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An Issuing Authority Perspective on Using CAP

**Norm Paulsen
Environment Canada
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CAP Workshop, Hong Kong**

Environment Canada (EC) - an Issuer of *Alerts* and *Warnings*

- EC is an issuing Authority that has used CAP to convey our weather warnings since 2009
- We issue between **150 to 200 K** CAP *alert messages* each year on weather related events and hazards
- We use CAP in conjunction with the systems of many **known** partners and...
- We also know many **unknown** partners pick up our CAP *alert messages* from our **primary** partner's publicly available aggregation hub (NAADs)
- Both our partners and ourselves present our *alert messages* to various **audiences**, including the **general public**, **first responders**, **private clients** and more



Our Partners

- We have come to recognize the following **categorization** of our partners...
 - **Engaged:** Partners that generally want all the *warning* information that they can get their hands on to create their own value added **service** to clients
 - **Dis-Engaged:** Partners that generally don't want anything more than the minimum they need to pass the *warning* through – all because of some overriding policy that requires them to do so
 - Technically, there is a third partner type...partners **at large**. If they seek to engage us then the strategies discussed today will apply, but until then, they are just users and the relationship is basic CAP



Dealing with partner types

- CAP 1.2 **enables** us to service both types
- With the **dis-engaged** partner group we are often expected to work with the constraints of their systems
- With the **dis-engaged** partner group they tend to build to today with no plans for future change
- With the **engaged** partner group we work together to solve the data issues
- In EC CAP, we have a strategy to handle both types of partner in single CAP *alert messages*



Examples

- The rest of the presentation today will look at examples of **EC CAP** that **expands** on this discussion



First...Some Basics

- CAP has **elements** meant for the end audience to experience
 - These **elements** tell the end audience the story we want told (based on how we, the issuer, forms our *warnings*)
 - In the examples given these **elements** are marked in **yellow**
- CAP has **elements** meant for machine in the middle that does the automated processing
 - These **elements** direct the machine to automate a response to the value found there (based on some business policy)
 - In the examples given these **elements** are marked in **green**



```

<?xml version="1.0" encoding="UTF-8"?>
- <alert xmlns="urn:oasis:names:tc:emergency:cap:1.2">
  <identifier>urn:oid:2.49.0.1.124.2378055368.2018</identifier>
  <sender>cap-pac@canada.ca</sender>
  <sent>2018-08-17T20:42:24-00:00</sent>
  <status>Actual</status>
  <msgType>Alert</msgType>
  <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
  <scope>Public</scope>
  <references/>
- <info>
  <language>en-CA</language>
  <category>Met</category>
  <event>tornado</event>
  <responseType>Shelter</responseType>
  <responseType>Monitor</responseType>
  <urgency>Immediate</urgency>
  <severity>Extreme</severity>
  <certainty>Observed</certainty>
  <audience>general public</audience>
- <eventCode>
  <valueName>profile:CAP-CP:Event:0.4</valueName>
  <value>tornado</value>
</eventCode>
<effective>2018-08-17T20:42:24-00:00</effective>
<expires>2018-08-17T22:11:24-00:00</expires>
<senderName>Environment Canada</senderName>
<headline>tornado warning in effect</headline>
<description> At 2:42 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minton area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>
<instruction> Take cover immediately, if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As a last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, no indoors! </instruction>
- <resource>
  <resourceDesc>Broadcast Audio</resourceDesc>
  <mimeType>audio/mpeg</mimeType>
  <uri>https://s3.amazonaws.com/naadstfs-prod/2.49.0.1.124.2378055368.2018-en-CA.mp3</uri>
</resource>
- <area>
  <areaDesc>R.M. of Surprise Valley including Minton and Regway</areaDesc>
  <polygon>49.1733,-104.4097 48.9994,-104.4103 48.999,-104.8107 48.9991,-104.8107 49.0013,-104.8108 49.1734,-104.8238 49.2605,-104.8303 49.2606,-104.7454 49.2606,-104.5564 49.2605,-104.4731 49.2604,-104.4271 49.2604,-104.4271 49.2569,-104.4269 49.1733,-104.4215 49.1734,-104.4097 49.1733,-104.4097</polygon>
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<instruction>Take cover immediately, if threatening or any threatening weather approaching, take shelter in a basement, bathroom, stairwell or interior closet. **<event>** **<description>** At 2:42 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minton area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. **</description>**

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    <event>tornado</event>
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```

Partner Constraints!

- Collectively, they come from a mixture of...
 - **policy makers**,
 - **last mile distributors**, and
 - **equipment vendors**
- These are often imposed back onto the issuing authority
 - size/length of message
 - language(s) of message
 - components of what goes into a message
 - character types allowed/disallowed
 - type of media (such as audio only for Radio)
- sometimes these conflict between partners



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</area>
</info>
+ <info>
</alert>

```

Description has to come in different languages

Description has to be less than 150 characters

Audio must match the Description

<description> At 2:42 p.m. CST, Environment Canada and locally intense rainfall are also possible. This potential tornado is located over the Lake Alma area. # # # This is a dangerous and potentially life-threatening situation. To produce or are producing tornadoes **</description>**

