



AP WebFeeds 2.5

Developer's Guide

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Important: To search this guide, choose **Edit** → **Find** in Adobe Acrobat.

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Introduction

This guide is intended for software engineers who develop tools for processing AP news feeds.

About AP WebFeeds

The AP WebFeeds system is part of the new generation of the AP's content distribution platform, which provides your organization with greater control over when and what content is received from the AP. AP WebFeeds delivers the last three days worth of news content to your organization via an HTTP feed for easy integration with your service or application.

The content is supplied as XML in the AP ATOM format. AP ATOM is the ATOM 1.0 format with additional metadata inserted by the AP and embedded links to news stories and media files (photos, graphics, audio or video). Stories are provided in NITF 3.4 and optionally ANPA, IPTC 7901 or hNews formats. NITF-formatted stories contain links to suggested media if this content is available and if your account is authorized to view it. The AP ATOM feed may also include external links to the AP Online Video Network (OVN) and third-party Web sites. For more information, see "AP ATOM Feeds and Metadata" on page 15.

Feeds can be created for AP products and packages to which your organization is entitled and/or from saved searches that have been created in AP Exchange. Products, packages and saved searches are collectively called *entitlements* later in this document.

To capture and process a feed, you must write a custom program that makes Web requests to the AP WebFeeds server, retrieves the feed items and saves them along with any suggested media to your content management system (CMS), file system or database. For more information, see "AP WebFeeds Delivery" on page 3.

Note: Alternatively, you can use AP WebFeeds Manager (WFM), an out-of-the-box product that offers a wide variety of configuration options to meet your needs and allows you to start downloading content right away. For more information, see the AP WebFeeds Manager Online Help.

AP WebFeeds Delivery

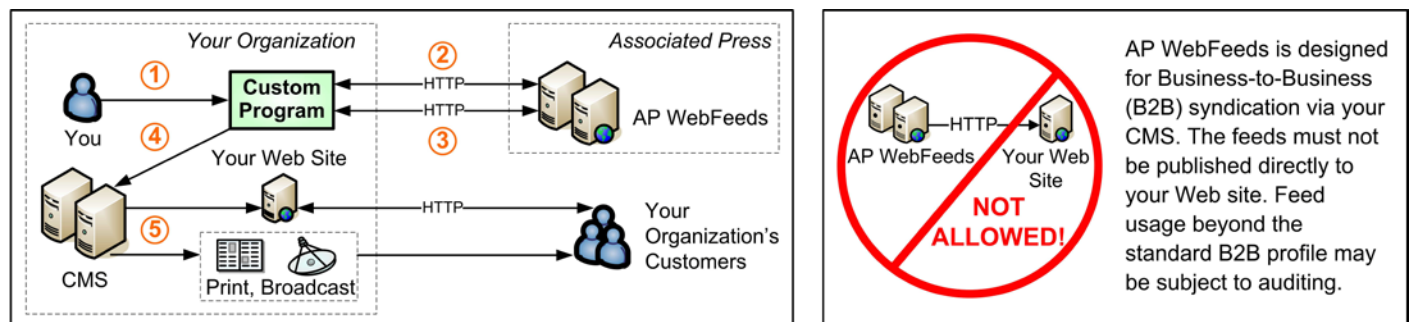


Figure 1: AP WebFeeds Delivery

The following steps correspond to the AP WebFeeds delivery flow shown in Figure 1.

1. You write a custom program for capturing and processing a feed. For more information, see "Requesting and Processing Feeds" on page 5.
2. Your custom program retrieves the list of your entitlements from the AP WebFeeds system. For more information, see "Retrieving Your Entitlements" on page 9.
3. Your custom program requests content from the AP WebFeeds system at regular intervals. For more information, see "URL Syntax and Parameters for a Feed Request" on page 6.
4. Your custom program saves the requested content to your CMS.
5. Once the content is in the CMS, it can be published to your Web site or through your other distribution channels, such as print and broadcast.

What's New in Version 2.5

- **Support for the latest version of hNews.** hNews-formatted stories delivered by AP WebFeeds 2.5 comply with the latest version of hNews. For more information about the hNews format, please visit <http://microformats.org/wiki/hNews>.
- **Identifying entitlements represented by feed entries.** This document now explains how “EntitlementMatch” values can be helpful to AP members and customers who receive feeds for multiple media entities (for example, multiple newspapers), process this content in a centralized publishing environment and route it to entities based on their product entitlements. For more information, see “Identifying Entitlements Represented by Feed Entries” on page 14.

Technical Support

Known Issue

NITF-formatted stories linked to the AP ATOM feed may contain non-resolving links to suggested graphics from Graphics Bank.

Related Documents and Locations

For more information, please refer to the following documents that are available in the AP WebFeeds section of the AP Customer Support Site at <http://customersupport.ap.org>:

- *AP WebFeeds and WebFeeds Manager Frequently Asked Questions*
- *AP Classification Metadata Guide*
- *AP Exchange Content Ingestion Guide*
- *AP WebFeeds ANPA Delivery Reference Guide*

AP WebFeeds Manager Online Help is available by clicking the Help link at the WFM portal at <http://wfm.ap.org>.

Contacting Support

For technical help, contact AP Customer Support:

- Phone: **877-836-9477** (U.S. toll-free number) or **212-621-7361** (from outside of the U.S.)
- E-mail: APCustomerSupport@ap.org
- Web site: <http://customersupport.ap.org>

To comment on this Developer's Guide, send an e-mail message to documentation@ap.org.

Requesting and Processing Feeds

Capturing and processing a feed involves making the feed request, retrieving the feed items and saving them along with any suggested media to your file system, database or CMS/production system. You must write a program that makes Web requests to the AP WebFeeds server and processes the returned XML responses. Successful programs can be written in almost any language that is capable of making Web requests, such as Perl, PHP, Python, Java or any Microsoft .Net language. The program must use basic Web requests and responses and must be capable of parsing XML.

Authentication

To authenticate all feed and content requests, the AP WebFeeds system uses HTTP Basic Authentication, which is currently the standard for syndicated feeds. Most feed readers and reader components allow the configuration of user credentials ahead of time and pass them in the headers rather than in the URL.

Important: *Passing the credentials directly in the URL is currently widely blocked. For more information, see Microsoft's security bulletin at <http://www.microsoft.com/technet/security/bulletin/MS04-004.msp>.*

You can configure a reader or component to create an authentication header with the name / value in the following format:

```
("Authorization", "Basic " + {Encoded_username_and_password})
```

where {Encoded_username_and_password} is replaced with the Base64 encoding of the bytes in the string "username:password."

If you are writing your own client code to download a feed, use HTTP Basic Authentication that is built into your programming language's library. HTTP Basic Authentication is available on most platforms; for example, Perl, PHP, C or Java.

Example Code

Note: *The URL in these examples is a demo URL. For the URL syntax and parameters, see "URL Syntax and Parameters for a Feed Request" on page 6.*

The following example shows how to use HTTP Basic Authentication from an ASP.NET C# program that uses the System.Net library.

```
WebClient wc = new WebClient();
wc.Credentials = new NetworkCredential("YOUR_USERNAME", "YOUR_PASSWORD");
string result = wc.DownloadString("http://syndication.ap.org/AP.Distro.Feed/GetFeed.aspx?
idList=31995,32008,32005,32003&idListType=products&maxItems=25");
```

The following example illustrates how to use HTTP Basic Authentication from a Java program that uses the org.apache.commons.httpclient library.

```
import org.apache.commons.httpclient.*;
import org.apache.commons.httpclient.auth.*;
import org.apache.commons.httpclient.methods.*;

HttpClient client = new HttpClient();
client.getParams().setParameter("http.useragent", "org.ap-FeedReader/1.0");
HostConfiguration host = client.getHostConfiguration();
host.setHost(new URI("http://syndication.ap.org:80", true));
GetMethod method = new
GetMethod("/AP.Distro.Feed/GetFeed.aspx?idList=31995,32008,32005,32003&idListType=products&maxI
tems=25");
```

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```

Credentials credentials = new UsernamePasswordCredentials("your_username", "your_password");
AuthScope authScope = new AuthScope(host.getHost(), host.getPort());
HttpState state = client.getState();
state.setCredentials(authScope, credentials);
int httpStatusCode = client.executeMethod(host, method);
    if(httpStatusCode == 200){
        String xmlFeed = method.getResponseBodyAsString();
    }

```

Note: For a user name and password, contact AP Customer Support. AP Exchange and AP Images users may use their respective user names and passwords to get authenticated by the AP WebFeeds system. If you plan to download content from AP Exchange saved searches, use the user name and password of the Site Administrator account to access all saved searches for your organization. AP Exchange users who do not have Site Administrator privileges can receive feeds only for the saved searches that they created or copied from their organization's shared searches. For more information, see "Establishing a Feed for a Saved Search" on page 9.

URL Syntax and Parameters for a Feed Request

Your feed request must be in the following format:

http://syndication.ap.org/AP.Distro.Feed/GetFeed.aspx?idList=[]&idListType=[]&...

where [] stands for a parameter value.

Important: The *idList* and *idListType* parameters are required; other parameters are optional. The parameters may be specified in any order.

Parameter	Description	Possible Values/Examples
idList (required)	One or more product, package or saved search IDs. Multiple IDs must be of the same type and must be specified as a comma-delimited list, with no spaces between characters. For information about locating your product, package and saved search IDs, see "Retrieving Your Entitlements" on page 9. For information about enabling feeds for saved searches, see "Establishing a Feed for a Saved Search" on page 9.	1001 3,1184,8385 517044
	<p>Note: If all specified IDs are invalid, or if you are not authorized to view content for all of the IDs, you receive an error message in an XML document; for example:</p> <pre> <?xml version="1.0" encoding="utf-8" standalone="yes" ?> - <error status="fatal" httpResponseCode="401" httpResponseMessage="Unauthorized"> <errorType>Authentication</errorType> <errorServer>FeedServer</errorServer> <errorMessage>Authentication Failed on GetFeed</errorMessage> </error> </pre> <p>If some of the specified IDs are invalid, or if you are not authorized to view content for some of the IDs, you receive the AP ATOM feed for the valid IDs that you are authorized to view, and the error message appears in the AP ATOM feed; for example:</p> <pre> <apcm:Property Id="urn:publicid:ap.org:errorid:invalidid">The requested ID: 55 is either invalid, or you are not authorized to view it.</apcm:Property> </pre>	
idListType (required)	The type of the IDs that are specified as the idList parameter values. Note: Package and product IDs are of the same type and may be used with <i>idListType=products</i> .	products savedsearches

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Parameter	Description	Possible Values/Examples
idList2	Used in requests for one feed combining different types of IDs, in conjunction with the idList parameter. If the idList parameter specifies one or more product/package IDs, the idList2 parameter must specify one or more saved search IDs, or vice versa.	idList=1184&idListType=products&idList2=517057&idListType2=savedsearches idList=517057&idListType=savedsearches&idList2=1184&idListType2=products
idListType2	The type of the IDs specified as the idList2 parameter values.	
maxItems	The maximum number of items to include in the feed. The default is 10. The maximum allowed value is 50 (if you request more than 50 items, only up to 50 items are returned).	25
	Note: Because content is available for the last three days only, the feed may include fewer than the specified maximum number of items. If the feed contains AP Top Headlines, it may include more than the specified maximum number of items. For more information, see “AP Top Headlines in the AP ATOM Feed” on page 21.	
maxDateTime	The date and time before which the requested content was released, in the format YYYY-MM-DDT HH:mm:ssZ where the value must be in Coordinated Universal Time (UTC). The default is the time of the request.	2008-03-21T17:52:49Z
minDateTime	The date and time after which the requested content was released, in the format YYYY-MM-DDT HH:mm:ssZ or YYYY-MM-DDT HH:mm:ss.msZ, where the value must be in Coordinated Universal Time (UTC). The default is three days (72 hours) prior to the time of the request. The content is available for the last three days only.	2008-03-19T15:30:00Z 2008-04-02T21:58:08.187Z
	Note: To ensure that you get only new content with each feed request, you must use the minDateTime parameter in conjunction with the sequenceNumber parameter. If you use the sequenceNumber parameter, you must also use the minDateTime parameter, and both values must result from the same previous feed request. Changing the minDateTime value without using the corresponding sequenceNumber value is not allowed. Changing or manipulating either value may produce unexpected results, and some content may be lost or duplicated. Note that when no new content is available, it is normal for the sequenceNumber and minDateTime values returned by the server to remain the same until new content arrives. For more information, see “Getting Unique Content” on page 11.	
sequenceNumber	A unique sequential number that identifies each feed entry and must be used in conjunction with the minDateTime parameter to request content that is newer than the latest sequence number in the previously returned feed. For more information, see “Getting Unique Content” on page 11.	sequenceNumber=3830303
fullContent	Inserts full stories into the AP ATOM document. Full stories can be in the NITF, ANPA, IPTC or hNews format. Using this parameter is recommended for feeds with multiple text stories to avoid numerous server requests to download each full story. For more information, see “Example 2: A Story Link vs. a Full Story in the AP ATOM Feed” on page 33. Note: For backward compatibility, fullContent=true is equivalent to fullContent=nitf .	fullContent=nitf fullContent=anpa fullContent=iptc fullContent=hnews
showInlineLinks	Displays inline links in NITF-formatted stories. For more information, see “NITF Example” on page 45.	showInlineLinks=true

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Parameter	Description	Possible Values/Examples
showAnpaLinks	Adds links to ANPA files to each story entry. For more information, see “Example 3: Links to ANPA and IPTC 7901 Files in the AP ATOM Feed” on page 34 and “ANPA Format” on page 46.	showAnpaLinks=true
showIptcLinks	Adds links to IPTC 7901 files to each story entry. For more information, see “Example 3: Links to ANPA and IPTC 7901 Files in the AP ATOM Feed” on page 34.	showIptcLinks=true
showHNewsLinks	Adds links to hNews files, which are formatted as XHTML. For more information, see “Example 4: Links to hNews Files in the AP ATOM Feed” on page 35 and “hNews Format” on page 46.	showHNewsLinks=true
showAllFilings	Returns all filings of ANPA and/or IPTC-formatted stories. If this parameter is not used, only the latest filing of a story is returned. For more information, see “ANPA Format” on page 46 and “IPTC 7901 Format” on page 47. Note: To ensure that you receive only new filings, use the <i>sequenceNumber</i> and <i>minDateTime</i> parameters. For more information, see “Getting Unique Content” on page 11.	showAllFilings=true
sortOrder	Sorts the feed items in chronological order, from the oldest at the top of the feed to the newest at the bottom. If this parameter is not specified, the feed items are sorted in reverse chronological order.	sortOrder=chronological
autoFlatten	For feeds containing AP Top Headlines, autoFlatten=false displays only the parent entry and hides entries for the individual stories included in the Top Headline collection. If this parameter is not specified, the parent entry and the individual story entries are included in the feed. For more information, see “Example 5: AP Top Headlines Feed” on page 36.	autoFlatten=false
compression	Compresses the feed to the gzip format and returns a gzip byte stream instead of the text/XML feed. You must uncompress the returned feed for further processing; for example, using the gzip application. Compressed feeds are recommended in most cases, especially for large requests.	compression=true

Example: Feed Request URL

This example uses the following sample parameters:

- Products: 30029 (AP Arkansas); 31536 (PHOTOSTREAM - AR [Arkansas]); 30964 (NASCAR Chart)
- MaxDateTime: 09/17/08 at 12:00 PM (UTC)
- MaxItems: 25

To request a feed for these sample parameters, use the following URL:

<http://syndication.ap.org/AP.Distro.Feed/GetFeed.aspx?idList=30029,31536,30964&idListType=products&maxDateTime=2008-09-17T12:00:00Z&maxItems=25>

Retrieving Your Entitlements

You can retrieve your entitlements programmatically from the AP WebFeeds server at any time by accessing <http://syndication.ap.org/AP.Distro.Feed/GetAccountInfo.aspx> and using HTTP Basic Authentication to pass your account credentials to the server, similar to feed requests.

Example: List of Entitlements

```
- <APWebFeedsAccountInfo DateTime="9/12/2008 1:55:17 PM GMT">
- <Entitlements>
- <Entitlement>
  <Id>43054</Id>
  <Type>Product</Type>
  <Name>Example Product</Name>
  <Description />
</Entitlement>
- <Entitlement>
  <Id>531719</Id>
  <Type>SavedSearch</Type>
  <Name>Politics</Name>
  <Description>Example Saved Search</Description>
</Entitlement>
</Entitlements>
</APWebFeedsAccountInfo>
```

Establishing a Feed for a Saved Search

- Go to <http://www.apexchange.com> and log on to AP Exchange.

Note: For the AP Exchange user name and password, contact your Site Administrator.

- Create a saved search or copy one of your organization's shared searches. For more information, see "Creating a Saved Search" or "Copying a Saved Search" respectively in *AP Exchange User Guide*.

Important: To enable the feed, make sure that you select the **AP WebFeeds** check box when creating a saved search on the Advanced Search or Save Search page or when editing it on the Edit Search page. The feed will contain only new items that were filed after the time at which you enabled the feed for this saved search.

SAVE SEARCH

Name Your Search: Description:

Default Home Search
Make this my default home search result

Notify me
Send me notifications when new results arrive

AP WebFeeds
Check here to create an AP WebFeed of this search

Note: If the **AP WebFeeds** check box is not available, your account is not authorized to receive syndication feeds. For more information, contact AP Customer Support (see "Technical Support" on page 4).

- Click **Manage** in the top navigation bar to go to the My Saved Searches page:

Saved Search ID

My Saved Searches (To reorder saved searches ensure that all searches are displayed on one page)

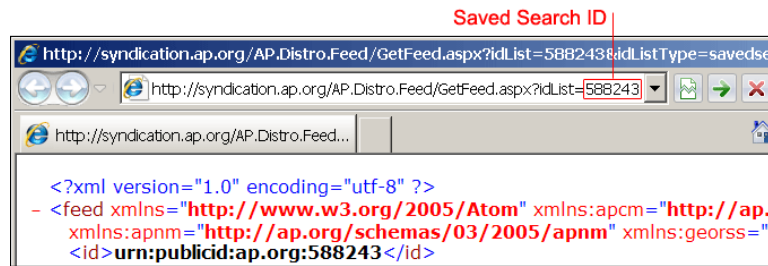
Results 1 - 29 of 29

	Order	Saved Search Name	WebFeed	Shared	Share	Default
<input type="checkbox"/>	1	Sports	588243	<input type="checkbox"/>		<input type="radio"/>
<input type="checkbox"/>	2	Iraq	588242	<input type="checkbox"/>		<input type="radio"/>

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The saved search ID is displayed in the **WebFeed** column.

Tip: Alternatively, you can click the WebFeed icon  associated with the search name and copy the saved search ID, which appears after **idList=** in the URL in the Web browser's **Address** box; for example:



- You can now use this saved search ID to create an feed URL, as described in “URL Syntax and Parameters for a Feed Request” on page 6.

Note: Use your AP Exchange user name and password to get authenticated by the AP WebFeeds system.

Retrieving Content Items Referenced in the Feed

The AP ATOM feed includes links to stories and media files (images, audio or video). For more information, see “AP ATOM Feeds and Metadata” on page 15.

Example Code

The following C# source code illustrates methods that can be used to retrieve a feed, and then download and save the linked content items given a feed URL, a user name and a password.

Important: The sample code requires external libraries, such as *System.Net* and *System.Xml*, to be compiled and is provided as an example only.

