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# Emergency Data Exchange Language Resource Messaging (EDXL-RM) 1.0

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urn:oasis:names:tc:emergency:EDXL:RM:1.0:CommitResource  
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urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestInformation  
urn:oasis:names:tc:emergency:EDXL:RM:1.0:OfferUnsolicitedResource  
urn:oasis:names:tc:emergency:EDXL:RM:1.0:ReleaseResource  
urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestReturn  
urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestReturn  
urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestQuote  
urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestQuote  
urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestResourceDeploymentStatus  
urn:oasis:names:tc:emergency:EDXL:RM:1.0:ReportResourceDeploymentStatus  
urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestExtendedDeploymentDuration  
urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestExtendedDeploymentDuration

**Abstract:**

This XML-based Emergency Data Exchange Language (EDXL) Resource Messaging specification describes a suite of standard messages for data sharing among emergency and other information systems that deal in requesting and providing emergency equipment, supplies, people and teams. This format may be used over any data transmission system, including but not limited to the SOAP HTTP binding.

**Status:**

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# Table of Contents

<b>1 INTRODUCTION .....</b>	<b>8</b>
1.1 Purpose .....	8
1.2 History .....	8
1.3 Structure of the EDXL Resource Message.....	9
1.4 Terminology.....	10
1.5 Normative References.....	10
1.6 Non-Normative References .....	11
<b>2 DESIGN PRINCIPLES AND CONCEPTS (NON-NORMATIVE) .....</b>	<b>12</b>
2.1 Requirements for Design.....	12
2.2 Distribution of EDXL-RM .....	13
2.2.1 EDXL DISTRIBUTION ELEMENT (EDXL-DE) .....	13
2.2.2 EDXL RESOURCE MESSAGING (EDXL-RM) DISTRIBUTION.....	13
2.3 Example Usage Scenarios .....	13
2.3.1 Safecom Explosion .....	14
2.3.2 Cedar Fire Incident .....	14
2.3.3 Hurricane .....	15
2.3.4 Pandemic Influenza .....	15
<b>3 EDXL RESOURCE MESSAGING MODEL (NORMATIVE UNLESS OTHERWISE STATED) .....</b>	<b>16</b>
3.1 Abstract Reference Model (Non-Normative).....	16
3.2 Element Reference Model .....	18
3.3 Resource Message Types.....	18
3.4 RequestResource Message .....	25
3.4.1 Overview.....	25
3.4.2 Element Reference Model .....	25
3.4.3 RequestResource Message Rules.....	26
3.4.4 Message Flow.....	27
3.4.5 Message Example .....	27
3.5 ResponseToRequestResource Message.....	30
3.5.1 Overview.....	30
3.5.2 Element Reference Model .....	30
3.5.3 ResponseToRequestResource Message Rules .....	31
3.5.4 Message Flow.....	32
3.5.5 Message Example .....	32
3.6 RequisitionResource Message.....	35
3.6.1 Overview.....	35
3.6.2 Element Reference Model .....	35
3.6.3 RequisitionResource Message Rules .....	36
3.6.4 Message Flow.....	37
3.6.5 Message Example .....	37
3.7 CommitResource Message .....	40
3.7.1 Overview.....	40
3.7.2 Element Reference Model .....	40
3.7.3 CommitResource Message Rules.....	41
3.7.4 Message Flow.....	42
3.7.5 Message Example .....	42
3.8 RequestInformation Message.....	45
3.8.1 Overview.....	45

