

# ***Emergency Data Exchange Language - Situation Reporting (EDXL-SitReps)***

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## ***EDXL – Overview***

### ● **Process**

- *Practitioner driven*
- *Vendor reviewed*
- *Internationally recognized*
- *Free*
- *Open*

### ● **Data and Messaging**

- *Cross geographical messaging*
- *Cross discipline messaging*
- *Emergency focus*

# ***EDXL – Data Messaging Standards***

- **Current EDXL Standards**
  - *EDXL-Common Alerting Protocol (CAP)*
  - *EDXL-Distribution Element (DE)*
  - *EDXL-Hospital Availability eXchange (HAVE)*
  - *EDXL-Resource Messaging (RM)*
- **EDXL Standards Under Development**
  - *EDXL-Situation Reporting (Sit-Rep)*
  - *EDXL-Tracking of Emergency Patients (TEP)*
- **EDXL-Reference Information Model (RIM)**
  - Common Types
  - CIQ Profile
  - GML Simple Features Profile

## ***EDXL – SitReps Core Contributors***

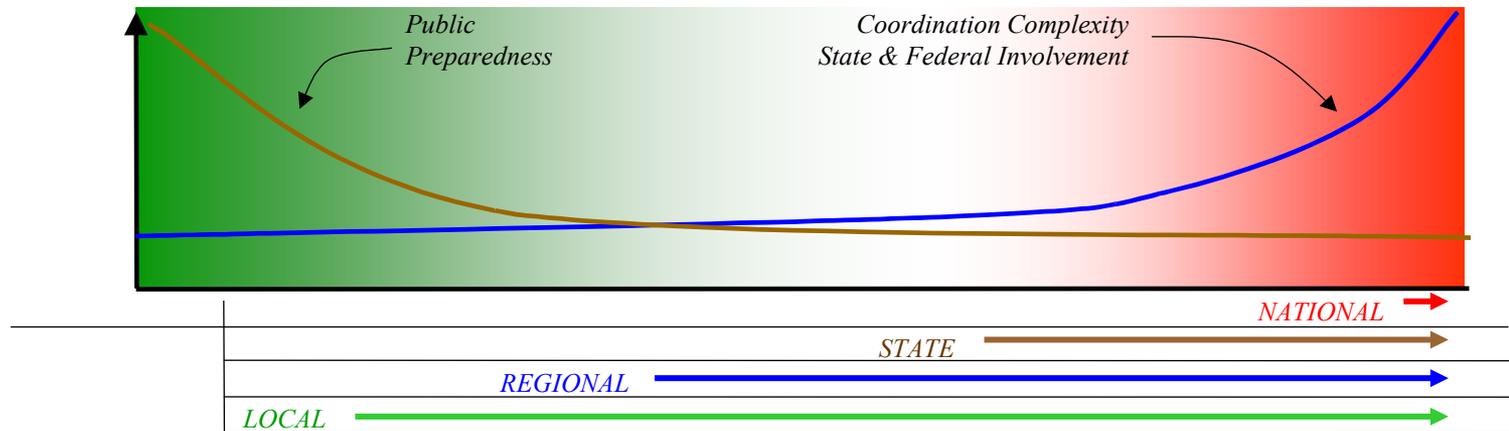
The following OASIS members have formed the core contributors of the EDXL-SitRep Sub-Committee and Participated in two face-to-face Sessions

- ❑ Rex Brooks
- ❑ Tom Ferrentino
- ❑ Tim Grapes
- ❑ Gary Ham
- ❑ Werner Joerg
- ❑ Don McGarry
- ❑ Rob Torchon

## ***EDXL – SitReps Status & Plans***

- **June 2009–Sept 2010:** Sub-Committee Development in the OASIS EM-TC plus Evaluation of new NIMS ICS forms
- **February 2010:** OASIS Sub-committee face to face sessions in Philadelphia during TCIP – Conceptual Message Structure Developed
- **October 2010:** OASIS Sub-committee face to face sessions in Arlington, VA (IEM) – 1<sup>st</sup> cut Model, Data Dictionary, XML Schema.
- **August 2011:** Completing last re-usable component (CIQ)
  - gmlSF and common types completed July 2011.
- **September 2011:** Planned OASIS Committee Draft SitRep 1.0 delivery for vote by the OASIS EM-TC. 45-day public comment follows.

## “Situation Reporting” Incident Scale and Complexity



As emergencies “spin up” there is a need for more information and multi-agency coordination

To effectively respond to incidents, first responders and decision-makers need ...