```
WebClient wc = new WebClient();
NetworkCredential nc = new NetworkCredential("YOUR_USERNAME", "YOUR_PASSWORD");
wc.Credentials = nc;
string xmlFeed = wc.DownloadString("http://syndication.ap.org/AP.Distro.Feed/GetFeed.aspx?
idList=31995,32008,32005,32003&idListType=products&format=4&maxItems=25");

XmlDocument feedDoc = new XmlDocument();
feedDoc.LoadXml(xmlFeed);
XmlNodeList feedItems = xmlDoc.SelectNodes("//entry/link");
for(int x = 0 ; x < feedItems.Count; x++){
    XmlNode feedItem = feedItems[x];
    string itemUrl = feedItem.Attributes["href"].Value;
    WebClient wc2 = new WebClient();
    wc2.Credentials = nc;
    wc2.DownloadFile(itemUrl, "FILE_PATH_AND_FILE_NAME");
}
```

Getting Unique Content

To ensure that you receive only new content with each feed request:

1. Check the values of the `<minDateTime>` and `<sequenceNumber>` elements in the Feed Sequencing section at the top of the AP ATOM feed resulting from your previous request.

Note: The `<sequenceNumber>` and `<minDateTime>` values in the Feed Sequencing section are the same as the `<sequenceNumber>` and `<updated>` values in the latest feed entry (the first entry if the feed is sorted in reverse chronological order or the last entry if the feed is sorted in chronological order).

2. Specify these values as the values of the **minDateTime** and **sequenceNumber** parameters respectively in the next request (make sure to specify milliseconds in the value of the **minDateTime** parameter). For more information about the URL syntax, see "URL Syntax and Parameters for a Feed Request" on page 6.

Important: You must use the same parameters as in the previous feed request; in particular, the same product and saved search IDs.

Example: Feed Request Based on the Parameters from the Previous Feed

To determine the values of the **minDateTime** and **sequenceNumber** parameters, check the Feed Sequencing section at the top of the AP ATOM feed resulting from your previous request:

```
<?xml version="1.0" encoding="utf-8" ?>
- <feed xmlns="http://www.w3.org/2005/Atom" xmlns:apcm="http://ap.org/schemas/03/2005/apcm"
  xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
  <id>urn:publicid:ap.org:421</id>
  - <title type="xhtml">
    - <apxh:div xmlns:apxh="http://www.w3.org/1999/xhtml">
      <apxh:span>Business News</apxh:span>
    </apxh:div>
  </title>
  - <apcm:Property Name="FeedProperties">
    <apcm:Property Name="Entitlement" Id="urn:publicid:ap.org:product:421" Value="Business News" />
  - <apcm:Property Name="FeedSequencing">
    <apcm:Property Name="sequenceNumber" Id="3914494" />
    <apcm:Property Name="minDateTime" Value="2008-09-03T16:48:58.437Z" />
  </apcm:Property>
</apcm:Property>
<updated>2008-09-03T16:48:58.437Z</updated>
...
```

To request a feed based on these sample values and a product ID 30029, use the following URL:

`http://syndication.ap.org/AP.Distro.Feed/GetFeed.aspx?idList=30029&idListType=products&minDateTime=2007-11-03T16:48:58.437Z&sequenceNumber=3914494`

Important: If you use the **sequenceNumber** parameter, you must also use the **minDateTime** parameter, and both values must result from the same previous feed request. Changing the **minDateTime** value without using the corresponding **sequenceNumber** value is not allowed. Changing or manipulating either value may produce unexpected results, and some content may be lost or duplicated. Note that when no new content is available, it is normal for the **sequenceNumber** and **minDateTime** values returned by the server to remain the same until new content arrives.

To receive content that is newer than a certain feed entry:

Use the <updated> and the <sequenceNumber> values from that entry as the values of the **minDateTime** and **sequenceNumber** parameters respectively; for example:

```
- <entry xmlns="http://www.w3.org/2005/Atom">
  <id>urn:publicid:ap.org:85f2f6da4c1c455088795c09d41096eb</id>
  <title>WEA-WA-State-Forecast-East</title>
  <updated>2007-11-06T19:52:57.363Z</updated>
  <published>2007-11-06T10:32:44Z</published>
  <rights>Copyright 2007 The Associated Press. All rights reserved. This material may not be published,
    broadcast, rewritten or redistributed.</rights>
  <content type="text/plain">Sftotx</content>
  + <link rel="enclosure" title="AP Article" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/Content
    Broker.aspx?media=text&recordid=85f2f6da4c1c455088795c09d41096eb&authToken=eN..."
    type="text/xml">
  </link>
  - <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
    <apcm:Priority Numeric="4" Legacy="r" />
    <apcm:HeadLine>Sftotx</apcm:HeadLine>
    <apcm:OriginalHeadLine>Sftotx</apcm:OriginalHeadLine>
    <apcm:Keywords>WEA-WA-State-Forecast-East</apcm:Keywords>
    <apcm:Cycle>BC</apcm:Cycle>
    <apcm:Selector>orba-</apcm:Selector>
    <apcm:LegacyTypeSetFormat>at</apcm:LegacyTypeSetFormat>
    <apcm:TransmissionReference>00119</apcm:TransmissionReference>
    <apcm:SlugLine>BC-WEA-WA-State-Forecast-East</apcm:SlugLine>
    <apcm:MediaType>Text</apcm:MediaType>
    <apcm:SubjectClassification Authority="AP Category Code" Value="o" Id="o" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:30120" Value="AP Washington
    State - Weather Only" />
    <apcm:Property Name="SequenceNumber" Value="InSequence" Id="4209774" />
    <apcm:FirstCreated>2007-11-06T10:32:44Z</apcm:FirstCreated>
  </apcm:ContentMetadata>
  + <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
</entry>
```

Note: For AP Top Headlines, you can only get content that is newer than the Top Headline parent entry, not the individual story entries, which are not assigned separate sequence numbers. For more information, see "AP Top Headlines in the AP ATOM Feed" on page 21.

Processing Headlines

The <title> and <apcm:HeadLine> elements in the AP ATOM feed and the <h1 id="headline"> element in the NITF documents may include content versioning information, which is shown in red in the examples below.

To avoid the versioning information when processing content headlines:

Use the <apcm:OriginalHeadLine> element in the AP ATOM feed and the <h2 id="originalHeadline"> element in the NITF documents, which are highlighted in gray in the examples below.

Example: Original Headline in AP ATOM feed

```
<apcm:HeadLine>Oil ends a turbulent session higher as dollar-induced buying carries the day, 8th Ld-Writethru,
NA</apcm:HeadLine>
<apcm:OriginalHeadLine>Oil ends a turbulent session higher as dollar-induced buying carries the
day</apcm:OriginalHeadLine>
```

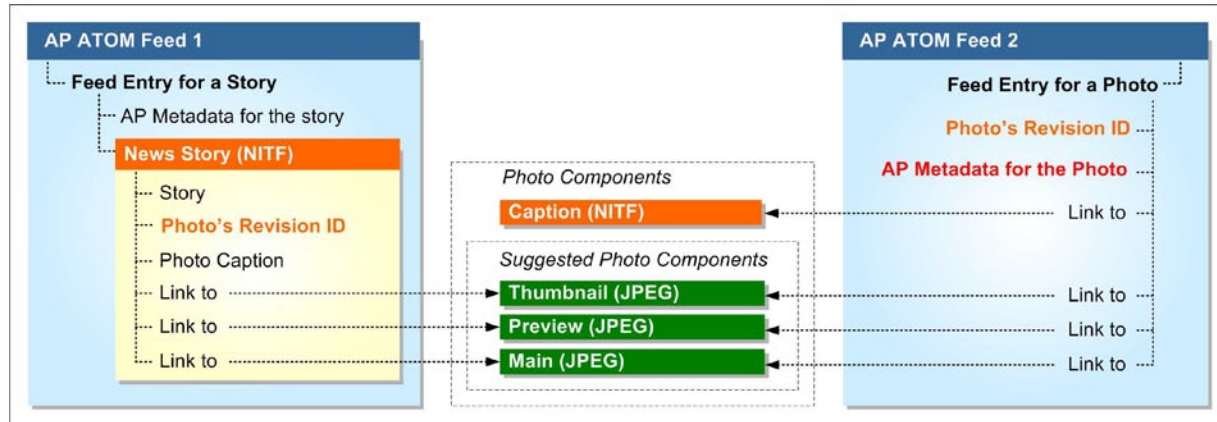
Example: Original Headline in NITF document

```
<headline>
  <h1 id="headline">Oil ends a turbulent session higher as dollar-induced buying carries the day, 8th Ld-
  Writethru, NA</h1>
  <h2 id="originalHeadline">Oil ends a turbulent session higher as dollar-induced buying carries the day</h2>
</headline>
```

Linking Suggested Media Files to their AP Metadata

For suggested media (images, audio and video) referenced in NITF-formatted stories, AP metadata is not available in the feed or in the NITF document. However, if you receive other AP ATOM feeds for images, audio and video, you can use the Revision IDs of suggested media to retrieve their AP metadata from the corresponding entries of these feeds.

In the following example, an NITF-formatted story is embedded in the AP ATOM feed and includes a reference to a suggested photo. The AP metadata for the photo is not included in the feed or in the NITF-formatted story, but you can use the Revision ID of a suggested photo to retrieve its AP metadata from another AP ATOM photo feed:



In the NITF-formatted story, the Revision ID is located in the `value` attribute of the `<media-metadata name="id">` element (shown in green in the example below):

```
<media id="media:f7db680f94a9495cb982ea978328071d" media-type="Photo">
  <media-metadata id="media-id:f7db680f94a9495cb982ea978328071d" name="id"
    value="urn:publicid:ap.org:f7db680f94a9495cb982ea978328071d" />
  <media-metadata id="media-friendlyKey:f7db680f94a9495cb982ea978328071d" name="FriendlyKey"
    value="080306015571" />
```

In the photo feed, the Revision ID is the entry ID (shown in green below):

```
- <entry xmlns="http://www.w3.org/2005/Atom">
  <id>urn:publicid:ap.org:f7db680f94a9495cb982ea978328071d</id>
  <title>SWEDEN FIGURE SKATING WORLD CHAMPIONSHIPS</title>
  <updated>2008-03-18T15:51:43.947Z</updated>
  <published>2008-03-18T15:51:40Z</published>
  ...
  - <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
    <apcm:DateLineLocation City="GOTEBURG" Country="SWE" CountryName="Sweden" />
    <apcm:ByLine Title="Caption Writer">FM,JW</apcm:ByLine>
    <apcm:ByLine Title="STAFF">Francois Mori</apcm:ByLine>
    <apcm:Credit>ASSOCIATED PRESS</apcm:Credit>
    <apcm:Cycle>AP</apcm:Cycle>
    <apcm:Selector>-----</apcm:Selector>
    <apcm:TransmissionReference>GOT134</apcm:TransmissionReference>
    <apcm:SlugLine>SWEDEN FIGURE SKATING WORLD CHAMPIONSHIPS</apcm:SlugLine>
    <apcm:FriendlyKey>080318010719</apcm:FriendlyKey>
    <apcm:MediaType>Photo</apcm:MediaType>
  - <apcm:EntityClassification Authority="AP Party" Value="FM,JW">
    <apcm:Property Id="11bc985a148d45a781e5bae4d40b1c11" Name="PartyType" Value="CAPTIONWRITER" />
  </apcm:EntityClassification>
  - <apcm:EntityClassification Authority="AP Party" Value="Francois Mori">
    <apcm:Property Id="111a147611e548de93ad20a387d49200" Name="PartyType" Value="PHOTOGRAPHER" />
  </apcm:EntityClassification>
    <apcm:SubjectClassification Authority="AP Subject" Value="Sports" Id="54df6c687df7100483dedf092526b43e" />
    <apcm:SubjectClassification Authority="AP Category Code" Value="Sports" Id="S" />
    <apcm:SubjectClassification Authority="AP Supplemental Category Code" Value="Figure Skating" Id="FIG" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:102" Value="Sports Photos" />
    <apcm:Property Name="SequenceNumber" Value="InSequence" Id="1188231" />
  ...
```

Identifying Entitlements Represented by Feed Entries

The <apcm:Property> tag with the attribute Name of “EntitlementMatch” contains information about the entitlement to which a feed entry belongs. If a content item in the feed entry matches multiple entitlements of the user who requested the feed, all of these entitlement IDs are provided for the entry.

The “EntitlementMatch” values can be helpful to AP members and customers who receive feeds for multiple media entities (for example, multiple newspapers), process this content in a centralized publishing environment and route it to entities based on their product entitlements. Using “EntitlementMatch” values along with the AP-provided mapping of entities to their entitlements, you can ensure that each entity receives only the content to which it is entitled.

Note Since the “EntitlementMatch” values are located in the AP ATOM feed metadata, you can use them effectively for both NITF and ANPA/IPTC-formatted content.

The following example shows a content item that matches multiple entitlements:

```
- <entry xmlns="http://www.w3.org/2005/Atom">
  <id>urn:publicid:ap.org:64b68afe99e64c0f9dc6486ae99442e2</id>
  <title>South Africa Soccer WCup Italy Paraguay</title>
  ...
  - <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
    <apcm:DateLineLocation City="Cape Town" Country="ZAF" CountryName="South Africa" />
    ...
    <apcm:SubjectClassification Authority="AP Subject" Value="Sports" Id="54df6c687df7100483dedf092526b43e" />
    <apcm:SubjectClassification Authority="AP Subject" Value="Events" Id="06a735407cb61004804eba7fa5283c3e" />
    <apcm:SubjectClassification Authority="AP Subject" Value="International soccer"
      Id="ea65116628934d1c8503c6133983a317" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:31536" Value="PHOTOSTREAM - AR
      (ARKANSAS)" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:31715" Value="PHOTOSTREAM - HI
      (HAWAII)" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:31761" Value="PHOTOSTREAM - KS
      (KANSAS)" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:31791" Value="PHOTOSTREAM - MT
      (MONTANA)" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:31803" Value="PHOTOSTREAM - ND
      (NORTH DAKOTA)" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:31831" Value="PHOTOSTREAM - OK
      (OKLAHOMA)" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:31936" Value="PHOTOSTREAM - WY
      (WYOMING)" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:35500" Value="AP Online Photos (3.1
      Exchange Only)" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:package:100028" Value="AP Financial News" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:package:100024" Value="AP Online" />
    <apcm:Property Name="SequenceNumber" Value="InSequence" Id="49855039" />
    <apcm:FirstCreated>2010-06-14T21:02:35Z</apcm:FirstCreated>
  </apcm:ContentMetadata>
  + <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
</entry>
```


AP ATOM Feeds and Metadata

Feed Structure

The AP ATOM format is the ATOM 1.0 format with additional metadata inserted by the AP. An AP ATOM feed consists of items known as entries. Each entry contains metadata that describes the entry content and links to the content files (stories, photos, graphics, audio or video).

Note: The AP ATOM feed may also include external links to content that is published at the AP Online Video Network (OVN) or third-party Web sites. For more information, see “External Links” on page 21.

Stories are provided in NITF 3.4 and optionally ANPA, IPTC 7901 or hNews formats. Story documents do not contain the full set of AP metadata because it is included in the feed. NITF-formatted stories may contain links to suggested photos, graphics, audio or video.

Photos and graphics referenced in the feed consist of the following components:

- The caption
- The main image (a high-resolution version)
- The preview (a low-resolution version displayed in Web-based applications)
- The thumbnail (a small version)

The caption, preview and thumbnails are also available for video clips referenced in the feed. Video entries may also contain links to a script and/or a shotlist.

Note: For suggested photos, graphics and video, the caption is included in the NITF document of the corresponding text story.

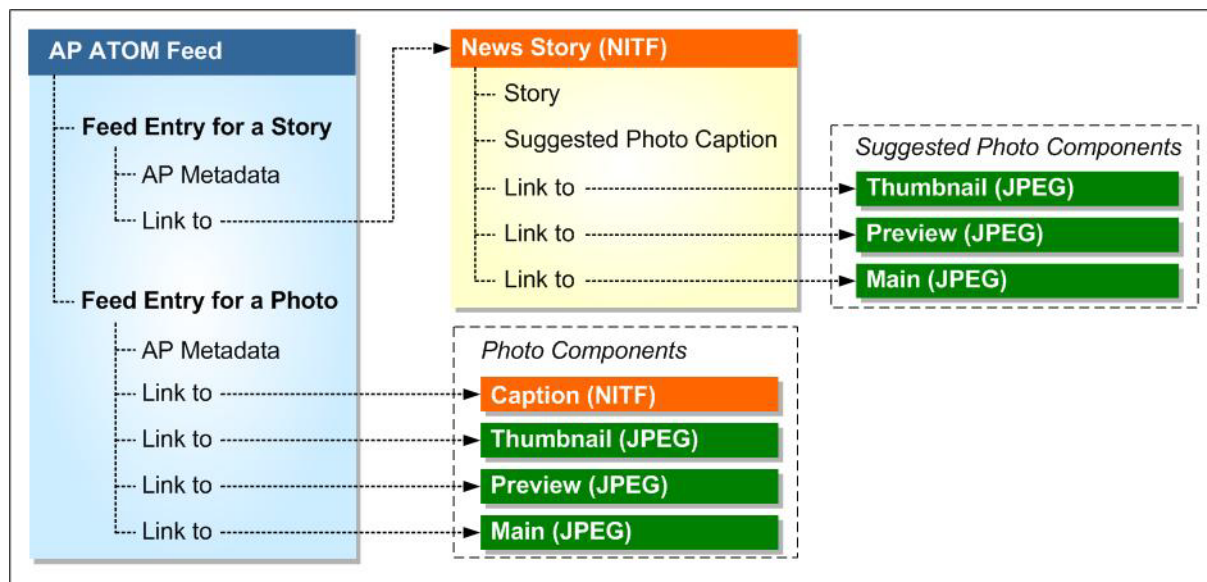


Figure 2: Example Feed Structure Overview

For more information, see “Content File Formats” on page 19 and “Suggested Media” on page 20.

Example: Feed Structure

The following example illustrates the AP ATOM feed structure. The feed is divided into two sections:

1. *Introduction*. General information about the feed, including the feed ID, title and author, the date and time when the feed was last updated and the feed request URL.
2. *Feed Entries*. One or more content items. For more information, see “Feed Entries and Content IDs” on page 17.

Note: By default, the feed entries are sorted in reverse chronological order (from the newest at the top of the feed to the oldest at the bottom). For information about changing the sort order of the feed items, see “URL Syntax and Parameters for a Feed Request” on page 6.