Description only ASCII

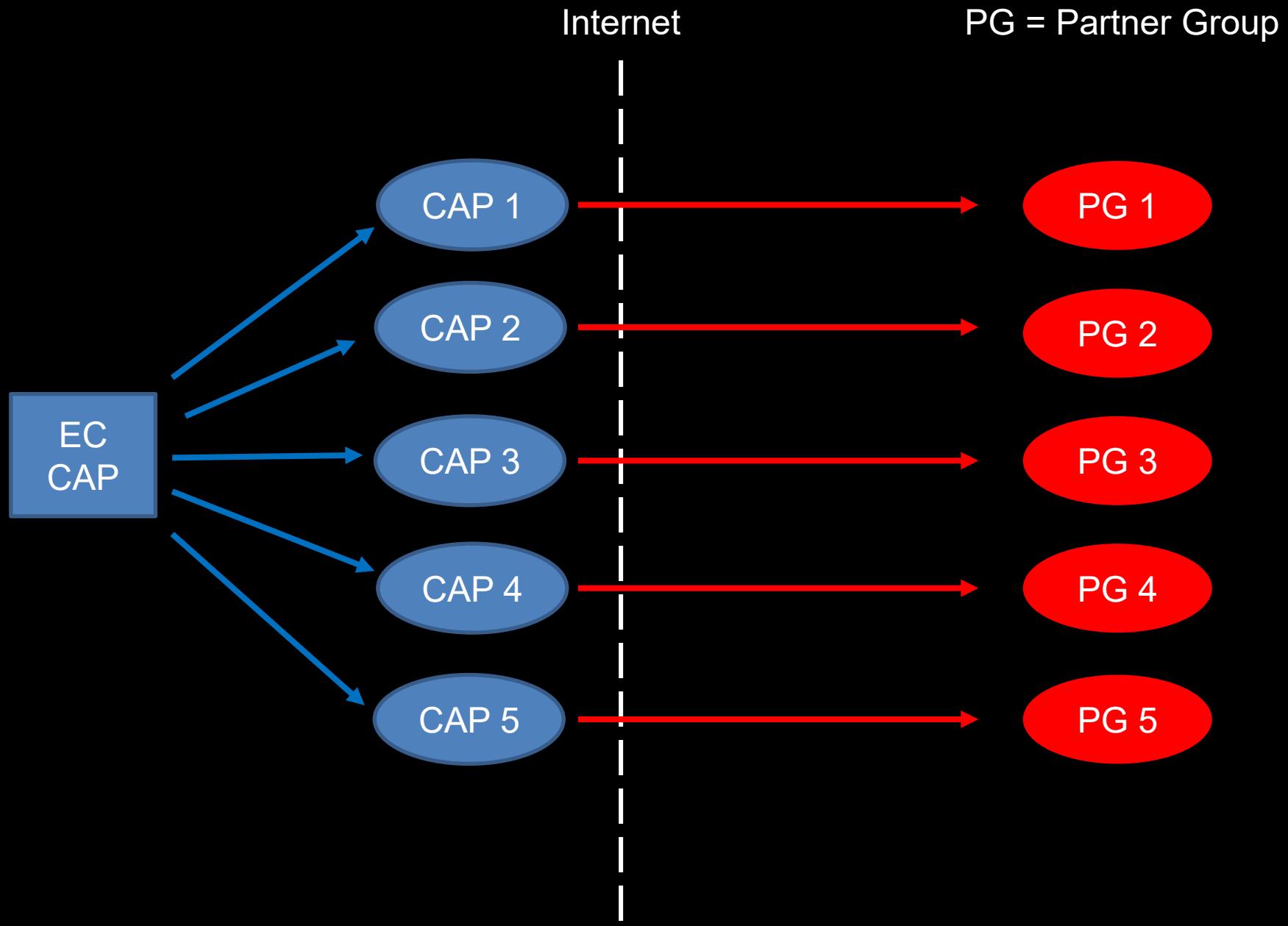
Description additional text

Options/Considerations?

- One constructed CAP message per partner?
- One constructed CAP message per partner group?
- One constructed CAP message for all partners?
- Language requirements all met in one CAP message?



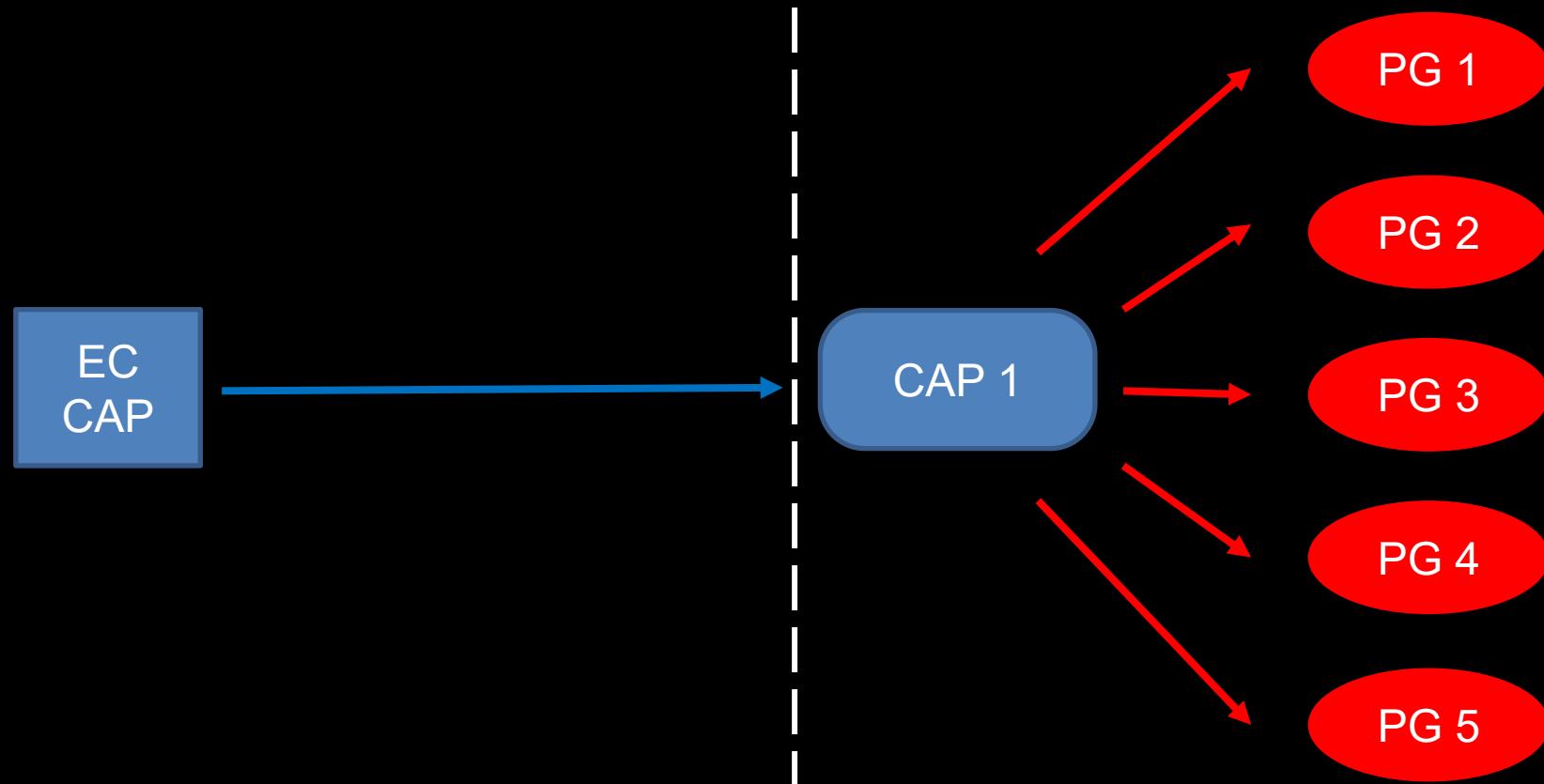
One CAP per Partner Group



One CAP for all Partners

Internet

PG = Partner Group



The “CAP Standard”

- CAP promotes itself as an all client, all media protocol
- CAP has **customizable** elements which are basically **controlled extensions**
- **Controlled extensions** are two part elements that use the `<valueName> <value>` pair construct
- These include
 - `<eventCode>` (specific to event codes)
 - `<geocode>` (specific to geocodes)
 - `<parameter>` (general in that they can be used for anything)



The EC case for **one** CAP for all

- If all partners get same CAP message file then
 - no one partner receives a file through a working delivery mechanism when another partner does not receive the file through a broken delivery mechanism
 - no one language based partner appears to get preferential treatment over the other
 - contact me for more on this
- We can manage our feeds with no dependencies on content
 - contact me for more on this
- This strategy leads to another strategy...



The Layer Strategy

- If a client **constraint / requirement** includes something to be customized for them, then we use a **<parameter>**
- In Canada, if one or more **<parameter>**s are used to service a client group, we refer to that as a **layer**
- Every **layer** in our CAP comes with an understanding with the client group that is being serviced, that they **own** the specifications for that layer
- We identify the owner, version and name of the element within the **<valueName>** part of the extension



EC CAP Currently has 5 layers identified by owner and version

Layer 1

SOREM:1.0

Layer 2

EC-MSC-SMC:1.0

Layer 3

WPAM:1.0

Layer 4

EC-MSC-SMC:1.1

Layer 5

SOREM:2.0

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  <msgType>Alert</msgType>
  <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
  <scope>Public</scope>
  <code>layer:SOREM:1.0</code>
  <references/>
  <info>
    <language>en-CA</language>
    <category>Met</category>
    <event>tornado</event>
    <responseType>Shelter</responseType>
    <responseType>Monitor</responseType>
    <urgency>Immediate</urgency>
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  <parameter>
    <valueName>layer:SOREM:1.0:Broadcast_Immediately</valueName>
    <value>Yes</value>
  </parameter>
  <parameter>
    <valueName>layer:SOREM:1.0:Broadcast_Text</valueName>
    <value>At 2:42 p.m. Central Standard Time Tuesday, Environment Canada has issued a tornado warning for South Central and Southeastern Saskatchewan. Extra care and attention should be exercised in and around the following localities: Coronach, Bengough, Ceylon, Hardy, Big Beaver, Minto, Regway, Radville, Colgate, Goodwater, Lake Alma, Beaubier, Tribune and Oungre. Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. Take cover immediately if threatening weather approaches. Please consult local media for more information. </value>
  </parameter>
  <resource>
    <resourceDesc>Broadcast Audio</resourceDesc>
    <mimeType>audio/mpeg</mimeType>
    <uri>https://s3.amazonaws.com/naadsttsfs-prod/2.49.0.1.124.2378055368.2018-en-CA.mp3</uri>
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  <+> <info>
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```

<code>layer:SOREM:1.0</code>

- <parameter>

<valueName>layer:SOREM:1.0:Broadcast_Text</valueName>

<value>Yes</value>

</parameter> . . .