**Data** – Information about the incident

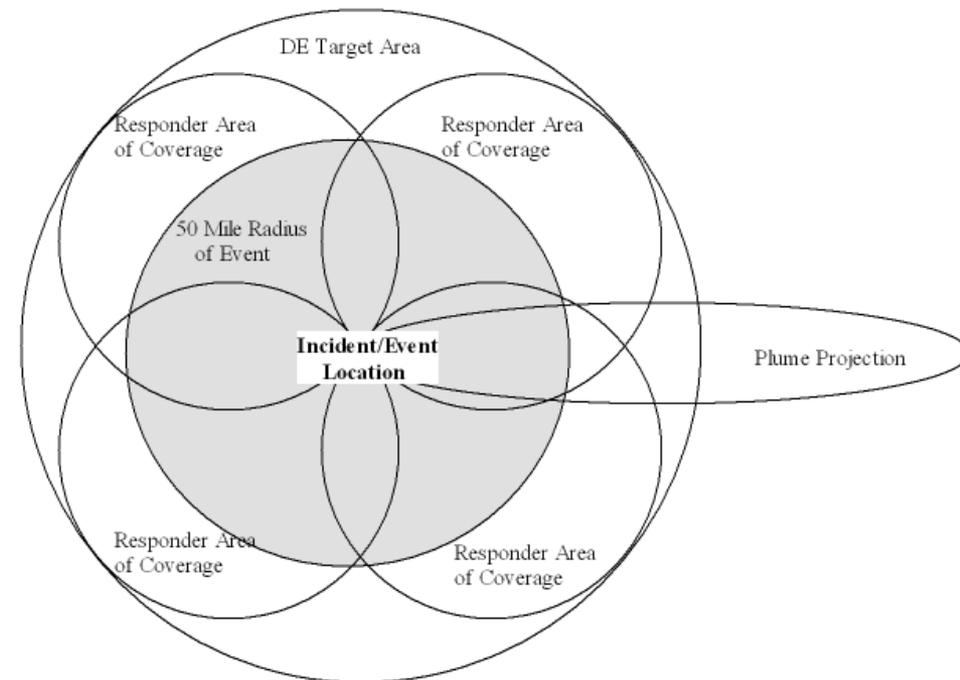
**Interoperability** – A way to share knowledge

Courtesy  
John  
Contestabile

## ***Improve Emergency Response & Management through better information sharing in a more timely fashion***

### Coordination & Management:

- Within Incident (primarily voice)
- Incident and outside entities
- Between outside entities
- To the Public
- Up the Chain of Command



## ***SITUATION or INCIDENT...***

Occurrences of any scale (collection of events, observations and actions) that require some form of Emergency Resource Mitigation, Planning, Preparation, Response and/or Recovery.

## ***SITUATION REPORTING...***

- ✓ Information gathered from a variety of sources that, when communicated to managers and decision makers, can **form the basis for incident management decision making**
- ✓ Share standardized information sets across disparate systems to help **understand the current situation, the operational picture, and current response and resources**
- ✓ Support **all hazards**; **Any scale** (local, day to day and Disaster)
- ✓ Information sharing between **local, regional, state and national** organizations, up and down the chain and laterally
- ✓ Help **manage incidents and ease transition of teams** as incidents escalate and de-escalate
- ✓ Standard **communication of changing command** structures
- ✓ Consume, present and use information in your **native system or software product**
- ✓ Enable creation or population of **ICS** or other Incident Management forms

The EDXL-SitRep specification / standard will contain:

- Textual descriptions and explanations
- Element Reference Models
- XML Schema
- XML Example Schema
  - Required elements only
  - Full model
- Example mapping of the SitRep structure to the ICS-209 form, and an example xslt representation of the populated form.

## Primary Existing ICS Forms Supported

ICS-201 - "Incident Briefing"

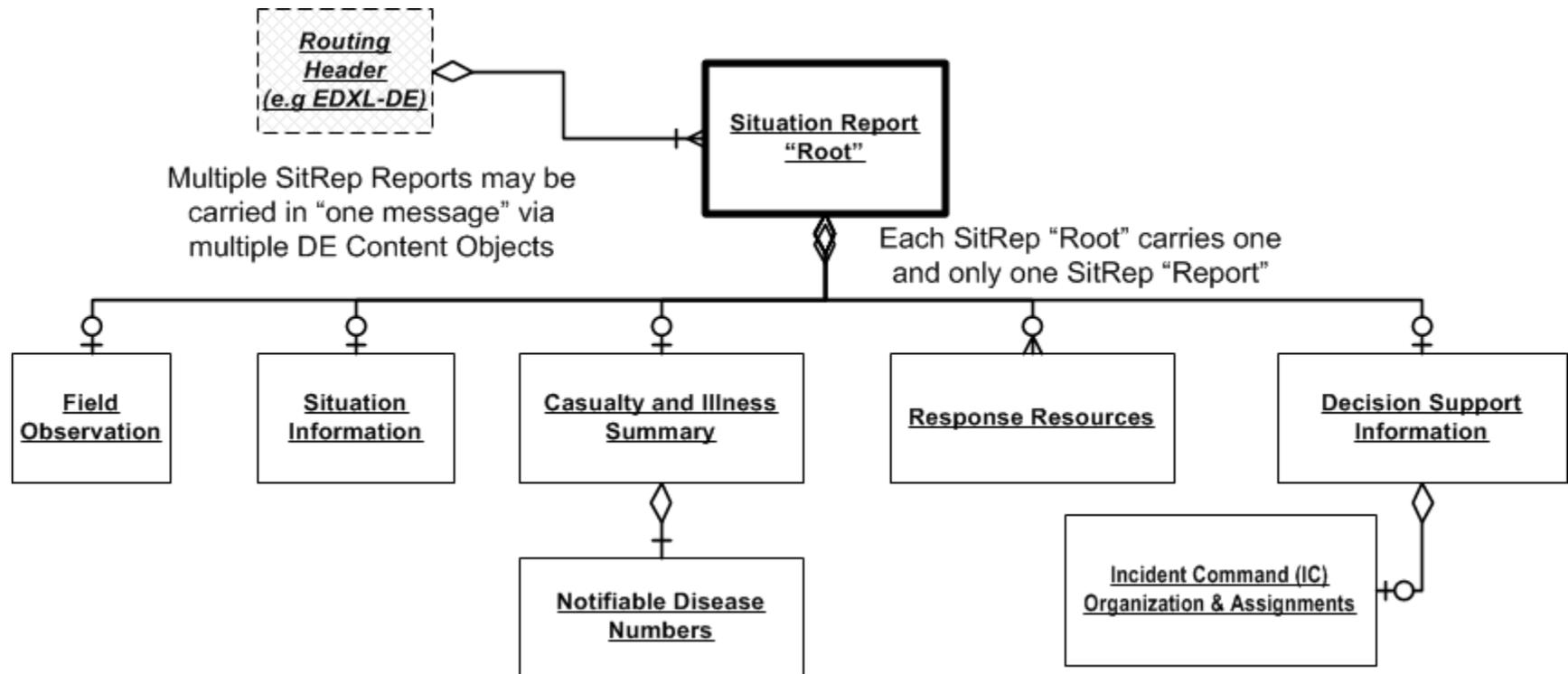
ICS-203 – "Organizational Assignment List"