```

1  <?xml version="1.0" encoding="utf-8" ?>
- <feed xmlns="http://www.w3.org/2005/Atom" xmlns:apcm="http://ap.org/schemas/03/2005/apcm"
  xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
  <id>urn:publicid:ap.org:319</id>
  - <title type="xhtml">
    - <apxh:div xmlns:apxh="http://www.w3.org/1999/xhtml">
      <apxh:span>Odd News</apxh:span>
    </apxh:div>
  </title>
  - <apcm:Property Name="FeedProperties">
    <apcm:Property Name="Entitlement" Id="urn:publicid:ap.org:productid:319" Name="Odd News" />
  - <apcm:Property Name="FeedSequencing">
    <apcm:Property Name="sequenceNumber" Id="4393397" />
    <apcm:Property Name="minDateTime" Value="2008-03-07T12:27:45.923Z" />
  </apcm:Property>
</apcm:Property>
<updated>2008-03-07T12:27:45.923Z</updated>
- <author>
  <name>The Associated Press</name>
  <uri>http://www.ap.org</uri>
</author>
<rights>Copyright 2008 The Associated Press. All rights reserved. This material may not be published,
  broadcast, rewritten or redistributed.</rights>
<link rel="self"
  href="http://syndication.ap.org/AP.Distro.Feed/GetFeed.aspx?idList=319&idListType=products" />
2  + <entry xmlns="http://www.w3.org/2005/Atom">
  + <entry xmlns="http://www.w3.org/2005/Atom">
  ...
  + <entry xmlns="http://www.w3.org/2005/Atom">
</feed>

```


Feed Entries and Content IDs

An AP ATOM feed entry represents an individual revision of a news item; for example, a text article. If an article is written and rewritten several times during a news cycle as new information is uncovered, separate feed entries are created for the initial version and each rewrite. Each feed entry is assigned a unique ID that changes through each revision of a news item (entry <id> in the AP ATOM feed), and these entries are linked together by an ID that remains the same through each revision (<ManagementId> in the AP ATOM feed).

Note: The <ManagementId> is unique across all AP products—if an article appears in multiple products, it has the same <ManagementId> in all of these products.

Figure 3 shows an example of a news item’s revision history:

- The “AP WebFeeds Delivery” part of the illustration shows multiple story versions that are delivered as individual feed entries linked by their Management IDs. These stories can be delivered multiple times via different products specified in separate feed requests.
- The “AP Content Delivered” part shows how you can correctly group content according to its revision history and filter out duplicates from multiple products in separate feeds.

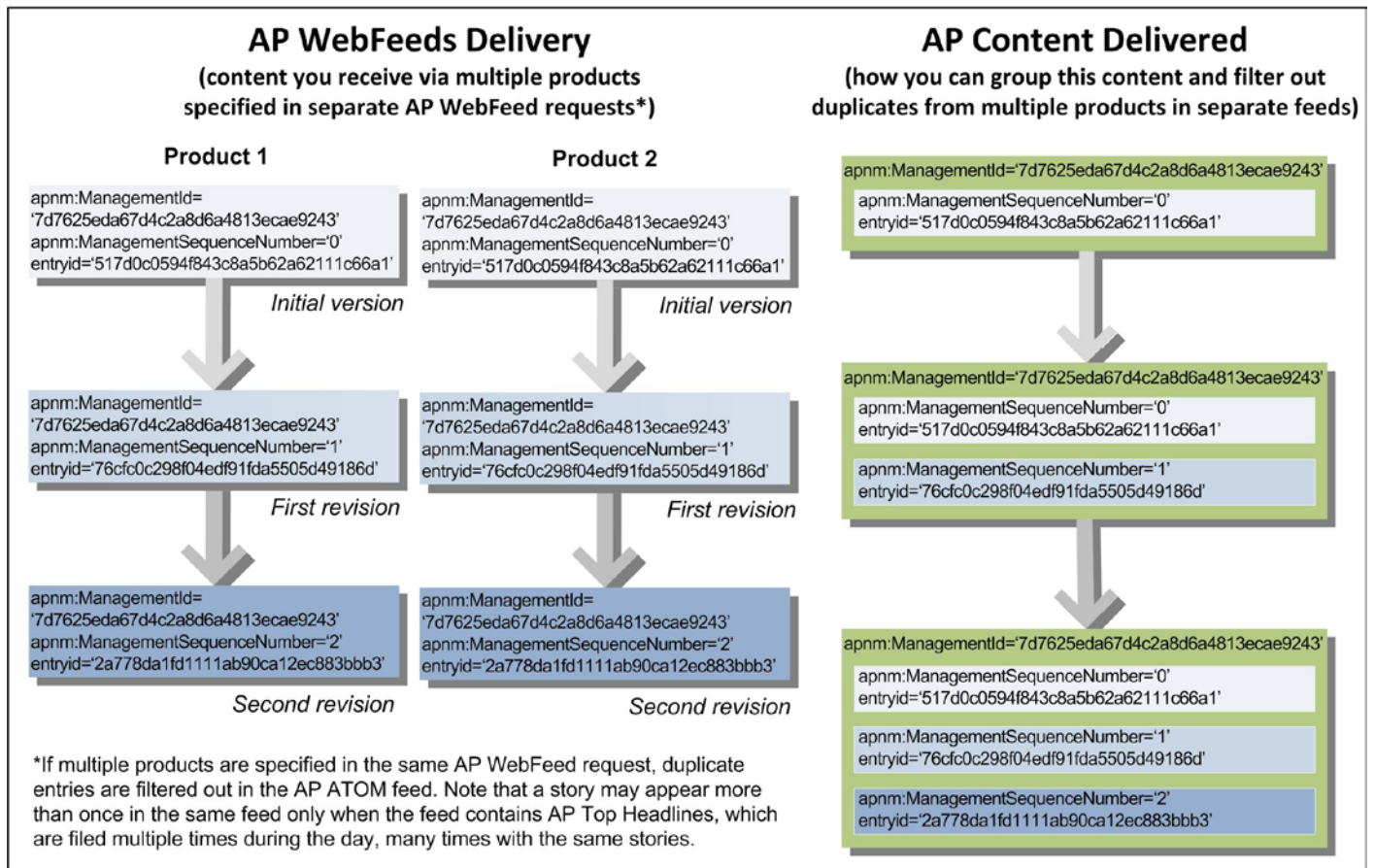


Figure 3: AP WebFeeds Delivery vs. AP Content Delivered

For more information, see “AP News Management Metadata” on page 26 and “AP Top Headlines in the AP ATOM Feed” on page 21.

Example: AP ATOM Feed Entry for a Text Story

The following example shows a metadata file that contains an AP ATOM feed entry for a text story. The feed entry is divided into four sections:

1. *Introduction*. General information about the entry content, including the entry ID and title, the date and time when the content was last updated/published, copyright and a brief description of the content.
2. *Content References*. Links to one or more content files (for example, the entire story in the NITF format) along with the metadata describing the characteristics of the linked files (for instance, the file extension, format and media type).
3. *AP Content Metadata*. Metadata that describes the content; for example, the story dateline, byline, headline and category. The name and ID of the product or saved search that matches the entry content also appears in this section.
4. *AP News Management Metadata*. Metadata that explains how to distribute or publish the content (for example, the publishing status can be Usable, Embargoed, Withheld or Canceled). This section also contains metadata tags that can be used for tracking article revisions (<ManagementId> and <ManagementSequenceNumber>).

```

1 - <entry xmlns="http://www.w3.org/2005/Atom" >
  <id>urn:publicid:ap.org:53e8a08557cb40a4b8a85089c14eea6f</id>
  <title>ODD-Monster-Toad</title>
  <updated>2008-03-07T12:35:16.923Z</updated>
  <published>2008-03-07T09:19:36Z</published>
  <rights>Copyright 2008 The Associated Press. All rights reserved. This material may not be published,
  broadcast, rewritten or redistributed.</rights>
  <content type="text/plain">Group Finds Toad the Size of a Small Dog, 1st Ld-Writethru</content>
2 - <link rel="enclosure" title="AP Article" href="http://syndication.ap.org/AP.Distro.ContentBroker/Content
  Broker.aspx?media=text&recordid=53e8a08557cb40a4b8a85089c14eea6f&authToken=xGMue..."
  type="text/xml" length="105">
  <apcm:Characteristics ContentId="urn:publicid:ap.org:29f4fa4eae924e79b41807e5d90e68c0"
  FileExtension="xml" Format="IIM" MediaType="Text" Role="Main" SizeInBytes="269" Words="246"
  xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
3 - <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
  <apcm:Priority Numeric="4" Legacy="r" />
  <apcm:DateLine>DARWIN, Australia</apcm:DateLine>
  <apcm:DownstyleExtendedHeadLine>Australian environmental group captures 'monster' toad the size of a small
  dog</apcm:DownstyleExtendedHeadLine>
  <apcm:DownstyleHeadLine>Group finds toad the size of a small dog</apcm:DownstyleHeadLine>
  <apcm:ExtendedHeadLine>Australian Environmental Group Captures 'Monster' Toad the Size of a Small
  Dog</apcm:ExtendedHeadLine>
  <apcm:HeadLine>Group Finds Toad the Size of a Small Dog, 1st Ld-Writethru</apcm:HeadLine>
  <apcm:OriginalHeadLine>Group Finds Toad the Size of a Small Dog</apcm:OriginalHeadLine>
  <apcm:Keywords>ODD-Monster-Toad</apcm:Keywords>
  <apcm:Cycle>AP</apcm:Cycle>
  <apcm:Selector>-----</apcm:Selector>
  <apcm:LegacyTypeSetFormat>bx</apcm:LegacyTypeSetFormat>
  <apcm:TransmissionReference>V6146</apcm:TransmissionReference>
  <apcm:SlugLine>AP-ODD-Monster-Toad,1st Ld-Writethru</apcm:SlugLine>
  <apcm:MediaType>Text</apcm:MediaType>
  <apcm:EntityClassification Authority="AP Country" Value="Australia" Id="AUS" />
  <apcm:SubjectClassification Authority="AP Online Code" Value="1120" Id="1120" />
  <apcm:SubjectClassification Authority="AP Category Code" Value="i" Id="i"/>
  <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:productid:319" Value="AP Online Top General
  Short Headlines" />
  <apcm:Property Name="SequenceNumber" Value="InSequence" Id="4393397" />
  <apcm:FirstCreated>2008-03-07T09:19:36Z</apcm:FirstCreated>
  </apcm:ContentMetadata>
4 - <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
  <apnm:ManagementId>urn:publicid:ap.org:bcdd90bfbdf4d65a12f01d3620c46f8</apnm:ManagementId>
  <apnm:ManagementSequenceNumber>0</apnm:ManagementSequenceNumber>
  <apnm:PublishingStatus>Usable</apnm:PublishingStatus>
  </apnm:NewsManagement>
</entry>

```

Example: Different versions of a photo referenced in the AP ATOM feed

The Content References section of the AP ATOM entry may contain links to one or more content files, depending on the content media type (text, photos, graphics, audio or video). The following example shows the Content References section for a photo, which includes links to the caption, the main image, the preview and the thumbnail.

```

2 - <link rel="enclosure" title="AP Caption"
  href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?media=text&recordid=f7db68
  Of94a9495cb982ea978328071d&authToken=eNoVw..." type="text/xml" length="245">
  <apcm:Characteristics ContentId="urn:publicid:ap.org:2777320a6504460a93a56fdf8492bb61" FileExtension="xml"
  Format="NITF" MediaType="Photo" MimeType="text/xml" Role="Caption" SizeInBytes="245" ... />
</link>
- <link rel="enclosure" title="AP Photo" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/Content
  Broker.aspx?contentid=1ad10e47f191445594de49a8ecae7061&fmt=jpg&role=Main&reldt=2008-03-
  18T15:51:40&media=Photo&recordid=f7db680f94a9495cb982ea978328071d&authToken=eNoVw..."
  type="image/jpeg" length="1505513">
  <apcm:Characteristics ContentId="urn:publicid:ap.org:1ad10e47f191445594de49a8ecae7061"
  Digest="f2e7615cbeaa24283626f28f65e68600" FileExtension="jpg" Format="JPEG Baseline" Height="1925"
  MediaType="Photo" MimeType="image/jpeg" OriginalFileName="FIGURE SKATING.JPEG" PhotoType="Horizontal"
  Role="Main" SizeInBytes="1505513" Width="3000" ... />
</link>
- <link rel="enclosure" title="AP Thumbnail Image" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/
  ContentBroker.aspx?contentid=9b4b8d167bea49b99b01b951d5fe9fea&fmt=jpg&role=Thumbnail&reldt=2008-
  03-18T15:51:40&media=Photo&recordid=f7db680f94a9495cb982ea978328071d&authToken=eNoVw..."
  type="image/jpeg">
  <apcm:Characteristics ContentId="urn:publicid:ap.org:9b4b8d167bea49b99b01b951d5fe9fea"
  Digest="d531d401c7993752b217cbb9d834fcf2" FileExtension="jpg" Format="JPEG Baseline" Height="82"
  MediaType="Photo" MimeType="image/jpeg" OriginalFileName="FIGURE SKATING.JPEG" Role="Thumbnail"
  Width="128" ... />
</link>
- <link rel="enclosure" title="AP Preview Image" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/
  ContentBroker.aspx?contentid=6348394b763b483bb154d4d150d40340&fmt=jpg&role=Preview&reldt=2008-
  03-18T15:51:40&media=Photo&recordid=f7db680f94a9495cb982ea978328071d&authToken=eNoVw..."
  type="image/jpeg">
  <apcm:Characteristics ContentId="urn:publicid:ap.org:6348394b763b483bb154d4d150d40340"
  Digest="66d73c8d9339b66d817ef2a90752060e" FileExtension="jpg" Format="JPEG Baseline" Height="328"
  MediaType="Photo" MimeType="image/jpeg" OriginalFileName="FIGURE SKATING.JPEG" Role="Preview"
  Width="512" ... />
</link>

```

For more information about the metadata elements and additional examples, see “AP ATOM Format Definitions and Usage” on page 26 and “AP ATOM Format Examples” on page 32.

Content File Formats

The content files referenced in the feed may be available in any of the following formats for each of the media types (text, photos, graphics, audio and video). It is recommended that you download files in the format that is best suited to your needs rather than all available formats.

Media Type	Caption	Script / Shotlist	Thumbnail	Preview	Main
Text	-	-	-	-	NITF 3.4, ANPA, IPTC 7901 and/or hNews
Photo	NITF 3.4	-	JPEG	JPEG	JPEG
Graphic	NITF 3.4	-	JPEG	JPEG	PDF, Illustrator or Freehand
Audio	-	-	-	-	WAV, RA, MP3, MPG
Video	NITF 3.4	TXT	JPEG (thumbnails of different sizes)	JPEG	Flash, Windows Media, QuickTime, Real, MPEG-1 and/or MPEG-2 (each at various quality levels)

Note: NITF, ANPA, IPTC 7901 and hNews documents do not contain the full set of AP metadata because it is included in the AP ATOM feed.

Suggested Media

NITF documents may contain links to suggested media (photos, graphics, audio and video) if this content is available and if a user is authorized to view it. A caption (not applicable to audio), links to suggested media and the names of the original media files appear in the `<media>` section of an NITF document; for example:

```
- <media id="media:d0f1b96c31f4417f98f14f9108d19b04" media-type="Photo">
  <media-metadata id="media-id:d0f1b96c31f4417f98f14f9108d19b04" name="id"
    value="urn:publicid:ap.org:d0f1b96c31f4417f98f14f9108d19b04" />
  <media-metadata id="media-friendlyKey:d0f1b96c31f4417f98f14f9108d19b04" name="FriendlyKey"
    value="080306015571" />
- <media-caption id="media-caption:d0f1b96c31f4417f98f14f9108d19b04">
  <p>In this photo supplied by Frogwatch, Graeme Sawyer holds a 40cm (15 inch) long cane toad near Darwin,
    Australia... (AP Photo/Frogwatch, HO)</p>
</media-caption>
<media-metadata id="media-metadata-OriginalFileName:cb9a833c3f1540669600486d8f0aa4c7"
  name="OriginalFileName" value="MONSTER TOAD.JPEG" />
<media-reference id="media-reference:cb9a833c3f1540669600486d8f0aa4c7" mime-type="image/jpeg" name="AP
  Photo" source="http://syndication.ap.org/AP.Distro.ContentBroker/ContentBroker.aspx?contentid=cb9a833c3f1540
  669600486d8f0aa4c7&fmt=jpg&role=Main&reldt=2008-03-07T09:19:36&media=Photo&recordid=cb9a833c3f
  1540669600486d8f0aa4c7&authToken=xGMue..." height="1481" width="2098" coding="jpg" />
<media-metadata id="media-metadata-OriginalFileName:d372ec8a1f4747579e8929b38618c7ca"
  name="OriginalFileName" value="MONSTER TOAD.JPEG" />
<media-reference id="media-reference:d372ec8a1f4747579e8929b38618c7ca" mime-type="image/jpeg" name="AP
  Thumbnail Image" source="http://syndication.ap.org/AP.Distro.ContentBroker/ContentBroker.aspx?contentid=
  d372ec8a1f4747579e8929b38618c7ca&fmt=jpg&role=Thumbnail&reldt=2008-03-07T09:19:36&media=Photo
  &recordid=d372ec8a1f4747579e8929b38618c7ca&authToken=xGMue..." height="90" width="128" coding="jpg" />
<media-metadata id="media-metadata-OriginalFileName:df5ee79ca5ef453fbee02166d0d31835"
  name="OriginalFileName" value="MONSTER TOAD.JPEG" />
<media-reference id="media-reference:df5ee79ca5ef453fbee02166d0d31835" mime-type="image/jpeg" name="AP
  Preview Image" source="http://syndication.ap.org/AP.Distro.ContentBroker/ContentBroker.aspx?contentid=
  df5ee79ca5ef453fbee02166d0d31835&fmt=jpg&role=Thumbnail&reldt=2008-03-07T09:19:36&media=Photo&
  recordid=df5ee79ca5ef453fbee02166d0d31835&authToken=xGMue..." height="361" width="512" coding="jpg" />
<media-producer id="media-caption:d0f1b96c31f4417f98f14f9108d19b04">The Associated
  Press</media-producer>
</media>
```

Suggested media files are available in one or more of the following formats for each of the media types:

Media Type	Thumbnail	Preview	Main
Photo	JPEG	JPEG	JPEG
Graphic	JPEG	JPEG	PDF, Illustrator or Freehand
Audio	-	-	WAV, RA, MP3, MPG
Video	JPEG (thumbnails of different sizes)	JPEG	Flash, Windows Media, QuickTime, Real, MPEG-1 and/or MPEG-2 (each at various quality levels)

Note: It is recommended that you download files in the format that is best suited to your needs rather than all available formats.

For more information, see "Linking Suggested Media Files to their AP Metadata" on page 13 and "NITF Format" on page 44.

External Links

- **Links to OVN video.** AP ATOM feed video entries and references to suggested video in NITF-formatted stories can include links to the video player at the AP OVN Web site.

Example of a link to the OVN video player in the AP ATOM feed:

```
<link rel="enclosure" title="AP OVN Video"
href="http://video.ap.org/uat/player/?t=By%20Section/Showbiz&g=US-CARR-20081201EV&f=AP">
  <apcm:Characteristics ContentId="urn:publicid:ap.org:21451b2976134866ba11773cf7faf88c"
  FileExtension="BIN" MediaType="Video" Role="Main" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
```

Example of a link to the OVN video player in the NITF-formatted story:

```
<media-metadata id="media-metadata-APOVN:ed4d70c0d7064bf782b31dc9adb1f7cb" name="AP OVN Video"
value="AP OVN video, follow URL in source attribute to video player location" />
<media-reference id="media-reference:ed4d70c0d7064bf782b31dc9adb1f7cb" name="AP OVN Video"
source="http://video.ap.org/uat/player/?t=By%20Section/World&g=1202dvs_thai_protesters&f=AP"
alternate-text="Thai Court Dissolves Govt. to Protesters Delight" coding="BIN" />
```

- **Links to third-party sources.** The AP ATOM feed can contain links to content published at third-party Web sites (also known as “AP WebParts”); for example:

```
<link rel="enclosure" title="AP WebPart"
href="http://www.detnews.com/apps/pbcs.dll/article?AID=/20081209/METRO/812090416/1409/METRO">
  <apcm:Characteristics ContentId="urn:publicid:ap.org:f915511bd054404ba64efb2306078984" FileExtension="BIN"
  MediaType="HTML" Role="Main" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
```

AP Top Headlines in the AP ATOM Feed

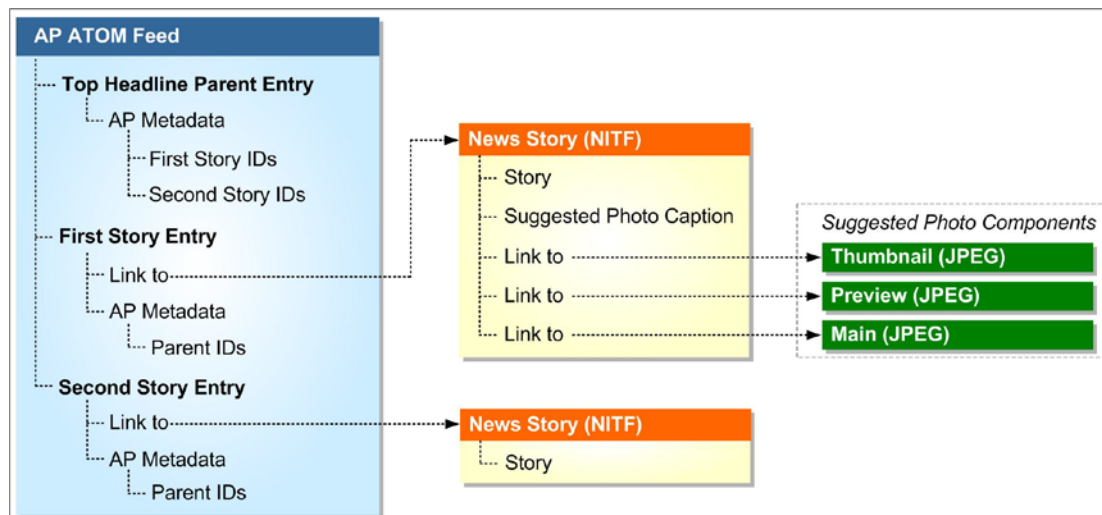
Note: This section is intended for users who are entitled to AP Top Headlines.

AP Top Headlines are collections of AP’s top news stories that are filed by AP editors multiple times during the day, many times with the same stories. This section explains how AP Top Headlines are represented in the AP ATOM feed.

Feed entries for AP Top Headline stories are preceded by a Top Headline parent entry that identifies all of these stories. Each of the individual story entries contains metadata tags that identify the story as part of AP Top Headlines.

Note: Individual Top Headline stories do not appear in chronological order in the feed and are not counted in the number of items returned by the AP WebFeeds server (only the parent entry is counted). For more information, see the **maxItems** parameter in the “URL Syntax and Parameters for a Feed Request” on page 6.

Example: AP Top Headlines Feed Structure (only two stories are shown for brevity)



Example: AP ATOM Feed Entries for AP Top Headlines

The following example shows feed entries for AP Top Headlines:

1. *Top Headline Parent Entry.* Identifies individual AP Top Headline stories. The entry ID of the Top Headline parent appears in the `<id>` tag.
 - A. The “InSequence” value of the “SequenceNumber” property tag indicates that the parent entry is counted in the number of items returned by the AP WebFeeds server.
 - B. The AP Content Metadata (APCM) section lists Management IDs and entry IDs of the individual stories under the “Top Headline Children” property tag.
 - C. The AP News Management (APNM) section contains the Management ID of the Top Headline parent.
2. *First Top Headline Story Entry.* A link to the first NITF-formatted Top Headline story along with the AP content and news management metadata related to the linked story. The first story’s entry ID appears in the `<id>` tag.
 - A. The “OutOfSequence” value of the “SequenceNumber” property tag shows that the story entry is not counted in the number of items returned by the AP WebFeeds server.
 - B. The Management ID and entry ID of the Top Headline parent appear under the “Top Headline Parent” property tag.
 - C. The News Management (APNM) section contains the Management ID of this story (it is the same as the first ID listed under the “Top Headline Children” property tag in the Top Headline Parent entry).
3. *Second Top Headline Story Entry.* A link to the second NITF-formatted Top Headline story and related metadata. The entry ID of the second story appears in the `<id>` tag.
 - A. The “OutOfSequence” value of the “SequenceNumber” property tag indicates that the story entry is not counted in the number of items returned by the AP WebFeeds server.
 - B. The Management ID and entry ID of the Top Headline parent appear under the “Top Headline Parent” property tag.
 - C. The News Management (APNM) section contains the Management ID of this story (it is the same as the second ID listed under the “Top Headline Children” property tag in the Top Headline Parent entry).

1	<pre> - <entry ...> <id>urn:publicid:ap.org:fe791c47ae224a60983c17fcef40d2ee</id> ... - <apcm:ContentMetadata ...> ... <apcm:Property Name="SequenceNumber" Value="InSequence" Id="3830303" /> - <apcm:Property Name="Top Headline Children"> - <apcm:Property Name="AP Article"> <apcm:Property Name="ManagementId" Id="urn:publicid:ap.org:b677f7be2bb24683baf8cf477e062935" /> <apcm:Property Name="Id" Id="urn:publicid:ap.org:683503204eee4b21a10efe39796ce817" /> </apcm:Property> - <apcm:Property Name="AP Article"> <apcm:Property Name="ManagementId" Id="urn:publicid:ap.org:2d42cd5717044b9e8572bfe56d460d63" /> <apcm:Property Name="Id" Id="urn:publicid:ap.org:4a4981999cb54c54bf101cebd78d3911" /> </apcm:Property> </apcm:Property> ... </apcm:ContentMetadata> - <apnm:NewsManagement ...> <apnm:ManagementId>urn:publicid:ap.org:37ccf119a68644cdb01168a278db1d20</apnm:ManagementId> ... </apnm:NewsManagement> </entry> </pre>
2	<pre> - <entry ...> <id>urn:publicid:ap.org:683503204eee4b21a10efe39796ce817</id> ... + <link rel="enclosure" title="AP Article" href=http://syndication.ap.org/AP.Distro.ContentBrokerSite/ ContentBroker.aspx?media=text&recordid=683503204eee4b21a10efe39796ce817&authToken=eNptk... type="text/xml" length="238"> - <apcm:ContentMetadata ...> ... <apcm:Property Name="SequenceNumber" Value="OutOfSequence" Id="0" /> - <apcm:Property Name="Top Headline Parent"> - <apcm:Property Name="AP Article"> <apcm:Property Name="ManagementId" Id="urn:publicid:ap.org:37ccf119a68644cdb01168a278db1d20" /> <apcm:Property Name="Id" Id="urn:publicid:ap.org:fe791c47ae224a60983c17fcef40d2ee" /> </apcm:Property> </apcm:Property> ... </apcm:ContentMetadata> - <apnm:NewsManagement ...> <apnm:ManagementId>urn:publicid:ap.org:b677f7be2bb24683baf8cf477e062935</apnm:ManagementId> ... </apnm:NewsManagement> </entry> </pre>
3	<pre> - <entry ...> <id>urn:publicid:ap.org:4a4981999cb54c54bf101cebd78d3911</id> ... + <link rel="enclosure" title="AP Article" href=http://syndication.ap.org/AP.Distro.ContentBrokerSite/ ContentBroker.aspx?media=text&recordid=4a4981999cb54c54bf101cebd78d3911&authToken=eNptk... type="text/xml" length="239"> - <apcm:ContentMetadata ...> ... <apcm:Property Name="SequenceNumber" Value="OutOfSequence" Id="0" /> - <apcm:Property Name="Top Headline Parent"> - <apcm:Property Name="AP Article"> <apcm:Property Name="ManagementId" Id="urn:publicid:ap.org:37ccf119a68644cdb01168a278db1d20" /> <apcm:Property Name="Id" Id="urn:publicid:ap.org:fe791c47ae224a60983c17fcef40d2ee" /> </apcm:Property> </apcm:Property> ... </apcm:ContentMetadata> - <apnm:NewsManagement ...> <apnm:ManagementId>urn:publicid:ap.org:2d42cd5717044b9e8572bfe56d460d63</apnm:ManagementId> ... </apnm:NewsManagement> </entry> </pre>

Legend:

37ccf119a68644cdb01168a278db1d20
fe791c47ae224a60983c17fcef40d2ee
b677f7be2bb24683baf8cf477e062935
683503204eee4b21a10efe39796ce817
2d42cd5717044b9e8572bfe56d460d63
4a4981999cb54c54bf101cebd78d3911

Top Headline parent's Management ID
 Top Headline parent's entry ID
 The first story's Management ID
 The first story's entry ID
 The second story's Management ID
 The second story's entry ID

Marketplace Content in the AP ATOM Feed

The Marketplace is an AP Exchange feature that allows AP members to share news content freely (currently, text, photos and graphics) with other AP members. When submitting content to the Marketplace, AP members can link related content items; for example, stories to stories, photos to stories, photos to photos and so on.

The representation of the linked Marketplace content in the AP ATOM feed is similar to that of AP Top Headlines:

- The main content item is "InSequence," and the linked content items are "OutOfSequence."
- The main content item entry contains the Marketplace Relationship ID as well as the Management IDs and entry IDs of the linked content items.
- The linked content item entries contain the Marketplace Relationship ID as well as the Management ID and entry ID of the main content item.

Example: Linked Marketplace Content in the AP ATOM Feed

Story Entry

```
- <entry ...>
  <id>urn:publicid:ap.org:de0b42bd28ef4f98947cc3d92ae7dad6</id>
  ...
  <contributor>
    <name>NEWARK STAR-LEDGER</name>
  </contributor>
  ...
  <apcm:ContentMetadata ...>
    ...
    <apcm:Property Name="SequenceNumber" Value="InSequence" Id="3082533" />
    - <apcm:Property Name="Market Place Relationship" Id="63f25ddb-bf97-4bdd-aa0e-21bf02e6034c">
      - <apcm:Property Name="AP Photo">
        <apcm:Property Name="ManagementId" Id="urn:publicid:ap.org:2c3e949b4cd04f8bba6bb3d44db484e1" />
        <apcm:Property Name="Id" Id="urn:publicid:ap.org:dc316538f64f4687802ab5ee6534913a" />
      </apcm:Property>
    </apcm:Property>
    - <apcm:UsageRights>
      <apcm:UsageType>MarketplaceDistribution</apcm:UsageType>
      <apcm:Geography>NJ</apcm:Geography>
      <apcm:RightsHolder>NEWARK STAR-LEDGER</apcm:RightsHolder>
    </apcm:UsageRights>
    ...
  </apcm:ContentMetadata>
  - <apnm:NewsManagement ...>
    <apnm:ManagementId>urn:publicid:ap.org:4fa5210614b84481ab2867ad2b287a92</apnm:ManagementId>
    ...
  </apnm:NewsManagement>
</entry>
```

Linked Photo Entry