</value>

</parameter>

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<parameter>

<valueName>layer:SOREM:1.0:Broadcast_Immediately</valueName>

<value>Yes</value>

</parameter>

<parameter>

<valueName>layer:SOREM:1.0:Broadcast_Text</valueName>

At 2:42 p.m. Central Standard Time Tuesday, Environment Canada has issued a tornado warning for South Central and Southeastern Saskatchewan. Extra care and attention should be exercised in and around the following localities: Coronach, Bengough, Ceylon, Hardy, Big Beaver, Minto, Regway, Radville, Colgate, Goodwater, Lake Alma, Beaubier, Tribune and Oungre. Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. Take cover immediately if threatening weather approaches. Please consult local media for more information. </value>

</parameter>

<resource>

<resourceDesc>Broadcast Audio</resourceDesc>

<mimeType>

audio/mpeg</mimeType>

<uri>https://s3.amazonaws.com/naadsttsfs-prod/2.49.0.1.124.2378055368.2018-en-CA.mp3</uri>

</resource>

<area>

<areaDesc>R.M. of Surprise Valley including Minto and Regway</areaDesc>

<polygon>49.1733,-104.4097 48.9994,-104.4103 48.999,-104.8107 48.9991,-104.8107 49.0013,-104.8108 49.1734,-104.8238 49.2605,-104.8303 49.2606,-104.7454 49.2606,-104.5564 49.2605,-104.4731 49.2604,-104.4271 49.2604,-104.4271 49.2569,-104.4269 49.1733,-104.4215 49.1734,-104.4097 49.1733,-104.4097</polygon>

<area>

<areaDesc>R.M. of Lake Alma including Lake Alma and Beaubier</areaDesc>

<polygon>49.2603,-104.4065 49.2603,-104.4005 49.2604,-104.4002 49.2603,-104.3933 49.2603,-104.3927 49.2603,-104.3917 49.2603,-104.3913 49.2603,-104.3892 49.2603,-104.3872 49.2603,-104.3868 49.2603,-104.3824 49.2604,-104.3814 49.2603,-104.3801 49.2603,-104.3794 49.2603,-104.3715 49.2603,-104.3709 49.2605,-104.2926 49.2604,-104.2222 49.2601,-104.1809 49.2602,-104.1586 49.2603,-104.1359 49.2604,-104.0911 49.2604,-104.0686 49.2603,-104.0464 49.2603,-104.0239 49.174,-104.0189 49.0051,-104.0091 49.0005,-104.0091 49.0005,-104.0089 49.0001,-104.0089 48.9998,-104.0089 48.9998,-104.0091 48.9998,-104.0839 48.9999,-104.1288 48.9994,-104.41 48.9994,-104.4103 49.1733,-104.4097 49.1733,-104.4215 49.2569,-104.4269 49.2604,-104.4271 49.2604,-104.4268 49.2603,-104.4065</polygon>

</area>

</info>

+ <info>

</alert>

EMERGENCY ALERT

This is the Emergency Alert S

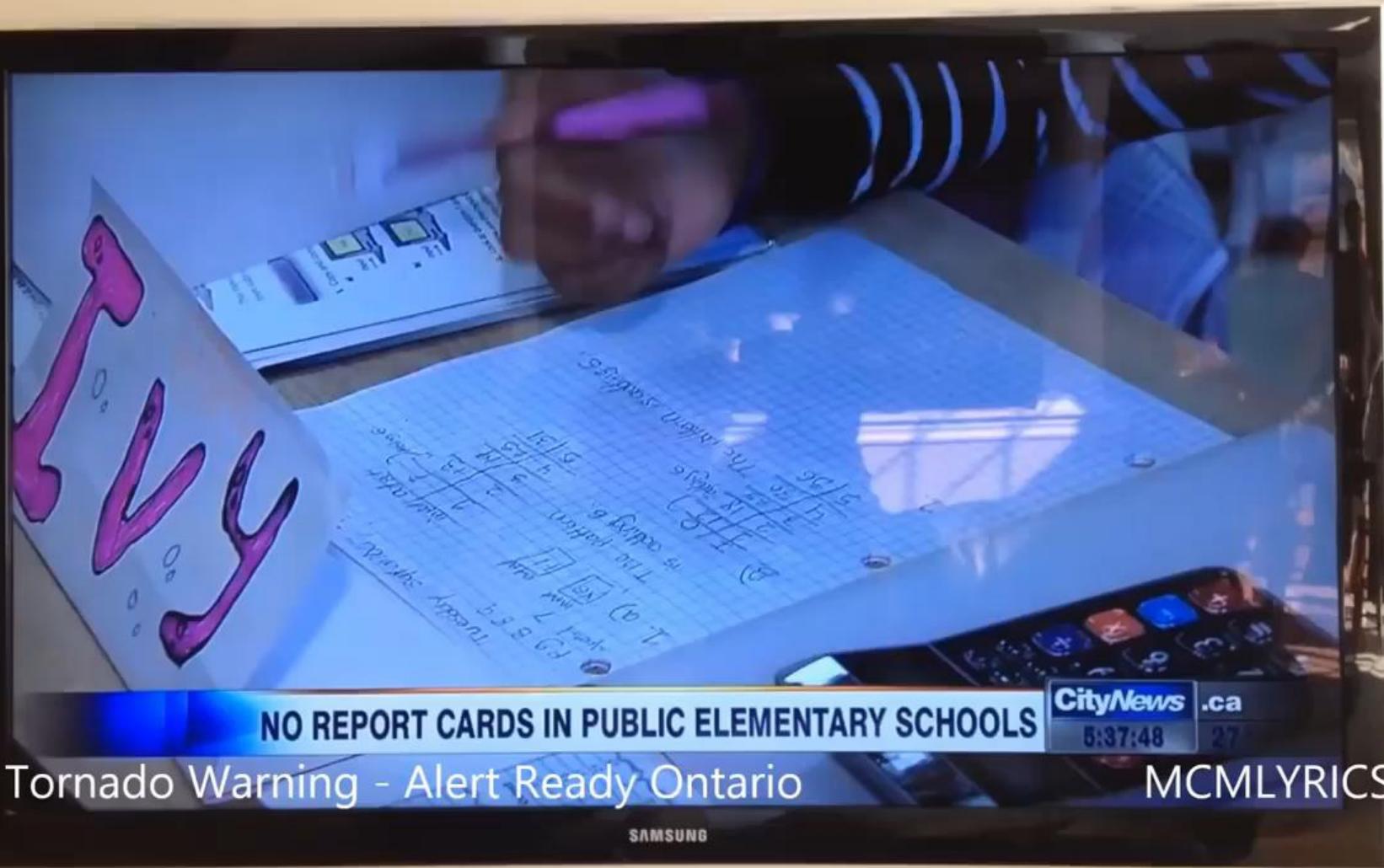
```

<?xml version="1.0" encoding="UTF-8"?>
- <alert xmlns="urn:oasis:names:tc:emergency:cap:1.2">
  <identifier>urn:oid:2.49.0.1.124.2378055368.2018</identifier>
  <sender>cap-pac@canada.ca</sender>
  <sent>2018-08-17T20:42:24-00:00</sent>
  <status>Actual</status>
  <msgType>Alert</msgType>
  <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
  <scope>Public</scope>
  <references/>
  - <info>
    <language>en-CA</language>
    <category>Met</category>
    <event>tornado</event>
    <responseType>Shelter</responseType>
    <responseType>Monitor</responseType>
    <urgency>Immediate</urgency>
    <severity>Extreme</severity>
    <certainty>Observed</certainty>
    <audience>general public</audience>
    - <eventCode>
      <valueName>profile:CAP-CP:Event:0.4</valueName>
      <value>tornado</valueName>
    </eventCode>
    <effective>2018-08-17T20:42:24-00:00</effective>
    <expires>2018-08-17T22:11:24-00:00</expires>
    <senderName>Environment Canada</senderName>
    <headline>tornado warning in effect</headline>
    <description> At 2:42 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minton area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>
    <instruction> Take cover immediately, if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As a last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, no indoors! </instruction>
    - <resource>
      <resourceDesc>Broadcast Audio</resourceDesc>
      <mimeType>audio/mpeg</mimeType>
      <uri>https://s3.amazonaws.com/naadstfs-prod/2.49.0.1.124.2378055368.2018-en-CA.mp3</uri>
    </resource>
    - <area>
      <areaDesc>R.M. of Surprise Valley including Minton and Regway</areaDesc>
      <polygon>49.1733,-104.4097 48.9994,-104.4103 48.999,-104.8107 48.9991,-104.8107 49.0013,-104.8108 49.1734,-104.8238 49.2605,-104.8303 49.2606,-104.7454 49.2606,-104.5564 49.2605,-104.4731 49.2604,-104.4271 49.2604,-104.4271 49.2569,-104.4269 49.1733,-104.4215 49.1734,-104.4097 49.1733,-104.4097</polygon>
    - <area>
      <areaDesc>R.M. of Lake Alma including Lake Alma and Beaubier</areaDesc>
      <polygon>49.2603,-104.4065 49.2603,-104.4005 49.2604,-104.4002 49.2603,-104.3933 49.2603,-104.3927 49.2603,-104.3917 49.2603,-104.3913 49.2603,-104.3892 49.2603,-104.3872 49.2603,-104.3868 49.2603,-104.382 49.2604,-104.3814 49.2603,-104.3812 49.2603,-104.3801 49.2603,-104.3794 49.2603,-104.3715 49.2603,-104.3709 49.2605,-104.2926 49.2601,-104.1809 49.2602,-104.1586 49.2603,-104.1359 49.2604,-104.0911 49.2604,-104.0686 49.2603,-104.0464 49.2603,-104.0239 49.174,-104.0189 49.0051,-104.0091 49.005,-104.0091 49.005,-104.0091 49.0005,-104.0089 49.0001,-104.0089 48.9998,-104.0089 48.9998,-104.0089 48.9998,-104.0091 48.9998,-104.0839 48.9999,-104.1288 48.9994,-104.41 48.9994,-104.4103 49.1733,-104.4097 49.1734,-104.4097 49.1733,-104.4215 49.2569,-104.4269 49.2604,-104.4271 49.2604,-104.4268 49.2603,-104.4065</polygon>
    </area>
  </info>
+ <info>
</alert>

