

# Emergency Management Technical Committee 2017 Update

CAP Implementers Workshop

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# Agenda

## *Organization for the Advancement of Structured Information Standards (OASIS)* *Emergency Management Technical Committee*

- CAP SC Update
- EDXL Suite of Standards
- Specification Updates
- RIM SC
  - JSON Representations
  - EDXL Framework toolkit

# CAP SC Update

- **Recommendations reviewed from 2016 workshop**
  - Event list: Status presented in following slides
  - Geospatial data: Polygon has priority over geocodes or FIPS, etc. (add to practices guide)
  - Reference to previous alerts: “Use <references> to point to earlier alerts. The alerting system needs to record the IDs of all previous alerts referring to the same event that haven't expired”
  - Producing CAP feeds for GDPC societies - consideration
- **Upcoming work**
  - “Best/recommended” practices guide elements/feed
  - CAP 1.2 Errata; CAP 2.0
  - Best practices guide for cell broadcast (wireless emergency alerts)
  - Open discussion list [https://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=emergency#feedback](https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=emergency#feedback)

# Current Draft Event List - 1

1	AirHazard	
2	Air Hazard	Air QualityAlert
3	Air Hazard	Air Stagnation
4	Air Hazard	Ashfall
5	Air Hazard	Blowing Dust
6	Air Hazard	Brisk Wind
7	Air Hazard	Dense Fog
8	Air Hazard	Dense Smoke
9	Air Hazard	Dust Storm
10	Air Hazard	Extreme Wind
11	Air Hazard	Gale
12	Air Hazard	High Wind
13	Air Hazard	Lake Wind
14	Avalanche	
15	BeachHazard	
16	Beach Hazard	Crude Oil Spill
17	Beach Hazard	Rip Current
18	Beach Hazard	Volatile Hydrocarbons Spill
19	BiologicalHazard	
20	Biological Hazard	Food Contamination

# Current Draft Event List - 2

82	Tropical Storm	
83	Tropical Storm	Hurricane
84	Tropical Storm	Hurricane Force Wind
85	Tropical Storm	Storm Surge
86	Tropical Storm	Super Typhoon
87	Tropical Storm	Tropical Cyclone
88	Tropical Storm	Tropical Depression
89	Tropical Storm	Tropical Storm Winds
90	Tsunami	
91	Volcano	
92	Winter Weather	
93	Winter Weather	Blizzard
94	Winter Weather	Blowing Snow
95	Winter Weather	Extreme Cold
96	Winter Weather	Freeze
97	Winter Weather	Freezing Rain
98	Winter Weather	Freezing Spray
99	Winter Weather	Frost
100	Winter Weather	Hard Freeze
101	Winter Weather	Heavy Snow
102	Winter Weather	Ice Storm
103	Winter Weather	Lake Effect Snow
104	Winter Weather	Sleet
105	Winter Weather	Snow
106	Winter Weather	Winter Storm

# Event List - Draft

- Question for the workshop: There are widely used terms with naming conventions that conflict. For example, Warning is used for some events and not for others in the actual term. Or Severe Thunderstorm when the actual event is a Thunderstorm, which may or may not be severe, or Extreme Fire Danger versus just Fire Danger. **How do we reconcile this inconsistent naming?**
- Question for the workshop: There are some narrow terms that fall under several different broad terms. For example, Gale under Air Hazard and Gale under Marine Weather. Or Storm Surge on its own versus also part of a Tropical Storm. **What is the feedback on either consolidating under a single broad term or allowing for the same narrow term to be repeated in multiple locations?**
- Question for the workshop: In attempting to develop the list we found there are a number of ambiguities between both the broad terms and narrow terms. In addition there are also some ambiguities with the CAP categories. For example, Air Quality in the Canadian list falls into 4 CAP categories. **How will the community address the problems of using a very short list of broad terms given these ambiguities? How can the list be made most useful to achieve the goals of an event list?**

# Event List - Next Steps

- Final statement for the workshop: We'd like to resolve these questions and concerns to provide clarity on how the list is managed before proceeding with community input on the actual terms themselves. Otherwise managing input will be a difficult task.
- Decision on EMTC call 9/20/2017: Topic to be discussed on open OASIS discussion list.
  - Thoughts on structure
  - Thoughts on whether this will be helpful/adopted
  - How/who should maintain
- Open OASIS list chosen for internal CAP community discussion. All CAP workshop participants will be sent information to engage when a topic is posted. [https://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=emergency#feedback](https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=emergency#feedback)

