<!-- Annotated NWEM CAP Example -->
<!--
HazCollect Non-weather Emergency Messages are a specialization of CAP 1.1.
1. There are some tags that are required for CAP, but not used in NWEM. NWEM builders should use these fields appropriately as NWEM Messages may also travel on Cap networks.
2. There are some optional tags that are required for NWEM. Some of these have special content restrictions. Those restrictions are needed in order to support NOAA's downstream systems.
3. Some cardinalities are more restrictive in NWEM than they are in CAP. These cardinality restrictions are also required to adequately support downstream system requirements.
4. Finally, there are some tags that are optional in CAP and not used by HazCollect. As in item 1 above, the OPEN interface will take these fields but will not process them thorough NWEM. If the message is also posted though the general CAP network, these tags will be processed appropriately. The Comments in the following CAP message further define the specific requirements for processing as an NWEM message.
-->
<alert xmlns="urn:oasis:names:tc:emergency:cap:1.1">

    <!--Identifier must be a unique identifier across the system. Suggest using a system identifier in form of an actual identifier string. The DM program affixes a DM in form of a randomly generated long integer turned to a string. You may use what you like, but it should carry a guarantee of uniqueness.
-->
    <identifier>DM31175513862327615488gh_02</identifier>

    <!--The sender field is required in CAP but not used in the corresponding NWEM. It is of value for messages that will travel on CAP networks as well as to HazCollect. A common practice is to use an email identification type format (e.g., senderPerson@domainName.net). The DM program uses the COG name with underlines in place of any spaces found in that name. Either solution is acceptable.
-->
    <sender>DMI-_Services_Project_Team</sender>

    <!--Time at which the message is released. Exactly as define in the CAP1.1 spec
-->
    <sent>2006-04-20T10:12:29-04:00</sent>

    <!--Enumerated Value Actual, Exercise, System, or Test. "Draft" from CAP1.1 is not allowed for NWEM posting. The tag itself in not used in the actual NWEM message, but is used in pre-processing. For any message other than Actual the following text will automatically be added by the HazCollect Server to Resulting NWEM message translation: " ....THIS IS A <status> MESSAGE. DO NOT TAKE ACTION BASED ON THIS <status> message..." This additional text WILL NOT be added to the text of the CAP message itself. Messages broadcast on other CAP networks will need to take this into account and add specific additional warnings to the description field in the info block of the CAP message, where applicable. Such additional warnings are OK with the HazCollect system as they re-emphasize the fact that a message is not an "actual" alert. -->

Test

<!--msgType is not directly used in NWEM but is valid for NWEM messages passed
in parallel through CAP channels. It is also used in NWEM pre-processing.
The server will use an Error, Update or Cancel message to do exactly that
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if the message references a previously sent NWEM Alert that has not yet
expired. The Error, Update or Cancel message must properly reference the originating
message in its references tag.
-->
<msgType>Alert</msgType>

<!--
Last name of sender and initials. This field is used in combination with the CAP <identifier>
to "sign" the bottom of the message in its NWEM format.
-->
<source>HamGA</source>

<!--All NWEM Messages must have a Public scope
-->
<scope>Public</scope>

<!--<references> is not used directly in an NWEM message but is valid for
NWEM messages passed in parallel through CAP channels and is processed by
the NWEM server to update unexpired previous NWEM messages. The server
will use an Error, Update or Cancel messageType message to do exactly that
if the message references a previously sent NWEM Alert that has not yet
expired.
-->
<references/>

<!--An NWEM instance can have only one info block vice the many allowed in
regular CAP messaging.
-->
<info>

        <!--Language is required. Only two values allowed: en-US or sp-US.
        -->
        <language>en-US</language>

        <!--Category is a required CAP1.1 tag. It is not used in the outgoing NWEM but is
        used in parallel CAP channels. -->
        <category>Other</category>

<!--Event is a required field for HazCollect and is still a string. The specific String, however is specialized from CAP. It must be one of an enumerated set of NWEM names and must relate to the Event Code tag below. For NWEM, it is the text name of the SAME Code found below in alert/info/eventCode/value. Allowed values are found in Appendix C below.
-->
<event>Administrative Message/Follow up Statement</event>

<!--Urgency is a required CAP1.1 tag. It is not used in the outgoing NWEM, but is used in parallel CAP channels.
-->
<urgency>Future</urgency>

<!--Severity is a required CAP1.1 tag. It is not used in the outgoing NWEM, but is used in parallel CAP channels.
-->
<severity>Moderate</severity>

<!--Certainty is a required CAP1.1 tag. It is not used in the outgoing NWEM, but is used in parallel CAP channels. -->
<certainty>Unlikely</certainty>

<!--Event Code is an optional, 1 to many, structure in CAP1.1. For HazCollect exactly one instance of the tag is required. -->
<eventCode>

        <!--The only eventCode/ValueName name accepted by HazCollect
        is "SAME" or "same." All HazCollect CAP messages must be
        "SAME" messages or they will not be accepted for NWEM translation.
        -->
        <valueName>SAME</valueName>

        <!--The eventCode/value must be one item from the list of SAME codes
        recognized by HazCollect. It must be the code that corresponds to the
        name found in the <event> tag above. Allowed values are defined in
        Appendix C below.
        -->
        <value>ADR</value>

</eventCode>

<!--<effective> must be set to the same time as <sent> for HazCollect
-->
<effective>2006-04-20T10:12:29-04:00</effective>

<!--<onset> is not used by HazCollect. HazCollect assumes

sent = effective = onset
This makes sense in the NWEM scenario because NOAA radio warnings
are limited to immanent actual happenings.