```

- Doing the same thing without a Layer

- LMD has to meet the SOREM requirements themselves



NO REPORT CARDS IN PUBLIC ELEMENTARY SCHOOLS

Tornado Warning - Alert Ready Ontario

CityNews.ca
5:37:48

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<?xml version="1.0" encoding="UTF-8"?>
<alert xmlns="urn: oasis:names:names:t:emergency:cap:1.2">
  <identifier>urn:oid:2.49.0.1.124.2378055368.2018</identifier>
  <sender>cap-pac@canada.ca</sender>
  <sent>2018-08-17T20:42:24-00:00</sent>
  <status>Actual</status>
  <msgType>Alert</msgType>
  <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
  <scope>Public</scope>
  <code>layer:SOREM:1.0</code>
  <references/>
  <info>
    <language>en-CA</language>
    <category>Met</category>
    <event>tornado</event>
    <responseType>Shelter</responseType>
    <responseType>Monitor</responseType>
    <urgency>Immediate</urgency>
    <severity>Extreme</severity>
    <certainty>Observed</certainty>
    <audience>general public</audience>
  </info>
  <eventCode>
    <valueName>profile:CAP-CP:Event:0.4</valueName>
    <value>tornado</valueName>
  </eventCode>
  <effective>2018-08-17T20:42:24-00:00</effective>
  <expires>2018-08-17T22:11:24-00:00</expires>
  <senderName>Environment Canada</senderName>
  <headline>tornado warning in effect</headline>
  <description>At 2:42 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minto area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>
  <instruction>Take cover immediately, if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As a last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, go indoors! </instruction>
  <parameter>
    <valueName>layer:SOREM:1.0:Broadcast_Immediately</valueName>
    <value>Yes</value>
  </parameter>
  <parameter>
    <valueName>layer:SOREM:1.0:Broadcast_Text</valueName>
    <value>At 2:42 p.m. Central Standard Time Tuesday, Environment Canada has issued a tornado warning for South Central and Southeastern Saskatchewan. Extra care and attention should be exercised in and around the following localities: Coronach, Bengough, Ceylon, Hardy, Big Beaver, Minto, Regway, Radville, Colgate, Goodwater, Lake Alma, Beaubier, Tribune and Oungre. Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. Take cover immediately if threatening weather approaches. Please consult local media for more information. </value>
  </parameter>
  <resource>
    <resourceDesc>Broadcast Audio</resourceDesc>
    <mimeType>audio/mpeg</mimeType>
    <uri>https://s3.amazonaws.com/naadsttsfs-prod/2.49.0.1.124.2378055368.2018-en-CA.mp3</uri>
  </resource>
  <area>
    <areaDesc>R.M. of Surprise Valley including Minto and Regway</areaDesc>
    <polygon>49.1733,-104.4097 48.9994,-104.4103 48.999,-104.8107 48.9991,-104.8107 49.0013,-104.8108 49.1734,-104.8238 49.2605,-104.8303 49.2606,-104.7454 49.2606,-104.5564 49.2605,-104.4731 49.2604,-104.4271 49.2604,-104.4271 49.2569,-104.4269 49.1733,-104.4215 49.1734,-104.4097 49.1733,-104.4097</polygon>
  <area>
    <areaDesc>R.M. of Lake Alma including Lake Alma and Beaubier</areaDesc>
    <polygon>49.2603,-104.4065 49.2603,-104.4005 49.2604,-104.4002 49.2603,-104.3933 49.2603,-104.3927 49.2603,-104.3917 49.2603,-104.3913 49.2603,-104.3892 49.2603,-104.3872 49.2603,-104.3868 49.2603,-104.3824 49.2604,-104.3814 49.2603,-104.3801 49.2603,-104.3794 49.2603,-104.3715 49.2603,-104.3709 49.2605,-104.2926 49.2604,-104.2222 49.2601,-104.1809 49.2602,-104.1586 49.2603,-104.1359 49.2604,-104.0911 49.2604,-104.0686 49.2603,-104.0464 49.2603,-104.0239 49.174,-104.0189 49.0051,-104.0091 49.0005,-104.0091 49.0005,-104.0089 49.0001,-104.0089 48.9998,-104.0089 48.9998,-104.0091 48.9998,-104.0839 48.9999,-104.1288 48.9994,-104.41 48.9994,-104.4103 49.1733,-104.4097 49.1733,-104.4215 49.2569,-104.4269 49.2604,-104.4271 49.2604,-104.4268 49.2603,-104.4065</polygon>
  </area>
</info>
+ <info>
</alert>

```

-Doing the same thing with a <resource>

-LMD just has to look up the audio file

Q: Is a Layer the same as a Profile?

- No.
- A layer is a group of **extensions**
- A profile is a group of **constraints**
- What does that mean?



EC CAP has 1 profile identified by owner and version

Profile

CAP-CP:0.4

<?xml version="1.0" encoding="UTF-8"?>

- <alert xmlns="urn: oasis:names:tc:emergency:cap:1.2">
 <identifier>urn:oid:2.49.0.1.124.2378055368.2018</identifier>
 <sender>cap-pac@canada.ca</sender>
 <sent>2018-08-17T20:42:24-00:00</sent>
 <status>Actual</status>
 <msgType>Alert</msgType>
 <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
 <scope>Public</scope>
 <code>profile:CAP-CP:0.4</code>
 <references/>
 <info>
 <language>en-CA</language>
 <category>Met</category>
 <event>tornado</event>
 <responseType>Shelter</responseType>
 <responseType>Monitor</responseType>
 <urgency>Immediate</urgency>
 <severity>Extreme</severity>
 <certainty>Observed</certainty>
 <audience>general public</audience>
 </info>
 <eventCode>
 <valueName>profile:CAP-CP:Event:0.4</valueName>
 <value>tornado</value>
 </eventCode>
 <effective>2018-08-17T20:42:24-00:00</effective>
 <expires>2018-08-17T22:11:24-00:00</expires>
 <senderName>Environment Canada</senderName>
 <headline>tornado warning in effect</headline>