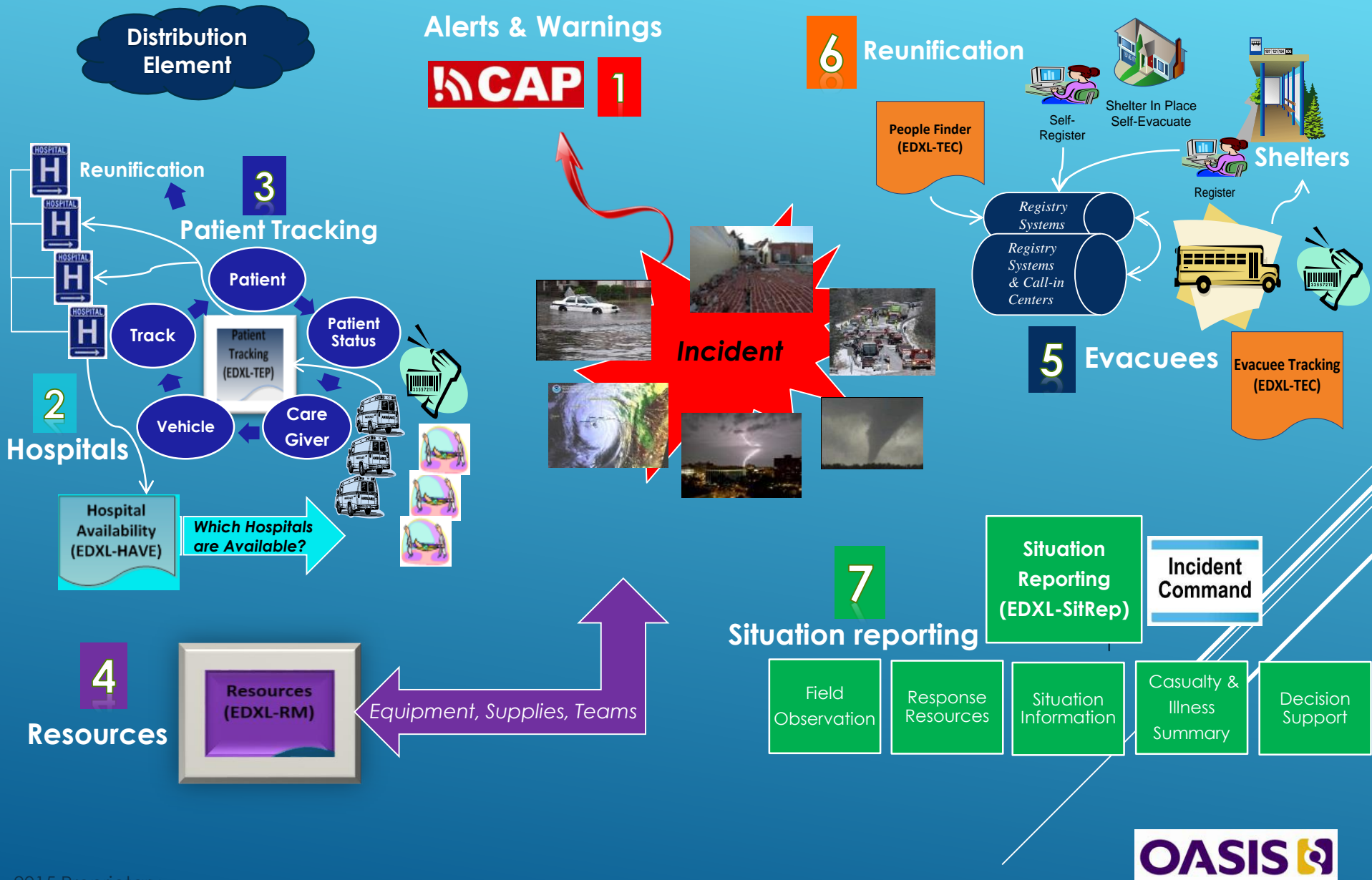
# Emergency Data Exchange Language (EDXL)

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



# EDXL family of Emergency Management Standards



# Specification Updates

- **EDXL Sit-Rep**

- Committee Specification Situation Reporting <http://docs.oasis-open.org/emergency/edxl-sitrep/v1.0/cs02/edxl-sitrep-v1.0-cs02.zip>