```
- <entry...>
  <id>urn:publicid:ap.org:dc316538f64f4687802ab5ee6534913a</id>
  ...
  <apcm:ContentMetadata ...>
    ...
    <apcm:Property Name="SequenceNumber" Value="OutOfSequence" Id="0" />
    - <apcm:Property Name="Market Place Relationship" Id="63f25ddb-bf97-4bdd-aa0e-21bf02e6034c">
      - <apcm:Property Name="AP Story">
        <apcm:Property Name="ManagementId" Id="urn:publicid:ap.org:4fa5210614b84481ab2867ad2b287a92" />
        <apcm:Property Name="Id" Id="urn:publicid:ap.org:de0b42bd28ef4f98947cc3d92ae7dad6" />
      </apcm:Property>
    </apcm:Property>
    ...
  </apcm:ContentMetadata>
  - <apnm:NewsManagement ...>
    <apnm:ManagementId>urn:publicid:ap.org:2c3e949b4cd04f8bba6bb3d44db484e1</apnm:ManagementId>
    ...
  </apnm:NewsManagement>
</entry>
```

Legend:	63f25ddb-bf97-4bdd-aa0e-21bf02e6034c	Marketplace Relationship ID
	4fa5210614b84481ab2867ad2b287a92	Story's Management ID
	de0b42bd28ef4f98947cc3d92ae7dad6	Story's entry ID
	2c3e949b4cd04f8bba6bb3d44db484e1	Linked photo's Management ID
	dc316538f64f4687802ab5ee6534913a	Linked photo's entry ID

IPTC Photo Metadata to AP ATOM Mapping

The following table shows the mapping of standard IPTC header photo metadata fields to AP ATOM metadata fields.

Important: AP cannot guarantee the availability of these metadata fields for all photos and photo sizes, such as previews and thumbnails. For example, photos received from AP Content Enrichment participants may not contain these metadata fields.

IPTC Header Field	AP ATOM Field
Caption	//entry/content/[@type="text/plain"]
Object Name	//entry/title
Headline	apcm:HeadLine
Caption Writer	apcm:ByLine/[@Title="Caption Writer"]
Category	apcm:SubjectClassification/[@Authority="AP Category Code"]
Supplemental Categories	apcm:SubjectClassification/[@Authority="AP Supplemental Category Code"]
Byline	apcm:EntityClassification/@Value[..../Property/@Value="PHOTOGRAPHER" and/Property/@Name="PartyType"]
Byline Title	apcm:ByLine/[not(@Title="Caption Writer")]
Credit	apcm:Credit
Keywords	apcm:Keywords
Source	apcm:Source
Date Created	//entry/published
City	apcm:DateLineLocation/@City
State	apcm:DateLineLocation/@CountryArea
Country	apcm:DateLineLocation/@Country
Original Transmission Reference Number	apcm:TransmissionReference

AP ATOM Format Definitions and Usage

Important: This guide describes only the metadata added by the AP. For information about the standard ATOM elements, go to <http://tools.ietf.org/html/rfc4287>.

AP News Management Metadata

In the AP ATOM feed, the AP News Management metadata is located in the "apnm" namespace and associated elements (see the sample feeds in "AP ATOM Format Examples" on page 32).

Important: You must use the AP News Management metadata to determine if there are any restrictions on distributing and publishing the AP ATOM entry's content. Content distribution must not violate your agreement with AP and copyright information contained in the content item and its metadata. Attributes are indicated by an at sign (@).

Metadata Element	Description
ManagementId	<p>A globally unique identifier for the chain of news stories that comprise an item. Remains the same for the initial version and each subsequent revision. For example, if an article is written and rewritten several times during a news cycle as new information is uncovered, this ID value remains the same for each rewrite because it points to the chain of revised articles, and not an individual revision.</p> <p>IMPORTANT NOTE for AP Content Enrichment Participants: This element contains the management ID assigned to your content by the AP. If you submitted your own Management ID to the AP in an ATOM feed that meets AP specifications, it is located in the <ForeignKeys> element. Other news management values that you submitted in the ATOM feed (except for <ExpirationDateTime and CreationDateTime>) are returned in the respective AP ATOM elements.</p>
ManagementSequenceNumber	<p>A natural number from 0 to the number of the article revisions: 0 for the initial version, 1 for the first revision, 2 for the second revision and so forth. The higher the number, the more recent the article's revision.</p>
PublishingStatus	<p>Contains information regarding a content item's ability to be distributed to news consumers. Possible values are:</p> <ul style="list-style-type: none"> • Usable. This content item may be distributed to news consumers in publishing forms that do not violate your agreement with the AP and copyright information contained in the content item and its metadata. • Embargoed (the same as Hold-For-Release). Do <u>not</u> distribute this content item to news consumers until the release date-time found in the "statusChangeOn" attribute has occurred. • Withheld. Do <u>not</u> distribute this content item to news consumers because it contains questionable information. Any distributed form of the content item must be recalled. • Canceled (the same as Kill). Do <u>not</u> distribute this content item to news consumers because it contains erroneous information. Any distributed form of the content item must be recalled. <p>IMPORTANT: Do not use this element alone to determine a content item's publishing status. Check the values of the <PublishingSpecialInstructions> and <PublishingReleaseDateTime> elements to determine whether the content can be published.</p>
@statusChangeOn	<p>The date and time (in the W3C XML Schema's xs:dateTime format) when a news article may be published, used primarily for "Embargoed" articles. For more information, see "Example 10: Embargoed Article Entry" on page 43.</p>
PublishingSpecialInstructions	<p>Any human-readable instructions for processing the content. Do <u>not</u> distribute this information to news consumers, except where explicitly noted.</p>
PublishingReleaseDateTime	<p>The date and time (in the W3C XML Schema's xs:dateTime format) when a news article may be published, used primarily for "Embargoed" articles.</p>

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Metadata Element	Description
ForeignKeys	<p>Allows third-party systems to store and fetch keys, so that you can look up and relate content to your internal keys.</p> <p>IMPORTANT NOTE for AP Content Enrichment Participants: This element contains the IDs that you submitted to the AP in an ATOM feed that meets AP specifications; for example:</p> <pre><apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm"> <apnm:ForeignKeys System="Member"> <apnm:Keys Field="EntryId" Id="urn:publicid:localnewspaper.com:a1234b5678"/> <apnm:Keys Field="ManagementId" Id="urn:publicid:localnewspaper.com:c9012d3456"/> </apnm:ForeignKeys> </apnm:NewsManagement></pre> <p>Other news management values that you submitted in the ATOM feed (except for <i>ExpirationDateTime</i> and <i>CreationDateTime</i>) are returned in the respective AP ATOM elements.</p>

AP Content Metadata

The AP content metadata is located in the "apcm" namespace and associated elements with their values (see "AP ATOM Format Examples" on page 32). You can use this information to help determine where to use the content, but you are not required to do so.

Note: All AP content metadata elements are optional; however, if an element appears in the feed, its attributes and sub-elements may be required or optional, as specified in the Use column. Attributes are indicated by an at sign (@).

Metadata Element	Description	Use
DateLineLocation	The location where the news event or subject described/depicted by the content occurred.	Optional
@City	The content's dateline city.	Optional
@Country	An abbreviated form of the content's dateline country.	Optional
@CountryName	The full name of the content's dateline country.	Optional
@CountryArea	The content's dateline country area. A country area is a large-scale division within a country; for example, a U.S. state or Canadian province.	Optional
@CountryAreaName	The full name of the content's dateline country area. A country area is a large-scale division within a country; for example, a U.S. state or Canadian province.	Optional
@Url	The URL for a virtual location associated with the content.	Optional
@LatitudeDD	The latitude of the location.	Optional
@LongitudeDD	The longitude of the location.	Optional
Priority	The editorial priority assigned to the content.	Optional
@Numeric	The integer priority value assigned to the content. The possible values range from 1 (highest priority) to 9 (lowest priority).	Required
@Legacy	The human-readable priority value assigned to the content, adhering to the ANPA 1312 / NAA 89-3 specification. Because usage is deprecated, systems must rely on the @Numeric attribute for processing.	Optional
ByLine	The name of the party who created or contributed to the content. This field may contain the name of a photographer, writer, speaker, caption writer or any other individual involved in the creation of the content.	Optional
@Title	The title of the party referenced in the ByLine.	Optional
Credit	The name of the party or parties that are credited with providing the content.	Optional
DateLine	A natural-language statement of the date and/or place described by the content.	Optional
ExtendedHeadLine	Longer form headline for the article with each word in initial uppercase; for example, "Sample Extended Headline for Sample Story."	Optional
DownstyleHeadLine	Headline for the article with only the first word in initial uppercase; for example, "Sample headline for sample story."	Optional
DownstyleExtendedHeadLine	Longer form headline for the article with only the first word in initial uppercase; for example, "Sample extended headline for sample story."	Optional

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Metadata Element	Description	Use
HeadLine	A brief synopsis of the content item that may include Publishing System Versioning information or editorial instructions.	Optional
OriginalHeadLine	A brief publishable synopsis of the content item.	Optional
Keywords	A multi-word field used to expedite content searching.	Optional
OutCue	Information derived from the content item which identifies the end point of the content item; used primarily in video and audio clips.	Optional
OverLine	An additional, concise sentence description of the content that is appropriate for publishing to an audience; used primarily with photo content.	Optional
SeriesLine	A displayable version of information about a content item's place in a series or sub-publication.	Optional
Cycle	Indicates which news cycle (AM, PM or both) may use the content; this element originates from the ANPA 89-3 specification and is normally used only with text articles. Possible values are: <ul style="list-style-type: none"> • <i>AM</i>. Morning newspapers have first use of the story. • <i>PM</i>. Afternoon newspapers have first use of the story. • <i>BC</i>. The content is for use by either AMs or PMs—immediately if it is a spot item, or on the publication date if it is an advance; this designation is used on all Sunday advances. 	Optional
Selector	A five-character field adopted from the ANPA 89-3 specification of assigned lowercase alphanumeric characters and hyphens that provides a fixed identity of the content. It is used for routing and addressing and is found primarily in text articles.	Optional
LegacyTypeSetFormat	A two-character format code adopted from the ANPA 89-3 specification and used to indicate the font type and size appropriate for the content when published in a physical medium, such as a newspaper. This element is used only with text articles. Possible values are: <ul style="list-style-type: none"> • <i>bt</i>. The article is intended to be set in body type and contains one or more tabular lines. • <i>at</i>. The article is intended to be set in agate type and contains one or more tabular lines. • <i>ax</i>. The article is intended to be set in agate type and contains no tabular lines. • <i>bx</i>. The article is intended to be set in body type or standard text. 	Optional
TransmissionReference	The reference ID value used to identify a transmission of the content item across one or more mediums, depending on the practices of the content distributor.	Optional
SlugLine	The slug for the content item.	Optional
FriendlyKey	(For photos only) A unique ID for easier photo identification.	Optional
MediaType	The generic media type of the content item. Possible values are Text, Photo, Graphic, Video and Audio.	Optional
Creator	The name of the organization or individual that created the publication.	Optional
Source	The name of the organization or individual that provided source material for the publication.	Optional
@City	The city in which the Source party is located, as provided by the party.	Optional
@CountryArea	The country area; for example, state or province, in which the Source party is located, as provided by the party.	Optional
@Country	The country in which the Source party is located, as provided by the party.	Optional
@Url	The URL for the Source party's Web domain or Web site, as provided by the party.	Optional
@Id	The ID for the Source party in AP systems.	Optional
@Type	The Source party's type in AP systems.	Optional
EntityClassification	Named people, organizations and places mentioned in the content. For more information, refer to the <i>AP Classification Metadata Reference Guide</i> .	Optional
@Authority	The type of entity and the originating AP taxonomy for that entity.	Required

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Metadata Element	Description	Use
@Value	A human-readable label for the classification object.	Required
@Id	The ID for the classification object in AP systems.	Optional
SubjectClassification	A topic, category or subject that describes the content. For more information, refer to the <i>AP Classification Metadata Reference Guide</i> and <i>AP Subject Category Values</i> .	Optional
@Authority	The type of subject and the originating AP taxonomy for that subject.	Required
@Value	A human-readable label for the classification object.	Required
@Id	The ID for the classification object in AP systems.	Optional
SalesClassification	An editorially selected group indicating a broad product group for the content item.	Optional
@Authority	The type of sales group and the originating AP taxonomy for that group.	Required
@Value	A human-readable label for the classification object.	Required
@Id	The ID for the classification object in AP systems.	Optional
AudienceClassification	A designation of the audience (for example, geographic, demographic, economic group) that would have an interest in the content.	Optional
@Authority	The type of audience and the originating AP taxonomy for that group.	Required
@Value	A human-readable label for the classification object.	Required
@Id	The ID for the classification object in AP systems.	Optional
Note: The <i>EntityClassification</i> , <i>SubjectClassification</i> , <i>SalesClassification</i> and <i>AudienceClassification</i> elements may contain an optional <i>Property</i> element with the following optional attributes: @Id, @Name and @Value.		
ItemContentType	Identifies the logical editorial type of the content item. Provides a processing hint to applications that allows them to quickly determine the content type for inclusion or exclusion in product groups or automated processes. Examples of possible values are "Spot Development," "Advisory" and "Weather Forecast." For more information, refer to the <i>AP Classification Metadata Reference Guide</i> .	Optional
DistributionScope	Indicates an editorial judgment of the relative geographical audience who would be interested in the content item. Possible values are "Local," "State," "National" and "Global." For example, a value of "State" indicates that a statewide audience would be interested in the news represented in the content item whereas "National" and "Global" audiences would not be interested.	Optional
Fixture	Identifies named sets of regularly occurring content, with a predictable focus, where standardizing the name enables more effective search or product creation. For more information, refer to the <i>AP Classification Metadata Reference Guide</i> .	Optional
UsageRights	Non-publishable, human-readable instructions on the usage limitations associated with the publication.	Optional
UsageType	The type of usage to which the rights apply.	Optional
Geography	The geographical area(s) to which specified usage rights pertain.	Optional
RightsHolder	Indicates who has the usage rights.	Optional
Limitations	Any restrictions on the use of the content.	Optional
StartDate	The start of the time period over which the stated rights apply.	Optional
EndDate	The end of the time period over which the stated rights apply.	Optional
FirstCreated	The date and time when the content for the current revision of the publication was created rather than the news item filing date and time. For example, a photo taken at a Sunday night game and filed on Monday morning would carry the <apcm:FirstCreated> value from Sunday, and the <updated> and <published> values for the photo entry would be from Monday. Note: For news items with multiple revisions, such as news stories, the <apcm:FirstCreated> value is the date and time when the current revision was created. For entries that represent story revisions rather than the initial version, the <published> date and time is earlier than the <apcm:FirstCreated> date and time because the <published> value is the date and time when the initial version of the article was first filed.	Optional

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Continued

Metadata Element	Description	Use
Characteristics	Attributes of the content which are pertinent to the content's retrieval and presentation; used mainly for binary content, such as photographic or illustration images and audio or video clips.	Optional
@TotalDuration	The total time duration of the content; used only for audio and video clips.	Optional
@AudioChannels	A numeral that represents the number of audio channels used in the content. Possible values are: <ul style="list-style-type: none"> '0' = no data '1' = monaural (one-channel) audio '2' = stereo (two-channel) audio 	Optional
@SampleRate	The sampling rate of the audio content item in hertz (Hz).	Optional
@ResolutionValue	The recording or image resolution of the content.	Optional
@ResolutionUnits	The units used for the value within ResolutionValue (for example, bits or dpi).	Optional
@Height	Height of image/video in pixels.	Optional
@Width	Width of image/video in pixels.	Optional
@AverageBitRate	The content's average amount of data that is transferred per second; used mainly for audio and video content.	Optional
@FrameRate	The content's number of frames per second; used mainly for audio and video content.	Optional
@VideoCoder	The video encoding system used to create the content.	Optional
@FileExtension	The file extension of the content item; primarily used with non-text media, such as images, audio clips and video clips. Note: If a file extension is not available, the default file extension .BIN is used.	Optional
@MediaType	The generic media type of the content item. Possible values are Text, Photo, Graphic, Video and Audio.	Optional
@Format	The format of the content item data.	Optional
@OriginalFileName	The name of the original media file.	Optional
@ContentId	The unique ID of a content item.	Optional
@Role	The role of the content item. Possible values are Caption, Thumbnail, Preview and Main.	Optional
@SizeInBytes	The byte size of the content item data.	Optional
@AnimationType	Type of animation used (linear or non-linear); used only for video.	Optional
@AspectRatio	Ratio of pixel height to width; used for photos and video.	Optional
@AudioCoder	Type of encoding used for the audio signal; used only for audio.	Optional
@ChannelConfiguration	Configuration of recording channels; used for audio and video.	Optional
@ColorSpace	Color space in which an image file resides; used only for photos.	Optional
@Concept	Concept associated with the media; used only for photos.	Optional
@CopySpace	Copy space; used only for photos.	Optional
@DataRate	Data rate; used for audio and video.	Optional
@DurationFrameValue	Frame duration; used only for video.	Optional
@EncodedBy	Name of a person or equipment that created the encoding; used only for audio.	Optional
@Font	Font used for text rendition; used for photos, graphics and video.	Optional
@FormatVersion	Version number as applied to the format of data; used for photos, graphics, audio and video.	Optional
@FramesTotal	Total number of video frames.	Optional
@HeightWidthRatio	Integer ratio for vector graphics; used for photos, graphics and video.	Optional
@Hue	Photo hue.	Optional
@ICCProfile	ICC profile reference for an image; used only for photos.	Optional
@InTimeCode	Time on a tape where the video content begins.	Optional

Continued on next page

Continued

Metadata Element	Description	Use
@InTimeFrameValue	Number of frames past the last second indicated in InTimeCode on a tape where the video content begins.	Optional
@KeyFrames	Total number of key frames (intra images).	Optional
@Make	Make of recording device; used for photos, audio and video.	Optional
@Model	Model of recording device; used for photos, audio and video.	Optional
@Orientation	Photo orientation.	Optional
@PhotoType	Photo type.	Optional
@PixelDepth	Number of bits of a pixel; used only for photos.	Optional
@QualityLevel	Image quality as a perceived function of resolution; used for photos, audio and video.	Optional
@Rotation	Value of the rotation (necessary to preview the image), in degrees; used only for photos.	Optional
@Sampling	Video sampling method.	Optional
@Scene	Description of recording scene; used only for photos.	Optional
@TrackNumber	Track number of an audio recording.	Optional
@Tracks	Number of tracks in an audio recording.	Optional
@Vbr	Variable bit rate flag; used for audio and video.	Optional
@Words	Approximate number of words in the textual content; used only for text stories.	Optional

AP ATOM Format Examples

Example 1: AP ATOM Feed for a Text Story

The following example shows a feed that includes one story. The link to the entire story in the NITF format is highlighted in gray (for more information, see "NITF Format" on page 44).

```
<?xml version="1.0" encoding="utf-8" ?>
- <feed xmlns="http://www.w3.org/2005/Atom" xmlns:apcm="http://ap.org/schemas/03/2005/apcm"
  xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
  <id>urn:publicid:ap.org:319</id>
- <title type="xhtml">
- <apxh:div xmlns:apxh="http://www.w3.org/1999/xhtml">
  <apxh:span>Odd News</apxh:span>
</apxh:div>
</title>
- <apcm:Property Name="FeedProperties">
  <apcm:Property Name="Entitlement" Id="urn:publicid:ap.org:productid:319" Name="Odd News" />
- <apcm:Property Name="FeedSequencing">
  <apcm:Property Name="sequenceNumber" Id="4393397" />
  <apcm:Property Name="minDateTime" Value="2008-03-07T12:27:45.923Z" />
</apcm:Property>
</apcm:Property>
<updated>2008-03-07T12:27:45.923Z</updated>
- <author>
  <name>The Associated Press</name>
  <uri>http://www.ap.org</uri>
</author>
<rights>Copyright 2008 The Associated Press. All rights reserved. This material may not be published, broadcast,
  rewritten or redistributed.</rights>
  <link rel="self"
    href="http://syndication.ap.org/AP.Distro.Feed/GetFeed.aspx?idList=319&idListType=products&maxItems=1" />
- <entry xmlns="http://www.w3.org/2005/Atom">
  <id>urn:publicid:ap.org:53e8a08557cb40a4b8a85089c14eea6f</id>
  <title>ODD-Monster-Toad</title>
  <updated>2008-03-07T12:27:45.923Z</updated>
  <published>2008-03-07T09:19:36Z</published>
  <rights>Copyright 2008 The Associated Press. All rights reserved. This material may not be published, broadcast,
    rewritten or redistributed.</rights>
  <content type="text/plain">Group Finds Toad the Size of a Small Dog, 1st Ld-Writethru</content>
- <link rel="enclosure" title="AP Article" href="http://syndication.ap.org/AP.Distro.ContentBroker/ContentBroker.aspx
  ?media=text&recordid=53e8a08557cb40a4b8a85089c14eea6f&authToken=xGMue..." type="text/xml" length="105">
  <apcm:Characteristics ContentId="urn:publicid:ap.org:29f4fa4eae924e79b41807e5d90e68c0" FileExtension="xml" Format="IIM"
    MediaType="Text" Role="Main" SizeInBytes="269" Words="246" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
  <apcm:Priority Numeric="4" Legacy="r" />
  <apcm:DateLine>DARWIN, Australia</apcm:DateLine>
  <apcm:DownstyleExtendedHeadLine>Australian environmental group captures 'monster' toad the size of a small
    dog</apcm:DownstyleExtendedHeadLine>
  <apcm:DownstyleHeadLine>Group finds toad the size of a small dog</apcm:DownstyleHeadLine>
  <apcm:ExtendedHeadLine>Australian Environmental Group Captures 'Monster' Toad the Size of a Small
    Dog</apcm:ExtendedHeadLine>
  <apcm:HeadLine>Group Finds Toad the Size of a Small Dog, 1st Ld-Writethru</apcm:HeadLine>
  <apcm:OriginalHeadLine>Group Finds Toad the Size of a Small Dog</apcm:OriginalHeadLine>
  <apcm:Keywords>ODD-Monster-Toad</apcm:Keywords>
  <apcm:Cycle>AP</apcm:Cycle>
  <apcm:Selector>-----</apcm:Selector>
  <apcm:LegacyTypeSetFormat>bx</apcm:LegacyTypeSetFormat>
  <apcm:TransmissionReference>V6146</apcm:TransmissionReference>
  <apcm:SlugLine>AP-ODD-Monster-Toad,1st Ld-Writethru</apcm:SlugLine>
  <apcm:MediaType>Text</apcm:MediaType>
  <apcm:EntityClassification Authority="AP Country" Value="Australia" Id="AUS" />
  <apcm:SubjectClassification Authority="AP Online Code" Value="1120" Id="1120" />
  <apcm:SubjectClassification Authority="AP Category Code" Value="i" Id="i"/>
  <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:productid:319" Value="Odd News" />
```

Continued on next page

Continued

```

<apcm:Property Name="SequenceNumber" Value="InSequence" Id="4393397" />
<apcm:FirstCreated>2008-03-07T09:19:36Z</apcm:FirstCreated>
</apcm:ContentMetadata>
- <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
  <apnm:ManagementId>urn:publicid:ap.org:bcdd90bfdbfe4d65a12f01d3620c46f8</apnm:ManagementId>
  <apnm:ManagementSequenceNumber>0</apnm:ManagementSequenceNumber>
  <apnm:PublishingStatus>Usable</apnm:PublishingStatus>
</apnm:NewsManagement>
</entry>
</feed>

```

Example 2: A Story Link vs. a Full Story in the AP ATOM Feed

By default, the `<content>` element in each AP ATOM feed entry contains a story headline, and the `<link>` element contains a link to the full story in NITF format; for example:

```

<content type="text/plain">Investigators Eye Deck in N.C. Fire</content>
- <link rel="enclosure" title="AP Article" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?media=text&recordid=b388861dc31a402fa19f87959c9c4e87 &authToken=eNoFwIEKg..." type="text/xml" length="250">
  <apcm:Characteristics ContentId="urn:publicid:ap.org:3580e2b21339474fa321f6a60ebd82d5" FileExtension="xml" Format="IIM" MediaType="Text" MimeType="text/xml" Role="Main" SizeInBytes="250" Words="819" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>

```

If the `fullContent=nitf` parameter is specified in the feed request, the full story in NITF format appears in the `<content>` element, and the link to the NITF-formatted story is not included; for example:

