

IPTC Standards



Quick Start Guide to NewsML-G2 Basics

Public Release

Document Revision 1.1

International Press Telecommunications Council
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Quick Start: NewsML-G2 Basics

About the Quick Guides

This Quick Guide is intended to give implementers enough information about NewsML-G2 to begin creating a useful working set of model NewsML-G2 documents for their organisation, or to begin working with G2 documents provided by another organisation. This Guide covers the G2 features that are common to most types of content. Further Quick Guides give more specific information about conveying types of content: text, pictures, video, and news packages.



This symbol indicates especially important notes or cautions to implementers. Please read the Terms of Use for this document.

Introduction

The basic structure of a NewsML-G2 Item document is common to all applications. The available types of G2 Item are:

- News Item: for all kinds of news content.
- Package Item: for structured collections of news content.
- Concept Item: for expressing knowledge about entities, abstract concepts, and events.
- Knowledge Item: for collections of concepts, often grouped for a specific purpose such as Controlled Vocabularies.
- Planning Item: for exchanging information about news coverage and fulfilment.
- Catalog Item: for managing references to Controlled Vocabularies.

Item structure

The building blocks of a NewsML-G2 Item are shown in the diagram below:

Catalog		
Rights metadat	a	
Metadata about	the Item as a whole	
Metadata about	all or part of the Item content	
Helper structur	es	
The content of	the Item	

All G2 Items share this basic container structure

All have a root element that is specific to the type of Item that contains identification, version and some basic information to initiate the G2 processor.

The Catalog information is required to resolve QCodes, a fundamental feature of NewsML-G2 that enables partners to guarantee that codes used within an Item are globally unique.

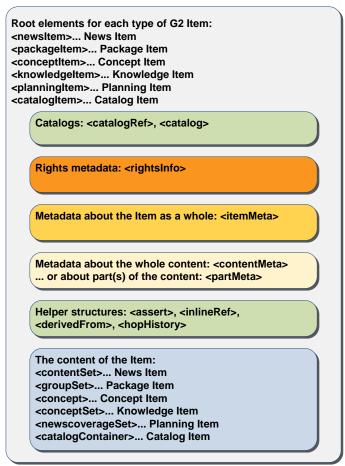


The Rights Information block allow publishers to assert fine-grained information about copyright and usage terms as human-readable statements, or by inclusion of a machine-readable rights expression language such as RightsML.

The Item Metadata wrapper contains metadata about the Item as a whole, and this is followed by metadata about whole of the content <contentMeta>, and optionally by the <partMeta> wrapper, which enables publishers to express metadata about specific parts of the content..

Optional "helper" structures are available for specialised processing needs; their use is covered in *Chapter 24 Advanced Metadata Techniques* in the full Guidelines (link provided at the end of this document).

Each type of G2 Item has a specific wrapper element for content, shown in the diagram below, that also shows the basic top level elements common to all G2 Items:



The basic XML elements associated with each part of a G2 Item



The example in this Quick Guide to G2 Basics uses a News Item with text content to illustrate the basic principles in action. Read this guide first, and proceed to further Quick Guides specific to Text, Pictures, Video, and Packages, as needed.

"Invisible" values

All NewsML-G2 documents contain some elements and attributes that have default or assumed values that allow the actual element or attribute to be omitted. These are detailed in a section entitled **Hidden Secrets of NewsML-G2** near the end of this guide.

Root element

See the diagram above for the root elements applicable to each G2 Item type

Item Identifier

All G2 Items must have a @guid, an identifier that should be globally unique for all time and independent of location. The IPTC has registered a URN namespace for the purpose of creating GUIDs for NewsML-G2 Items using a specification using a specification based on RFC3085. The syntax for a @guid using this scheme is:

```
gui d="urn: newsml : [Provi derId]: [DateId]: [NewsItemId]"
```

Use an internet domain name owned by your organisation as a ProviderId, for example:

```
<newsI tem gui d= "urn: newsml : acmenews. com: 20131121: US-FINANCE-FED"</pre>
```



Receivers of G2 Items must resist any temptation to "reverse engineer" the Dateld part of a GUID to create a time-stamp. This may have unintended consequences and result in errors. Use the appropriate G2 timestamp property instead.