3.8.2 Element Reference Model .....	45
3.8.3 RequestInformation Message rules .....	46
3.8.4 Message Flow.....	47
3.8.5 Message Example .....	47
3.9 ResponseToRequestInformation Message .....	49
3.9.1 Overview.....	49
3.9.2 Element Reference Model .....	49
3.9.3 ResponseToRequestInformation Message Rules.....	50
3.9.4 Message Flow.....	51
3.9.5 Message Example .....	52
3.10 OfferUnsolicitedResource Message .....	55
3.10.1 Overview.....	55
3.10.2 Element Reference Model .....	55
3.10.3 OfferUnsolicitedResource Message Rules .....	56
3.10.4 Message Flow.....	57
3.10.5 Message Example .....	57
3.11 ReleaseResource Message .....	60
3.11.1 Overview.....	60
3.11.2 Element Reference Model .....	60
3.11.3 ReleaseResource Message Rules.....	61
3.11.4 Message Flow.....	62
3.11.5 Message Example .....	62
3.12 RequestReturn Message.....	65
3.12.1 Overview.....	65
3.12.2 Element Reference Model .....	65
3.12.3 RequestReturn Message Rules.....	66
3.12.4 Message Flow.....	67
3.12.5 Message Example .....	67
3.13 ResponseToRequestReturn Message .....	69
3.13.1 Overview.....	69
3.13.2 Element Reference Model .....	69
3.13.3 ResponseToRequestReturn Message Rules.....	70
3.13.4 Message Flow.....	71
3.13.5 Message Example .....	71
3.14 RequestQuote Message.....	73
3.14.1 Overview.....	73
3.14.2 Element Reference Model .....	73
3.14.3 RequestQuote Message Rules .....	74
3.14.4 Message Flow.....	75
3.14.5 Message Example .....	75
3.15 ResponseToRequestQuote Message .....	78
3.15.1 Overview.....	78
3.15.2 Element Reference Model .....	78
3.15.3 ResponseToRequestQuote Message Rules.....	79
3.15.4 Message Flow.....	80
3.15.5 Message Example .....	80
3.16 RequestResourceDeploymentStatus Message .....	83
3.16.1 Overview.....	83
3.16.2 Element Reference Model .....	83
3.16.3 RequestResourceDeploymentStatus Message Rules .....	84
3.16.4 Message Flow.....	85
3.16.5 Message Example .....	85
3.17 ReportResourceDeploymentStatus Message.....	87

3.17.1 Overview.....	87
3.17.2 Element Reference Model .....	87
3.17.3 ReportResourceDeploymentStatus Message Rules .....	88
3.17.4 Message Flow.....	89
3.17.5 Message Example .....	89
3.18 RequestExtendedDeploymentDuration .....	92
3.18.1 Overview.....	92
3.18.2 Element Reference Model .....	92
3.18.3 RequestExtendedDeploymentDuration Message Rules .....	93
3.18.4 Message Flow.....	94
3.18.5 Message Example .....	94
3.19 ResponseToRequestExtendedDeploymentDuration Message.....	96
3.19.1 Overview.....	96
3.19.2 Element Reference Model .....	96
3.19.3 ResponseToRequestExtendedDeploymentDuration Message Rules .....	97
3.19.4 Message Flow.....	98
3.19.5 Message Example .....	98
<b>4 DATA DICTIONARY (NORMATIVE).....</b>	101
4.1.1 EDXLResourceMessage ElementReferenceType Type .....	101
4.1.2 IncidentInformation Element .....	104
4.1.3 MessageRecall Element .....	105
4.1.4 Funding Element.....	106
4.1.5 ResourceInformation Element .....	107
4.1.6 ResponseInformation Element.....	107
4.1.7 Resource Element .....	108
4.1.8 OwnershipInformation Element.....	112
4.1.9 ResourceStatus Element .....	114
4.1.10 AssignmentInformation Element .....	117
4.1.11 AssignmentInstructions Element.....	120
4.1.12 ScheduleInformation Element.....	122
4.1.13 Supporting Element Types.....	124
4.1.13.1 ContactInformationType .....	124
4.1.13.1.1 Radio Element .....	127
4.1.13.2 LocationType.....	127
4.1.13.2.1 Imported Type Definitions .....	128
4.1.13.3 ValueListType.....	131
<b>5 CONFORMANCE .....</b>	133
5.1 Conformance Targets.....	133
5.2 Conformance Levels .....	133
5.3 Conformance as an EDXL-RM Message.....	134
5.3.1 Level-1 EDXL-RM Message .....	134
5.3.2 Level-2 EDXL-RM Message .....	134
5.4 Conformance as an EDXL-RM Message Producer.....	135
5.4.1 Level-1 EDXL-RM Message Producer.....	135
5.4.2 Level-2 EDXL-RM Message Producer.....	135
<b>A. XML SCHEMA FOR THE EDXL RESOURCE MESSAGING (NORMATIVE) .....</b>	136
A.1 Resource Messaging Common Types .....	136
A.2 Resource Messaging Reference Schema .....	140
A.3 RequestResource Message Schema.....	142
A.4 ResponseToRequestResource Message Schema .....	144