(with "incident map", sometimes replaces ICS-201)

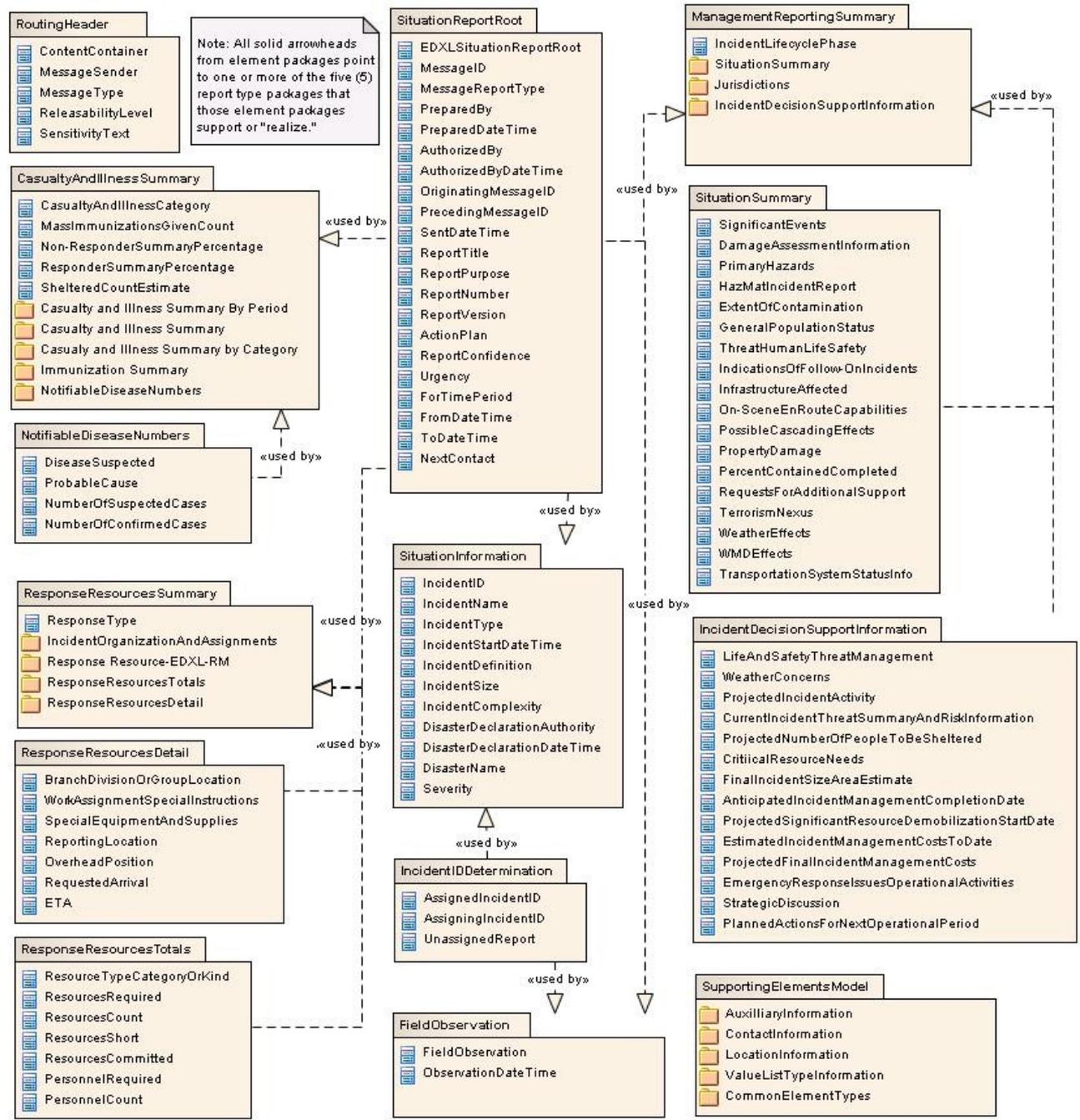
ICS-207 – "Incident Organizational Chart"