Version

A simple indicator of the version of the Item:

```
versi on= "3"
```

Version numbers need not be consecutive, but must START at 1, and a new version must be a higher number than the previous version. If version is missing, the value is assumed to be 1. See **Hidden Secrets of NewsML-G2**, below

Standard

A string denoting the IPTC Standard, in this case "NewsML-G2".

```
standard="NewsML-G2"
```

Standard Version

A string denoting the major and minor version of the Standard being used:

```
standardversi on= "2. 15"
```

Conformance

There are two levels of Conformance to the NewsML-G2 standard. The "Core" conformance level (CCL) represents a minimal sub-set of G2 that can usefully get work done, and is the default if @conformance is omitted. In practice, many implementers use the properties of "Power" conformance (PCL). If an implementer stays within the CCL, the @conformance of the G2 Item can be assumed and omitted, but must be declared if using PCL:

```
conformance= "power"
```

Language

Setting the default language of XML elements with text content in NewsML-G2 is UK English:

```
| xml : l ang= "en- GB"
```

Putting this together, the required root element attributes are:

```
<newsI tem gui d= "urn: newsml : acmenews. com: 20131121: US-FINANCE-FED"
  versi on= "3"
  standard= "NewsML-G2"
  standardversi on= "2. 15"
  conformance= "power"
  xml : l ang= "en-GB">
```

Validating code

When developing a NewsML-G2 processing application, implementers will need to validate the generated G2 code against the appropriate schema. To validate code at PCL against the latest version of the NewsML-G2 specification (2.15) add the following code to the <newsltem> element:

```
xml ns="http://iptc.org/std/nar/2006-10-01/"
xml ns: xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi: schemaLocation="http://iptc.org/std/nar/2006-10-01/
http://www.iptc.org/std/NewsML-G2/2.15/specification/NewsML-G2_2.15-spec-All-Power.xsd"
```

To validate at CCL, substitute the name of the "Core" schema:

```
NewsML-G2_2. 15-spec-All-Core. xsd
```

The IPTC does NOT permit validation of production documents against XML Schema files on the IPTC servers.

The IPTC also recommends NOT validating production documents as this will create dependencies on external resources such as schema files and this could introduce points of failure in the processing of G2 Items.

Catalogs

 \mathbb{W}_{2}

Codes, short mnemonics used to represent properties such as Category, are a long-established feature of news exchange. QCodes are the NewsML-G2 mechanism that enables partners in news exchange to guarantee that codes are globally unique. Without going into details of the mechanism here, the News Item <catalog> enables a G2 processor to resolve QCodes, and guarantee that uniqueness, by mapping the code to a globally-unique URI. It is recommended that this URI locates a web resource.

One of the few mandatory NewsML-G2 elements, <itemClass>, uses QCodes issued by the IPTC to identify the business intention of the Item. For a News Item, the scheme is News Item Nature, with a recommended alias of "ninat". Values from the scheme include "ninat:text" and "ninat:picture". The catalog reference is:

```
<catal og>
     <scheme alias="ninat" uri="http://cv.iptc.org/newscodes/ninature/" />
</catal og>
```

Other types of G2 Item use specific schemes for the <itemClass> property.

As the CVs used by a provider are usually quite consistent across the NewsML-G2 Items they publish, the IPTC recommends that the <catalog> references are aggregated into a stand-alone file which is made available as a web resource referenced by <catalogRef>. This is how the IPTC publishes its Catalogs:

```
<catal ogRef
href = "http://www.iptc.org/std/catalog/catalog.IPTC-G2-Standards_22.xml" />
```

The use of stand-alone web resources is preferable because all of the QCode mappings are shared across many G2 Items; a local <catalog> can only be used by the single Item.