A.5 RequisitionResource Message Schema .....	146
A.6 CommitResource Message Schema.....	147
A.7 RequestInformation Message Schema .....	149
A.8 ResponseToRequestInformation Message Schema.....	151
A.9 OfferUnsolicitedResource Message Schema.....	153
A.10 ReleaseResource Message Schema .....	155
A.11 RequestReturn Message Schema .....	157
A.12 ResponseToRequestReturn Message Schema .....	159
A.13 RequestQuote Message Schema .....	161
A.14 ResponseToRequestQuote Message Schema .....	162
A.15 RequestResourceDeploymentStatus Message Schema .....	164
A.16 ReportResourceDeploymentStatus Message Schema .....	166
A.17 Request Extended Deployment Duration Message Schema .....	169
A.18 ResponseToRequestExtendedDeploymentDuration Message Schema .....	171
A.19 Acknowledgements .....	173
<b>B. REVISION HISTORY .....</b>	<b>174</b>

---

# 1 Introduction

## 2 1.1 Purpose

3 As detailed in the EDXL-DE Specification, the goal of the EDXL project is to facilitate emergency  
4 information sharing and data exchange across the local, state, tribal, national and non-governmental  
5 organizations of different professions that provide emergency response and management services. EDXL  
6 will accomplish this goal by focusing on the standardization of specific messages (messaging interfaces)  
7 to facilitate emergency communication and coordination particularly when more than one profession or  
8 governmental jurisdiction is involved.

9 The primary purpose of the Emergency Data Exchange Language Resource Messaging (EDXL-RM)  
10 Specification is to provide a set of standard formats for XML emergency response messages. These  
11 Resource Messages are specifically designed as payloads of Emergency Data Exchange Language  
12 Distribution Element- (EDXL-DE)-routed messages. Together EDXL-DE and EDXL-RM are intended to  
13 expedite all activities associated with resources needed to respond and adapt to emergency incidents.  
14 The Distribution Element may be thought of as a "container". It provides the information to route "payload"  
15 message sets (such as Alerts or Resource Messages), by including key routing information such as  
16 distribution type, geography, incident, and sender/recipient IDs.

17  
18 The Resource Message is constrained to the set of Resource Message Types contained in this  
19 specification. The Resource Message is intended to be the payload or one of the payloads of the  
20 Distribution Element which contains it.

21

## 22 1.2 History

23 Disaster Management (DM) is a communications program in the Department of Homeland Security's  
24 (DHS) Office for Interoperability and Compatibility (OIC) and managed by the Science and Technology  
25 (S&T) Directorate. The program was initiated as one of the President's e-government initiatives. DM's  
26 mission is to serve as the program within the Federal Government to help local, tribal, state, and federal  
27 public safety and emergency response agencies improve public safety response through more effective  
28 and efficient interoperable data sharing. The DHS DM program sponsors a Practitioner Steering Group  
29 (PSG).

30  
31 The DM Practitioner Steering Group (PSG) governance was formalized following publication of the EDXL  
32 Distribution Element. It plays a key role in the direction, prioritization, definition, and execution of the  
33 DHS-DM program. The group is comprised of representatives of major emergency response associations,  
34 setting priorities and providing recommendations regarding messaging standards development as well as  
35 the other facets of the DM program.

