract classes (structure and processing)
 - "Specialized" classes inherit from these
 - Most processing model treated inside NMAN
- Generic level: a set of cross-standards classes, for packaging and exchange.
 - A specialized class inheriting from the abstract level
 - A generic class for broadcast oriented exchange

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Packaging & exchange?



· It's up to the STA to define is which IPTC standard Package & Message classes should be described - it could be NewsML 2 or a specific standard.

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NewsMessage Used for exchange (broadcast) · Exchange (transport) properties • Different namespace / item · Contains a set of items of any kinds • Alternatives : soap, syndication feed ...

































Jay is a business process analyst and data modeller who works with XML and knowledge technologies for the creation, management, and distribution of information. Jay is Vice Chair of the AdsML Technical Working Group, and has co-edited the AdsML 1.0 and AdsML Structured Descriptions of Advertisement Objects specifications. Jay is a published technical author, having written on XML in the 'Professional Java XML' (2001) and 'Professional XML Meta Data' (2001) books published by WROX press.

Jay Cousins, RivCom & Ulf Wingstedt, CNet Page 4



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Jay Cousins, RivCom & Ulf Wingstedt, CNet









Implementation of the Conceptual Model in XML

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Jay Cousins, RivCom & Ulf Wingstedt, CNet















Guidelines for extensibility of Data Model Extensions should be clearly identified and designed in such a way that their use has minimal impact on other components and so their effect is isolated as far as possible. For instance, use of namespaces in order to allow extended content to be unambiguously identified and ignored or processed by a processor as required by the implementation

- The architecture and modularity of (common) components should be such that they
 - allow the extension of existing components with attribute or element content if required or, alternatively,
 - be such that the user can create new specific components to meet the needs of a specific domain.
- A document instance of an extended standard should be capable of validation to the same level as provided for in a non-extended standard.

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Jay Cousins, RivCom & Ulf Wingstedt, CNet













A proposed model for conformance levels

- Conformance level 0:
 Basic conformance, all base functions and connected content models must be supported.
- Conformance level 1:
 Medium level feature, likely to be implemented by many applications
- Conformance level 2:
 Advanced systems, using features important to less organizations.

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Expressing conformance in XML

- Functionality available in higher conformance levels may require elements or attributes that are defined as optional in the schema.
 The data structures are thus mandatory for the higher conformance level, but these requirements are not expressed in the schema.
- Define separate schemas for each conformance level.
 Likely confusing with several parallel version of the same standard in existence at the same time.
- A single schema can reflect requirements from different conformance levels by providing alternative content models
 E.g. by choice, substitution groups or type substitution (xsi:type).
- XML document instances should include information about which conformance level the sender expects

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Section 3.8







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Section 4



Use case walk through - XML Spy Specific Item.xsd The CarML Schema Namespace Specific Item classes
Car extension of AnyltemType Common components Common components
 Data types – creating new data types and controlled vocabularies by restriction
 Restriction – controlled vocabulary creation and restricting to
 Restriction – creating subsets of a controlled vocabulary
 Aggregate component - restricting and extending existing components
 Restricting – StrictPersonType
 Extending - DriverType CarML - instance The PackageItem Schema The 'package' item, derived from AnyItemType Jay Cousins, RivCom & Ulf Wingstedt, CNet Page 41

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Decision points (2) Conformance Is there a need for schema enforced conformance rules or not? Versioning policy Does the proposed policy fulfill business requirements?