```

- <content type="text/xml">
- <nitf version="-//IPTC//DTD NITF 3.4//EN" change.date="October 18, 2006" change.time="19:30">
- <head xmlns="">
+ <docdata>
  </head>
- <body xmlns="">
- <body.head>
- <headline>
  <h1>Investigators Eye Deck in N.C. Fire</h1>
  </headline>
- <byline>
  By ESTES THOMPSON
  <byttl>Associated Press Writer</byttl>
  </byline>
  <distributor>The Associated Press</distributor>
+ <dateline>
  </body.head>
- <body.content>
+ <media media-type="Photo">
...
- <block>
  <p>OCEAN ISLE BEACH, N.C. (AP) _ A fire at a vacation house where college students went to take advantage of the last good beach weather may have started on a deck, an official said Monday, as two campuses waited to find out the names of the seven dead.</p>
  <p>The home erupted into a storm of fire and smoke Sunday morning in Ocean Isle Beach, N.C. Six of the seven students killed attended the University of South Carolina; the other attended Clemson University. Six other South Carolina students in the house survived.</p>
...
  </block>
  </body.content>
</body.end />
</body>
</nitf>
</content>

```

Example 3: Links to ANPA and IPTC 7901 Files in the AP ATOM Feed

If you specify the **showAnpaLinks=true** and/or **showIptcLinks=true** parameter in your feed request, links to ANPA and/or IPTC 7901 files are included in the feed; for example:

```
<content type="text/plain">Stocks surge on strong earnings from Intel, JPMorgan, 12th Ld, US</content>
- <link rel="enclosure" title="AP Article"
  href="http://syndication.ap.org/AP.Distro.ContentBroker/ContentBroker.aspx?media=text&recordid=2851c0e
  f6006419caf9febe91b99321b&showInlineLinks=False&fmt=13&authToken=eNoFw..." length="143">
<apcm:Characteristics ContentId="urn:publicid:ap.org:98dd2f5436454e76940b2b46e9331dcb" FileExtension="anpa"
  Format="ANPA1312" MediaType="Binary" MimeType="application/octet-stream" Role="Main" SizeInBytes="143"
  Words="395" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <link rel="enclosure" title="AP Article"
  href="http://syndication.ap.org/AP.Distro.ContentBroker/ContentBroker.aspx?media=text&recordid=2851c0e
  f6006419caf9febe91b99321b&showInlineLinks=False&fmt=14&authToken=eNoFw..." length="143">
<apcm:Characteristics ContentId="urn:publicid:ap.org:98dd2f5436454e76940b2b46e9331dcb" FileExtension="iptc"
  Format="IPTC7901" MediaType="Binary" MimeType="application/octet-stream" Role="Main" SizeInBytes="143"
  Words="395" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <link rel="enclosure" title="AP Article"
  href="http://syndication.ap.org/AP.Distro.ContentBroker/ContentBroker.aspx?media=text&contentid=98dd2f
  5436454e76940b2b46e9331dcb&showInlineLinks=False&recordid=2851c0ef6006419caf9febe91b99321b&aut
  hToken=eNoFw..." type="text/xml" length="143">
<apcm:Characteristics ContentId="urn:publicid:ap.org:98dd2f5436454e76940b2b46e9331dcb" FileExtension="xml"
  Format="IIM" MediaType="Text" MimeType="text/xml" Role="Main" SizeInBytes="143" Words="395"
  xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
```

If you specify the **showAllFilings=true** parameter in addition to the **showAnpaLinks=true** or **showIptcLinks=true** parameter, links to all of the individual filings of each story are included. The ContentId is the same for all filings (shown in red in the following example), but the FilingId is different (shown in pink):

```
<content type="text/plain">Reports on consumer confidence, GDP tug at stocks</content>
- <link rel="enclosure" title="AP Article"
  href="http://syndication.ap.org/AP.Distro.ContentBroker2/ContentBroker.aspx?media=text&reco
  did=37672d1d71dd493999d37a9bef12c44b&filingid=f68cd91fa5864642b131839827992f67&show
  InlineLinks=False&fmt=13&authToken=eNoFw..." length="2209">
<apcm:Characteristics IngestLink="True"
  ContentId="urn:publicid:ap.org:15ea36130d3944de9227d982c9d8b5ea"
  FilingId="urn:publicid:ap.org:f68cd91fa5864642b131839827992f67" FileExtension="anpa"
  Format="ANPA1312" MediaType="Binary" MimeType="application/octet-stream" Role="Main"
  SizeInBytes="2209" Words="388"... />
</link>
- <link rel="enclosure" title="AP Article"
  href="http://syndication.ap.org/AP.Distro.ContentBroker2/ContentBroker.aspx?media=text&reco
  did=37672d1d71dd493999d37a9bef12c44b&filingid=a2d4613cd6d74df1802666991372ce13&sho
  wInlineLinks=False&fmt=13&authToken=eNoFw..." length="2209">
<apcm:Characteristics IngestLink="True"
  ContentId="urn:publicid:ap.org:15ea36130d3944de9227d982c9d8b5ea"
  FilingId="urn:publicid:ap.org:a2d4613cd6d74df1802666991372ce13" FileExtension="anpa"
  Format="ANPA1312" MediaType="Binary" MimeType="application/octet-stream" Role="Main"
  SizeInBytes="2209" Words="388"... />
</link>
- <link rel="enclosure" title="AP Article"
  href="http://syndication.ap.org/AP.Distro.ContentBroker2/ContentBroker.aspx?media=text&reco
  did=37672d1d71dd493999d37a9bef12c44b&filingid=3d807cbe05c04a1b8c259873fd955ce7&show
  InlineLinks=False&fmt=13&authToken=eNoFw..." length="2209">
<apcm:Characteristics IngestLink="True"
  ContentId="urn:publicid:ap.org:15ea36130d3944de9227d982c9d8b5ea"
  FilingId="urn:publicid:ap.org:3d807cbe05c04a1b8c259873fd955ce7" FileExtension="anpa"
  Format="ANPA1312" MediaType="Binary" MimeType="application/octet-stream" Role="Main"
  SizeInBytes="2209" Words="388"... />
</link>
...
```


Continued

```
<apcm:Characteristics ContentId="urn:publicid:ap.org:ca438c2f61a1407096d3ac5a60e8a42a" FileExtension="xml"
  Format="IIM" MediaType="Text" MimeType="text/xml" Role="Main" SizeInBytes="0" Words="104"
  xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
```

For more information, see "hNews Format" on page 46.

Example 5: AP Top Headlines Feed

Note: This section is intended for users who are entitled to AP Top Headlines.

The following example shows three entries of an AP Top Headlines feed. The sections that identify the relationship between the Top Headline parent and Top Headline stories are highlighted in gray.

```
- <entry xmlns="http://www.w3.org/2005/Atom">
  <id>urn:publicid:ap.org:fe791c47ae224a60983c17fce40d2ee</id>
  <title>Top-General-Headlines</title>
  <updated>2007-11-02T15:04:27.660Z</updated>
  <published>2007-11-02T14:37:19Z</published>
  <rights>Copyright 2007 The Associated Press. All rights reserved. This material may not be published, broadcast,
  rewritten or redistributed.</rights>
  <content type="text/plain">AP Top News At 10:35 a.m. EDT</content>
  + <link rel="enclosure" title="AP Article" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/Content
  Broker.aspx?media=text&recordid=fe791c47ae224a60983c17fce40d2ee&authToken=eNptk..." type="text/xml">
  - <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
    <apcm:Priority Numeric="4" Legacy="r" />
    <apcm:HeadLine>AP Top News At 10:35 a.m. EDT</apcm:HeadLine>
    <apcm:OriginalHeadLine>AP Top News At 10:35 a.m. EDT</apcm:OriginalHeadLine>
    <apcm:Keywords>Top-General-Headlines</apcm:Keywords>
    <apcm:Cycle>AP</apcm:Cycle>
    <apcm:Selector>-----</apcm:Selector>
    <apcm:LegacyTypeSetFormat>bx</apcm:LegacyTypeSetFormat>
    <apcm:TransmissionReference>V4824</apcm:TransmissionReference>
    <apcm:SlugLine>AP-Top-General-Headlines</apcm:SlugLine>
    <apcm:MediaType>Text</apcm:MediaType>
    <apcm:EntityClassification Authority="AP Country" Value="Iran" Id="IRN" />
    <apcm:EntityClassification Authority="AP Country" Value="Mexico" Id="MEX" />
    <apcm:SubjectClassification Authority="AP Category Code" Value="a" Id="a" />
    <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:31990" Value="AP Online Top General Short
    Headlines" />
    <apcm:Property Name="SequenceNumber" Value="InSequence" Id="3830303" />
  - <apcm:Property Name="Top Headline Children">
    <apcm:Property Name="AP Article" Id="urn:publicid:ap.org:b677f7be2bb24683baf8cf477e062935" />
    <apcm:Property Name="AP Article" Id="urn:publicid:ap.org:2d42cd5717044b9e8572bfe56d460d63" />
    ...
  </apcm:Property>
  ...
</apcm:ContentMetadata>
- <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
  <apnm:ManagementId>urn:publicid:ap.org:37ccf119a68644cdb01168a278db1d20</apnm:ManagementId>
  <apnm:ManagementSequenceNumber>0</apnm:ManagementSequenceNumber>
  <apnm:PublishingStatus>Usable</apnm:PublishingStatus>
</apnm:NewsManagement>
</entry>
- <entry xmlns="http://www.w3.org/2005/Atom">
  <id>urn:publicid:ap.org:683503204eee4b21a10efe39796ce817</id>
  <title>Rice</title>
  <updated>2007-11-02T14:57:31.970Z</updated>
  <published>2007-11-02T14:23:50Z</published>
  <rights>Copyright 2007 The Associated Press. All rights reserved. This material may not be published, broadcast,
  rewritten or redistributed.</rights>
  <content type="text/plain">Rice: Kurdish Rebels Are 'Common Threat'</content>
  + <link rel="enclosure" title="AP Article" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.
  aspx?media=text&recordid=683503204eee4b21a10efe39796ce817&authToken=eNp..." type="text/xml" length="238">
  - <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
    <apcm:DateLineLocation Country="TUR" CountryArea="ANKARA" CountryName="TURKEY" />
    ...
  <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:31990" Value="AP Online Top General Short
  Headlines" />
```

Continued on next page

Continued

```

<apcm:Property Name="SequenceNumber" Value="OutOfSequence" Id="0" />
- <apcm:Property Name="Top Headline Parent">
<apcm:Property Name="AP Article" Id="urn:publicid:ap.org:37ccf119a68644cdb01168a278db1d20" />
</apcm:Property>
</apcm:ContentMetadata>
- <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
<apnm:ManagementId>urn:publicid:ap.org:b677f7be2bb24683baf8cf477e062935</apnm:ManagementId>
<apnm:ManagementSequenceNumber>0</apnm:ManagementSequenceNumber>
<apnm:PublishingStatus>Usable</apnm:PublishingStatus>
</apnm:NewsManagement>
</entry>
- <entry xmlns="http://www.w3.org/2005/Atom">
<id>urn:publicid:ap.org:4a4981999cb54c54bf101cebd78d3911</id>
<title>Tropical-Weather</title>
<updated>2007-11-02T15:02:08.077Z</updated>
<published>2007-11-02T14:23:30Z</published>
<rights>Copyright 2007 The Associated Press. All rights reserved. This material may not be published, broadcast,
rewritten or redistributed.</rights>
<content type="text/plain">Deadly Atlantic Storm Heads Toward US</content>
+ <link rel="enclosure" title="AP Article"
href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?media=text&recordid=4a4981999cb54c54bf101cebd78d3911&authToken=eNptkIFOBCEMhi80TnpCgT7..." type="text/xml" length="239">
- <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
<apcm:DateLineLocation Country="BHS" CountryArea="NASSAU" CountryName="BAHAMAS" />
...
<apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:31990" Value="AP Online Top General Short
Headlines" />
<apcm:Property Name="SequenceNumber" Value="OutOfSequence" Id="0" />
- <apcm:Property Name="Top Headline Parent">
<apcm:Property Name="AP Article" Id="urn:publicid:ap.org:37ccf119a68644cdb01168a278db1d20" />
</apcm:Property>
...
</apcm:ContentMetadata>
- <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
<apnm:ManagementId>urn:publicid:ap.org:2d42cd5717044b9e8572bfe56d460d63</apnm:ManagementId>
<apnm:ManagementSequenceNumber>0</apnm:ManagementSequenceNumber>
<apnm:PublishingStatus>Usable</apnm:PublishingStatus>
</apnm:NewsManagement>
</entry>
...

```

If the `autoFlatten=false` parameter is specified in a feed request, only the parent entry is included in the feed. Note that the feed does not contain the individual story entries and the `<apcm:Property Name="Top Headline Children">` element from the parent entry:

```

- <entry xmlns="http://www.w3.org/2005/Atom">
<id>urn:publicid:ap.org:fe791c47ae224a60983c17fcef40d2ee</id>
<title>Top-General-Headlines</title>
<updated>2009-09-02T15:04:27.660Z</updated>
<published>2009-09-02T14:37:19Z</published>
<rights>Copyright 2009 The Associated Press. All rights reserved. This material may not be published, broadcast,
rewritten or redistributed.</rights>
<content type="text/plain">AP Top News At 10:35 a.m. EDT</content>
+ <link rel="enclosure" title="AP Article" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/Content
Broker.aspx?media=text&recordid=fe791c47ae224a60983c17fcef40d2ee&authToken=eNptk..." type="text/xml">
- <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
<apcm:Priority Numeric="4" Legacy="r" />
<apcm:HeadLine>AP Top News At 10:35 a.m. EDT</apcm:HeadLine>
<apcm:OriginalHeadLine>AP Top News At 10:35 a.m. EDT</apcm:OriginalHeadLine>
<apcm:Keywords>Top-General-Headlines</apcm:Keywords>
...
<apcm:SubjectClassification Authority="AP Category Code" Value="a" Id="a" />
<apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:31990" Value="AP Online Top General Short
Headlines" />
<apcm:Property Name="SequenceNumber" Value="InSequence" Id="3830303" />
<apcm:FirstCreated>2009-09-02T14:37:19Z</apcm:FirstCreated>
</apcm:ContentMetadata>
+ <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
</entry>

```


Example 6: Photo Entry

The following example shows a feed entry for a photo. The links to the photo caption, the main image, the preview image and the thumbnail are highlighted in gray.

```
- <entry xmlns="http://www.w3.org/2005/Atom">
  <id>urn:publicid:ap.org:f7db680f94a9495cb982ea978328071d</id>
  <title>SWEDEN FIGURE SKATING WORLD CHAMPIONSHIPS</title>
  <updated>2009-03-18T15:51:43.947Z</updated>
  <published>2009-03-18T15:51:40Z</published>
  <content type="text/plain">France's Isabelle Delobel and Olivier Schoenfelder perform their compulsory dance routine in the opening event of the World Figure Skating Championships in Goteborg, Sweden. (AP Photo/Francois Mori)</content>
  - <link rel="enclosure" title="AP Caption"
    href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?media=text&recordid=f7db680f94a9495cb982ea978328071d&authToken=eNoVw..." type="text/xml" length="245">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:2777320a6504460a93a56fdf8492bb61" FileExtension="xml"
    Format="NITF" MediaType="Photo" MimeType="text/xml" Role="Caption" SizeInBytes="245"
    xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
  - <link rel="enclosure" title="AP Photo" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?contentid=1ad10e47f191445594de49a8ecae7061&fmt=jpg&role=Main&reldt=2008-03-18T15:51:40&media=Photo&recordid=f7db680f94a9495cb982ea978328071d&authToken=eNoVw..." type="image/jpeg" length="1505513">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:1ad10e47f191445594de49a8ecae7061"
    Digest="f2e7615cbeaa24283626f28f65e68600" FileExtension="jpg" Format="JPEG Baseline" Height="1925"
    MediaType="Photo" MimeType="image/jpeg" OriginalFileName="FIGURE SKATING.JPEG" PhotoType="Horizontal" Role="Main"
    SizeInBytes="1505513" Width="3000" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
  - <link rel="enclosure" title="AP Thumbnail Image" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?contentid=9b4b8d167bea49b99b01b951d5fe9fea&fmt=jpg&role=Thumbnail&reldt=2008-03-18T15:51:40&media=Photo&recordid=f7db680f94a9495cb982ea978328071d&authToken=eNoVw..." type="image/jpeg">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:9b4b8d167bea49b99b01b951d5fe9fea"
    Digest="d531d401c7993752b217cbb9d834fcf2" FileExtension="jpg" Format="JPEG Baseline" Height="82" MediaType="Photo"
    MimeType="image/jpeg" OriginalFileName="FIGURE SKATING.JPEG" Role="Thumbnail" Width="128"
    xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
  - <link rel="enclosure" title="AP Preview Image" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?contentid=6348394b763b483bb154d4d150d40340&fmt=jpg&role=Preview&reldt=2008-03-18T15:51:40&media=Photo&recordid=f7db680f94a9495cb982ea978328071d&authToken=eNoVw..." type="image/jpeg">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:6348394b763b483bb154d4d150d40340"
    Digest="66d73c8d9339b66d817ef2a90752060e" FileExtension="jpg" Format="JPEG Baseline" Height="328"
    MediaType="Photo" MimeType="image/jpeg" OriginalFileName="FIGURE SKATING.JPEG" Role="Preview" Width="512"
    xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
  - <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
    <apcm:DateLineLocation City="GOTEBURG" Country="SWE" CountryName="Sweden" />
    <apcm:ByLine Title="Caption Writer">FM,JW</apcm:ByLine>
    <apcm:ByLine Title="STAFF">Francois Mori</apcm:ByLine>
    <apcm:Credit>ASSOCIATED PRESS</apcm:Credit>
    <apcm:Cycle>AP</apcm:Cycle>
    <apcm:Selector>-----</apcm:Selector>
    <apcm:TransmissionReference>GOT134</apcm:TransmissionReference>
    <apcm:SlugLine>SWEDEN FIGURE SKATING WORLD CHAMPIONSHIPS</apcm:SlugLine>
    <apcm:FriendlyKey>080318010719</apcm:FriendlyKey>
    <apcm:MediaType>Photo</apcm:MediaType>
  </apcm:ContentMetadata>
  - <apcm:EntityClassification Authority="AP Party" Value="FM,JW">
    <apcm:Property Id="11bc985a148d45a781e5bae4d40b1c11" Name="PartyType" Value="CAPTIONWRITER" />
  </apcm:EntityClassification>
  - <apcm:EntityClassification Authority="AP Party" Value="Francois Mori">
    <apcm:Property Id="111a147611e548de93ad20a387d49200" Name="PartyType" Value="PHOTOGRAPHER" />
  </apcm:EntityClassification>
  <apcm:SubjectClassification Authority="AP Subject" Value="Sports" Id="54df6c687df7100483dedf092526b43e" />
  <apcm:SubjectClassification Authority="AP Category Code" Value="Sports" Id="S" />
  <apcm:SubjectClassification Authority="AP Supplemental Category Code" Value="Figure Skating" Id="FIG" />
  <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:102" Value="Sports Photos" />
  <apcm:Property Name="SequenceNumber" Value="InSequence" Id="1188231" />
  <apcm:FirstCreated>2009-03-18T15:51:40Z</apcm:FirstCreated>
</apcm:ContentMetadata>
```

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```
- <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
  <apnm:ManagementId>urn:publicid:ap.org:f7db680f94a9495cb982ea978328071d</apnm:ManagementId>
  <apnm:ManagementSequenceNumber>0</apnm:ManagementSequenceNumber>
  <apnm:PublishingStatus>Usable</apnm:PublishingStatus>
</apnm:NewsManagement>
</entry>
```