It's likely that provider-specific catalogs will be needed to resolve QCodes used in the Item, for example:

```
<catal ogRef
href="http://www.example.com/newsml-g2/catalog.enews_2.xml" />
```

Adding the Catalog information to the example results in the following:



Rights information

The optional <rightsInfo> wrapper holds copyright information and usage terms, such as the following example:

Item Metadata <itemMeta>

Mandatory Properties

The mandatory <itemMeta> section has four mandatory elements, present in the following order:

Item Class

As previously mentioned, the <itemClass> property describes the type of content conveyed by the Item. It is mandatory to use one of the IPTC News Item Nature NewsCodes (recommended Scheme Alias: "ninat") for the Item Class of News Items and Package Items, expressed as a QCode:

```
<itemClass qcode="ni nat: text" />
```

Possible values from this scheme include "ninat:picture", "ninat:video" and "ninat:audio".

Provider

Can be represented by a QCode, or a URI. If the value of this property is NOT taken from a controlled vocabulary, the @qcode or @uri will be omitted and the child <name> element used to give a human-readable value for the property. The IPTC recommends using a QCode with the Provider NewsCodes, a controlled vocabulary of providers registered with the IPTC with recommended Scheme Alias of "nprov", for example:

Version Created

This contains the date, time and time zone (or UTC) that *this version* of the NewsML-G2 *Item* was created. The value must be expressed as XML Schema datetime:

YYYY-MM-DDThh:mm:ss±hh:mm

```
<versi onCreated>2013-11-21T16: 25: 32-05: 00</versi onCreated>
```

The -05:00 denotes U.S. Eastern Standard Time offset from UTC

Publication Status

Every G2 Item must have a publication status. The value defaults to "usable", which permits the <pubStatus> property to be omitted if desired, however it is recommended that a value is explicitly given:

```
<pubStatus qcode="stat:usable" />
```

Publication status is highly likely to be used by most news agencies, because the ability to explicitly signal the status of news is essential. The use of the IPTC Publishing Status NewsCodes is mandatory. Its recommended alias is "stat". Other values permitted by the scheme are:

- stat:canceled. (Note U.S. spelling). This means that the content of the newsltem must not be used,
- stat:withheld means the content must not be used until further notice.



When an Item is cancelled, it must never be used, but an Item that has been withheld may subsequently have its status updated to "usable". For further information on processing rules, see section 25.2 *Publishing Status* in the main Guidelines.

Optional Properties

The following optional properties are frequently used by G2 providers.

First Created

The <firstCreated> element indicates when first version of the Item (not the content) was first created.

```
<firstCreated>2010-10-18T13: 12: 21-05: 00</firstCreated>
```

Embargoed

Business-to-business news organisations often use an *embargo* to release information in advance, on the strict understanding that it may not be released into the public domain until after the *embargo time* has expired, or until some other form of permission has been given.

Embargoed is NOT the same as the Publishing Status; embargoed content should have a publishing status of "usable".

```
<embargoed>2013-10-23T12:00:00Z</embargoed>
```

It is not required to give any further information about the embargo conditions, but some providers may provide a natural language <edNote>, see below.

Service

The <service> element allows the provider to declare which of its services delivered this package, using a Controlled Vocabulary:

```
<servi ce qcode="svc: uknews">
    <name>UK News Servi ce</name>
</servi ce>
```

Editorial Note

The <edNote> element contains a non-publishable note that is intended to be read by internal staff at the receiving organisation; in this example, some optional information about the release condition imposed by the <embargoed> element:

```
<edNote>
Note to editors: Updates previous version, adding more eye-witness reporting.
</edNote>
```

Signal

Additional processing instructions can be given using <signal> and its @qcode. This example uses the IPTC Signal NewsCodes (recommended Scheme Alias "sig") that advises the end-user that this Item updates a previous versions of the Item:

```
<si gnal qcode="si g: update" />
```

The other value in the Signal scheme is "correction". There is further information on giving fine-grained information about signalling the reason and impact of updates in the section 25.6 Processing Updates and Corrections in the main Guidelines.