36  
37 The PSG specified messaging standards-based systems interoperability as the top priority for the DHS  
38 Disaster Management program. The EDXL Resource Messaging Specification effort was identified as the  
39 top priority standard by this group following the EDXL-DE. The requirements and specification effort was  
40 initiated by this group in partnership with industry members of the Emergency Interoperability Consortium  
41 (EIC) in a Standards Working Group (SWG). That group developed a draft specification which was  
42 submitted to the OASIS Emergency Management Technical Committee to begin work on this EDXL-RM  
43 specification.

44

45 The process remained the same as with the EDXL-DE specification with the exception that the Technical  
46 Committee requested that the initial candidate specification submitted by the expert group be recast as a  
47 formal Requirements Document according to a template that the Technical Committee provided to the  
48 expert group. The candidate specification was then resubmitted along with this requested requirements  
49 document.

## 50 **1.3 Structure of the EDXL Resource Message**

51 As stated in Section 1.1, the EDXL Resource Message specification defines 16 separate and specific  
52 message types supporting the major communication requirements for allocation of resources across the  
53 emergency incident life-cycle. This includes preparedness, pre-staging of resources, initial and ongoing  
54 response, recovery and demobilization / release of resources.

55 The EDXL Resource Message structure is defined using successively more detailed or *constrained*  
56 artifacts in the form of diagrams, figures and tables. The overall structure of the EDXL Resource Message  
57 is first represented in a *reference model* referred to as the Element Reference Model (ERM). This overall  
58 model is the foundation from which individual *constraint* schemas (individual resource message types)  
59 are defined. The ERM (Section 3.2) with the Data Dictionary (Section 4) defines the overall structure of  
60 Resource Messages including message structure (element cardinality), message element definitions and  
61 cardinality which must be adhered to. An overall XML schema is also provided for the ERM.

62

63 Following overall Resource Message definition, each individual EDXL Resource Message type is defined.  
64 Table 2 provides a matrix defining required, optional and conditional message elements for each EDXL  
65 Resource Message. A section is then provided for each individual EDXL Resource Message (each  
66 message *constraints* the overall ERM or reference model), providing the normative ERM, element  
67 cardinality and optionality, business rules and message flow that defines each individual message type.  
68 Message XML and example XML is also provided for each message.

69 The following descriptions of these artifacts are here only as preparation to better understand how to use  
70 these diagrams, figures and tables

71 The non-normative Abstract Reference Model diagram in Figure 1 shows the abstract structural  
72 relationships of the main components or elements. The normative ERM diagram in Figure 2 shows the  
73 structural relationships of the main Resource Messaging elements. *Elements* are logical groupings of  
74 message elements for purposes of defining message structure

- 75 1. The **EDXLResourceMessage** element itself is the top level element of this specification as a  
76 whole, and contains the message elements that identify and describe the message with  
77 information such as ID, DateTime, ContactInformation, MessageDescription and previous  
78 message references;
- 79 2. An **IncidentInformation** element identifies and describes the incident with which the message is  
80 concerned;
- 81 3. A **MessageRecall** element is needed when a message updates or cancels a previous message;
- 82 4. A **Funding** element specifies applicable codes and specific funding information;
- 83 5. A **ResourceInformation** element specifies the resource information or resource requirement.  
84 The ResourceInformation element contains:
  - 85 a. A **Resource** element to identify and describe the specific resource or resources with  
86 which the message is concerned, such as **ID**, **Name**, **Type** and **Description**. The  
87 Resource element contains the following additional elements:
    - 88 i. An **OwnershipInformation** element; and,
    - 89 ii. A **ResourceStatus** element.
  - 90 b. A **ResponseInformation** element that identifies the Resource to which it applies,  
91 specifies the **ResponseType** such as **Accept** or **Decline**, a **ResponseCode** and  
92 **ResponseReason**;

