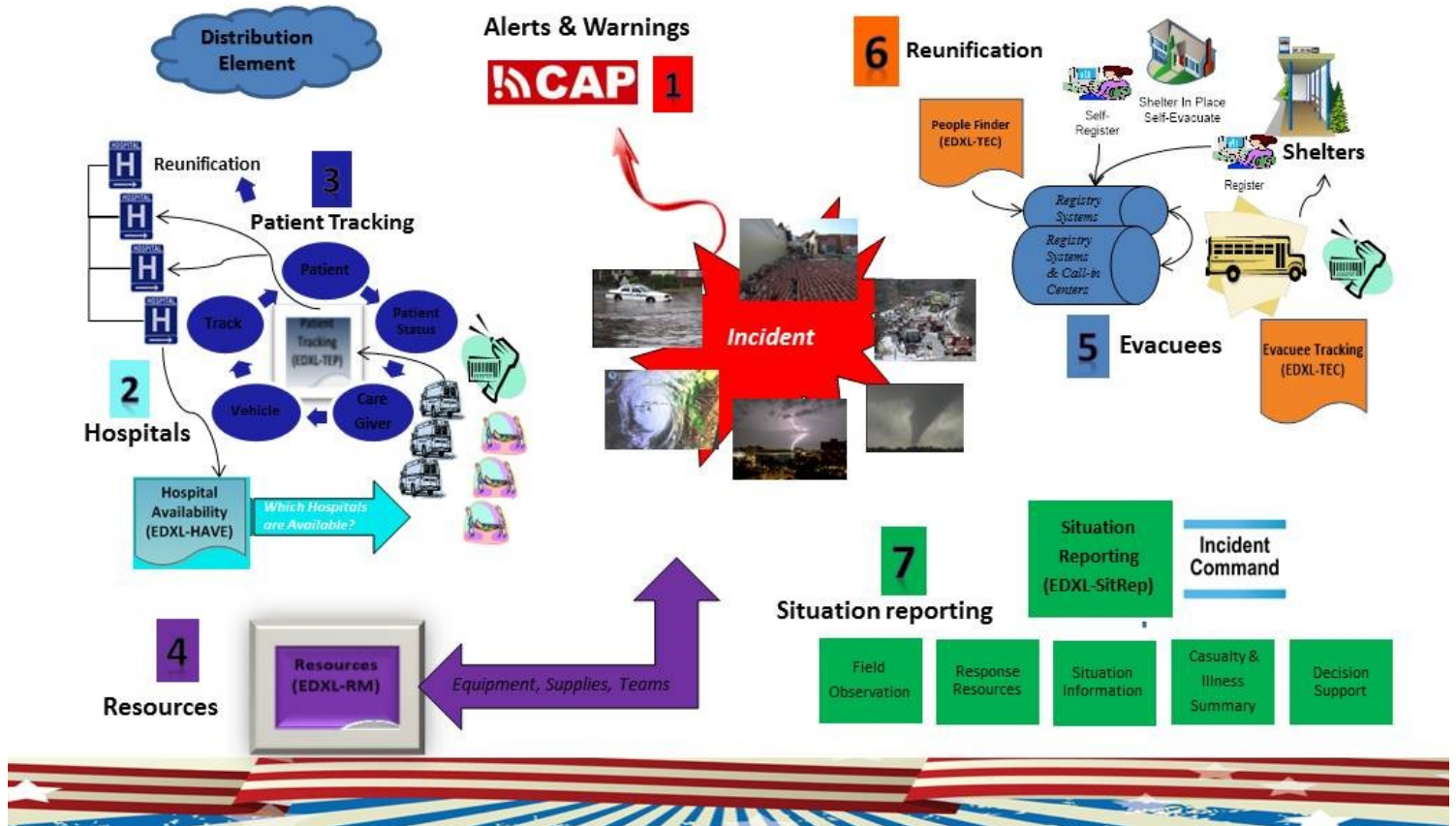


OASIS Emergency Interoperability

Advancing open standards for emergency interoperability and communications

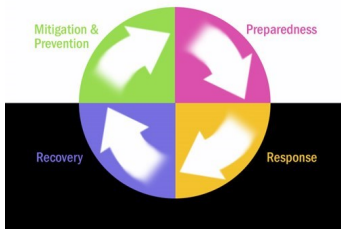
Standardized messages are critical for coordinating emergency response. OASIS, a not-for-profit international consortium provides the Emergency Data Exchange Language (EDXL), a suite of open standards that make it possible for information to be shared among emergency response and management services providers across local, state, provincial, tribal, national, international and non-governmental organizations. The mission of the OASIS Emergency Management Technical Committee and the Emergency Interoperability Member Section is to accelerate the development, adoption, application, and implementation of EDXL for emergency data interoperability and communications standards and related work.