Link

The k> element has two basic purposes:

- To assert relationships to other Items, such as a previous version of an Item
- ❖ To create a navigable link from an Item to some supporting or additional resource.



This example provides a "see also" link to a resource on the Web that end-users can view to get further information about the event. @rel is used to denote the reason that the link is provided. In this example, the QCode uses the recommended IPTC Item Relation NewsCode with a recommended Scheme Alias of "irel" and the code value is "seeAlso":

```
k rel="irel:seeAlso"
href="http://www.example.com/video/20081222-PNN-1517-407624/index.html"/>
```

Completed Item Metadata

```
<i temMeta>
  <itemClass qcode="ninat:text"</pre>
  code = "nprov: REUTERS" />
  <versi onCreated>2013-11-21T16: 25: 32-05: 00</versi onCreated>
  <firstCreated>2010-10-18T13: 12: 21-05: 00</firstCreated>
  <embargoed>2013-10-23T12: 00: 00Z</embargoed>
  <pubStatus qcode= "stat: usable"</pre>
  <servi ce gcode="svc: uknews">
     <name>UK News Service</name>
  </servi ce>
  <edNote>
     Note to editors: STRICTLY EMBARGOED. Not for public release until 12noon
     on Wednesday, October 23.
  </edNote>
  <signal qcode="sig:update" />
  d i nk rel = "i rel : seeAl so
     href="http://www.example.com/video/20081222-PNN-1517-407624/index.html"/>
</itemMeta>
```

Content Metadata < contentMeta>

Conceptually, there are two kinds of content metadata: Administrative and Descriptive.

Administrative Metadata

This is information about the content that cannot necessarily be deduced by examining it, for example: when it was created and/or modified. Administrative properties that are widely used by implementers of G2 for editorial content are:

- Timestamps (Created, Modified)
- Story location (Located)
- Creator
- Information Source

Timestamps

The <contentCreated> timestamp corresponds to a "Created on" field of the story, and is expressed in NewsML-G2 as Truncated DateTime data type, meaning that the date-time elements may optionally be stripped, starting from the right. If required, the <contentModified> property may also be used to contain the "Last Edit" timestamp. This must be later than the Created timestamp.

```
<contentCreated>2013-11-21T15: 21: 06-05: 00</contentCreated>
<contentModi fi ed>2013-11-21T16: 22: 45-05: 00</contentModi fi ed>
```

Located

The place that the content was created uses the <located> element, but note that this is not necessarily the place of the event or subject. For example, for a UK story written in the London office, <located> would be "London"; a picture of Mount Fuji taken from downtown Tokyo would have a <located> property of "Tokyo".

The semantics of <located> are similar to the natural-language location carried in the dateline that often prefaces news (such as "BERLIN, October 24") but can be conveyed more precisely, and in terms that may be more readily processed by software, using a @qcode or @uri:



The optional @type uses a controlled vocabulary to indicate the nature of the location being expressed; in the example this indicates that <located> refers to a city.

