

2024 Common Alerting Protocol (CAP) Implementation Workshop and Training

22-24 October in Leuven, Belgium

The [Traveller Information Services Association \(TISA\)](#), [U.S. Agency for International Development \(USAID\)](#), [U.S. National Oceanic and Atmospheric Administration \(NOAA\)](#), and [Alert-Hub.Org CIC](#) are hosting the 2024 CAP Implementation Workshop. Co-sponsors are the [International Association of Emergency Managers \(IAEM\)](#) and the [OASIS](#) standards organization.



The CAP Workshop will be 23-24 October, 9:30-17:30 CEST, in the Grand Auditorium of [Irish College](#) in Leuven, Belgium. It follows two events on 22 October in the same venue: [CAP Training](#) 9:00 to noon and a TISA Workshop all afternoon. Everyone is welcome to participate in all three days. Click [here](#) to register.

CAP Implementation Workshops focus on emergency alerting as enabled by the [CAP standard, International Telecommunication Union Recommendation X.1303](#). At the Workshops, implementers of CAP and other associated organizations discuss common issues and how to leverage the expanding adoption of CAP.

Today, 87% of the world's population lives in a country with at least one national CAP feed operational. [CAP implementation by country](#) is shown in [this zoomable map](#) and in the static map below.

Developing nations and small nations have lagged behind other nations in their uptake of CAP. This gap in uptake inspired the [Call to Action on Emergency Alerting](#), launched in April 2021 and endorsed by the [International Federation of Red Cross and Red](#)

[Crescent Societies \(IFRC\)](#), [International Telecommunication Union \(ITU\)](#), [United Nations Office for Disaster Risk Reduction \(UNDRR\)](#), [World Broadcasting Unions \(WBU\)](#), and [the World Meteorological Organization \(WMO\)](#), among others. The goal of this Call to Action is: "all countries have the capability for effective, authoritative emergency alerting that leverages the Common Alerting Protocol (CAP), suitable for all media and all hazards."

Everyone interested in emergency alerting is welcome: managers, technical staff, media, etc., including government, non-governmental organizations (NGOs), and commercial firms. There is no charge to participate. For those who cannot participate in person, Webinar call-in instructions will be sent to everyone registered. Documents pertaining to the Workshop and Training are posted to the Workshop [website](#).

The CAP Workshop [Programme](#) is complete, with our [Speakers](#) addressing 23 topics, sketched briefly below.

Each of several presentations will present CAP-enabled emergency alerting at an alerting authority in a particular country. These include: Brazil, France, Malaysia, Mexico, and Sierra Leone.

A presentation will discuss "public-private partnerships" in the context of emergency alerting to the public.

The [SAFERS project](#), based in Europe, focused on alerts for forest fires and leveraged CAP for alerting. Workshop participants will hear how this work used satellite remote sensing data and Geographic Information Systems (GIS) as a core technology.

The Chief Technical Officer of Alert-Hub.Org CIC will explain the current technology of the free Alert Hub.

The Early Warnings for All (EW4All) initiative will be presented by a co-chair of the WMO Expert Team on EW4All. Building on the worldwide CAP infrastructure, EW4All quotes the Call to Action as one of its Outcomes. Also, EW4All has an Action to: "Establish CAP editor and Alert Hub to further enhance multi-hazard CAP based emergency alerting". Notably, UNDRR published [this 90-second video about CAP](#).



One of the presentations will spotlight recent research that leveraged a global dataset to explore public perceptions of different warning information sources.

A representative of MeteoAlarm will provide updates on its activities in Europe and sketch the [RODEO project](#). RODEO will enhance access to meteorological datasets declared as High Value Datasets in Europe.

An expert in security systems will provide insights gained from work on European Union Security Projects.

A representative of IFRC will present an example from Eswatini showing how Red Cross engagement focused on CAP is helping to strengthen community resilience.

A representative of Google Public Alerts will discuss their perspective on policies and practices that are important to the particular ways they leverage CAP.

A presentation will discuss CAP and the Galileo Emergency Warning Satellite Service, being pursued through the AWARE project under Horizon Europe.

Representatives of Australian Broadcasting Corporation will provide a practical perspective on managing and using diverse data streams.

There will be an update on the OASIS Event Terms designed for use by CAP-enabled systems. This OASIS work has been ongoing for many years.

A presentation will highlight the Esri "CAP Connector" tool that transforms any CAP Alert Hub feed into a dynamic, near-real-time GIS Feature Layer (available [here](#)). Such a service facilitates GIS analysis and advanced functions such as geofencing. Having CAP alerts easily integrated in GIS will greatly facilitate use of CAP alerts in Situation Awareness resources used by Emergency Operation Centers (EOCs) in cities, provinces, countries, and regions throughout the world.

A representative of USAID will talk about their CAP-related work, which includes funding of the CAP-enabled [Flash Flood Guidance System with Global Coverage \(FFGS\)](#). USAID also funds Disaster Reduction work being carried out by U.S. Peace Cops.

In this year of the 20th anniversary of the devastating 2004 tsunami, a tsunami expert will provide an update on CAP-enabled tsunami warning systems deployed or anticipated in vulnerable areas worldwide.

An expert with TISA will explain how CAP alerts appear on in-vehicle navigation systems via the TPEG2 Emergency Alerts and Warnings Standard.

A presenter will make a case that Big Data can supercharge CAP-enabled emergency warning.

The chair of the OASIS EM TC will provide updates on their work. Also, a meeting of the CAP Subcommittee will occur after conclusion of sessions on October 23.

The CAP Training on the morning of October 22 will cover the basics of CAP and hands-on instruction for the cloud-based CAP Editor freeware. It will also survey

the diverse "last mile media" that can leverage CAP to reach everyone in harm's way, wherever they are.

CAP Training will update the practical advice being compiled for implementing CAP over Mobile Networks. Very low-cost technology for automated broadcasting of CAP alerts over community radio, via text-to-speech and automated translation, will also be presented

The CAP Training is open to participants in the CAP Workshop. All registered participants of the Workshop will also get Webinar call-in instructions for the Training.

CAP Implementation Workshops are technical meetings conducted in English without interpretation. These meetings do not set policy; they are intended solely for information sharing among experts. Accordingly, participants represent themselves and need not be formally associated with organizations. Registration is necessary to receive the required password for the video conference.

Materials from the 16 prior CAP Implementation Workshops are available at these links:

- [2023 Geneva, Switzerland](#)
- [2022 Amsterdam, The Netherlands](#)
- [2021 Geneva, Switzerland \(remote only\)](#)
- [2020 Geneva, Switzerland \(remote only\)](#)
- [2019 Mexico City, Mexico](#)
- [2018 Hong Kong, China](#)
- [2017 Rome, Italy](#)
- [2016 Bangkok, Thailand](#)
- [2015 Rome, Italy](#)
- [2014 Negombo, Sri Lanka](#)
- [2013 Geneva, Switzerland](#)
- [2012 Montréal, Canada](#)
- [2011 Geneva, Switzerland](#)
- [2009 Geneva, Switzerland](#)
- [2008 Geneva, Switzerland](#)
- [2006 Geneva, Switzerland](#)

Program Committee of the 2024 CAP Implementation Workshop:	
Chair	Eliot Christian
TISA	Stephanie Chaufton
USAID	Sezin Tokar
IAEM	Beth Armstrong
OASIS	Elysa Jones
Contact the Program Committee by e-mail to Eliot.J.Christian@gmail.com	

