



# EDXL-RM 1.0 Committee Draft 01

Emergency Data eXchange Language Resource Messaging 1.0

## *Overview*



# Emergency Data eXchange Language (EDXL)

Goal: facilitate emergency information sharing and data exchange across local, state, tribal, national and non-governmental organizations *regardless of infrastructure technologies used*

# Emergency Data eXchange Language (EDXL)

## Family of OASIS emergency message standards

- Common Alerting Protocol (CAP 1.1)
- EDXL Distribution Element (EDXL-DE 1.0)
- EDXL Hospital Availability Exchange (EDXL-HAVE 1.0 Public Review Draft 01)
- EDXL Resource Messaging (EDXL-RM 1.0 Committee Draft 01)

# EDXL Resource Messaging (EDXL-RM)

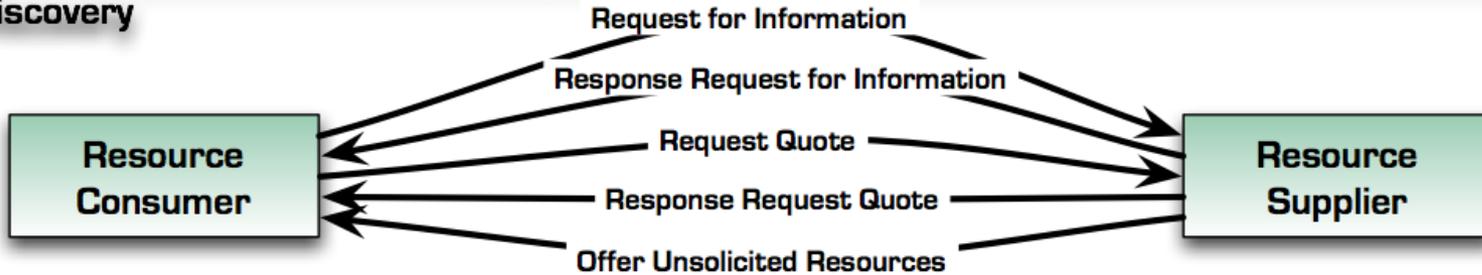
- Purpose is to provide a set of standard XML formats for emergency resource messages
- Resource Messages are designed as payloads of EDXL-DE-routed messages
  - Intended to expedite all activities associated with resources needed to respond and adapt to emergency incidents
- Does not define a resource management architecture
  - Intended to standardize information sharing within a resource management architecture

# EDXL-RM Background

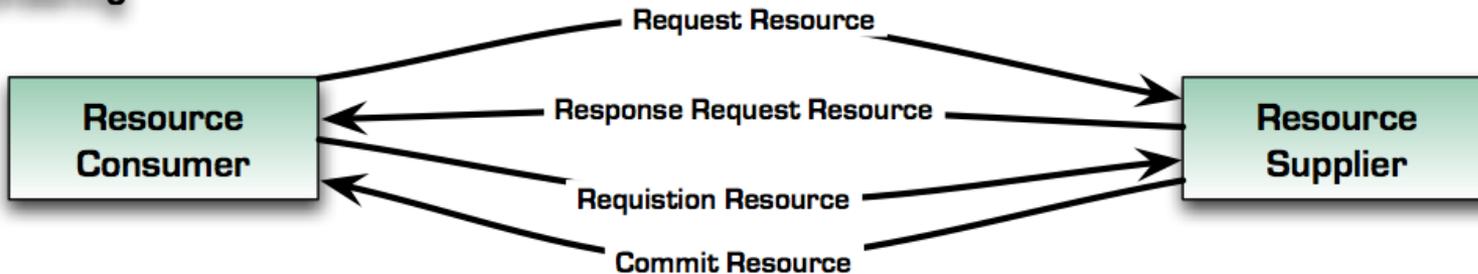
- DHS Disaster Management (DM) Program Sponsors a Practitioner Steering Group (PSG)
  - Representatives of major emergency response associations
  - Set priorities and provide recommendations regarding messaging standards
- Emergency Interoperability Consortium (EIC) shares the same goals for interoperable emergency communications
- Standards Working Group (SWG)
  - Joins / partners Practitioner Steering Group (PSG) with the Emergency Interoperability Consortium (EIC)
  - Compiled resource messaging requirements through an initial candidate specification

