

MeteoAlarmCap

Introduction

MeteoAlarmCap is a XML export format following the Common Alerting Protocol standard: <http://docs.oasis-open.org/emergency/cap/v1.2/CAP-v1.2-os.html> . The export is used for <http://www.rijkswaterstaat.nl/kaarten/waterstand-tov-nap.aspx>.

MeteoAlarmCap Export Configuration

The configuration of the MeteoAlarmCap export module is shown in the following example.

The following are the required properties that have to be configured:

- meteo-alarm-soap-service : the url of the soap service to post the cap files to. For example: <http://www.meteoalarm.eu:8080/functions/webservices/capimport.php?wsdl>
- dolibarrkey: key needed by the soap service
- username: username needed by the soap service
- password: password needed by the soap service
- area-code

The area code is one of the following codes that should be available as externalLocationId in the idMap (only one code is required if a locationset is configured in the timeseriesset):

- "GR" (Groningen)
- "FL" (Flevoland)
- "ZH" (Zuid-Holland)
- "ZE" (Zeeland)
- "NH" (Noord-Holland)
- "LB" (Limburg)
- "NB" (Noord-Brabant)
- "GL" (Gelderland)
- "UT" (Utrecht)
- "OV" (Overijssel)
- "FR" (Friesland)
- "DR" (Drenthe)
- "WAE" (Waddeneilanden)
- "WAD" (Waddenzee)
- "IJG" (IJsselmeergebied)

The following properties are optional and can be used to change the default values. The default values are given:

- "status" : "Test"
- "source" : "KNMI"
- "scope" : "Public"
- "certainty" : "Likely"
- "category" : "Met"
- "sender" : "<http://www.knmi.nl/nederland-nu/weer/waarschuwingen>"
- "sender-name" : "KNMI Koninklijk Nederlands Meteorologisch Instituut"
- "contact" : "informatiecentrum@knmi.nl"
- "urgency" : "Future"
- "awareness-type" : "12"
 - The following awareness-types are supported:
 - "00" : "1; wind"
 - "01" : "10; rain";
 - "02" : "2; snow-ice"
 - "03" : "3; thunderstorm"
 - "07" : "4; fog"
 - "12" : "12; flooding"
 - "16" : "5; high-temperature"
 - "17" : "6; low-temperature"

For exporting description and instruction the MeteoalarmCap export relies on location attributes.

```

<locationSet id="meteoalarm">
  <csvFile>
    <file>meteoalarm</file>
    <geoDatum>WGS 1984</geoDatum>
    <id>%ID%</id>
    <name>%NAME%</name>
    <x>%X%</x>
    <y>%Y%</y>
    <attribute id="Green_DES_NL">
      <text>%Green_DES_NL%</text>
    </attribute>
    <attribute id="Green_DES_EN">
      <text>%Green_DES_EN%</text>
    </attribute>
    <attribute id="Green_INS_NL">
      <text>%Green_INS_NL%</text>
    </attribute>
    <attribute id="Green_INS_EN">
      <text>%Green_INS_EN%</text>
    </attribute>

    <attribute id="Yellow_DES_NL">
      <text>%Yellow_DES_NL%</text>
    </attribute>
    <attribute id="Yellow_DES_EN">
      <text>%Yellow_DES_EN%</text>
    </attribute>
    <attribute id="Yellow_INS_NL">
      <text>%Yellow_INS_NL%</text>
    </attribute>
    <attribute id="Yellow_INS_EN">
      <text>%Yellow_INS_EN%</text>
    </attribute>

    <attribute id="Orange_DES_NL">
      <text>%Orange_DES_NL%</text>
    </attribute>
    <attribute id="Orange_DES_EN">
      <text>%Orange_DES_EN%</text>
    </attribute>
    <attribute id="Orange_INS_NL">
      <text>%Orange_INS_NL%</text>
    </attribute>
    <attribute id="Orange_INS_EN">
      <text>%Orange_INS_EN%</text>
    </attribute>

    <attribute id="Red_DES_NL">
      <text>%Red_DES_NL%</text>
    </attribute>
    <attribute id="Red_DES_EN">
      <text>%Red_DES_EN%</text>
    </attribute>
    <attribute id="Red_INS_NL">
      <text>%Red_INS_NL%</text>
    </attribute>
    <attribute id="Red_INS_EN">
      <text>%Red_INS_EN%</text>
    </attribute>

  </csvFile>
</locationSet>

```

The csv file might look as follows:

```
ID;NAME;X;Y;REL_LOBITH;REL_EIJSDEN;Green_DES_NL;Green_INS_NL;Green_DES_EN;Green_INS_EN;Yellow_DES_NL;
Yellow_INS_NL;Yellow_DES_EN;Yellow_INS_EN;Orange_DES_NL;Orange_INS_NL;Orange_DES_EN;Orange_INS_EN;Red_DES_NL;
Red_INS_NL;Red_DES_EN;Red_INS_EN
DR;Drenthe;6.55;52.98;FALSE;FALSE;Alles is normaal;Niets doen;Everything is normal;Do nothing;Not so fine;Check
website;Not so fine;Check website;Be careful;Ready for packing;Be careful;Ready for packing;We are in danger;
Run;We are in danger;Run
FL;Flevoland;5.47;52.5;FALSE;FALSE;Alles is normaal;Niets doen;Everything is normal;Do nothing;Not so fine;
Check website;Not so fine;Check website;Be careful;Ready for packing;Be careful;Ready for packing;We are in
danger;Run;We are in danger;Run
```

As MeteoAlarmCap can generate multiple CAP files per forecast, 'exportFileName' create a folder that includes all exported CAP files. 'exportFileName' should be different for each export (e.g. each RWSoS system).

meteo-alarm-soap-service - contains the url where the request should be sent. Compulsory field.