Example 7: Graphic Entry

The following example shows a feed entry for a graphic. The links to the caption, the main image, the preview image and the thumbnail are highlighted in gray.

```
- <entry xmlns="http://www.w3.org/2005/Atom">
  <id>urn:publicid:ap.org:00d8d9d1cf11444194768f4bf740961a</id>
  <title>HOUSING STARTS</title>
  <updated>2009-03-18T15:44:00.480Z</updated>
  <published>2009-03-18T15:43:58Z</published>
  <content type="text/plain">Chart shows monthly housing starts for the past 13 months; 1c x 2 5/8 inches; 46.5 mm x 66.7 mm</content>
  - <link rel="enclosure" title="AP Caption"
    href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?media=text&recordid=00d8d9d1cf11444194768f4bf740961a&authToken=eNoFw..." type="text/xml" length="95">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:52faf7cb120941eabede1ac68b203234" FileExtension="xml"
    Format="NITF" MediaType="Graphic" MimeType="text/xml" Role="Caption" SizeInBytes="95"
    xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
  - <link rel="enclosure" title="AP Thumbnail Image" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/Content
    Broker.aspx?contentid=c6a81725e2b0407ea53e66bd0cee7fe5&fmt=jpg&role=Thumbnail&reldt=2008-03-18T
    15:43:58&media=Graphic&recordid=00d8d9d1cf11444194768f4bf740961a&authToken=eNoFw..." type="image/jpeg">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:c6a81725e2b0407ea53e66bd0cee7fe5"
    Digest="42a20a99b4b959c40997f6619f5bb91e" FileExtension="jpg" Format="JPEG Baseline" MediaType="Graphic"
    MimeType="image/jpeg" OriginalFileName="HOUSING STARTS" Role="Thumbnail"
    xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
  - <link rel="enclosure" title="AP Preview Image" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/Content
    Broker.aspx?contentid=be1634e2a6fa4e5d9f53ee0c7e59dbbd&fmt=jpg&role=Preview&reldt=2008-03-18T15:43:58
    &media=Graphic&recordid=00d8d9d1cf11444194768f4bf740961a&authToken=eNoFw..." type="image/jpeg">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:be1634e2a6fa4e5d9f53ee0c7e59dbbd"
    Digest="a0bd573a8b5febe3510d1e0f6d5896b8" FileExtension="jpg" Format="JPEG Baseline" MediaType="Graphic"
    MimeType="image/jpeg" OriginalFileName="HOUSING STARTS" Role="Preview"
    xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
  - <link rel="enclosure" title="AP Graphic" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/
    ContentBroker.aspx?contentid=48683ab26b404c9eb52fd974475b5cea&fmt=AI&role=Main&reldt=2008-03-
    18T15:43:58&media=Graphic&recordid=00d8d9d1cf11444194768f4bf740961a&authToken=eNoFw..."
    type="application/illustrator" length="262397">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:48683ab26b404c9eb52fd974475b5cea"
    Digest="1adebdc84f4368ca7e925b9407e7bea7" FileExtension="AI" Format="AI" MediaType="Graphic"
    MimeType="application/illustrator" OriginalFileName="HOUSING STARTS" Role="Main" SizeInBytes="262397"
    xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
  - <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
    <apcm:ByLine Title="STAFF">Robyn Segal</apcm:ByLine>
    <apcm:ByLine Title="Caption Writer">RS</apcm:ByLine>
    <apcm:Credit>ASSOCIATED PRESS</apcm:Credit>
    <apcm:HeadLine>HOUSING STARTS</apcm:HeadLine>
    <apcm:OriginalHeadLine>HOUSING STARTS</apcm:OriginalHeadLine>
    <apcm:OverLine>HOUSING STARTS</apcm:OverLine>
    <apcm:Cycle>AP</apcm:Cycle>
    <apcm:Selector>-----</apcm:Selector>
    <apcm:SlugLine>HOUSING STARTS</apcm:SlugLine>
    <apcm:MediaType>Graphic</apcm:MediaType>
  - <apcm:EntityClassification Authority="AP Party" Value="RS">
    <apcm:Property Id="11bc985a148d45a781e5bae4d40b1c11" Name="PartyType" Value="CAPTIONWRITER" />
  </apcm:EntityClassification>
  - <apcm:EntityClassification Authority="AP Party" Value="Robyn Segal">
```

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```

<apcm:Property Id="111a147611e548de93ad20a387d49200" Name="PartyType" Value="PHOTOGRAPHER" />
</apcm:EntityClassification>
<apcm:SubjectClassification Authority="AP Category Code" Value="Finance & Business" Id="F" />
<apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:104" Value="Business Graphics" />
<apcm:Property Name="SequenceNumber" Value="InSequence" Id="1187402" />
<apcm:FirstCreated>2009-03-18T15:43:58Z</apcm:FirstCreated>
</apcm:ContentMetadata>
- <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
<apnm:ManagementId>urn:publicid:ap.org:a29a8030de0a463da001246976b638e4</apnm:ManagementId>
<apnm:ManagementSequenceNumber>0</apnm:ManagementSequenceNumber>
<apnm:PublishingStatus>Usable</apnm:PublishingStatus>
<apnm:PublishingSpecialInstructions>BC-Economy</apnm:PublishingSpecialInstructions>
</apnm:NewsManagement>
</entry>

```

Example 8: Audio Entry

The following example shows a feed entry for an audio item. The links to the audio files in various formats (such as MP3, MPG, RA and WAV) are highlighted in gray.

```

- <entry xmlns="http://www.w3.org/2005/Atom">
<id>urn:publicid:ap.org:27863be4889f47c1a1f725f67e1e3962</id>
<title>McCartney Divorce</title>
<updated>2008-03-18T15:27:07.557Z</updated>
<published>2008-03-18T15:27:00Z</published>
<content type="text/plain">Correspondent Peter Krause (KROW'-zuh) reports that the McCartney-Mills divorce ruling is fair game for all to read.</content>
- <link rel="enclosure" title="AP Audio" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?contentid=1b6a0ac587cb420ba93cf2ac7834fb35&fmt=MPG&role=Main&reldt=2008-03-18T00:11:32&media=Audio&recordid=27863be4889f47c1a1f725f67e1e3962&authToken=eNoNw..." type="audio/Mpeg" length="118940">
<apcm:Characteristics ContentId="urn:publicid:ap.org:1b6a0ac587cb420ba93cf2ac7834fb35" FileExtension="MPG" Format="MPEG" MediaType="Audio" MimeType="audio/Mpeg" OriginalFileName="200803181126-170.mp2" Resolution="16" ResolutionUnits="bits" Role="Main" SampleRate="22050.000000" SizeInBytes="118940" TotalDuration="10" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <link rel="enclosure" title="AP Audio" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?contentid=f8c64e95ace8453fb39da04f8837fb75&fmt=MP3&role=Main&reldt=2008-03-18T00:11:32&media=Audio&recordid=27863be4889f47c1a1f725f67e1e3962&authToken=eNoNw..." type="audio/Mpeg" length="80485">
<apcm:Characteristics ContentId="urn:publicid:ap.org:f8c64e95ace8453fb39da04f8837fb75" FileExtension="MP3" Format="MP3" MediaType="Audio" MimeType="audio/Mpeg" OriginalFileName="200803181126-170.mp3" Resolution="16" ResolutionUnits="bits" Role="Main" SampleRate="22050.000000" SizeInBytes="80485" TotalDuration="10" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <link rel="enclosure" title="AP Audio" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?contentid=3e0da78b1a9948449076569f2c3c0436&fmt=RA&role=Main&reldt=2008-03-18T00:11:32&media=Audio&recordid=27863be4889f47c1a1f725f67e1e3962&authToken=eNoNw..." type="audio/x-pn-realaudio" length="67324">
<apcm:Characteristics ContentId="urn:publicid:ap.org:3e0da78b1a9948449076569f2c3c0436" FileExtension="RA" Format="Real Audio" MediaType="Audio" MimeType="audio/x-pn-realaudio" OriginalFileName="200803181126-170.ra" ResolutionUnits="bits" Role="Main" SampleRate="28000.000000" SizeInBytes="67324" TotalDuration="10" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <link rel="enclosure" title="AP Audio" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?contentid=be4049ef388f46a5b9783ebe5668d797&fmt=WAV&role=Main&reldt=2008-03-18T00:11:32&media=Audio&recordid=27863be4889f47c1a1f725f67e1e3962&authToken=eNoNw..." type="audio/Wav" length="79457">
<apcm:Characteristics ContentId="urn:publicid:ap.org:be4049ef388f46a5b9783ebe5668d797" FileExtension="WAV" Format="Waveform Audio" MediaType="Audio" MimeType="audio/Wav" OriginalFileName="200803181126-170.wav" Resolution="8" ResolutionUnits="bits" Role="Main" SampleRate="8000.000000" SizeInBytes="79457" TotalDuration="10" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
<apcm:DateLineLocation CountryArea="LONDON" />
<apcm:ByLine Title="Speaker">Peter Krause (KROW'-zuh), correspondent</apcm:ByLine>
<apcm:DateLine>LONDON</apcm:DateLine>
<apcm:HeadLine>Correspondent Peter Krause (KROW'-zuh) reports that the McCartney-Mills divorce ruling is fair game for all to read.</apcm:HeadLine>
<apcm:OriginalHeadLine>Correspondent Peter Krause (KROW'-zuh) reports that the McCartney-Mills divorce ruling is fair game for all to read.</apcm:OriginalHeadLine>

```

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```

<apcm:Keywords>McCartney Divorce</apcm:Keywords>
<apcm:OutCue>four-year-old daughter</apcm:OutCue>
<apcm:SlugLine>McCartney Divorce</apcm:SlugLine>
<apcm:MediaType>Audio</apcm:MediaType>
<apcm:SubjectClassification Authority="AP Category Code" Value="e" />
<apcm:SubjectClassification Authority="AP Supplemental Category Code" Value="g" />
<apcm:SubjectClassification Authority="AP Audio Category Code" Value="Entertainment" Id="e" />
<apcm:SubjectClassification Authority="AP Audio Category Code" Value="eg" />
<apcm:SubjectClassification Authority="AP Genre" Value="Question and answer session" Id="c" />
<apcm:SubjectClassification Authority="AP Audio Cut Number Code" Value="170" />
<apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:105" Value="Entertainment Audio" />
<apcm:Property Name="SequenceNumber" Value="InSequence" Id="1185128" />
<apcm:FirstCreated>2008-03-18T15:27:00Z</apcm:FirstCreated>
</apcm:ContentMetadata>
- <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
  <apnm:ManagementId>urn:publicid:ap.org:1d358e7c17134b23820e6ab6239204cc</apnm:ManagementId>
  <apnm:ManagementSequenceNumber>0</apnm:ManagementSequenceNumber>
  <apnm:PublishingStatus>Usable</apnm:PublishingStatus>
</apnm:NewsManagement>
</entry>

```

Example 9: Video Entry

The following example shows a feed entry for a video item. The links to the script, caption, thumbnails of different sizes, the preview image, video files in a variety of formats (such as RM, Flash and WMV, each at various quality levels) and the OVN video player are highlighted in two shades of gray. The link type (for example, link to the caption, thumbnail or video) and the video format are shown in green.

```

- <entry xmlns="http://www.w3.org/2005/Atom">
  <id>urn:publicid:ap.org:d5ebcfe8f53d4a569f0524a18c722c80</id>
  <title>college_stress_poll</title>
  <updated>2008-03-18T18:44:15.063Z</updated>
  <published>2008-03-18T15:19:00Z</published>
  <rights>Copyright 2008 The Associated Press</rights>
  <content type="text/plain">[Notes:ANCHOR VOICE] [Notes:VO campus file of quad, ivy, campus of UCSF, sign]BEYOND WELL-KEPT QUADS ... AND IVY-COVERED WALLS ... COLLEGE LIFE IS *FULL* OF STRESS. [Notes:0:13:27]SOT: I'm just totally irritable, Less focused ... I do a lot poorer on my exams and my communication with people is not as positive usually ... 4 IN 10 STUDENTS SAY THEY HAVE ENDURED STRESS OFTEN IN RECENT MONTHS...</content>
  - <link rel="enclosure" title="AP Caption" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/Content Broker.aspx?media=text&recordid=d5ebcfe8f53d4a569f0524a18c722c80&authToken=eNoFw..." type="text/xml">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:8d43bf29565b4e0cb2cc28d5eedae84" FileExtension="xml" Format="NITF" MediaType="Video" MimeType="text/xml" Role="Caption" SizeInBytes="173" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
  - <link rel="enclosure" title="AP Script" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx?media=text&recordid=d5ebcfe8f53d4a569f0524a18c722c80&authToken=eNoNw..." type="text/xml">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:5a28721c74c34046947e2867d0e9c64b" FileExtension="xml" Format="NITF" MediaType="Video" MimeType="text/xml" Role="Script" SizeInBytes="63" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
  - <link rel="enclosure" title="AP Thumbnail Image" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/Content Broker.aspx?contentid=628a64eba4a448a6beb75bbd5b9974ba&fmt=jpg&role=Thumbnail&reldt=2008-03-18T 15:19:00&media=Video&recordid=d5ebcfe8f53d4a569f0524a18c722c80&authToken=eNoFw..." type="image/jpeg">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:628a64eba4a448a6beb75bbd5b9974ba" FileExtension="jpg" Format="JPEG Baseline" Height="70" MediaType="Video" MimeType="image/jpeg" OriginalFileName="0318dv_college_stress_poll_105x070.jpg" Role="Thumbnail" Width="105" SizeInBytes="2161" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>
  - <link rel="enclosure" title="AP Preview Image" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/Content Broker.aspx?contentid=aa3e2a63eeff4101b5d5e515cce70ede&fmt=jpg&role=Preview&reldt=2008-03-18T 15:19:00&media=Video&recordid=d5ebcfe8f53d4a569f0524a18c722c80&authToken=eNoFw..." type="image/jpeg">
    <apcm:Characteristics ContentId="urn:publicid:ap.org:aa3e2a63eeff4101b5d5e515cce70ede" FileExtension="jpg" Format="JPEG Baseline" Height="300" MediaType="Video" MimeType="image/jpeg" OriginalFileName="0318dv_college_stress_poll_400x300.jpg" Role="Preview" Width="400" SizeInBytes="14586" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
  </link>

```

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```

...
- <link rel="enclosure" title="AP Thumbnail Image" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/Content
Broker.aspx?contentid=a00c82042a275a06aa0e6a7067008cb6&fmt=jpg&role=Thumbnail&reldt=2008-03-18T
15:19:00&media=Video&recordid=d5ebcfe8f53d4a569f0524a18c722c80&authToken=eNoFw..." type="image/jpeg">
<apcm:Characteristics ContentId="urn:publicid:ap.org:628a64eba4a448a6beb75bbd5b9974ba" FileExtension="jpg"
Format="JPEG Baseline" Height="135" MediaType="Video" MimeType="image/jpeg"
OriginalFileName="0318dv_college_stress_poll_180x135.jpg" Role="Thumbnail" Width="180" SizeInBytes="4581"
xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <link rel="enclosure" title="AP Video" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx
?contentid=883de6d5e2354e55b88a2d6319321f91&fmt=rm&role=Main&reldt=2008-03-18T15:19:00&media=Video
&recordid=d5ebcfe8f53d4a569f0524a18c722c80&authToken=eNoFw..." type="application/vnd.rn-realmedia"
length="11966748">
<apcm:Characteristics AverageBitRate="722.000000"
ContentId="urn:publicid:ap.org:883de6d5e2354e55b88a2d6319321f91" FileExtension="rm" Format="Real Video"
FrameRate="29.970000" Height="480" MediaType="Video" MimeType="application/vnd.rn-realmedia"
OriginalFileName="0318dv_college_stress_poll_x040f.rm" Role="Main" SampleRate="850.000000" SizeInBytes="11966748"
VideoCoder="Real G2" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <link rel="enclosure" title="AP Video" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx
?contentid=c7445984f45a4b53a094e1fe6cbdd63e&fmt=rm&role=Main&reldt=2008-03-18T15:19:00&media=Video
&recordid=d5ebcfe8f53d4a569f0524a18c722c80&authToken=eNoFw..." type="application/vnd.rn-realmedia"
length="10092894">
<apcm:Characteristics AverageBitRate="416.000000" ContentId="urn:publicid:ap.org:c7445984f45a4b53a094e1fe6cbdd63e"
FileExtension="rm" Format="Real Video" FrameRate="20.000000" Height="240" MediaType="Video"
MimeType="application/vnd.rn-realmedia" OriginalFileName="0318dv_college_stress_poll_x060g.rm" Role="Main"
SampleRate="480.000000" SizeInBytes="10092894" VideoCoder="Real G2"
xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <link rel="enclosure" title="AP Video" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx
?contentid=027a157abd864771b96bd8d83a7ea638&fmt=flv&role=Main&reldt=2008-03-18T15:19:00&media=Video
&recordid=d5ebcfe8f53d4a569f0524a18c722c80&authToken=eNoFw..." type="application/flv" length="7284567">
<apcm:Characteristics AverageBitRate="416.000000"
ContentId="urn:publicid:ap.org:027a157abd864771b96bd8d83a7ea638" FileExtension="flv" Format="Flash Video"
FrameRate="20.000000" Height="360" MediaType="Video" MimeType="application/flv"
OriginalFileName="0318dv_college_stress_poll_x030a.flv" Role="Main" SampleRate="480.000000" SizeInBytes="7284567"
VideoCoder="Flash" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
...
- <link rel="enclosure" title="AP Video" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx
?contentid=18758c11a54a4b65839bb7fff5b694e4&fmt=flv&role=Main&reldt=2008-03-18T15:19:00&media=Video
&recordid=d5ebcfe8f53d4a569f0524a18c722c80&authToken=eNoFw..." type="application/flv" length="20785307">
<apcm:Characteristics AverageBitRate="1372.000000"
ContentId="urn:publicid:ap.org:18758c11a54a4b65839bb7fff5b694e4" FileExtension="flv" Format="Flash Video"
FrameRate="30.000000" Height="480" MediaType="Video" MimeType="application/flv"
OriginalFileName="0318dv_college_stress_poll_x050a.flv" Role="Main" SampleRate="1500.000000" SizeInBytes="20785307"
VideoCoder="Flash" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <link rel="enclosure" title="AP Video" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx
?contentid=d902a1ca22054b8692c8d747107ce6aa&fmt=wmv&role=Main&reldt=2008-03-18T15:19:00&media=Video
&recordid=d5ebcfe8f53d4a569f0524a18c722c80&authToken=eNoFw..." type="video/x-ms-wmv" length="736743">
<apcm:Characteristics AverageBitRate="42.000000" ContentId="urn:publicid:ap.org:d902a1ca22054b8692c8d747107ce6aa"
FileExtension="wmv" Format="Windows Media" FrameRate="8.000000" Height="180" MediaType="Video" MimeType="video/x-
ms-wmv" OriginalFileName="0318dv_college_stress_poll_x010b.wmv" Role="Main" SampleRate="50.000000"
SizeInBytes="736743" VideoCoder="Microsoft Windows Media Video"
xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
...
- <link rel="enclosure" title="AP Video" href="http://syndication.ap.org/AP.Distro.ContentBrokerSite/ContentBroker.aspx
?contentid=bb7f8ddd60bf4334bf3e5ba0f2709e30&fmt=wmv&role=Main&reldt=2008-03-18T15:19:00&media=Video
&recordid=d5ebcfe8f53d4a569f0524a18c722c80&authToken=eNoFw..." type="video/x-ms-wmv" length="21454292">
<apcm:Characteristics AverageBitRate="754.000000" ContentId="urn:publicid:ap.org:bb7f8ddd60bf4334bf3e5ba0f2709e30"
FileExtension="wmv" Format="Windows Media" FrameRate="29.970000" Height="480" MediaType="Video"
MimeType="video/x-ms-wmv" OriginalFileName="0318dv_college_stress_poll_x060c.wmv" Role="Main"
SampleRate="850.000000" SizeInBytes="21454292" VideoCoder="Microsoft Windows Media Video"
xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>

```

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Continued