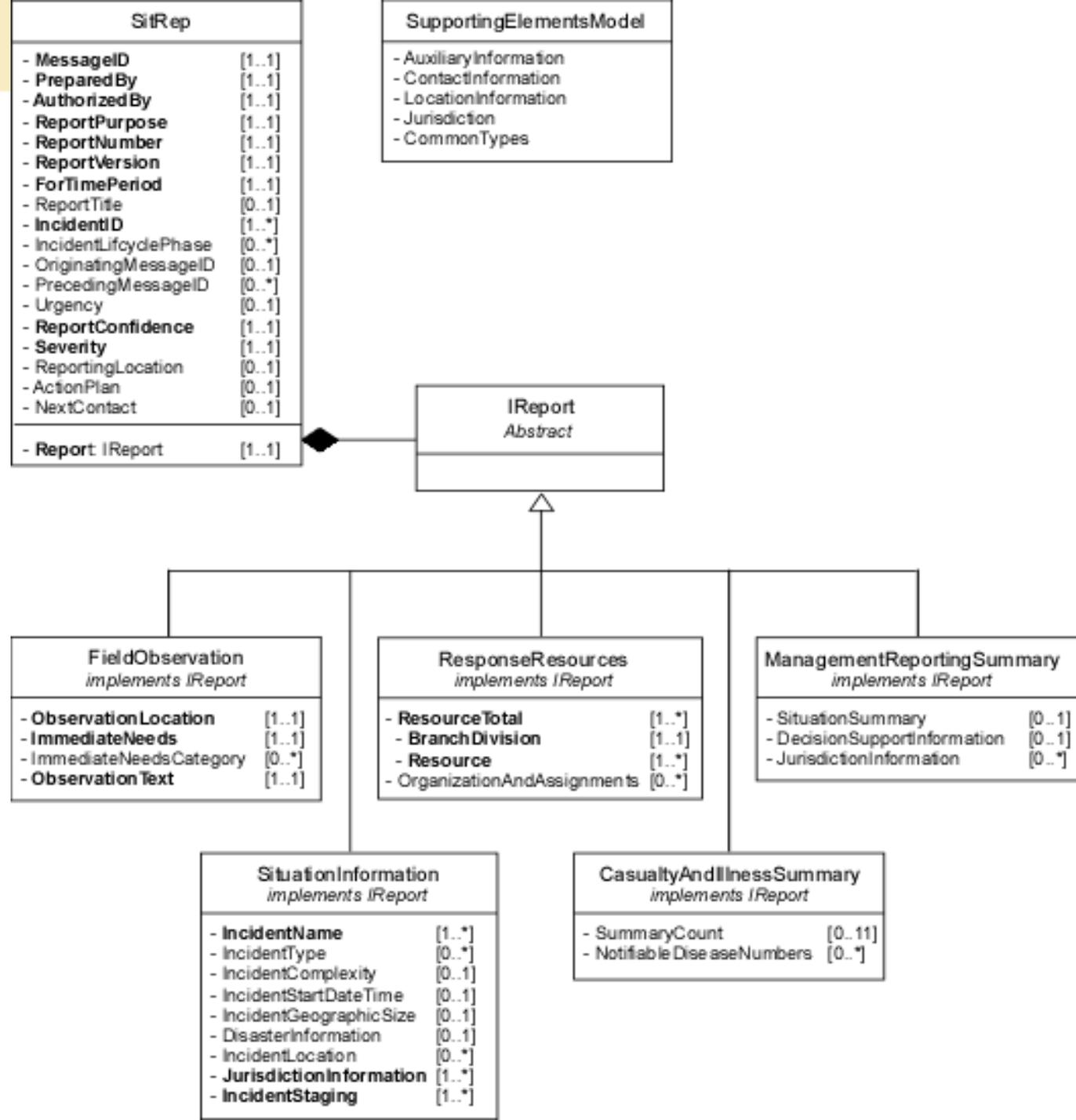
ICS-209 - "Incident Status Summary Report"

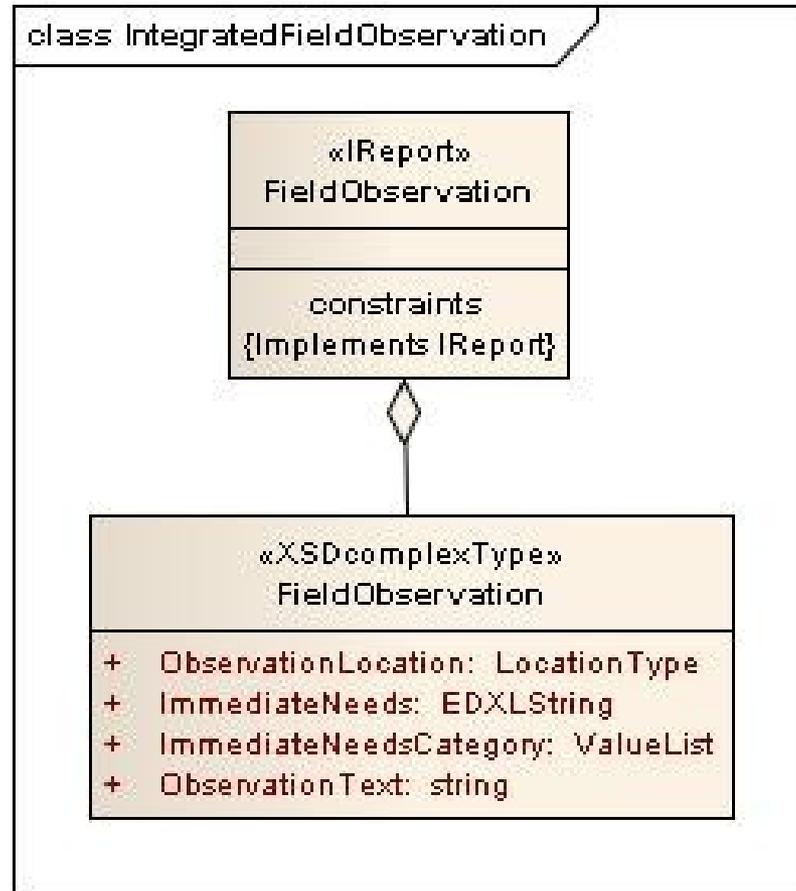
ICS-215 - "Operational Planning Worksheet"

