



# The Global-Scale Alert Hub for Official Emergency Alerts



# Common Alerting Protocol (CAP), ITU X.1303

- CAP as a "business form" communicates key facts: What? Where? How soon? How bad? How certain? What should people do?
- CAP uses XML, eXtensible Markup Language, so the alert data is machine-friendly but combined with natural language information
- CAP enables targeted alerting to people in harm's way: cell phones, radio, television, sirens, highway signs, online, smartphone apps, and emerging IoT devices, among others



# Internet News Feeds

Example <http://alerts.weather.gov/>

## NWS Public Alerts in XML/CAP v1.1 and ATOM Formats

### Overview

This page provides access to NWS watches, warnings, advisories, and other similar products in the Common Alerting Protocol (CAP) and Atom Syndication Format (ATOM).









### Use of ATOM and CAP with Traditional and Emerging Technologies

NWS CAP and ATOM feeds can be used to launch Internet messages, trigger alerting systems, feed mobile device (e.g., cell phone/smart phone and tablet) applications, news feeds, television text captions, highway sign messages, and synthesized voice over automated telephone calls or radio broadcasts.

The ATOM and CAP feeds are updated about every two minutes.

More information on NWS CAP and ATOM feeds is available in the [Service Description Document for NWS Watches, Warnings, and Advisories using CAP and ATOM based Formats](#).

A | C | D | F | G | H | I | K | L | M | N | O | P | R | S | T | U | V | W | --U.S.--

state (Zone List   County List)	ATOM
National (all)	 ATOM
Alabama -- (Zone List   County List)	 ATOM
Alaska -- (Zone List   County List)	 ATOM
American Samoa -- (Zone List   County List)	 ATOM
Arizona -- (Zone List   County List)	 ATOM
Arkansas -- (Zone List   County List)	 ATOM
California -- (Zone List   County List)	 ATOM
Colorado -- (Zone List   County List)	 ATOM

- Each alert is a news story
- CAP Alerts are published in an Internet news feed
- News feeds follow either RSS or ATOM standard, and both are XML formats
- Aggregating CAP news feeds, example:
  - 3,809 NWS feeds
  - > one of 1,130 U.S. feeds
  - > one of 80 national feeds

# The International Register of Alerting Authorities



HOME WORLDWEATHER SEVERE WEATHER

Public Weather Services established this register of information about alerting authorities as identified by Members. For questions, please contact us. Select a country to get started.

**Alerting authorities by WMO Member or Organization**  
To monitor updates to this Register, subscribe to the [RSS](#) or [ATOM](#) news feed.

<input type="radio"/> Afghanistan	<input type="radio"/> Albania	<input type="radio"/> Algeria	<input type="radio"/> Angola	<input type="radio"/> Anguilla
<input type="radio"/> Antigua and Barbuda	<input type="radio"/> Argentina	<input type="radio"/> Armenia	<input type="radio"/> Australia	<input type="radio"/> Austria
<input type="radio"/> Azerbaijan	<input type="radio"/> Bahamas	<input type="radio"/> Bahrain	<input type="radio"/> Bangladesh	<input type="radio"/> Barbados
<input type="radio"/> Belarus	<input type="radio"/> Belgium	<input type="radio"/> Belize	<input type="radio"/> Benin	<input type="radio"/> Bhutan
<input type="radio"/> Bolivia	<input type="radio"/> Bosnia and Herzegovina	<input type="radio"/> Botswana	<input type="radio"/> Brazil	<input type="radio"/> British Caribbean Territories
<input type="radio"/> Brunei Darussalam	<input type="radio"/> Bulgaria	<input type="radio"/> Burkina Faso	<input type="radio"/> Burundi	<input type="radio"/> Cambodia
<input type="radio"/> Cameroon	<input type="radio"/> Canada	<input type="radio"/> Cape Verde	<input type="radio"/> Cayman Islands	<input type="radio"/> Central African Republic
<input type="radio"/> Chad	<input type="radio"/> Chile	<input type="radio"/> China	<input type="radio"/> Colombia	<input type="radio"/> Comoros
<input type="radio"/> Congo	<input type="radio"/> Congo, Democratic Republic of the	<input type="radio"/> Cook Islands	<input type="radio"/> Costa Rica	<input type="radio"/> Cote d'Ivoire
<input type="radio"/> Croatia	<input type="radio"/> Cuba	<input type="radio"/> Curaçao and Sint Maarten	<input type="radio"/> Cyprus	<input type="radio"/> Czech Republic
<input type="radio"/> Denmark	<input type="radio"/> Djibouti	<input type="radio"/> Dominica	<input type="radio"/> Dominican Republic	<input type="radio"/> Ecuador
<input type="radio"/> Egypt	<input type="radio"/> El Salvador	<input type="radio"/> Eritrea	<input type="radio"/> Estonia	<input type="radio"/> Eswatini
<input type="radio"/> Ethiopia	<input type="radio"/> EU-METNET	<input type="radio"/> Fiji	<input type="radio"/> Finland	<input type="radio"/> France

- People need to know which sources they can trust
- WMO & ITU Register is at <http://www.wmo.int/alertingorg>
- Each alerting authority has international standard "Object Identifiers" so its CAP alerts can be globally unique
- 300 authorities now, at least one for each of 185 nations

# The Global-Scale Alert Hub for Official Emergency Alerts

- National CAP feeds today (operational or in development) 75% of world by population
- Prototype Alert Hub now online at <http://alert-hub.org>
- Challenge now is to spread the word, especially in cities
- We can solve this: No one should be left out of life-critical emergency alerts!