<expires> is optional in CAP1.1 but required for HazCollect. Known in HazCollect as
"Product Purge Time", it also has special requirements in terms
of value as follows:
1. It must not exceed <sent> by more than 360 minutes
2. It must differ from <sent> in exactly 15 minute intervals up to 120 minutes.
3. It must differ from <sent> in exactly 30 minute intervals between 120 and 360.
-->
<expires>2006-04-20T10:27:29-04:00</expires>

<!--Sender name is a required and specifically formatted field for HazCollect
Format is <CogName>,<City>,<State>. Most systems will want to generate this field
for the user. -->
<senderName>COG Name,Stafford,VA</senderName>

<!--
Headline requires a String <= 160 characters including spaces
-->
<headline>THIS MESSAGE IS FOR TEST PURPOSES ONLY. THIS IS TEST
MESSAGE NUMBER 1.</headline>

<!--The NWEM message concatenates the CAP description and the CAP
Instruction and is limited to a single field that must be <= 160 words. The
description field for NWEM includes what might also be in the instruction field of a
normal CAP message. The interface concatenates for posting to NWEM but will use
the original structure for posting copies of the NWEM message to other CAP users
and networks when directed by your application. This allows the Call to action
portion of the CAP message to be properly placed within the instruction tag per the
CAP 1.1 specification-->
<description>THIS IS A TEST MESSAGE. THIS IS A TEST OF THE CAPABILITY
TO RELAY EMERGENCY MESSAGES FROM NON-NATIONAL WEATHER SERVICE
SOURCES USING DEPARTMENT OF HOMELAND SECURITY AND NWS SYSTEMS.
THIS TEST MESSAGE IS NOT INTENDED TO ACTIVATE THE EMERGENCY ALERT
SYSTEM.
</description>

<!--The Call to action portion of the CAP message should be placed within the
<instruction>tag per the CAP 1.1 specification. The combined size of <description>
and <instruction>cannot exceed 160 words.
-->
<instruction>This is a place holder for evac instructions, etc.
It is where the "call to action" should be placed.</instruction>

```
<!--Area:
1.Each FIPS, ZONE, or STATE CODE gets it own <area> block in a HazCollect message
2.The current implementation of HazCollect does not use <polygon> or <circle>.
within <area>. Support for these structures is projected for a future release. For
now, however they are ignored. Only the <geocode> tag is processed.
```

Interim Note 1 concerning Area: While it is suggested that each FIPS, ZONE, or STATE CODE get its own separate area as shown below so that the proper name for the FIPS code can be associated with the area in <areaDesc>, the HazCollect server will allow multiple <geocode> entries within the same <area> block and will process all of them.

Interim Note 2 concerning Area: Parts of <area> other than <geocode> can be used for non-NWEM purposes in a NWEM CAP message because the HazCollect Server simply ignores them.

Interim Note 3 concerning Area: Currently the "state" or "STATE" value for geocode also ignored. This requires a statewide alert to include all of the fips codes applicable at the county level for the entire state. This is a bug which will be fixed in a future release. As a workaround, the single area block naming the state with multiple fips genocodes (as in Interim Note 1) might be appropriate.

```
-->

<area>

        <!--
        The <areaDesc> tag should contain the administrative name corresponding
        to the
        geocode value. Allowed values for a particular COG are retrieved using the
        getNWEMAuxData() method.
        -->
        <areaDesc>Burleigh</areaDesc>

        <!--Exactly one geocode is required for each area block. Allowed values will
        be
        specified separately for each COG by NOAA. They are dynamically
        retrievable using the GeNWEMAuxData() method on the DM-OPEN interface.
        The
        downloadable structure includes administrative names associated with the
        codes (for <areaDesc>) so that systems can build dynamic pick lists for alert
        creators that include all "Zone", FIPS, and State codes allowed to the alert
        issuing
        COG by NWS.
        -->
        <geocode>
                <valueName>fips</valueName>
                <value>38015</value>
        </geocode>
```

```xml
            </area>
            <area>
                <areaDesc>Allegheny</areaDesc>
                <geocode>
                    <valueName>fips</valueName>
                    <value>42003</value>
                </geocode>
            </area>
            <area>
                <areaDesc>Pennsylvania</areaDesc>
                <geocode>
                    <valueName>state</valueName>
                    <value>PA</value>
                </geocode>
            </area>
        </info>
</alert>
```