```

<link rel="enclosure" title="AP OVN Video"
href="http://video.ap.org/uat/player/?t=By%20Section/Showbiz&g=US-0318dv-20080318EV&f=AP">
  <apcm:Characteristics ContentId="urn:publicid:ap.org:bb7f8ddd60bf4334bf3e5ba0f2709e30"
  FileExtension="BIN" MediaType="Video" Role="Main" xmlns:apcm="http://ap.org/schemas/03/2005/apcm" />
</link>
- <apcm:ContentMetadata xmlns:apcm="http://ap.org/schemas/03/2005/apcm">
  <apcm:DownstyleHeadLine>AP-MTVu Poll: Students majoring in stress</apcm:DownstyleHeadLine>
  <apcm:HeadLine>AP-MTVu Poll: Students Majoring in Stress</apcm:HeadLine>
  <apcm:OriginalHeadLine>AP-MTVu Poll: Students Majoring in Stress</apcm:OriginalHeadLine>
  <apcm:MediaType>Video</apcm:MediaType>
  <apcm:SubjectClassification Authority="AP Subject" Value="Internet technologies"
  Id="70773e988b6b10048b30a385cd5ce603" />
  <apcm:SubjectClassification Authority="AP Subject" Value="Information and communication technologies"
  Id="29dfdd288b6b10048ff4bd945080b03e" />
  <apcm:SubjectClassification Authority="AP Subject" Value="Technology" Id="455ef2b87df7100483d8df092526b43e" />
  <apcm:SubjectClassification Authority="AP Subject" Value="Streaming media technologies"
  Id="5da228f88b6d10048734b5b842854103" />
  <apcm:SubjectClassification Authority="AP Category Code" Value="Domestic News" Id="A" />
  <apcm:SalesClassification Authority="AP Sales Code" Value="Premium" Id="EBFA4F188A0F10048A4ED56C852D093E" />
  <apcm:Property Name="EntitlementMatch" Id="urn:publicid:ap.org:product:106" Value="Domestic News Video" />
  <apcm:Property Name="SequenceNumber" Value="InSequence" Id="1188448" />
  <apcm:FirstCreated>2008-03-18T15:19:00Z</apcm:FirstCreated>
</apcm:ContentMetadata>
- <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
  <apnm:ManagementId>urn:publicid:ap.org:e3f84c9c2c1e4519a7343f3e04393665</apnm:ManagementId>
  <apnm:ManagementSequenceNumber>0</apnm:ManagementSequenceNumber>
  <apnm:PublishingStatus>Usable</apnm:PublishingStatus>
</apnm:NewsManagement>
</entry>

```

Example 10: Embargoed Article Entry

The publishing status of an embargoed article is highlighted in gray in the following example:

```

<entry xmlns="http://www.w3.org/2005/Atom">
  <id>urn:publicid:ap.org:753f9b39253940a6acd8d993fb3fdc4c</id>
  <title>Jobless-Benefits</title>
  <updated>2009-11-20T15:02:53.683Z</updated>
  <published>2009-11-20T08:12:06Z</published>
  ...
  <apnm:NewsManagement xmlns:apnm="http://ap.org/schemas/03/2005/apnm">
    <apnm:ManagementId>urn:publicid:ap.org:5c08ea18b6934f8d9e24265580f57257</apnm:ManagementId>
    ...
    <apnm:PublishingStatus statusChangeOn="2009-11-21T12:30:00Z">Embargoed</apnm:PublishingStatus>
  </apnm:NewsManagement>
</entry>

```

Story Formats

NITF Format

About NITF

News Industry Text Format (NITF) uses XML to define the content and structure of news articles. NITF documents are far more searchable and useful than HTML pages. By using NITF, publishers can adapt the look, feel and interactivity of their documents to the bandwidth, devices and personalized needs of their subscribers. NITF supports identification and description of many news characteristics, including:

- *Who* owns the copyright to the item, who may republish it, and who it is about.
- *What* subjects, organizations and events it covers.
- *When* it was reported, issued and revised.
- *Where* it was written, where the action took place, and where it may be released.
- *Why* it is newsworthy, based on the editor's analysis of the metadata.

For complete NITF specifications, go to the NITF Web site at <http://www.nitf.org>.

NITF Definitions and Usage

NITF 3.4 documents delivered by AP WebFeeds do not contain the full set of AP metadata because it is included in the AP ATOM feed. NITF-formatted stories contain links to suggested media if this content is available and if you are authorized to view it.

NITF documents can contain the following standard XML tags:

XML Tag	Description
<?xml version="1.0" encoding="UTF-8"?>	The document type to be rendered.
<nitf>	Start of the NITF code.
<head>	Start of the <head> section.
<docdata>	Metadata container, or subset, for additional metadata information.
<doc.rights>	The holder of the publishing rights.
<doc.copyright>	The holder of the copyright.
</docdata> and </head>	End of the <docdata> and the <head> sections.
<body>	Begin the content portion of document.
<body.head>	Metadata intended to be displayed to the reader.
<hedline>	Container for headlines and sub-headlines.
<h1 id="headline"> ... </h1>	Headline 1. Main headline; may include content versioning information.
<h2 id="originalHeadline"> ... </h2>	Headline 2. Original headline, which is appropriate for publishing to an audience.
</hedline>	End of the headlines section.
<byline> and <byttl>	Container for byline and byline title information.
<distributor> ... </distributor>	Indicates the distributor of information.
<dateline> and <location>	The dateline section, which contains the location of the story.
</body.head>	End of the <body.head> section.

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Continued

XML Tag	Description
<body.content>	Actual body content.
<media>	Start of the media references section.
<media-metadata name="id">	The revision ID of the suggested content or OVN video.
<media-metadata name="FriendlyKey">	(For photos only) A unique ID for easier photo identification.
<media-caption> ... </media-caption>	Suggested media caption.
<media-metadata name="OriginalFileName">	The name of the original file containing suggested content.
<media-reference>	Link to suggested media or OVN video player. Note: If a file extension is not available, the default file extension .BIN is used in the coding attribute.
<media-producer> ... </media-producer>	Indicates the producer of the suggested content.
</media>	End of the media references section.
<block> ... </block>	Contains a group of body text.
</body.content>, </body> and </nif>	Closed <body.content>, <body > and <nif> tags.

NITF Example

The following example shows an NITF document referenced in the AP ATOM feed. The caption of a suggested photo and the links to its main, preview and thumbnail versions are shown in gray:

```
<?xml version="1.0" encoding="utf-8" ?>
<nitf version="-//IPTC//DTD NITF 3.4//EN" change.date="October 18, 2006" change.time="19:30">
<head>
<docdata>
<doc-id regsrc="AP" />
<doc.rights owner="http://www.ap.org" agent="http://license.icopyright.net" type="none" />
<doc.copyright holder="AP" year="2009" />
</docdata>
</head>
<body>
<body.head>
<headline>
<hl1 id="headline">Group Finds Toad the Size of a Small Dog, 1st Ld-Writethru</hl1>
<hl2 id="originalHeadline">Group Finds Toad the Size of a Small Dog</hl2>
</headline>
<distributor>The Associated Press</distributor>
<dateline>
<location>DARWIN, Australia</location>
</dateline>
</body.head>
<body.content>
<media id="media:d0f1b96c31f4417f98f14f9108d19b04" media-type="Photo">
<media-metadata id="media-id: d0f1b96c31f4417f98f14f9108d19b04" name="id"
value="urn:publicid:ap.org:d0f1b96c31f4417f98f14f9108d19b04" />
<media-metadata id="media-friendlyKey:d0f1b96c31f4417f98f14f9108d19b04" name="FriendlyKey"
value="080306015571" />
<media-caption id="media-caption:d0f1b96c31f4417f98f14f9108d19b04">
<p>In this photo supplied by Frogwatch, Graeme Sawyer holds a 40cm (15 inch) long cane toad near Darwin, Australia
Monday, March 3, 2008... (AP Photo/Frogwatch, HO)</p>
</media-caption>
<media-metadata id="media-metadata-OriginalFileName:cb9a833c3f1540669600486d8f0aa4c7" name="OriginalFileName"
value="MONSTER TOAD.JPEG" />
<media-reference id="media-reference:cb9a833c3f1540669600486d8f0aa4c7" mime-type="image/jpeg" name="AP Photo"
source="http://syndication.ap.org/AP.Distro.ContentBroker/ContentBroker.aspx?contentid=cb9a833c3f15406696004
86d8f0aa4c7&fmt=jpg&role=Main&reIdt=2008-03-
07T09:19:36&media=Photo&recordid=cb9a833c3f1540669600486d8f0aa4c7&authToken=xGMue..." height="1481"
width="2098" coding="jpg" />
<media-metadata id="media-metadata-OriginalFileName:d372ec8a1f4747579e8929b38618c7ca"
name="OriginalFileName" value="MONSTER TOAD.JPEG" />
```

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Continued

```

<media-reference id="media-reference:d372ec8a1f4747579e8929b38618c7ca" mime-type="image/jpeg" name="AP
Thumbnail Image" source="http://syndication.ap.org/AP.Distro.ContentBroker/ContentBroker.aspx?contentid=
d372ec8a1f4747579e8929b38618c7ca&fmt=jpg&role=Thumbnail&reldt=2008-03-07T09:19:36&media=Photo
&recordid=d372ec8a1f4747579e8929b38618c7ca&authToken=xGMue..." height="90" width="128" coding="jpg" />
<media-metadata id="media-metadata-OriginalFileName:df5ee79ca5ef453fbee02166d0d31835" name="OriginalFileName"
value="MONSTER TOAD.JPEG" />
<media-reference id="media-reference:df5ee79ca5ef453fbee02166d0d31835" mime-type="image/jpeg" name="AP Preview
Image" source="http://syndication.ap.org/AP.Distro.ContentBroker/ContentBroker.aspx?contentid=
df5ee79ca5ef453fbee02166d0d31835&fmt=jpg&role=Thumbnail&reldt=2008-03-07T09:19:36&media=Photo
&recordid=df5ee79ca5ef453fbee02166d0d31835&authToken=xGMue..." height="361" width="512" coding="jpg" />
<media-producer id="media-caption:d0f1b96c31f4417f98f14f9108d19b04">The Associated Press</media-producer>
</media>
= <block>
<p>DARWIN, Australia (AP) _ An environmental group said Tuesday it had captured a "monster" toad the size of a small
dog.</p>
<p>With a body the size of a football and weighing nearly 2 pounds, the toad is among the largest specimens ever
captured in Australia, according to Frogwatch coordinator Graeme Sawyer.</p>
...
</block>
</body.content>
<body.end />
</body>
</nitf>

```

Example of a link to the OVN video player in an NITF-formatted story:

```

<media-metadata id="media-metadata-APOVN:ed4d70c0d7064bf782b31dc9adb1f7cb" name="AP OVN Video"
value="AP OVN video, follow URL in source attribute to video player location" />
<media-reference id="media-reference:ed4d70c0d7064bf782b31dc9adb1f7cb" name="AP OVN Video"
source="http://video.ap.org/uat/player/?t=By%20Section/World&g=1202dvs_thai_protesters&f=AP"
alternate-text="Thai Court Dissolves Govt. to Protesters Delight" coding="BIN" />

```

If the **showInlineLinks=true** parameter is specified in a feed request, the body text of the NITF-formatted story contains inline links added by AP editors, if available; for example:

```

= <block>
<p>DARWIN, Australia (AP) _ An environmental group said Tuesday it had captured a "monster" toad the size of a small
dog.</p>
<p>With a body the size of a football and weighing nearly 2 pounds, the toad is among the largest specimens ever
captured in Australia, according to <a href="http://www.frogwatch.org.au">Frogwatch</a> coordinator Graeme
Sawyer.</p>
...
</block>

```

hNews Format

hNews is a microformat for news on the Web. It extends the hATOM microformat with several fields specific to news. For more information, visit <http://microformats.org/wiki/hNews>.

You can use one of the following parameters in the feed request to receive stories in the hNews format:

- The **showHNewsLinks=true** parameter to receive AP ATOM feeds with links to hNews-formatted stories.
- The **fullContent=hnews** parameter to include hNews-formatted stories in the AP ATOM feed.

For more information, see "URL Syntax and Parameters for a Feed Request" on page 6.

ANPA Format

ANPA is a traditional wire transmission text format. For more information, see *AP WebFeeds ANPA Delivery Reference Guide*.

Important: ANPA files contain special control characters and must be saved as raw bytes. Do not open and save these files in a text editor because the control characters may be altered.

You can use one of the following parameters in the feed request to receive stories in the ANPA format:

- The **showAnpaLinks=true** parameter to receive AP ATOM feeds with links to ANPA-formatted stories.
- The **fullContent=anpa** parameter to include ANPA-formatted stories in the AP ATOM feed. The ANPA story body is returned in the feed's <content> tag and is encoded as a BASE-64 string of binary bytes.

Note: To receive all filings of a story, use the **showAllFilings=true** parameter in addition to one of the above parameters.

For more information, see "URL Syntax and Parameters for a Feed Request" on page 6 and "Example 3: Links to ANPA and IPTC 7901 Files in the AP ATOM Feed" on page 34.

IPTC 7901 Format

IPTC 7901 is a traditional news service text markup specification developed by the International Press Telecommunications Council. For more information, visit <http://www.iptc.org>.

You can use one of the following parameters in the feed request to receive stories in the IPTC 7901 format:

- The **showIptcLinks=true** parameter to receive AP ATOM feeds with links to IPTC-formatted stories.
- The **fullContent=iptc** parameter to include IPTC-formatted stories in the AP ATOM feed. The IPTC story body is returned in the feed's <content> tag and is encoded as a BASE-64 string of binary bytes.

Note: To receive all filings of a story, use the **showAllFilings=true** parameter in addition to one of the above parameters.

For more information, see "URL Syntax and Parameters for a Feed Request" on page 6 and "Example 3: Links to ANPA and IPTC 7901 Files in the AP ATOM Feed" on page 34.

Example: A Story in IPTC Format

```

AP2497 4 fxx 141 f2497 ;EN;x;O;00000000;
^BC-APFN-US--Ark Stimulus, 0141<

^Ark. launches iPhone application on stimulus cash<
      LITTLE ROCK, Ark. (AP) - Information on Arkansas' share of federal stimulus dollars is coming to an iPhone near
you.
      State officials on Wednesday launched a free application for users of Apple's iPhone that will allow them to track
the state's $2.9 billion that it's expected to receive in federal stimulus funds. The application, which state officials say is the
first state government application in the country allowing users to track stimulus dollars, is available through the iTunes store
under the name "Arkansas.gov Recovery Project Search."
      The application allows users to search projects by keyword or by city or county name. It also includes a "near
me" feature that allows users to find projects located near them by using the iPhone's Global Positioning System.
_____061904 GMT May
09

```

Important: IPTC 7901 files contain special control characters and must be saved as raw bytes. Do not open and save these files in a text editor because the control characters may be altered.

Glossary

ANPA	A traditional wire transmission text format. The acronym stands for Associated Newspaper Publisher's Association that is now known as the Newspaper Association of America.
AP ATOM	The default format for <i>AP WebFeeds</i> delivery. AP ATOM is the ATOM 1.0 format with additional proprietary metadata inserted by the AP and embedded links to stories or media files (images, audio and video). The AP ATOM feed may also include external links to the AP Online Video Network (OVN) and third-party Web sites.
AP Exchange	A Web-based application that enables users to view, search and select a variety of news <i>content</i> on one screen.
AP Top Headlines	Collections of AP's top news stories, which are filed by AP editors multiple times during the day, many times with the same stories.
AP WebFeeds	An AP system that delivers news <i>content</i> via an HTTP feed for ingestion by the customers' production systems.
Content	Text, photos, graphics, audio and video for news stories.
Feed	An XML document that consists of items known as 'entries' where each entry contains metadata that describes the entry content and links to the content files.
hNews	A microformat that is based on XHTML elements.
IPTC	International Press Telecommunications Council. IPTC 7901 is a traditional news service text markup specification developed by IPTC.
Main Image	The high-resolution version of an image.
Marketplace	An <i>AP Exchange</i> feature that allows AP members to share news content freely (currently, text, photos and graphics) with other AP members in their state or nationwide.
Metadata	Information that describes news <i>content</i> , for example, the story byline, category and media type.
NITF	News Industry Text Format. An XML-compliant markup language for news copy, press releases, wire services, newspapers, broadcasters and Web-based news organizations.
Preview Image	The low-resolution version of an image displayed in Web-based applications.
Product	A standard AP news service or report, which is defined by a name, a product ID number and a description; for example, AP Online National News.
Saved Search	A set of search criteria saved for reuse at a later time.
Suggested Media	Photos, graphics, audio and video that are linked to a news story by an AP editorial staff member.
Thumbnail	The small version of an image.