username, password and tokenUrl are necessary fields to access an authorisation token.



```

<?xml version="1.0" encoding="UTF-8"?>
<timeSeriesExportRun xmlns="http://www.wldelft.nl/fews" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.wldelft.nl/fews
http://fews.wldelft.nl/schemas/version1.0/timeSeriesExportRun.xsd">
  <export>
    <general>
      <exportType>MeteoAlarmCap</exportType>
      <folder>${EXPORT_FOLDER}/MeteoAlarm</folder>
      <exportFileName>
        <name>meteoAlarmOv.xml</name>
      </exportFileName>
      <idMapId>idMeteoAlarm</idMapId>
    </general>
    <properties>
      <string key="area-code" value="OV" ></string>
      <string key="meteo-alarm-soap-service" value="https://private-anon-932344a17d-
meteoalarm.apiary-proxy.com/api/v1/warnings"/>
      <string key="username" value="$METEOALARM_USER$"/>
      <string key="password" value="username"/>
      <string key="tokenUrl" value="https://private-anon-932344a17d-meteoalarm.apiary-proxy.
com/api/v1/tokens"/>
    </properties>
    <exportAttribute internalAttributeId="Green_DES_NL" externalAttributeId="Green_DES_NL"><
/exportAttribute>
    <exportAttribute internalAttributeId="Green_INS_NL" externalAttributeId="Green_INS_NL"><
/exportAttribute>
    <exportAttribute internalAttributeId="Green_DES_EN" externalAttributeId="Green_DES_EN"><
/exportAttribute>
    <exportAttribute internalAttributeId="Green_INS_EN" externalAttributeId="Green_INS_EN"><
/exportAttribute>
    <exportAttribute internalAttributeId="Yellow_DES_NL" externalAttributeId="Yellow_DES_NL"><
/exportAttribute>
    <exportAttribute internalAttributeId="Yellow_INS_NL" externalAttributeId="Yellow_INS_NL"><
/exportAttribute>
    <exportAttribute internalAttributeId="Yellow_DES_EN" externalAttributeId="Yellow_DES_EN"><
/exportAttribute>
    <exportAttribute internalAttributeId="Yellow_INS_EN" externalAttributeId="Yellow_INS_EN"><
/exportAttribute>
    <exportAttribute internalAttributeId="Orange_DES_NL" externalAttributeId="Orange_DES_NL"><
/exportAttribute>
    <exportAttribute internalAttributeId="Orange_INS_NL" externalAttributeId="Orange_INS_NL"><
/exportAttribute>
    <exportAttribute internalAttributeId="Orange_DES_EN" externalAttributeId="Orange_DES_EN"><
/exportAttribute>
    <exportAttribute internalAttributeId="Orange_INS_EN" externalAttributeId="Orange_INS_EN"><
/exportAttribute>
    <exportAttribute internalAttributeId="Red_DES_NL" externalAttributeId="Red_DES_NL"><
/exportAttribute>
    <exportAttribute internalAttributeId="Red_INS_NL" externalAttributeId="Red_INS_NL"><
/exportAttribute>
    <exportAttribute internalAttributeId="Red_DES_EN" externalAttributeId="Red_DES_EN"><
/exportAttribute>
    <exportAttribute internalAttributeId="Red_INS_EN" externalAttributeId="Red_INS_EN"><
/exportAttribute>

    <timeSeriesSet>
      <moduleInstanceId>ModuleInstanceId</moduleInstanceId>
      <valueType>scalar</valueType>
      <parameterId>Q</parameterId>
      <locationId>73</locationId>
      <timeSeriesType>external historical</timeSeriesType>
      <timeStep unit="minute" multiplier="15"/>
      <readWriteMode>read complete forecast</readWriteMode>
      <synchLevel>1</synchLevel>
      <ensembleId>main</ensembleId>
      <ensembleMemberIndex>0</ensembleMemberIndex>
    </timeSeriesSet>
  </export>
</timeSeriesExportRun>

```

The following code shows a sample output file:

```
<?xml version="1.0" encoding="UTF-8"?>
<alert xmlns="urn:oasis:names:tc:emergency:cap:1.2">
  <identifier>2.49.0.0.528.0.NL.180214155054.FL_OV</identifier>
  <sender>http://www.knmi.nl/nederland-nu/weer/waarschuwingen</sender>
  <sent>2018-02-15T14:48:17+00:00</sent>
  <status>Test</status>
  <msgType>Alert</msgType>
  <source>KNMI</source>
  <scope>Public</scope>
  <info>
    <language>ne-NL</language>
    <category>Met</category>
    <event>awareness_type=12,awareness_level=1</event>
    <responseType>None</responseType>
    <urgency>Future</urgency>
    <severity>Minor</severity>
    <certainty>Likely</certainty>
    <effective>2007-12-09T00:00:00+00:00</effective>
    <onset>2007-12-09T23:00:00+00:00</onset>
    <expires>2007-12-09T23:59:59+00:00</expires>
    <senderName>KNMI Koninklijk Nederlands Meteorologisch Instituut</senderName>
    <headline>Flooding - Geen waarschuwingen voor Overijssel - Nederland</headline>
    <web>http://meteoalarm.eu/ne-NL/0/0/NL016-Overijssel.html</web>
    <contact>informatiecentrum@knmi.nl</contact>
    <parameter>
      <valueName>awareness_type</valueName>
      <value>12; flooding</value>
    </parameter>
    <parameter>
      <valueName>awareness_level</valueName>
      <value>1; green; Minor</value>
    </parameter>
    <area>
      <areaDesc>desc_NL016</areaDesc>
      <geocode>
        <valueName>EMMA_ID</valueName>
        <value>NL016</value>
      </geocode>
    </area>
  </info>
</alert>
```