Broader, Narrower

Both Located and Subject (below) contain child elements that express a specific relationship between entities or concepts. For example, the content originated in the city of Berlin and the <located> element shows that the city of Berlin has a "broader" relationship – that is a child-to-parent relationship – to Berlin the state, and to Germany the country:

Creator

The writer, photographer or other author of content is expressed using the <creator> element:

Information Source

The <infoSource> property, together with its optional @role, enables finely-grained identification of the various parties who provided information used to create and develop an item of news. If absent, the default value of @role is the originator of the information used to create or enhance the content. For a detailed view on using <infoSource> see the Guidelines Chapter 26 Identifying Sources and Workflow Actors.

```
<i nfoSource uri = "http://www.example.com/pressreleases/201311/newproducts.html" />
```

Descriptive Metadata

These properties set the context of news content in relation to other news by describing and classifying it. Information that has historically carried within the content itself, such as the headline and by-line (for text) or embedded metadata (pictures) may also be isolated as metadata. The practical benefit is that the end user no longer needs to scan or retrieve the actual content in order to process it. None of the Descriptive Metadata properties is mandatory, but the following feature frequently in G2 implementations.

Subject

The subject matter of content uses the <subject> element. When the value of the Subject is taken from a Controlled Vocabulary, this is identified using either a @qcode or @uri:

```
<subject type="cpnat: abstract" qcode="medtop: 20000523" />
or
<subject uri = http://subject.example.com/employment.html />
```

For concepts not taken from a CV, the identifier is omitted and the name of the concept is given in the child <name> element, for example:

The optional @type uses the IPTC "nature of the concept" NewsCodes (recommended scheme alias "cpnat") to indicate the type of concept being expressed, for example, an abstract concept, that is a concept that does not represent a real-world entity, but something like an idea, or news category.

```
</subject>
```

The above example uses a concept from the IPTC Media Topic NewsCodes. Also note the use of the W3C XML attribute xml:lang that expresses the language used for the element's value. It is also possible to add relationships to related concepts, as shown above in <located>. For example:

```
<subj ect type="cpnat: abstract" qcode="medtop: 04000000">
   <name xml:lang="en-GB">economy, business and finance</name>
</subject>
<subject type="cpnat: abstract" qcode="medtop: 20000523">
   <name xml:lang="en-GB">labour market</name>
<name xml:lang="de">Arbeitsmarkt</name>
<br/>
<br/>
<br/>
<br/>
chroader qcode="medtop: 04000000" />
                                                                              relationship property
```

The IPTC highly recommends that providers use the Media Topic NewsCodes unless there is an over-riding requirement to use proprietary codes. This promotes inter-operability and standardisation in news exchange. It is also recommended that if a <name> is used in conjunction with a QCode, then the value of the <name> property agrees with the value in the Scheme for the language specified in xml:lang. IPTC NewsCodes are provided in UK English (en-GB) and translations in French and German have been provided by IPTC members.

The "medtop" code prefix is the recommended Scheme Alias for the Codes, which is resolved via the IPTC Catalog (see < catalogRef >, above) to the Scheme URI http://cv.iptc.org/newscodes/mediatopic/ This is guaranteed to be globally unique because it is part of the Internet Domain controlled by the IPTC. Appending the code "04000000" to the Scheme URI forms a Concept URI that cannot be confused with a concept with the same code from another source.

When using @type to indicate the nature of the concept, the possible values from the IPTC Concept Nature NewsCodes are:

- Abstract: a concept that does not represent a real-world entity
- Event
- geoArea: a geo-political area
- Object: A real-world object, such as a painting; an aircraft
- Organisation
- Person
- Point of Interest

Genre

The <genre> element indicates the style of the content, in this example "interview" as a property that is distinct from <subject> that is used to indicate the subject matter of content. In the example, the IPTC Genre NewsCode for "Interview" is used:

```
<genre qcode="genre:interview">
  <name xml: lang="en-GB">Interview</name>
</genre>
```

Slugline

Some news services implemented in G2 retain the <slugline> property as a human-readable index for legacy reasons; therefore receivers may sometimes see this property. However, it has never been a completely reliable identifier, and it is recommended that more purposeful identifiers that are also machine-readable are implemented in its place.

```
<sl ugl i ne>US- Fi nance- Fed</sl ugl i ne>
```

Headline

Even if the Headline is carried inline in text content, it is useful to place it in metadata so that it can more easily be identified and extracted by the end-user:

```
<headline> Fed to halt QE to avert "bubble"</headline>
```

