

Emergency Management Technical Committee (EMTC)

CAP Implementation Workshop

30 September 2020

Elysa Jones, Chair OASIS

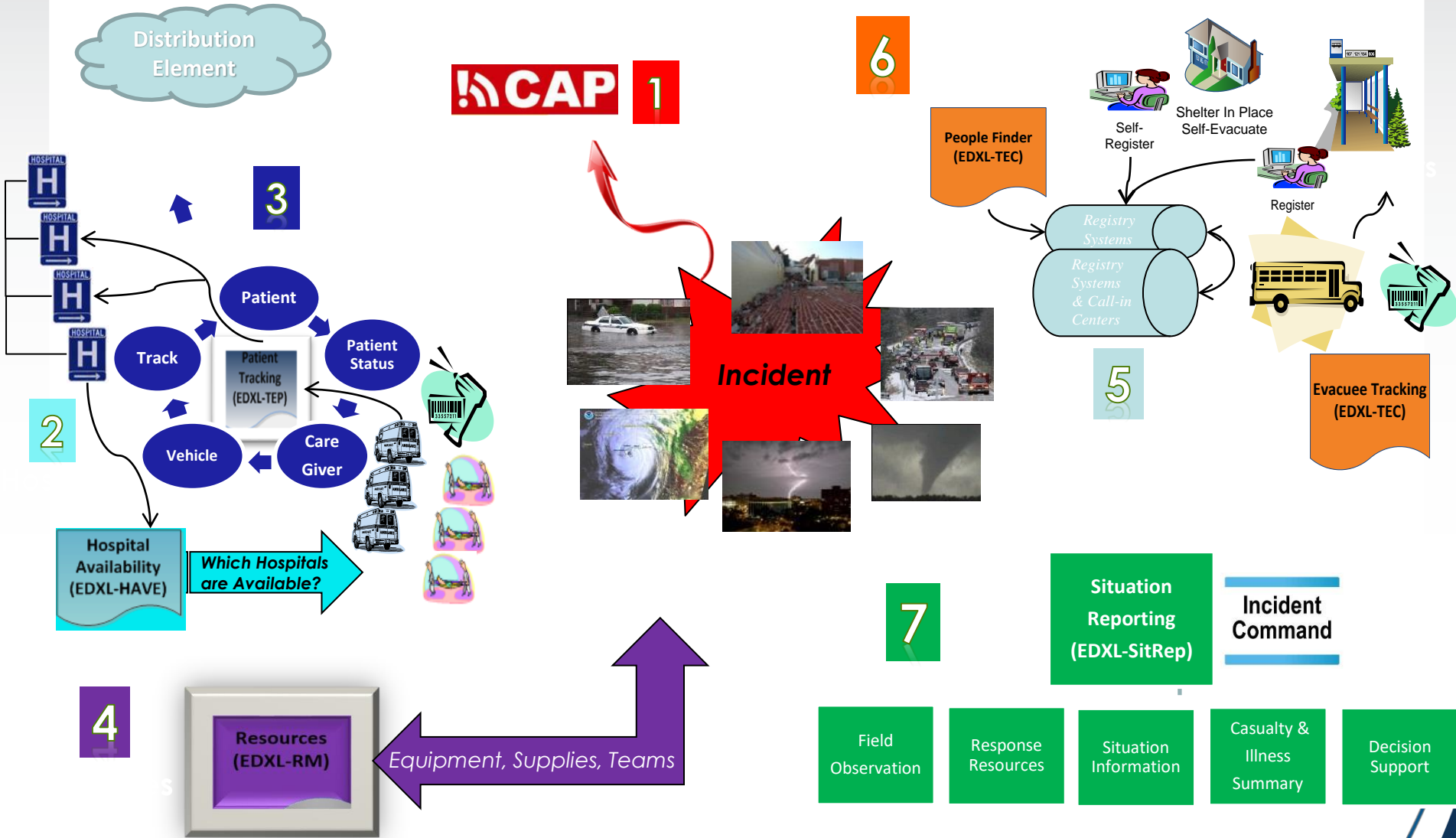
Emergency Management Technical Committee

Emergency Interoperability Member Section

Agenda


- Overview of Specifications
 - Emergency Data Exchange Language (EDXL)
- Common Alerting Protocol (CAP)
 - Event Terms List

EDXL family of Emergency Management Standards



Emergency Data Exchange Language (EDXL)

EDXL is a family of standards, providing a common language, or interface, for data exchange across emergency-related systems