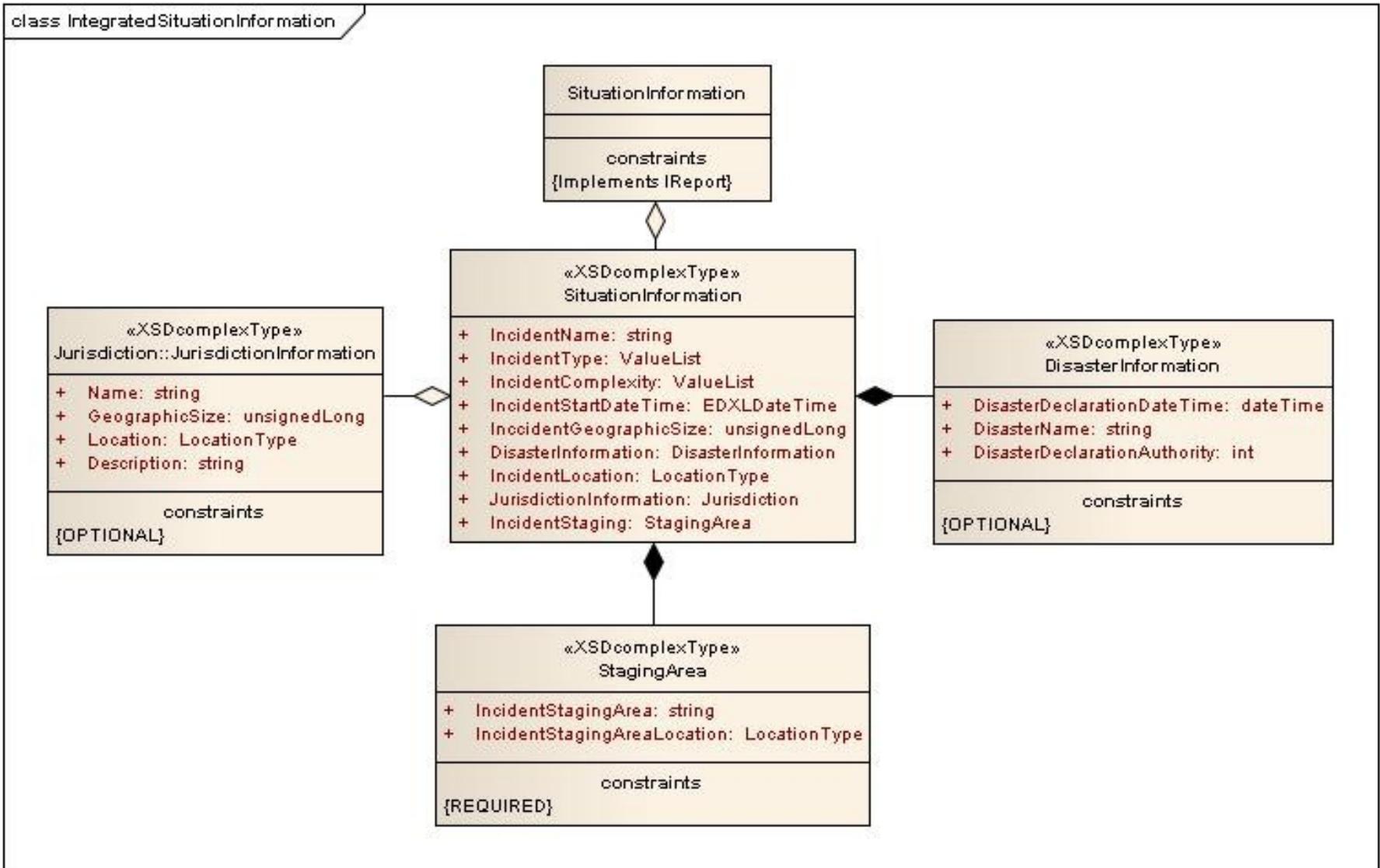


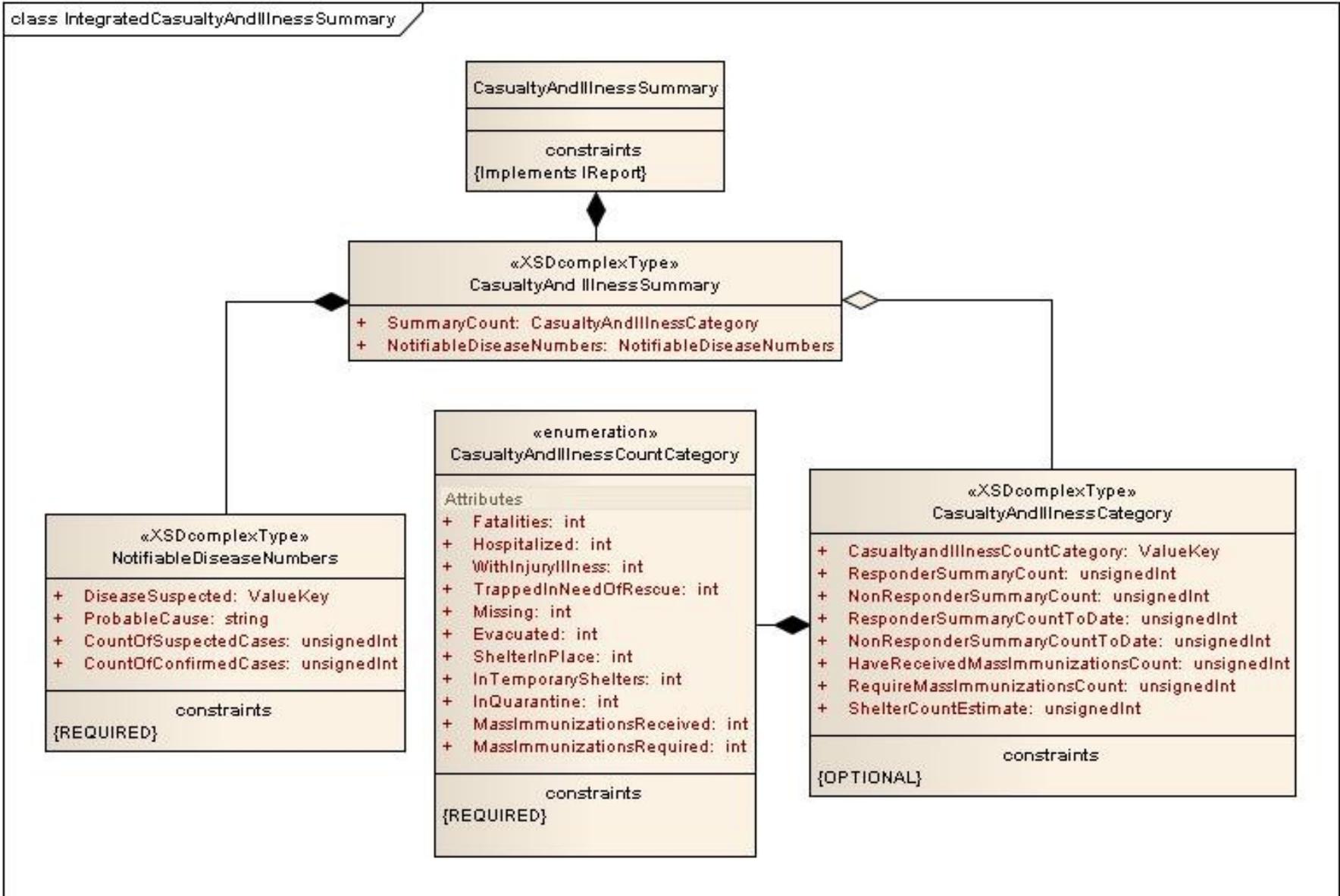
Note: All solid arrowheads from element packages point to one or more of the five (5) report type packages that those element packages support or "realize."