 <description>At 2:42 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minton area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>
 <instruction>Take cover immediately, if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, go indoors! </instruction>
 <resource>
 <resourceDesc>Broadcast Audio</resourceDesc>
 <mimeType>audio/mpeg</mimeType>
 <uri>https://s3.amazonaws.com/naadsttsfs-prod/2.49.0.1.124.2378055368.2018-en-CA.mp3</uri>
 </resource>
 <area>
 <areaDesc>R.M. of Surprise Valley including Minton and Regway</areaDesc>
 <polygon>49.1733,-104.4097 48.9994,-104.4103 48.999,-104.8107 48.9991,-104.8107 49.0013,-104.8108 49.1734,-104.8238 49.2605,-104.8303 49.2606,-104.7454 49.2606,-104.5564 49.2605,-104.4731 49.2604,-104.4271 49.2569,-104.4269 49.1733,-104.4215 49.1734,-104.4097 49.1733,-104.4097</polygon>
 <area>
 <areaDesc>R.M. of Lake Alma including Lake Alma and Beaubier</areaDesc>
 <polygon>49.2603,-104.4065 49.2603,-104.4005 49.2604,-104.4002 49.2603,-104.3933 49.2603,-104.3927 49.2603,-104.3917 49.2603,-104.3913 49.2603,-104.3892 49.2603,-104.3872 49.2603,-104.3868 49.2603,-104.382 49.2604,-104.3814 49.2603,-104.3812 49.2603,-104.3801 49.2603,-104.3794 49.2603,-104.3715 49.2603,-104.3709 49.2605,-104.2926 49.26,-104.2222 49.2601,-104.1809 49.2602,-104.1586 49.2603,-104.1359 49.2604,-104.0911 49.2604,-104.0686 49.2603,-104.0464 49.2603,-104.0239 49.174,-104.0189 49.0051,-104.0091 49.005,-104.0091 49.0005,-104.0089 49.0001,-104.0089 48.9998,-104.0089 48.9998,-104.0089 48.9998,-104.0091 48.9998,-104.0839 48.9999,-104.1288 48.9994,-104.41 48.9994,-104.4103 49.1733,-104.4097 49.1734,-104.4097 49.1733,-104.4215 49.2569,-104.4269 49.2604,-104.4271 49.2604,-104.4268 49.2603,-104.4065</polygon>
 </area>
 </info>
 + <info>
 </alert>

<code>profile:CAP-CP:0.4</code>

- <language>en-CA</language>

<valueName>profile:CAP-CP:Event:0.4</valueName>

<value>tornado</value>

</eventCode>

Profile and Layers only look similar

- They use both **machine** and **audience** elements
- In EC we also use the <**code**> element as a courtesy for machines that are programmed to identify or filter on **Profiles** and/or **Layers** in an EC CAP message.



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```

<?xml version="1.0" encoding="UTF-8"?>
- <alert xmlns="urn: oasis:names:tc:emergency:cap:1.2">
  <identifier>urn:oid:2.49.0.1.124.2378055368.2018</identifier>
  <sender>cap-pac@canada.ca</sender>
  <sent>2018-08-17T20:42:24-00:00</sent>
  <status>Actual</status>
  <msgType>Alert</msgType>
  <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
  <scope>Public</scope>
  <code>profile:CAP-CP:0.4 </code>
  <references/>
  - <info>
    ( <language>en-CA </language>
      <category>Met</category>
      <event>tornado</event>
      <responseType>Shelter</responseType>
      <responseType>Monitor</responseType>
      <urgency>Immediate</urgency>
      <severity>Extreme</severity>
      <certainty>Observed</certainty>
      <audience>general public</audience>
    - <eventCode>
      <valueName> profile:CAP-CP:Event:0.4 </valueName>
      <value>tornado</valueName>
    </eventCode>
    <effective>2018-08-17T20:42:24-00:00</effective>
    <expires>2018-08-17T22:11:24-00:00</expires>
    <senderName>Environment Canada</senderName>
    <headline>tornado warning in effect</headline>
    <description> At 2:42 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minton area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>
    <instruction> Take cover immediately, if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, go indoors! </instruction>
    - <resource>
      <resourceDesc>Broadcast Audio</resourceDesc>
      <mimeType>audio/mpeg</mimeType>
      <uri>https://s3.amazonaws.com/naadsttsfs-prod/2.49.0.1.124.2378055368.2018-en-CA.mp3</uri>
    </resource>
    - <area>
      <areaDesc>R.M. of Surprise Valley including Minton and Regway</areaDesc>
      <polygon>49.1733,-104.4097 48.9994,-104.4103 48.999,-104.8107 48.9991,-104.8107 49.0013,-104.8108 49.1734,-104.8238 49.2605,-104.8303 49.2606,-104.7454 49.2606,-104.5564 49.2605,-104.4731 49.2604,-104.4271 49.2569,-104.4269 49.1733,-104.4215 49.1734,-104.4097 49.1733,-104.4097 </polygon>
    - <area>
      <areaDesc>R.M. of Lake Alma including Lake Alma and Beaubier</areaDesc>
      <polygon>49.2603,-104.4065 49.2603,-104.4005 49.2604,-104.4002 49.2603,-104.3933 49.2603,-104.3927 49.2603,-104.3917 49.2603,-104.3913 49.2603,-104.3892 49.2603,-104.3872 49.2603,-104.3868 49.2603,-104.382 49.2604,-104.3814 49.2603,-104.3812 49.2603,-104.3801 49.2603,-104.3794 49.2603,-104.3715 49.2603,-104.3709 49.2605,-104.2926 49.26,-104.2222 49.2601,-104.1809 49.2602,-104.1586 49.2603,-104.1359 49.2604,-104.0911 49.2604,-104.0686 49.2603,-104.0464 49.2603,-104.0239 49.174,-104.0189 49.0051,-104.0091 49.005,-104.0091 49.0005,-104.0089 49.0001,-104.0089 48.9998,-104.0089 48.9998,-104.0089 48.9998,-104.0091 48.9998,-104.0839 48.9999,-104.1288 48.9994,-104.41 48.9994,-104.4103 49.1733,-104.4097 49.1734,-104.4097 49.1733,-104.4215 49.2569,-104.4269 49.2604,-104.4271 49.2604,-104.4268 49.2603,-104.4065 </polygon>
    </area>
  </info>
  + <info>
  </alert>