- 93           c. An **AssignmentInformation** element to specify information such as **Quantity**,  
 94           **PriceQuote** and **OrderID**. The AssignmentInformation element includes:  
 95            i. An **AssignmentInstructions** element for specifying **ModeOfTransportation**,  
 96            **NavigationInstructions** and **ReportingInstructions**; and,  
 97           d. A **ScheduleInformation** element to specify a **ScheduleType**, such as  
 98           **RequestedArrival**, **RequestedDeparture**, **ActualArrival** and **Actual Departure**, as well  
 99           as **DateTime** and **Location**;  
 100          6. A **ContactInformation** element is organized separately to be reused in Resource Message  
 101         Elements as needed, and it reuses the **OASIS Customer Information Quality** Specifications;  
 102          7. A **LocationType** element is organized separately to be used in Resource Message elements as  
 103         needed, using the **geo-oasis:WhereType**;  
 104          8. A **ValueListType** element is organized and specified separately to be used in Resource Message  
 105         elements as needed.

106         Table 1 provides a Resource Message Type Summary of the 16 specific types of Resource Message.  
 107         This is useful for getting a quick overview of the message types contained in the specification.

108         Figure 3 illustrates the three primary types of behavior which Resource Messages enable:

- 109         • **Discovery**;
- 110         • **Ordering**; and
- 111         • **Deployment**.

112         Table 2 provides a Resource Message Type – Element Matrix where each row represents a specific  
 113         message element grouped by element group and each column represents a specific message type.  
 114         Using this matrix, one can determine whether any combination of message element and message type is  
 115         Required, Conditional, or Optional.

116         Finally, each specific message type is fully defined in Sections 3.4 through 3.19.

117

## 118         1.4 Terminology

119         The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD  
 120         NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described  
 121         in [RFC2119].

122         The term “Conditional” as used in this specification is to be interpreted that a message *element* MUST be  
 123         used, according to specified rules, within a particular message type (elements MUST be one of  
 124         “Required,” “Optional” or “Conditional”).

125         The term “Provisional” as used in this specification is to be interpreted that the Request, Requisition or  
 126         Commit is accepted on a tentative; constrained or probationary basis; or that a Release is made on a  
 127         tentative, constrained or probationary basis.

128

## 129         1.5 Normative References

- |   |  |
|---|--|
| 130         [ <a href="#">RFC2046</a> ] | N. Freed, <i>Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types</i> ,<br><a href="http://www.ietf.org/rfc/rfc2046.txt">http://www.ietf.org/rfc/rfc2046.txt</a> , IETF RFC 2046, November 1996. |
| 132         [ <a href="#">RFC2119</a> ] | S. Bradner, <i>Key words for use in RFCs to Indicate Requirement Levels</i> ,<br><a href="http://www.ietf.org/rfc/rfc2119.txt">http://www.ietf.org/rfc/rfc2119.txt</a> , IETF RFC 2119, March 1997.            |
| 134         [ <a href="#">RFC3066</a> ] | H. Alvestrand, Tags for the Identification of Languages,<br><a href="http://www.ietf.org/rfc/rfc3066.txt">http://www.ietf.org/rfc/rfc3066.txt</a> , IETF RFC 3066, January 2001.                               |