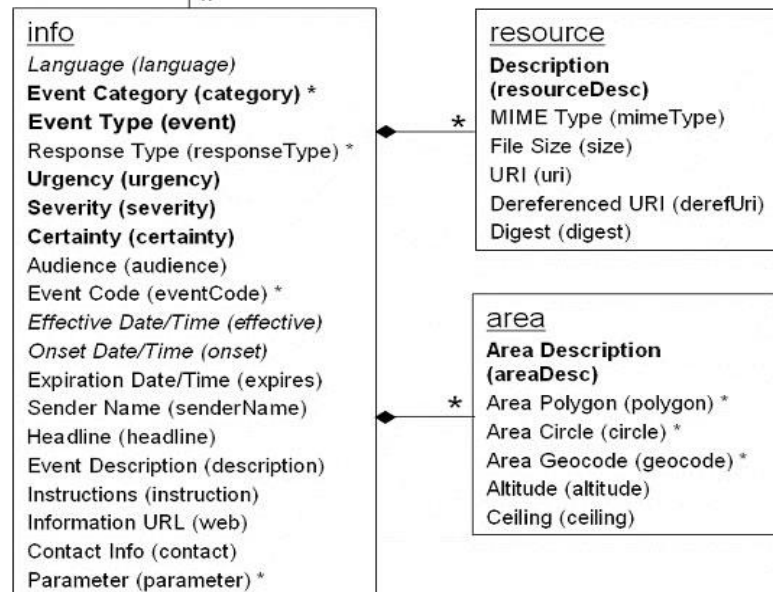
- **Common Alerting Protocol (CAP)**
 - Emergency alerts,  notifications, and public warnings
- **Distribution Element (EDXL-DE)**
 - Wrap and route any emergency information (XML and non-XML)
- **Resource Messaging (EDXL-RM)**
 - Emergency resource information
- **Hospital AVailability Exchange (EDXL-HAVE)**
 - Hospital status, services, resources
- **Tracking of Emergency Patients (EDXL-TEP)**
 - Emergency patient and EMS tracking information
- **Situation Reporting (EDXL-SitRep)**
 - Situation / incident / event and response information
- **Tracking of Emergency Clients (EDXL-TEC)**
 - Emergency Evacuee tracking and Shelter information

Overview – CAP Object Model




Elements in **boldface** are mandatory; elements in *italics* have default values that will be assumed if the element is not present; asterisks (*) indicate that multiple instances are permitted.

- Simple
- Extensible
- Flexible
- Human Readable
- Powerful




Introduction

- OASIS EMTC CAP SC has developed a list of “event” terms for use in alert messaging systems.
 - The event terms list has been created at the request of international CAP users
 - The approach to developing the list has been to focus on how the list can help when comparing event terms.
 - Many alerting authorities have their own terms that work well in the communities they serve.
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Background – CAP Design

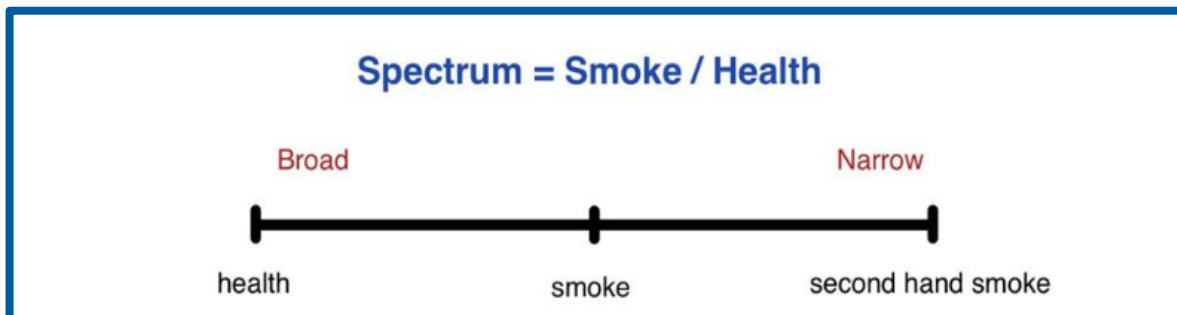
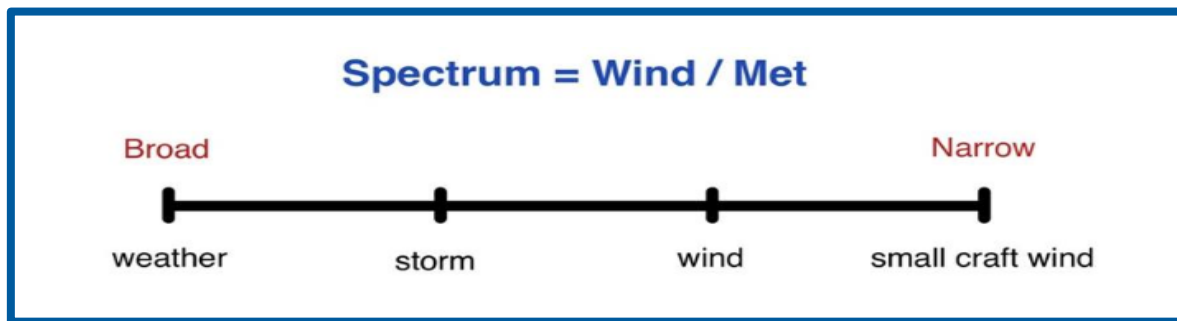
- CAP is designed to convey information associated to an event of interest.
- An “event” is something that happens in a given place during an interval of time
- The varied uses of the required “event” element inhibits interoperability.
- The typing of the subject event is left for communities that use CAP to define.
- An “event type” often embodies notions of impact.
- An “alert” is a signal to heighten attention.
- An “alert type” engages a social aspect.