```

2 [

```
<?xml version="1.0" encoding="UTF-8"?>
<alert xmlns="urn: oasis:names:tc:emergency:cap:1.2">
  <identifier>urn:oid:2.49.0.1.124.2378055368.2018</identifier>
  <sender>cap-pac@canada.ca</sender>
  <sent>2018-08-17T20:42:24-00:00</sent>
  <status>Actual</status>
  <msgType>Alert</msgType>
  <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
  <scope>Public</scope>
  <code>layer:SOREM:1.0</code>
  <references/>
  <info>
    <language>en-CA</language>
    <category>Met</category>
    <event>tornado</event>
    <responseType>Shelter</responseType>
    <responseType>Monitor</responseType>
    <urgency>Immediate</urgency>
    <severity>Extreme</severity>
    <certainty>Observed</certainty>
    <audience>general public</audience>
  </info>
  <eventCode>
    <valueName>profile:CAP-CP:Event:0.4</valueName>
    <value>tornado</valueName>
  </eventCode>
  <effective>2018-08-17T20:42:24-00:00</effective>
  <expires>2018-08-17T22:11:24-00:00</expires>
  <senderName>Environment Canada</senderName>
  <headline>tornado warning in effect</headline>
  <description>At 2:42 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minto area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>
  <instruction>Take cover immediately, if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As a last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, go indoors! </instruction>
  <parameter>
    <valueName>layer:SOREM:1.0:Broadcast_Immediately</valueName>
    <value>Yes</value>
  </parameter>
  <parameter>
    <valueName>layer:SOREM:1.0:Broadcast_Text</valueName>
    <value>At 2:42 p.m. Central Standard Time Tuesday, Environment Canada has issued a tornado warning for South Central and Southeastern Saskatchewan. Extra care and attention should be exercised in and around the following localities: Coronach, Bengough, Ceylon, Hardy, Big Beaver, Minto, Regway, Radville, Colgate, Goodwater, Lake Alma, Beaubier, Tribune and Oungre. Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. Take cover immediately if threatening weather approaches. Please consult local media for more information. </value>
  </parameter>
  <resource>
    <resourceDesc>Broadcast Audio</resourceDesc>
    <mimeType>audio/mpeg</mimeType>
    <uri>https://s3.amazonaws.com/naadsttsfs-prod/2.49.0.1.124.2378055368.2018-en-CA.mp3</uri>
  </resource>
  <area>
    <areaDesc>R.M. of Surprise Valley including Minto and Regway</areaDesc>
    <polygon>49.1733,-104.4097 48.9994,-104.4103 48.999,-104.8107 48.9991,-104.8107 49.0013,-104.8108 49.1734,-104.8238 49.2605,-104.8303 49.2606,-104.7454 49.2606,-104.5564 49.2605,-104.4731 49.2604,-104.4271 49.2604,-104.4271 49.2569,-104.4269 49.1733,-104.4215 49.1734,-104.4097 49.1733,-104.4097</polygon>
  <area>
    <areaDesc>R.M. of Lake Alma including Lake Alma and Beaubier</areaDesc>
    <polygon>49.2603,-104.4065 49.2603,-104.4005 49.2604,-104.4002 49.2603,-104.3933 49.2603,-104.3927 49.2603,-104.3917 49.2603,-104.3913 49.2603,-104.3892 49.2603,-104.3872 49.2603,-104.3868 49.2603,-104.3824 49.2604,-104.3814 49.2603,-104.3801 49.2603,-104.3794 49.2603,-104.3715 49.2603,-104.3709 49.2605,-104.2926 49.2604,-104.2222 49.2601,-104.1809 49.2602,-104.1586 49.2603,-104.1359 49.2604,-104.0911 49.2604,-104.0686 49.2603,-104.0464 49.2603,-104.0239 49.174,-104.0189 49.0051,-104.0091 49.0005,-104.0091 49.0005,-104.0089 49.0001,-104.0089 48.9998,-104.0089 48.9998,-104.0091 48.9998,-104.0839 48.9999,-104.1288 48.9994,-104.41 48.9994,-104.4103 49.1733,-104.4097 49.1733,-104.4215 49.2569,-104.4269 49.2604,-104.4271 49.2604,-104.4268 49.2603,-104.4065</polygon>
  </area>
  </info>
  <+> <info>
  </alert>
```

The Canada case for Layers and Profiles

- With layers we can
 - manage **engaged** or **disengaged** clients in our CAP using existing CAP elements
 - apply partner group constraints to the layer only
 - accommodate new partners without having to resolve change issues with existing partners
 - show engaged partners all the layers
 - show engaged partners who owns the layer
 - keep **our** story/narrative/feel in the standard CAP elements If a grouping of constraints is called a profile we can
 - manage Canada while remaining interoperable with the world



All Layers in an
Environment Canada
CAP message

```
<?xml version="1.0" encoding="UTF-8"?>
<alert xmlns="urn:oasis:names:tc:emergency:cap:1.2">
  <identifier>urn:oid:2.49.0.1.124.237805368.2018</identifier>
  <sender>cap-pac@canada.ca</sender>
  <sent>2018-08-17T20:42:24-00:00</sent>
  <status>Actual</status>
  <msgType>Alert</msgType>
  <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
  <scope>Public</scope>
  <code>profile:CAP-CP:0.4</code>
  <code>layer:SOREM:1.0</code>
  <code>layer:EC-MSC-SMC:1.0</code>
  <code>layer:WPAM:1.0</code>
  <code>layer:EC-MSC-SMC:1.1</code>
  <code>layer:SOREM:2.0</code>
  <references/>
  <info>
    <language>en-CA</language>
    <category>Met</category>
    <event>tornado</event>
    <responseType>Shelter</responseType>
    <responseType>Monitor</responseType>
    <urgency>Immediate</urgency>
    <severity>Extreme</severity>
    <certainty>Observed</certainty>
    <audience>general public</audience>
    <eventCode>
      <valueName>profile:CAP-CP:Event:0.4</valueName>
      <value>tornado</value>
    </eventCode>
    <eventCode>
      <valueName>SAME</valueName>
      <value>TOR</value>
    </eventCode>
    <effective>2018-08-17T20:42:24-00:00</effective>
    <expires>2018-08-17T22:11:24-00:00</expires>
    <senderName>Environment Canada</senderName>
    <headline>tornado warning in effect</headline>
    <description> At 8:17 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minto area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>
    <instruction> Take cover immediately, if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As a last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, go indoors! </instruction>
    <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Type</valueName>
      <value>warning</value>
    </parameter>
    <parameter>
      <valueName>layer:SOREM:1.0:Broadcast_Immediately</valueName>
      <value>Yes</value>
    </parameter>
    <parameter>
      <valueName>layer:EC-MSC-SMC:1.1:CAP_count</valueName>
      <value>A:1064 M:2413 C:3051</value>
    </parameter>
    <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Location_Status</valueName>
      <value>active</value>
    </parameter>
    <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Name</valueName>
      <value>tornado warning</value>
    </parameter>
    <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Coverage</valueName>
      <value>Alberta</value>
    </parameter>
    <parameter>
      <valueName>layer:SOREM:1.0:Broadcast_Text</valueName>
      <value>At 8:17 p.m. Central Standard Time Tuesday, Environment Canada has issued a tornado warning for South Central and Southeastern Saskatchewan. Extra care and attention should be exercised in and around the following localities: Coronach, Bengough, Ceylon, Hardy, Big Beaver, Minto, Regway, Radville, Colgate, Goodwater, Lake Alma, Beaubier, Tribune and Oungre. Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. Take cover immediately if threatening weather approaches. Please consult local media for more information.</value>
    </parameter>
  </info>