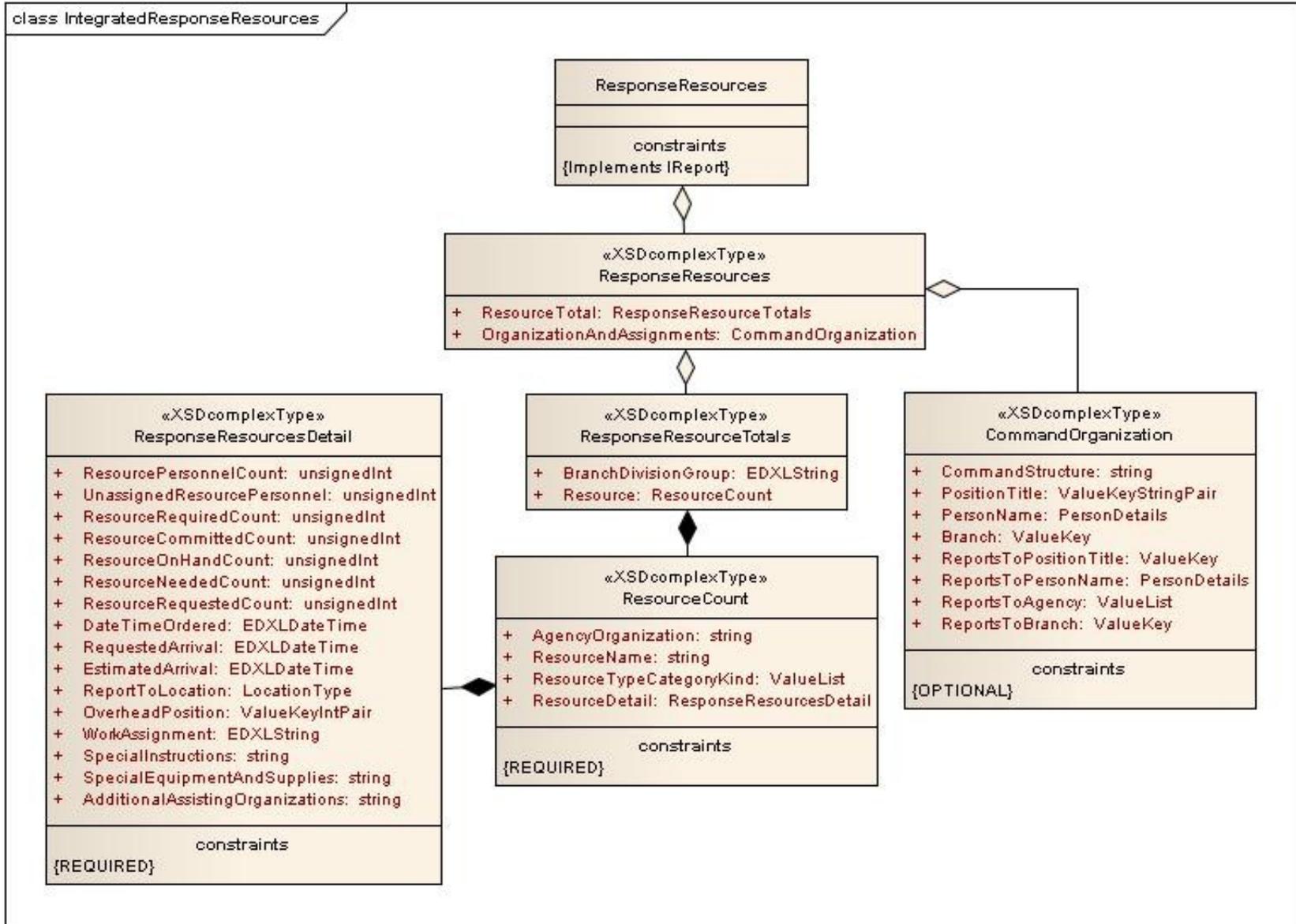


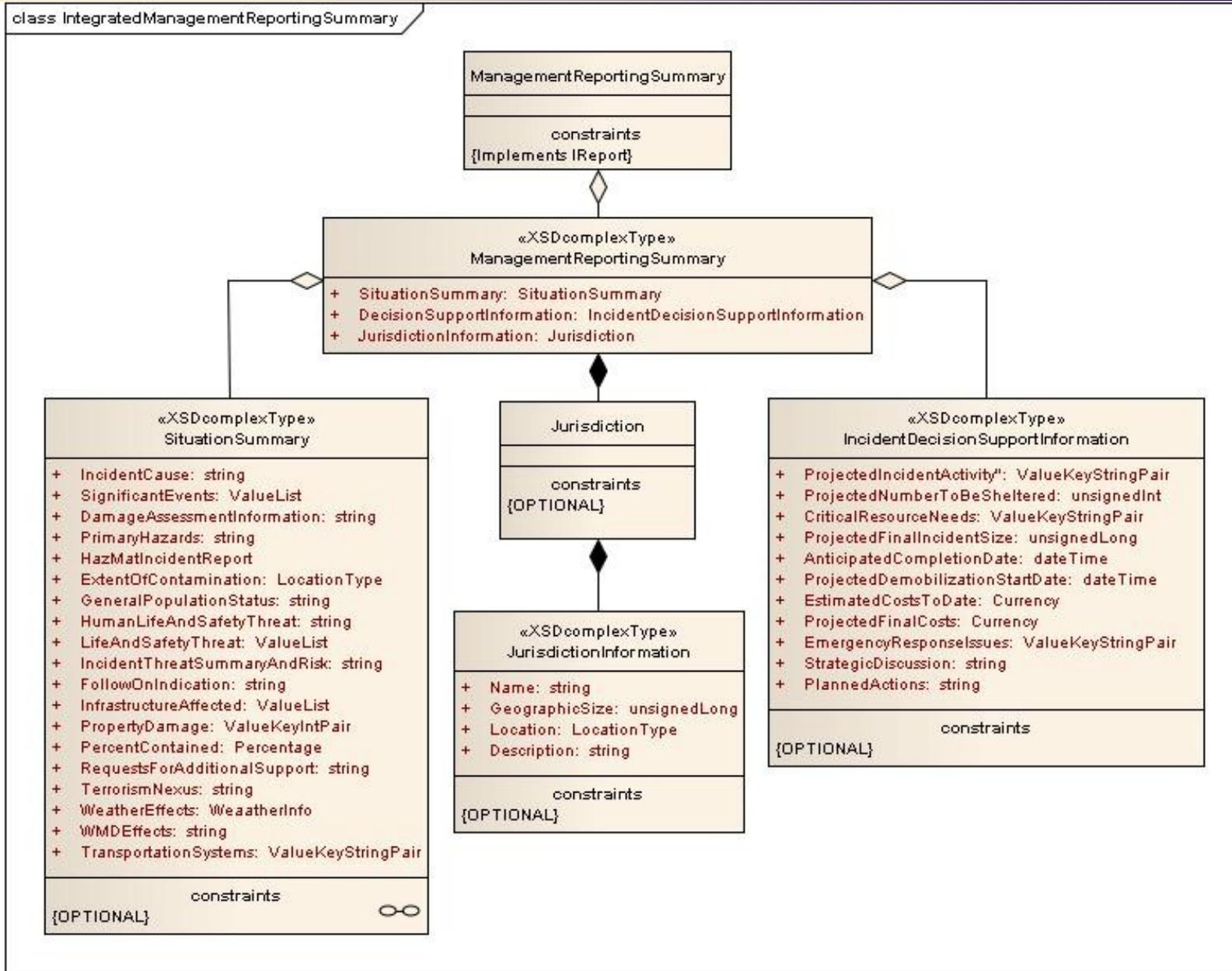






class IntegratedResponseResources





The latest NIMS ICS-209 form is mapped to each element in the EDXL-SitRep message structure, to automatically create or update an ICS-209 form using SitRep information received by others