Completed Content Metadata

```
<contentMeta>
   <contentCreated>2013-11-21T15: 21: 06-05: 00</contentCreated>
   <contentModi fi ed>2013-11-21T16: 22: 45-05: 00</contentModi fi ed>
   <located type="cptype: city" qcode="geo: 345678">
      <name>Berlin</name>
      <brooder type="cptype: statprov" qcode="prov: 2365">
         <name>Berlin</name>
      </broader>
      <br/>cbroader type="cptype: country" qcode="iso3155-ia2: DE">
         <name>Germany</name>
      </broader>
   </located>
   <creator uri = "http://www.example.com/staff/mjameson" >
      <name>Meredith'Jameson</name>
   <infoSource uri = "http://www.example.com" />
  </subject>
  <subject type="cpnat: abstract" qcode="medtop: 20000523">
    <name xml:lang="en-GB">labour market</name>
    <name xml:lang="de">Arbeitsmarkt</name>
    <broader qcode="medtop: 04000000" />
   </subject>
  <genre qcode="genre: interview">
<name xml:lang="en-GB">Interview</name>
   </genre>
   <sl ugl i ne>US- Fi nance- Fed</sl ugl i ne>
   <headline> Fed to halt QE to avert "bubble"</headline>
</contentMeta>
```

Content

The content of a NewsML-G2 document varies according to its Item type: the example below shows a News Item with a <contentSet> wrapper containing a trivial text payload. Following this code example are skeletal examples showing the other options for conveying content in G2 News Items and Package Items:

```
<?xml versi on="1.0" encodi ng="UTF-8"?>
<newsI tem gui d="urn: newsml: acmenews. com: 20131121: US-FINANCE-FED"</pre>
  versi on="3"
  standard="NewsML-G2"
  standardversi on= "2. 15"
  conformance="power" xml:lang="en-GB" xml s="http://iptc.org/std/nar/2006-10-01/">
  <catal ogRef
     href="http://www.iptc.org/std/catalog/catalog.IPTC-G2-Standards_22.xml"/>
  <catalogRef href="http://www.example.com/newsml-g2/catalog.enews_2.xml" />
  <ri ghts Info>
      <copyrightHolder uri="http://www.example.com/about.html#copyright" >
         <name>Example Enews LLP</name>
      </copyrightHolder>
     <copyrightNotice>
  (c) Copyright 2013 Example Enews LLP, all rights reserved
      </copyrightNotice>
      <usageTerms>
         Not for use outside the United States
      </usageTerms>
  </rightsInfo>
  <i temMeta>
     <itemCl ass qcode= "ni nat: text" />

<p
     <embargoed>2013-10-23T12: 00: 00Z</embargoed>
     </servi ce>
     <edNote>
         Note to editors: STRICTLY EMBARGOED. Not for public release until 12noon
         on Wednesday, October 23.
     </edNote>
      <signal qcode="sig: update" />
     link rel = "irel: seeAl so
```



```
href="http://www.example.com/video/20081222-PNN-1517-407624/index.html"/>
  </itemMeta>
  <contentMeta>
     <contentCreated>2013-11-21T15: 21: 06-05: 00</contentCreated>
     <contentModi fi ed>2013-11-21T16: 22: 45-05: 00</contentModi fi ed>
     <located type="cptype: city" qcode="geo: 345678">
         <name>Berlin</name>
         <brooder type="cptype: statprov" qcode="prov: 2365">
            <name>Berlin</name>
         </broader>
        <br/>der type="cptype: country" qcode="iso3155-ia2:DE">
            <name>Germany</name>
         </broader>
     </located>
     <creator uri = "http://www.example.com/staff/mjameson" >
<name>Meredith Jameson
     </creator>
     <infoSource uri = "http://www.example.com" />
<subject type="cpnat: abstract" qcode="medtop: 04000000">
         <name xml:lang="en-GB">economy, business and finance</name>
     </subject>
     <subject type="cpnat: abstract" qcode="medtop: 20000523">
    <name xml:lang="en-GB">labour market</name>
    <name xml:lang="de">Arbeitsmarkt</name>
    <broader qcode="medtop: 04000000" />
     </subject>
     <genre qcode="genre: interview">
<name xml:lang="en-GB">Interview</name>
     </genre>
     <slugl i ne>US- Fi nance- Fed</slugl i ne>
     <headline> Fed to halt QE to avert "bubble"</headline>
  </contentMeta>
  <contentSet>
     <inlineXML contenttype="application/nitf+xml"> <!-- A VALID MIME TYPE</pre>
                                                                                                    -->
        <! - -
                       Inline XML must contain well-formed XML such as XHTML
     </iinlineXML>
  </contentSet>
</newsItem>
```