# Resource Management Phases

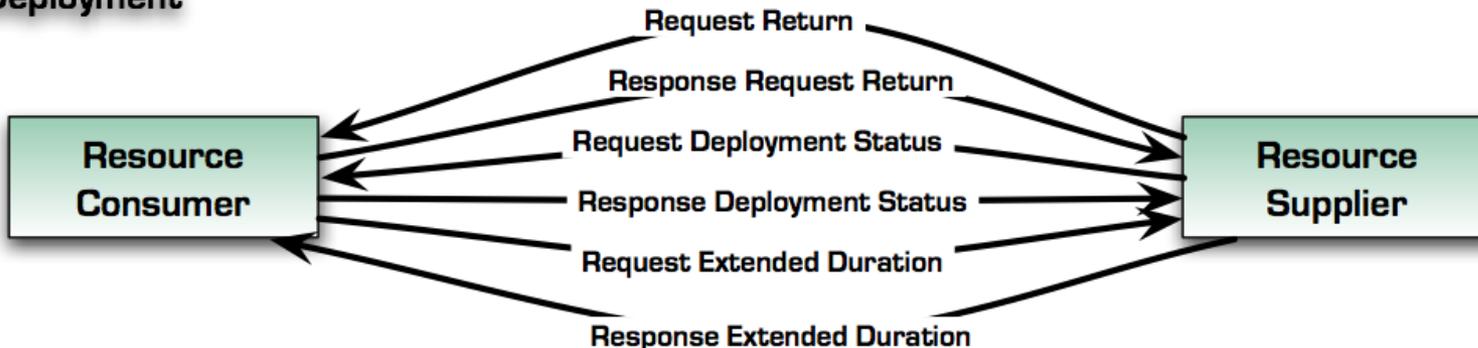
## Discovery



## Ordering



## Deployment



# Message Types

- Request Resource
  - Message used to request needed resources from one or many recipients, possibly spawning multiple responses
  - Originated by resource consumer
- Response to Request Resource
  - Message used as the response to a “Request Resource”
  - Allows sender to list resource(s) which they feel represent suitable match with a resource request
  - Originated by resource supplier

# Message Types - Continued

- Requisition Resource
  - Message used to “order” specific resource, or to confirm specific resource to be “ordered” relating to one or more responses to a “Request Resource”
  - Originated by resource consumer
  
- Commit Resource
  - Message used to agree or commit specific resource in response to a Resource Request or Requisition, or to a “Request Return”
  - Originated by resource supplier

# Message Types - Continued

- Request Information (RFI)
  - Message used to ask resource questions or provide general description of situation and general resources needs
  - Originated by resource consumer
- Response to Request Information
  - Message used as the response to an RFI message providing general information or to list resource that may meet the specified need
  - Originated by resource supplier

# Message Types - Continued

- Offer Unsolicited Resource
  - Message used to offer available resources (that have not been requested) to assist with an emergency response
  - Originated by resource supplier
- Release Resource
  - Message used at the incident to “release” (demobilize) resource back to its original Supplier
  - Originated by resource consumer

# Message Types - Continued

- Request Return
  - Message used to request release (demobilize) of resources back to its original point of assignment or to another location / assignment (i.e., "I want my stuff back")
  - Originated by resource supplier
- Response to Request Return
  - Message used as the response to a "Request Return" indicating whether the resource may be released, with relevant time-line information
  - Originated by resource consumer

# Message Types - Continued

- Request Quote
  - Message used to request a price quote from a seller or supplier
  - Originated by resource consumer
- Response to Request Quote
  - Message used as the response to a “Request Quote”
  - Allows sender to list resource(s) which they feel represent suitable match with the request, with pricing information
  - Originated by resource supplier