```

```
<?xml version="1.0" encoding="UTF-8"?>
<alert xmlns="urn:oasis:names:tc:emergency:cap:1.2">
  <identifier>urn:oid:2.49.0.1.124.2378055368.2018</identifier>
  <sender>cap-pac@canada.ca</sender>
  <sent>2018-08-17T20:42:24-00:00</sent>
  <status>Actual</status>
  <msgType>Alert</msgType>
  <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
  <scope>Public</scope>
  <code>profile:CAP-CP:0.4</code>
  <code>layer:SOREM:1.0</code>
  <code>layer:EC-MSC-SMC:1.0</code>
  <code>layer:WPAM:1.0</code>
  <code>layer:EC-MSC-SMC:1.1</code>
  <code>layer:SOREM:2.0</code>
  <references/>
  - <info>
    <language>en-CA</language>
    <category>Met</category>
    <event>tornado</event>
    <responseType>Shelter</responseType>
    <responseType>Monitor</responseType>
    <urgency>Immediate</urgency>
    <severity>Extreme</severity>
    <certainty>Observed</certainty>
    <audience>general public</audience>
    - <eventCode>
      <valueName>profile:CAP-CP:Event:0.4</valueName>
      <value>tornado</value>
    </eventCode>
    - <eventCode>
      <valueName>SAME</valueName>
      <value>TOR</value>
    </eventCode>
    <effective>2018-08-17T20:42:24-00:00</effective>
    <expires>2018-08-17T22:11:24-00:00</expires>
    <senderName>Environment Canada</senderName>
    <headline>tornado warning in effect</headline>
    <description> At 8:17 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minto area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>
    <instruction> Take cover immediately, if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As a last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, go indoors! </instruction>
    - <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Type</valueName>
      <value>warning</value>
    </parameter>
    - <parameter>
      <valueName>layer:SOREM:1.0:Broadcast_Immediately</valueName>
      <value>Yes</value>
    </parameter>
    - <parameter>
      <valueName>layer:EC-MSC-SMC:1.1:CAP_count</valueName>
      <value>A:1064 M:2413 C:3051</value>
    </parameter>
    - <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Location_Status</valueName>
      <value>active</value>
    </parameter>
    - <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Name</valueName>
      <value>tornado warning</value>
    </parameter>
    - <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Coverage</valueName>
      <value>Alberta</value>
    </parameter>
    - <parameter>
      <valueName>layer:SOREM:1.0:Broadcast_Text </valueName>
      <value>At 8:17 p.m. Central Standard Time Tuesday, Environment Canada has issued a tornado warning for South Central and Southeastern Saskatchewan. Extra care and attention should be exercised in and around the following localities: Coronach, Bengough, Ceylon, Hardy, Big Beaver, Minto, Regway, Radville, Colgate, Goodwater, Lake Alma, Beaubier, Tribune and Oungre. Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. Take cover immediately if threatening weather approaches. Please consult local media for more information.</value>
    </parameter>
    - <parameter>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<alert xmlns="urn:oasis:names:tc:emergency:cap:1.2">
  <identifier>urn:oid:2.49.0.1.124.2378055368.2018</identifier>
  <sender>cap-pac@canada.ca</sender>
  <sent>2018-08-17T20:42:24-00:00</sent>
  <status>Actual</status>
  <msgType>Alert</msgType>
  <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
  <scope>Public</scope>
  <code>profile:CAP-CP:0.4</code>
  <code>layer:SOREM:1.0</code>
  <code>layer:EC-MSC-SMC:1.0</code>
  <code>layer:WPAM:1.0</code>
  <code>layer:EC-MSC-SMC:1.1</code>
  <code>layer:SOREM:2.0</code>
  <references/>
  - <info>
    <language>en-CA</language>
    <category>Met</category>
    <event>tornado</event>
    <responseType>Shelter</responseType>
    <responseType>Monitor</responseType>
    <urgency>Immediate</urgency>
    <severity>Extreme</severity>
    <certainty>Observed</certainty>
    <audience>general public</audience>
    - <eventCode>
      <valueName>profile:CAP-CP:Event:0.4</valueName>
      <value>tornado</value>
    </eventCode>
    - <eventCode>
      <valueName>SAME</valueName>
      <value>TOR</value>
    </eventCode>
    <effective>2018-08-17T20:42:24-00:00</effective>
    <expires>2018-08-17T22:11:24-00:00</expires>
    <senderName>Environment Canada</senderName>
    <headline>tornado warning in effect</headline>
    <description> At 8:17 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minto area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>
    <instruction> Take cover immediately, if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As a last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, go indoors! </instruction>
  1 - <parameter>
    <valueName>layer:EC-MSC-SMC:1.0:Alert_Type</valueName>
    <value>warning</value>
  </parameter>
  2 - <parameter>
    <valueName>layer:EC-MSC-SMC:1.0:Broadcast_Intrusive</valueName>
    <value>Yes</value>
  </parameter>
  - <parameter>
    <valueName>layer:SOREM:1.0:Broadcast_Immediately</valueName>
    <value>Yes</value>
  </parameter>
  - <parameter>
    <valueName>layer:EC-MSC-SMC:1.1:CAP_count</valueName>
    <value>A:1064 M:2413 C:3051</value>
  </parameter>
  3 - <parameter>
    <valueName>layer:EC-MSC-SMC:1.0:Alert_Location_Status</valueName>
    <value>active</value>
  </parameter>
  4 - <parameter>
    <valueName>layer:EC-MSC-SMC:1.0:Alert_Name</valueName>
    <value>tornado warning</value>
  </parameter>
  - <parameter>
    <valueName>layer:EC-MSC-SMC:1.0:Alert_Coverage</valueName>
    <value>Alberta</value>
  </parameter>
  5 - <parameter>
    <valueName>layer:SOREM:2.0:WirelessImmediate</valueName>
    <value>Yes</value>
  </parameter>

```

<?xml version="1.0" encoding="UTF-8"?>

<alert xmlns="urn:oasis:names:tc:emergency:cap:1.2">

<identifier>urn:oid:2.49.0.1.124.2378055368.2018</identifier>

<sender>cap-pac@canada.ca</sender>

<sent>2018-08-17T20:42:24-00:00</sent>

<status>Actual</status>

<msgType>Alert</msgType>

<source>Env. Can. - Can. Met. Ctr. - Montréal</source>

<scope>Public</scope>

<code>profile:CAP-CP:0.4</code>

<code>layer:SOREM:1.0</code>

<code>layer:EC-MSC-SMC:1.0</code>

<code>layer:WPAM:1.0</code>

<code>layer:EC-MSC-SMC:1.1</code>

<code>layer:SOREM:2.0</code>

<references/>

- <info>

<language>en-CA</language>

<category>Met</category>

<event>tornado</event>

<responseType>Shelter</responseType>

<responseType>Monitor</responseType>

<urgency>Immediate</urgency>

<severity>Extreme</severity>

<certainty>Observed</certainty>

<audience>general public</audience>

- <eventCode>

<valueName>profile:CAP-CP:Event:0.4</valueName>

<value>tornado</value>

</eventCode>

- <eventCode>

<valueName>SAME</valueName>

<value>TOR</value>

</eventCode>

<effective>2018-08-17T20:42:24-00:00</effective>

<expires>2018-08-17T22:11:24-00:00</expires>

<senderName>Environment Canada</senderName>

<headline>tornado warning in effect</headline>

<description> At 8:17 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minto area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>

<instruction> Take cover immediately if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As a last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, go indoors! </instruction>