- **EDXL TEP 1.1**

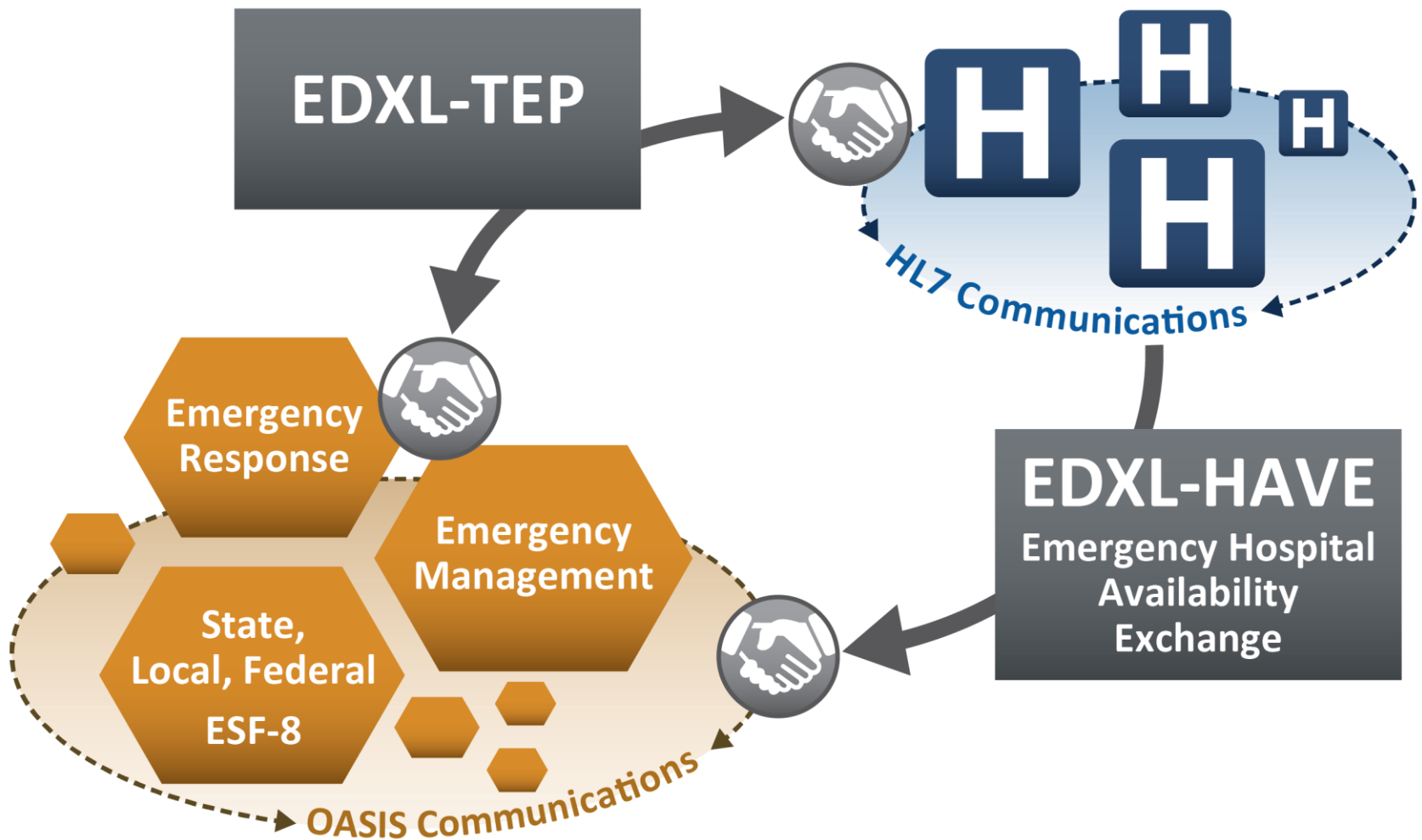
- OASIS-HL7 Bi-directional Transformation Specification (OASIS Committee Note; HL7 Implementation Guide)

- **EDXL HAVE 2.0**

- Public Comment Period – now through October 11, 2017  
<https://www.oasis-open.org/news/announcements/invitation-to-comment-on-emergency-data-exchange-language-edxl-hospital-availabil>
- Joint release with HL7 planned for early 2018

# TEP Context

## *Continuum of Patient Movement*



# EDXL-TEP 1.1/HL7 2.7.1 ADT Transform

- **Joint effort between OASIS Emergency Management Technical Committee (EM-TC) and HL7 Public Health and Emergency Response (PHER) Working Group**
  - Data transform between OASIS EDXL-TEP 1.1 and HL7 2.7.1 Messaging
- **Bridges the electronic gap between the emergency management services and the hospital communities**
  - Bidirectional data exchange
  - Eliminates need to enter patient information received from EMS upon arrival
- **Facilitates ER preparation**
  - Tracks incoming patients from emergency services in the field
- **Used in day-to-day transfers, Mass Casualty Events (MCEs), and hospital evacuation**

# Questions



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# References

- OASIS Home Page: [www.OASIS-open.org](http://www.OASIS-open.org)
- Emergency Management Technical Committee Home Page: [https://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=emergency](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](https://vimeo.com/234306686?utm_source=email&utm_medium=vimeo-cliptranscode-201504&utm_campaign=29220)
- EDXL for everyday use: [https://www.oasis-open.org/committees/document.php?document\\_id=54960&wg\\_abbrev=emergency-rim](https://www.oasis-open.org/committees/document.php?document_id=54960&wg_abbrev=emergency-rim)
- 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/>
- EDXL Workshop Details: <https://www.oasis-open.org/events/edxl-workshop2017>