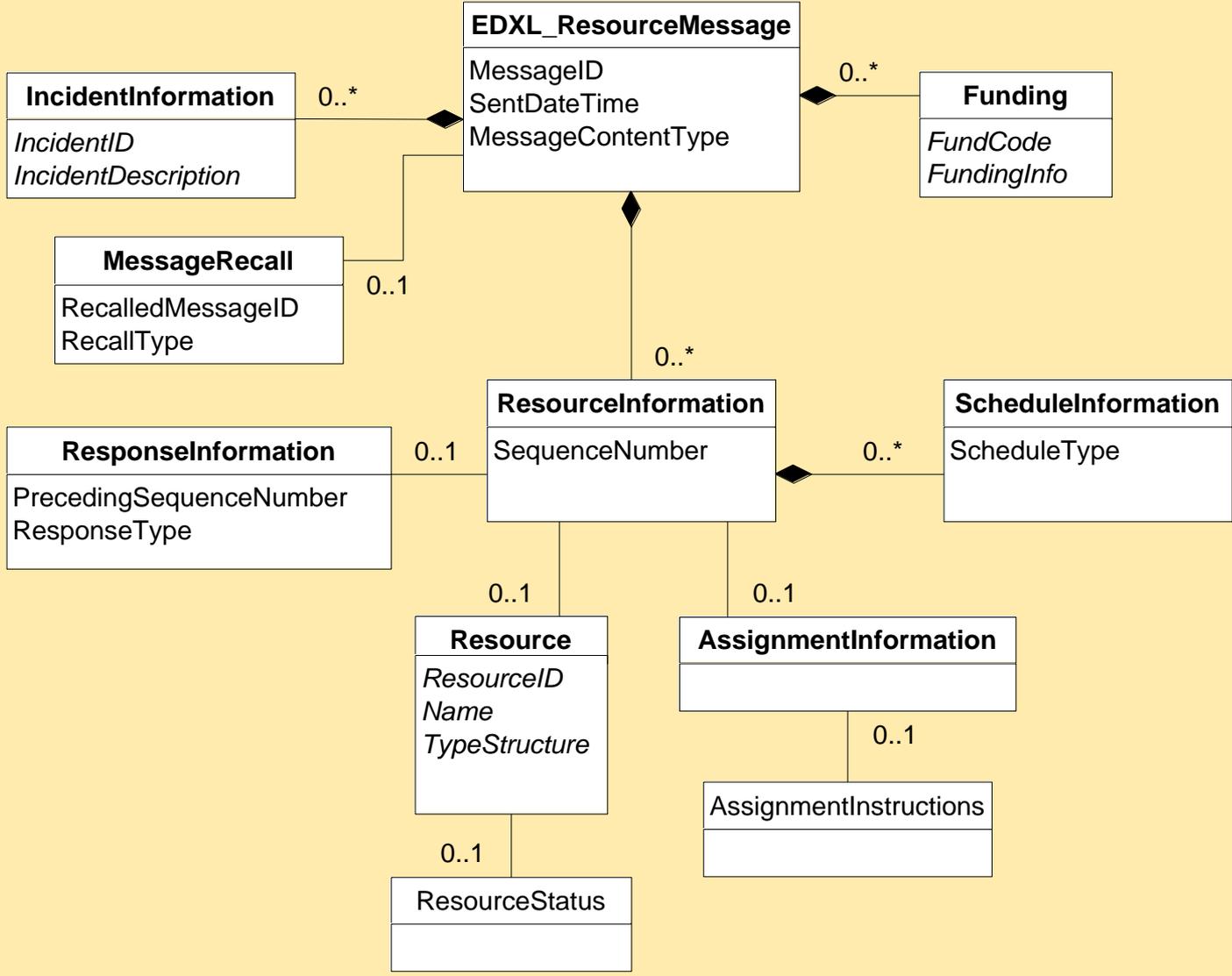
# Message Types - Continued

- Request Resource Deployment Status
  - Message used to request current “status” of resource
  - May be originated by either a resource consumer or a resource supplier
- Report Resource Deployment Status
  - Message used to report on the current “status” of any resource
  - May be originated by either a resource consumer or a resource supplier

# Message Types - Continued

- Request Extended Deployment Duration
  - A request initiated by the requester / receiver of resource, “I want to extend how long I need to keep this resource”
  - Originated by resource consumer
- Response to Request Extended Deployment Duration
  - Message used as the response to “Request Extended Deployment Duration”
  - Originated by resource supplier

# Element Reference Model



# EDXL-RM Structure

- **Resource Message**
  - The complete resource messaging EDXL-DE payload
- **Resource Information**
  - Information related to a particular resource entity or a class of resources
- **Resource**
  - The actual referent of the message, which can be equipment, material substances such as water, people with certain skills, etc
- **Schedule Information**
  - Temporal information such as when requested, when needed, when arrived, etc., associated with the resource(s)
- **Assignment Information**
  - Instructions relative to the disposition of resource(s) usually related to geospatial and jurisdictional information

# EDXL-RM XML Schemas

- Resource Messaging Common Types
  - XML data types (simple and complex)
- Resource Messaging Reference Schema
  - Baseline schema for all message types
- Message Schemas
  - Specialized schemas for each EDXL-RM message type

# Questions?

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