136	<b>[WGS 84]</b>	National Geospatial Intelligence Agency, Department of Defense World Geodetic System 1984, <a href="http://earth-info.nga.mil/GandG/tr8350_2.html">http://earth-info.nga.mil/GandG/tr8350_2.html</a> , NGA Technical Report TR8350.2, January 2000.
137		
138		
139	<b>[XML 1.0]</b>	T. Bray, <i>Extensible Markup Language (XML) 1.0 (Third Edition)</i> , <a href="http://www.w3.org/TR/REC-xml/">http://www.w3.org/TR/REC-xml/</a> , W3C REC-XML-20040204, February 2004.
140		
141	<b>[namespaces]</b>	T. Bray, <i>Namespaces in XML</i> , <a href="http://www.w3.org/TR/REC-xml-names/">http://www.w3.org/TR/REC-xml-names/</a> , W3C REC-xml-names-19990114, January 1999.
142		
143	<b>[dateTime]</b>	N. Freed, <i>XML Schema Part 2: Datatypes Second Edition</i> , <a href="http://www.w3.org/TR/xmlschema-2/#dateTime">http://www.w3.org/TR/xmlschema-2/#dateTime</a> , W3C REC-xmlschema-2, October 2004.
144		
145		
146	<b>[EDXL-HAVE]</b>	Emergency Data Exchange Language Hospital AVailability Exchange <a href="http://www.oasis-open.org/apps/org/workgroup/emergency/download.php/25719/emergency_edxl_have-1.0-spec-pr03.pdf">http://www.oasis-open.org/apps/org/workgroup/emergency/download.php/25719/emergency_edxl_have-1.0-spec-pr03.pdf</a>
147		
148		
149		
150	<b>[OGC 03-105r1]</b>	<i>OpenGIS Geography Markup Language (GML) Implementation Specification</i> , <a href="http://portal.opengeospatial.org/files/?artifact_id=4700">http://portal.opengeospatial.org/files/?artifact_id=4700</a> , Version 3.1.1, 2003
151		
152	<b>[OGC CRS]</b>	Open Geospatial Consortium, Topic 2 - Spatial Referencing by Coordinates (Topic 2) (CRS Abstract Specification), <a href="https://portal.opengeospatial.org/files/?artifact_id=6716">https://portal.opengeospatial.org/files/?artifact_id=6716</a> , Version 3, 2004.
153		
154		
155	<b>[OGC 04-092r4]</b>	Open Geospatial Consortium, GML 3.1.1 schemas, <a href="http://schemas.opengis.net/gml/3.1.1/">http://schemas.opengis.net/gml/3.1.1/</a> , 2004
156		
157	OASIS CIQ	OASIS, Customer Information Quality (CIQ) Specifications Version 3.0, Name (xNL), Address (xAL), and Party (xPIL), <a href="http://docs.oasis-open.org/ciq/v3.0/specs/">http://docs.oasis-open.org/ciq/v3.0/specs/</a> , 15 June 2007
158		
159		
160		

## 1.6 Non-Normative References

161	<b>[EDXL GFR]</b>	<i>EDXL General Functional Requirements</i> , <a href="http://www.oasis-open.org/committees/download.php/10031/EDXL%20General%20Functional%20Requirements.doc">http://www.oasis-open.org/committees/download.php/10031/EDXL%20General%20Functional%20Requirements.doc</a> , November 2004
162		
163		
164		
165	<b>[EDXL-DE IG]</b>	<i>EDXL Distribution Element Implementer's Guide</i> , <a href="http://www.oasis-open.org/committees/download.php/14120/EDXL_Implementer%27sGuide.doc">http://www.oasis-open.org/committees/download.php/14120/EDXL_Implementer%27sGuide.doc</a> , August 2005
166		
167		
168	<b>[EDXL-RM SRS]</b>	<i>EDXL Resource Messaging Standard Requirements Supplement</i> , workgroup <a href="http://www.oasis-open.org/committees/download.php/14981/EDXL_RqmtsSupplement101905.doc">http://www.oasis-open.org/committees/download.php/14981/EDXL_RqmtsSupplement101905.doc</a> , October 19, 2005
169		
170		
171		
172	<b>[EDXL-RM SF]</b>	<i>EDXL Resource Messaging Standard Format for Resource Messaging (candidate specification)</i> <a href="http://www.oasis-open.org/committees/download.php/13690/EDXL_ResourceDraft07152005.doc">http://www.oasis-open.org/committees/download.php/13690/EDXL_ResourceDraft07152005.doc</a> , July 15, 2005
173		
174		
175		
176	<b>[ISO 4217]</b>	ISO 4217:2001, <i>Codes for the representation of currencies and funds</i>
177	<b>[ISO 4217 codes]</b>	<i>ISO 4217 currency names and code elements</i> , <a href="http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_used_standards_other/currency_codes/currency_codes_list-1.htm">http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_used_standards_other/currency_codes/currency_codes_list-1.htm</a>
178		
179		
180	<b>[UCUM]</b>	Gunther Schadow, Clement J. McDonald, <i>The Unified Code for Units of Measure</i> , Version 1.6, <a href="http://aurora.regenstrief.org/UCUM/ucum.html">http://aurora.regenstrief.org/UCUM/ucum.html</a> , Regenstrief Institute for Health Care, 2005
181		
182		
183		