Event Terms

- What event types are alert-able is the decision of a community of users.
 - Properly referencing subject events to an event type is an aspect of effective communication.
 - One group cannot possibly pick the best term for known event types.
 - The event terms list will be large and every growing to accommodate a variety of interpretations.
 - CAP event type codes can help support auto processing.
 - CAP XML supports the final audience as well as processing along the distribution path.
 - The CAP category element also plays into the decision-making element in CAP
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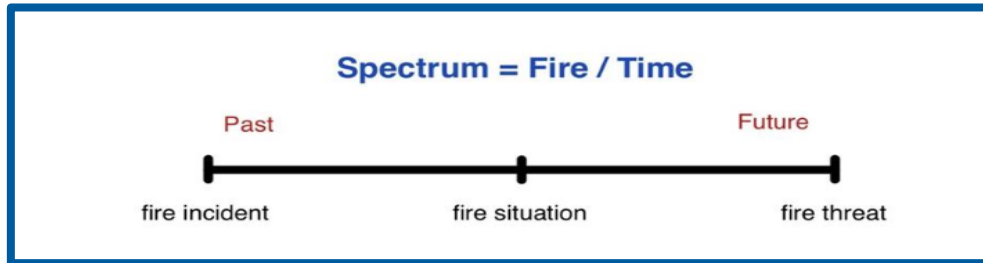
Event Term Spectrums

- Alerting authorities are most concerned about the social aspect of alerting
- Terms can be very specific or very general regarding what information is to be conveyed.

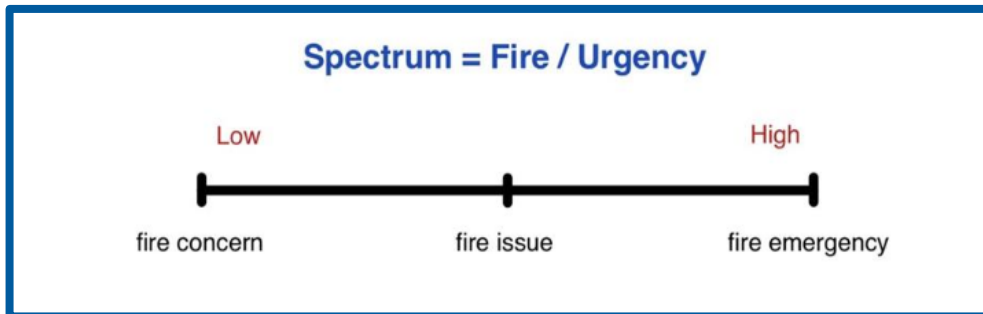


Spectrum Considerations

- Past, present and future spectrum




- Urgency spectrum




- Intersecting spectrums

Spectrum Concept

- A spectrum is a grouping of terms is brought together under one defined range to provide a means of comparing terms.
 - Related terms
 - Narrow terms
 - Terms vs preferred terms
 - Other language terms
 - Other lists
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Event Terms List


- A list of “event” terms for use in alert messaging systems.
 - Submitted event terms
 - What event terms will be added to the list
 - What event terms will not be added to the list
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Procedures

- OASIS Committee Note
- Intended audience
 - Originators with no local Event Terms List and no local Event Code list
 - Originators with no local Event Terms List but with a local Event Code list
 - Originators with a local Event Terms List but with no local Event Code list
 - Consumers that prefer to process the <event> element in a CAP message
 - Consumers that prefer to process the <eventCode> element in a CAP message
- Dealing with requests for new terms or codes

Next Steps

- Event Terms Committee Note – Nov 1, 2020
 - Subject Matter Expert Meeting – Dec 4, Dec 11
 - Finalize and Publish Committee Note – 1Q2021

 - Next Work Product for the CAP SC
 - Practices guide for mobile device CAP alerts
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References

- OASIS Home Page: www.OASIS-open.org
- Emergency Management Technical Committee Home Page: https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=emergency
- All approved EDXL specifications: <http://docs.oasis-open.org/emergency/>
- EDXL Overview Video: <https://www.youtube.com/watch?v=7eoV5XwZVO8>
- EDXL Overview Video (Italian):
https://vimeo.com/234306686?utm_source=email&utm_medium=vimeo-cliptranscode-201504&utm_campaign=29220
- CAP Logo: <http://docs.oasis-open.org/emergency/edxl-cap-logo/>
- Practices Guide Elements: <http://docs.oasis-open.org/emergency-adopt/cap-elements/>
- Practices Guide Feeds: <http://docs.oasis-open.org/emergency-adopt/cap-feeds/>

Questions



Elysa Jones, EMTC Chair
elysajones@yahoo.com