News Content options for News Items and Package Items

The News Item < contentSet > contains a single logical piece of content, but allows alternative renditions of the SAME content to be carried in a single G2 Item:

Package Item content is wrapped by the <groupSet> element, which can contain one or more <group> children. Each Group contains references to Items that make up the News Package, using the <itemRef> element. A Group can also reference other Groups via the <groupRef> element.



Summary and Next Steps

This section has covered the basic structure that is common to all G2 Items, and also outlined properties that are commonly used for news content. Further Quick Guides show how to build upon this foundation:

Quick Start – Text takes an example news story and shows how the information on an editor's screen would be implemented in NewsML-G2.

Quick Start – Pictures takes an example image and its embedded metadata and converts this to a G2 properties with several image renditions carried in a single G2 Item. The guide also shows how to express the various technical characteristics of images using G2 properties.

Quick Start – Packages shows how G2 Items and other kinds of content can be assembled into Packages of managed objects with an explicit structure.

Hidden Values of NewsML-G2

There are some default values set by the specification which allow an element or attribute to be omitted and the default assumed. The list below shows NewsML-G2 properties and attributes which may not appear in an Item but for which a usable value or status exists.

All G2 items

- @version of the root element = "1"
- @conformance of the root element = "core"
- <embargoed> = no embargo
- <pubStatus> = "usable"
- <catalog> and <catalogRef> = one is required; many of either, or a mix of both may be used
- @scope of <hash> = "content". Hash value is a message digest included in the Item for security purposes. A hash scope of "content" indicates that the hash value was derived by hashing the content only.
- @how (attribute of many properties) = "person". The attribute indicates how the value was extracted from the content: by a person
- @custom (attribute of many properties) = "false". The attribute indicates that the property was added specifically for a customer or group of customers
- @dir (many properties) = "ltr". The directionality of the script of the language of the property is left to right.

News Items only

- @timeunit (when @duration is used) = "seconds"
- @dimensionunit (when @width/@height is used) = (for example) pixels for a still picture. See the Quick Start Guide - Pictures for details.
- @encoding of <inlineData> = "base64". This is the default binary encoding for Inline Data.

Package Item only

• @mode of the <group> = "bag" - an unordered collection of complementary components

Further NewsML-G2 Resources

For more comprehensive information about G2 implementation than is covered by these Quick Guides, the full Guidelines for NewsML-G2 Implementers is here:

http://www.iptc.org/std/NewsML-G2/2.15/documentation/IPTC-G2-Implementation Guide 6.0.pdf

This includes more detailed "How To" topics to help implementers with more complex needs, and also covers subjects such as creating and managing Catalogs and Controlled Vocabularies, conveying multiple G2 Items in News Messages, and using Planning and EventsML-G2 for news management and fulfilment.

For a complete technical description of all G2 properties and help with processing models, the NewsML-G2 Specification documents are located here:

http://www.iptc.org/std/NewsML-G2/2.15/specification/

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