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## 184 2 Design Principles and Concepts (non-normative)

185 Below are some of the guiding principles behind the development of EDXL-RM:

- 186 • Provide a standard message format for the Resource Message
- 187 • Provide separate specific formats for the distinct Resource Message Types
- 188 • Enable dissemination of messages based on geographic delivery area
- 189 • Use and reuse of data content and models developed by other initiatives
- 190 • Business process-driven specific messaging needs across emergency professions
- 191 • Supporting everyday events and incident preparedness, as well as disasters
- 192 • Facilitate emergency information sharing and data exchange across the local, state, tribal,
- 193 • national and non-governmental organizations of different professions that provide emergency
- 194 • response and management services

### 195 2.1 Requirements for Design

196 The initial requirements submitted to the Technical Committee by the EDXL Standards Working Group  
197 described in Section 1.2 can be reviewed:

198  
199 *EDXL Resource Messaging Standard Requirements Supplement*, workgroup

200 <http://www.oasisopen.org/committees/download.php/14981/EDXLReqmtsSupplement101905.doc>,  
201 October 19, 2005

202  
203 In summary, the EDXL Resource Messaging specification should

- 204 1. Define a detailed message structure for the following specific EDXL Resource Message  
205 Types: (Note that requirements that are self-evident from Message Type names are not  
206 separately listed)
  - a. RequestResource
  - b. ResponseToRequestResource
  - c. RequisitionResource
  - d. CommitResource
  - e. RequestInformation
  - f. ResponseToRequestInformation
  - g. OfferUnsolicitedResource
  - h. ReleaseResource
  - i. RequestReturn
  - j. ResponseToRequestReturn
  - k. RequestQuote
  - l. ResponseToRequestQuote
  - m. RequestResourceDeploymentStatus
  - n. ReportResourceDeploymentStatus
  - o. RequestExtendedDeploymentDuration
  - p. ResponseToRequestExtendedDeploymentDuration
- 207 2. Explicitly specify use of EDXL-DE as the routing mechanism for the EDXL Resource  
208 Message
- 209 3. Provide the ability to specify a desired geographic Resource delivery area, provide for notice  
210 of Resource demobilization and the ability to communicate information to provide for  
211 returning Resource
- 212 4. Provide ability to accept or decline in a ResponseToRequestResource that indicates  
213 availability of the requested Resource or to accept or decline to an OfferUnsolicitedResource

- 230        5. Provide the ability to cancel any Resource Message (actual method is MessageRecall)  
231        6. Provide the ability to reference specific incidents in Resource Message  
232        7. Provide unique identifier for each message as well as the ability to reference previous  
233        messages, including but not limited to originating message in a given sequence  
234        8. Provide the ability to specify Date and Time of Resource Message, referenced messages,  
235        scheduling information, assignment information and specific instructions  
236        9. Provide the ability to report Disposition of referenced Resource Message(s)  
237        10. Provide the ability to specify contact information of individuals responsible for Resource  
238        Message(s) and/or Resource(s)  
239        11. Provide the ability to specify funding information for Resources  
240        12. Provide the ability to reference external lists for Resource Message content  
241        13. Provide the ability to fully describe Resource(s)  
242        14. Provide the ability to specify Special Requirements such as protective equipment or specific  
243        skill credentials, e.g. certifications, licenses  
244        15. Provide the ability to specify Resource Information for purposes beyond identification and  
245        qualification such as scheduling and assignment.