- <parameter>

<valueName>layer:EC-MSC-SMC:1.0:Alert_Type</valueName>

<value>warning</value>

</parameter>

- <parameter>

<valueName>layer:SOREM:1.0:Broadcast_Immediately</valueName>

<value>Yes</value>

</parameter>

- <parameter>

<valueName>layer:EC-MSC-SMC:1.1:CAP_count</valueName>

<value>A:1064 M:2413 C:3051</value>

</parameter>

- <parameter>

<valueName>layer:EC-MSC-SMC:1.0:Alert_Location_Status</valueName>

<value>active</value>

</parameter>

- <parameter>

<valueName>layer:EC-MSC-SMC:1.0:Alert_Name</valueName>

<value>tornado warning</value>

</parameter>

- <parameter>

<valueName>layer:EC-MSC-SMC:1.0:Alert_Coverage</valueName>

<value>Alberta</value>

</parameter>

- <parameter>

<valueName>layer:SOREM:1.0:Broadcast_Text</valueName>

<value>At 8:17 p.m. Central Standard Time Tuesday, Environment Canada has issued a tornado warning for South Central and Southeastern Saskatchewan. Extra care and attention should be exercised in and around the following localities: Coronach, Bengough, Ceylon, Hardy, Big Beaver, Minto, Regway, Radville, Colgate, Goodwater, Lake Alma, Beaubier, Tribune and Oungre. Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. Take cover immediately if threatening weather approaches. Please consult local media for more information.</value>

</parameter>

```
<?xml version="1.0" encoding="UTF-8"?>
<alert xmlns="urn:oasis:names:tc:emergency:cap:1.2">
  <identifier>urn:oid:2.49.0.1.124.2378055368.2018</identifier>
  <sender>cap-pac@canada.ca</sender>
  <sent>2018-08-17T20:42:24-00:00</sent>
  <status>Actual</status>
  <msgType>Alert</msgType>
  <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
  <scope>Public</scope>
  <code>profile:CAP-CP:0.4</code>
  <code>layer:SOREM:1.0</code>
  <code>layer:EC-MSC-SMC:1.0</code>
  <code>layer:WPAM:1.0</code>
  <code>layer:EC-MSC-SMC:1.1</code>
  <code>layer:SOREM:2.0</code>
  <references/>
  - <info>
    <language>en-CA</language>
    <category>Met</category>
    <event>tornado</event>
    <responseType>Shelter</responseType>
    <responseType>Monitor</responseType>
    <urgency>Immediate</urgency>
    <severity>Extreme</severity>
    <certainty>Observed</certainty>
    <audience>general public</audience>
    - <eventCode>
      <valueName>profile:CAP-CP:Event:0.4</valueName>
      <value>tornado</value>
    </eventCode>
    - <eventCode>
      <valueName>SAME</valueName>
      <value>TOR</value>
    </eventCode>
    <effective>2018-08-17T20:42:24-00:00</effective>
    <expires>2018-08-17T22:11:24-00:00</expires>
    <senderName>Environment Canada</senderName>
    <headline>tornado warning in effect</headline>
    <description> At 8:17 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minto area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>
    <instruction> Take cover immediately, if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As a last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, go indoors! </instruction>
    - <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Type</valueName>
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    </parameter>
    - <parameter>
      <valueName>layer:SOREM:1.0:Broadcast_Immediately</valueName>
      <value>Yes</value>
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    - <parameter>
      <valueName>layer:EC-MSC-SMC:1.1:Parent_URI</valueName>
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    </parameter>
    - <parameter>
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    - <parameter>
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    </parameter>
    - <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Name</valueName>
      <value>tornado warning</value>
    </parameter>
    - <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Coverage</valueName>
      <value>Alberta</value>
    </parameter>
    - <parameter>
      <valueName>layer:SOREM:1.0:Broadcast_Text</valueName>
      <value>At 8:17 p.m. Central Standard Time Tuesday, Environment Canada has issued a tornado warning for South Central and Southeastern Saskatchewan. Extra care and attention should be exercised in and around the following locations: Gasson, Bessborough, Guelph, Weyburn, Big River, Minto, Boundary, Bodalla, Celista,</value>
    </parameter>
  </info>
  1
  2
</alert>
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```
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  <status>Actual</status>
  <msgType>Alert</msgType>
  <source>Env. Can. - Can. Met. Ctr. - Montréal</source>
  <scope>Public</scope>
  <code>profile:CAP-CP:0.4</code>
  <code>layer:SOREM:1.0</code>
  <code>layer:EC-MSC-SMC:1.0</code>
  <code>layer:WPAM:1.0</code>
  <code>layer:EC-MSC-SMC:1.1</code>
  <code>layer:SOREM:2.0</code>
  <references/>
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    <responseType>Monitor</responseType>
    <urgency>Immediate</urgency>
    <severity>Extreme</severity>
    <certainty>Observed</certainty>
    <audience>general public</audience>
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    </eventCode>
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    <expires>2018-08-17T22:11:24-00:00</expires>
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    <headline>tornado warning in effect</headline>
    <description> At 8:17 p.m. CST, Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. This potential tornado is located over the Minto area and is moving to the east at approximately 50 km/h towards the Lake Alma area. ### This is a dangerous and potentially life-threatening situation. Tornado warnings are issued when imminent or occurring thunderstorms are likely to produce or are producing tornadoes. </description>
    <instruction> Take cover immediately, if threatening weather approaches. If you hear a roaring sound or see a funnel cloud, swirling debris near the ground, flying debris, or any threatening weather approaching, take shelter immediately. Go indoors to a room on the lowest floor, away from outside walls and windows, such as a basement, bathroom, stairwell or interior closet. Leave mobile homes, vehicles, tents, trailers and other temporary or free-standing shelter, and move to a strong building if you can. As a last resort, lie in a low spot and protect your head from flying debris. Lightning kills and injures Canadians every year. Remember, when thunder roars, go indoors! </instruction>
    <parameter>
      <valueName>layer:EC-MSC-SMC:1.0:Alert_Type</valueName>
      <value>warning</value>
    </parameter>
    <parameter>
      <valueName>layer:SOREM:1.0:Broadcast_Immediately</valueName>
      <value>Yes</value>
    </parameter>
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    </parameter>
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    </parameter>
    <parameter>
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      <value>tornado warning</value>
    </parameter>
    <parameter>
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      <value>Alberta</value>
    </parameter>
    <parameter>
      <valueName>layer:SOREM:1.0:Broadcast_Text</valueName>
      <value>At 8:17 p.m. Central Standard Time Tuesday, Environment Canada has issued a tornado warning for South Central and Southeastern Saskatchewan. Extra care and attention should be exercised in and around the following localities: Coronach, Bengough, Ceylon, Hardy, Big Beaver, Minto, Regway, Radville, Colgate, Goodwater, Lake Alma, Beaubier, Tribune and Oungre. Environment Canada meteorologists are tracking a severe thunderstorm that is possibly producing a tornado. Damaging winds, large hail and locally intense rainfall are also possible. Take cover immediately if threatening weather approaches. Please consult local media for more information.</value>
    </parameter>
  </info>

```



SPORTSNET

10m ago

OAK Score

Athletics Score:

Blue Jays 1, Athletics 4 (Bot 3rd).

Canha doubled to center, Olson scored.



EMERGENCY ALERTS

10m ago

EMERGENCY ALERT / ALERTE D'URGENCE

At 11:11 p.m. Eastern Daylight Time Tuesday, Environment Canada has issued a tornado warning for this mobile coverage area. Take cover immediately if threatening weather approaches. /// À 23h11 heure avancée de l'Est le mardi, Environnement Canada a émis une alerte de tornade pour cette zone de couverture mobile. Mettez-vous immédiatement à l'abri si un phénomène météorologique menaçant s'approche.



Environment
Canada

Environnement
Canada

Canada



Thank You

Norm Paulsen
(norm.Paulsen@Canada.ca)