*1. Incident Name:	IncidentName
2. Incident Number:	IncidentID
*3. Report Version	ReportVersion
*4. Incident Commander(s) & Agency or Organization:	CommandOrganizationType
5. Incident Management Organization:	CommandOrganizationType
*6. Incident Start Date/Time:	IncidentStartDateTime
7. Current Incident Size or Area Involved	IncidentGeoGraphicSize
8. Percent (%) Contained or Completed	PercentContained/Completed
*9. Incident Definition	IncidentType
10. Incident Complexity Level:	IncidentComplexity
<b>Approval &amp; Routing Information</b>	
*11. For Time Period:	
From Date/Time:	FromDateTime
To Date/Time:	ToDateTime
*12. Prepared By:	
Name	xpil:PersonDetailsType
ICS Position:	PreparedBy
Date/Time Prepared:	PreparedDateTime
13. Date/Time Submitted:	
14. Approved By:	xpil:PersonDetailsType
Name	AuthorizedBy
ICS Position:	AuthorizedBy
Date/Time Prepared:	AuthorizedDateTime

Windows Internet Explorer browser window showing the Incident Status Summary (ICS-209) form.

### Incident Status Summary (ICS-209)

<b>1: Date:</b> 2011-06-16	<b>2: Time:</b> 03:50	<b>3: Initial Update Final</b>	<b>4: Incident Number:</b> 6f301ee1-2e28-4d1c-8b6a-9a5ceb6587ae	<b>5: Incident Name:</b> Something awful has happened	
<b>6: Incident Kind:</b> Snowstorm	<b>7: Start Date/Time:</b> 2011-06-16/03:50	<b>8: Cause:</b> fire	<b>9: Incident Commander:</b> Gustafson	<b>10: IMT Type:</b>	<b>11: State-Unit:</b>
<b>12: County:</b>	<b>13: Latitude and Longitude</b> Lat: 38.4 Long: -104.5		<b>14: Short Location Description: (in reference to nearest town)</b> Downtown EOC		

### Current Situation

<b>15: Size/Area Involved:</b> 500	<b>16: % Contained or MMA:</b> 50%	<b>17: Expected Containment Time:</b>	<b>18: Line To Build (chains):</b>	<b>19 Costs to Date:</b> 50 DOL	<b>20: Declared Controlled Date: Time:</b>	
<b>21: Injuries this Reporting Period:</b> 10	<b>22: Injuries To Date:</b> 110	<b>23: Fatalities:</b> 8	<b>25: Structure Information</b>			
<b>26: Threat to Human Life/Safety:</b> Evacuation(s) in progress _____ No Evacuation(s) imminent _____ Potential future threat _____ No likely threat _____			<b>Type of Structure</b>	<b># Threatened</b>	<b># Damaged</b>	<b># Destroyed</b>
			Residence	41	4	5
			Commerical	13	33	36
			Outbuilding	13	31	36
<b>27: Communities/Critical Infrastructure Threatened (in 12, 24, 48 and 72 hour time frames):</b>						
12 hours:						
24 hours:						
48 hours:						
72 hours:						
<b>28: Critical Resource Needs (kind &amp; amount, in priority order)</b>						

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Google

Search AutoFill More >> Sign In

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**28: Critical Resource Needs (kind & amount, in priority order)**

1. Water  
2. Food  
3. Doctors

**29: Resources threatened (kind(s) and value/significance):**

**30: Current Weather Conditions**  
Very cold

**31: Resource benefits/objectives (for prescribed/wildland fire use only)**

**32: Fuels/Materials Involved: Enter the predominant fuel from the Thirteen Fuel Models for Fire Behavior in the adjacent box to the right. ||**

List additional fuels and/or materials involved in the block below:

**33: Today's observed fire behavior (leave blank for non-fire events):**

**34: Significant events today (closures, evacuations, significant progress made, etc)**  
Snowpocalypse, Armageddon,

**Outlook**

<b>35: Estimated Control Date and Time:</b>	<b>36: Projected Final Size:</b> 30	<b>37: Estimated Final Cost:</b> 10000 DOL	<b>38: Tommorow's Forecasted Weather</b> Very cold
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**39: Actions planned for next operational period:**  
Put an end to world hunger and bring peace to the world.

**40: Projected incident movement/spread during next operational period:**

**41: For fire incidents, describe resistance to control in terms of:**

1: Growth Potential-

2: Difficulty of Terrain-

**42: How likely is it that containment/control targets will be met, given the current resources and suppression/control strategy?**

**43: Projected demobilization start date:**

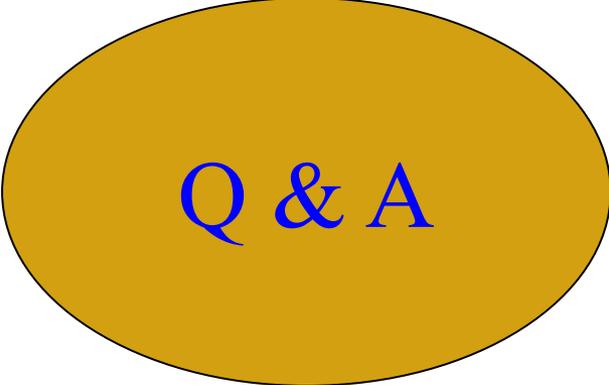
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## ***Outstanding***

- August 2011
  - Complete and vote for CIQ
  - Complete ICS 209 ICS example mapping and form
  - Complete XML and Example Revisions
  - Complete Committee Draft 1.0 September 2011
- September 2011
  - Submit SitRep 1.0 CD for vote by the OASIS EM-TC.
  - Engage 45-day public comment.

# ***QUESTIONS?***



Q & A