OASIS EMERGENCY DATA EXCHANGE LANGUAGE (EDXL) STANDARDS FOR EXCHANGE OF EMERGENCY INFORMATION



OASIS is an international consortium that brings companies, governments, academia, and individuals together to solve communications challenges.





Developing **Emergency Communications Standards** through the full standards lifecycle...from requirements capture to standard creation & adoption services...in alignment with market needs.

EDXL-CAP

The **EDXL-Common Alerting Protocol (CAP)** allows consistent warning messages to be disseminated simultaneously over many different systems, including wireless emergency alerts for urgent last-second life-saving communications.. This greatly increases warning effectiveness while simplifying the notification task. CAP addresses the challenges posed by the diversity of communication channels and independently developed warning systems. It serves as a universal adaptor for alert messages, defining one message format with features essential for the broad range of alert systems and sensor technologies. The CAP OASIS

EDXL-DE

The **EDXL- Distribution Element (DE)** describes a standard framework for packaging and delivering emergency data messages. The DE may be thought of as a container or envelope that carries a payload of formatted message sets (such as Alerts or Resource Messages) and facilitates their delivery using key routing data such as distribution type, recipient role, clearly specified geographical area, geo-political addressing, incident, and sender/recipient IDs.

EDXL-HAVE

The **EDXL-Hospital Availability Exchange (HAVE)** allows a hospital's status, staffing, services, and resources (e.g. bed capacity, emergency department status, available service coverage) to be communicated. With HAVE, emergency dispatchers can make sound logistics and triage decisions on where to route patients. Although some hospitals currently use proprietary technology to publish this kind of information, access to their data is limited to parties that use the same systems. Existing systems can transform to/from HAVE to enable interoperable data exchange. As an open standard, HAVE enables easier interfacing across many different systems. EDXL-HAVE version 2 is due to be released jointly with Health LEVEL 7 in the first quarter of 2018.

EDXL-RM

The **EDXL- Resource Messaging (RM)** describes a set of pre defined standard messages for coordinating requests for emergency equipment, supplies, and people. RM specifies a document format that allows communication about requests for obtaining resources, responses to these requests by potential suppliers, and information on the status, scheduling and location of resources.

EDXL-SitRep

The **EDXL-Situation Reporting (SitRep)** provides the ability to report on incidents ranging from brief observations of limited locations to full scale planning for response to large disasters. SitRep is designed to support all NIMS incident command system forms. It allows emergency managers and incident commanders to use a set of pre-configured report types or create what they need from a set of common report components. SitRep enables the exchange of clear information for accurate, well-informed decisions.

EDXL-TEP

The **EDXL-Tracking of Emergency Patients (TEP)** enables the exchange of patient information from initial encounter to and from a hospital facility. TEP supports data tracking across the emergency care continuum. TEP supports hospital evacuations, day-to-day patient transfers, and mass casualty incidents providing near real-time information to incident responders, emergency management, coordinating organizations, and hospital facilities in the chain of care and transport. TEP also enables electronic receipt of data by hospitals prior to patient arrival. TEP 1.1 has been mapped to HL7 in hospital messages. In 2016 OASIS and HL7 released a bi-directional transformation specification between these messages. This bridges the gap between first responders and health care systems.

If you are a software provider, implementer, or custom business software designer, you are invited to be part OASIS.

As a member, you:

- ✓ influence the development of EDXL as international standards
- ✓ ensure your requirements and use cases are taken into account
- ✓ engage with domain experts
- ✓ promote demand for compliant products
- ✓ form useful alliances for successful implementation and ongoing support



Contact join@oasis-open.org for details.

www.oasis-emergency.org