G2 CR00213 make attribute cardinality explicit in XML schema

IPTC G2-Standards: Change Request document

Title: Make attribute cardinality explicit in XML Schema

Change Request number: G2 CR00213 Standard to be changed: NewsML-G2

Standard's version to be changed: 2.29 (change effected in 2.30)

Change Request History					
Version	Date	Author(s)	Notes		
1	2021-08-06	Brendan Quinn,			
2	2021-08-13	Dave Compton	Added example		
3	2021-08-27	Dave Compton	Identified possible corrections		
4	2021-09-03	Brendan Quinn	Fixed corrections pointed out by Dave and some incorrect attribute references in the table		

Typographic note

Changes to existing documents/specifications are highlighted in yellow.

Editing notes for the spec documents are highlighted in cyan.

In drafts only: Text highlighted in magenta needs further discussion

Description of the change: (free-text)

Change XML Schema so all attribute definitions explicitly state either use="required" or use="optional".

In effect, this involves adding use="optional" where there is currently no "use" attribute.

Rationale for the change:

It can be confusing or misleading to see an attribute definition in the XML Schema where the cardinality is not explicitly defined. XML Schema is defined such that the default "use" is "optional", so a missing "use" attribute is the same as use="optional". In some attribute definitions, we included an explicit use="optional" attribute, other times we let the definition fall back to the default.

We want our schema to be easy to read and understand, so to explicitly include the "use" attribute makes it clearer that we are deliberately making the attribute's existence optional.

Reference to related IPTC discussion(s) (on groups.io etc):

https://github.com/iptc/news-architecture-dev/issues/40

https://groups.io/g/iptc-news-architecture-dev/message/11535

Formalised change request: (spec table etc.)

Header	Value
(XML) Data Model	
Namespace (prefix)	nar
Name	
Title	
Definition	

1/10/2021, 10:54	- G2 CR00213 make attribute ca	rdinality explicit in XML schema		
User Note(s)				
Implementation Note(s)				
XML Schema Spec	At: PCL (no changes to CCL since v 2.25)			
Datatype				
Internally Ctrl Values				
Externally Ctrl Values				
·				
Attributes	optional attribute group name	Name Cardinality; Datatype; Definition		
	Framework:	Add: use="optional"		
	scheme/@authority catalog/@additionalInfo catalog/@url catalog/@uid catalog/@yersion generator/@role generator/@roleuri altRep/@representation altRep/@size hash/@hashtype hash/@hashtype hash/@scope hash/@scopeuri origRep/@accesstype origRep/@accesstype origRep/@reposrole origRep/@reposrole incomingFeedId/@role incomingFeed	use="optional"		

bag/bit/@significance

ConceptIdType/@qcode

RelatedConceptType/related/@rank

hasInstrument/@symbolsrc

hasInstrument/@symbolsrcuri

hasInstrument/@market

hasInstrument/@marketuri

hasInstrument/@marketlabel

hasInstrument/@marketlabelsrc

hasInstrument/@marketlabelsrcuri

hasInstrument/@type

hasInstrument/@typeuri

hasInstrument/@rank

circle/@radunit

circle/@radunituri

participationRequirement/@role

participationRequirement/@roleuri

location/@role

location/@roleuri

newsCoverage/@role

newsCoverage/@roleuri

ContactInfoType/web/@role

ContactInfoType/web/@roleuri

AddressType/line/@role

AddressType/line/@roleuri

AddressType/@role

AddressType/@roleuri

assignedTo/@coversfrom

assignedTo/@coversto

planning/@coversfrom

planning/@coversto

hop/action/@target

hop/action/@targeturi

hop/action/@timestamp

hop/@seq

hop/@timestamp

pubHistory/published/@qcode

pubHistory/published/@literal

BlockType/@roleuri

QCodePropType/@qcode

Flex2ExtPropType/@rel

Flex2ExtPropType/@reluri

Flex1PartyPropType/@rel

Flex1PartyPropType/@reluri

Knowledge Item:

schemeMeta/@preferredalias

schemeMeta/@authority

schemeMeta/@concepttype

News Item:

inlineData/@encoding

inlineData/@encodinguri

contentSet/@original

RemoteContentPropType/channel/@chnlid

RemoteContentPropType/channel/@type

Remote Content Prop Type/channel/@type uri

RemoteContentPropType/channel/@role

RemoteContentPropType/channel/@roleuri

Remote Content Prop Type/channel/@language

	RemoteContentPropT PackageItem: groupSet/group/@role groupSet/group/@role	e			
Child elements	optional element group name	Name	Cardinality		
XML Schema Note(s)					
Example(s)	scheme /@authority Currently: @use is implicit: optional <xs:attribute name="authority" type="IRIType"> <xs:annotation> <xs:documentation>Defines the authority controlling this scheme</xs:documentation> </xs:annotation> </xs:attribute> Proposed: explicit @use <xs:attribute name="authority" type="IRIType" use="optional"> <xs:annotation> <xs:documentation>Defines the authority controlling this scheme</xs:documentation> </xs:annotation> </xs:attribute>				

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