## 246 **2.2 Distribution of EDXL-RM**

247 The primary purpose of the Emergency Data Exchange Language Resource Messaging (EDXL-RM)  
248 Specification is to provide a set of standard formats for XML emergency messages. These Resource  
249 Messages are specifically designed as payloads of the EDXL-DE. Together EDXL-DE and EDXL-RM are  
250 intended to expedite activities associated with managing resources during all phases of Emergency  
251 Management. Routing and distribution information is found only in the EDXL-DE and not in the EDXL-RM.

### 252 **2.2.1 EDXL DISTRIBUTION ELEMENT (EDXL-DE)**

253 EDXL Distribution Element (EDXL-DE) V 1.0 was approved as an OASIS standard in April 2006. The  
254 EDXL-DE provides a flexible message-distribution framework for data sharing among emergency  
255 information systems using XML. The EDXL-DE may be used over any data transmission system,  
256 including, but not limited to, the SOAP HTTP binding.

257 The primary purpose of the Distribution Element is to facilitate the routing of emergency messages to  
258 recipients. The Distribution Element may be thought of as a "container". It provides the information to  
259 route "payload" message sets by including key routing information such as distribution type, geography,  
260 incident, and sender/recipient IDs. Messages may be distributed to specific recipients, to a geographic  
261 area, or based on codes such as agency type (police, fire, etc.).

### 263 **2.2.2 EDXL RESOURCE MESSAGING (EDXL-RM) DISTRIBUTION**

264 The EDXL-DE is designed to carry one or more payloads called Content Objects. Each Content Object  
265 may be well-formed XMLContent, or NonXMLContent. The EDXL-RM is designed to be well-formed  
266 XMLContent for routing using the EDXL-DE. The EDXL-DE supports both context sensitive routing via  
267 metadata (i.e. information about the Content Objects) and directed distribution (i.e. the sender specifies  
268 specific recipients).

269 While the EDXL-RM is designed to be an EDXL-DE payload, other routing mechanisms may be used to  
270 distribute EDXL-RM content if the message metadata is provided in the same form or if the sender  
271 specifies specific recipients of the payload.

## 273 **2.3 Example Usage Scenarios**

274 Note: The following examples of usage scenarios were used as a basis for design and review of the  
275 EDXL Resource Messaging Specification. These scenarios are non-normative and not intended to be  
276 exhaustive or to reflect actual practices.

### 277   **2.3.1 SAFECOM Explosion**

278 This scenario follows the detection of a noxious aerosol substance leak at a chemical plant that produces  
279 toxic materials. This scenario involves evacuations, requests for hazmat teams and the evolution of the  
280 incident into an explosion that destroys the leak site and an adjacent building with casualties requiring  
281 emergency healthcare teams, full incident command establishment, responses of various kinds and  
282 cleanup.

283 Full use case available: [http://www.oasis-](http://www.oasis-open.org/committees/download.php/26805/EDXL_use_example_SafecomExplosion%20060805.doc)  
284 [open.org/committees/download.php/26805/EDXL\\_use\\_example\\_SafecomExplosion%20060805.doc](http://www.oasis-open.org/committees/download.php/26805/EDXL_use_example_SafecomExplosion%20060805.doc)

285 Explosion scenarios from the following source document provided scenario content for this use case:

286           “SAFECOM Statement of Requirements for Public Safety Wireless Communications and  
287           Interoperability”  
288           The SAFECOM Program  
289           Department of Homeland Security  
290           Version 1.0  
291           March 10, 2004

### 292   **2.3.2 Cedar Fire Incident**

293 This is an actual use case that follows the events of the “Cedar” fire incident in late October and  
294 November 2003 in San Diego County, California. Operation Center (EOC) has been activated, and  
295 requests the agencies to be on alert. This scenario represents a large scale incident involving activation  
296 of the state Emergency Operation Center (EOC). This use example is based upon four official source  
297 documents which provide a detailed description of the incident and response, and provides independent  
298 evaluations of overall response. The use example chronicles a lack of radio interoperability coupled with  
299 poor coordination of mutual aid in the area, due to several concurrent fires back to back with other recent  
300 fires in this geographical region.

301 Full use case available: [http://www.oasis-](http://www.oasis-open.org/committees/download.php/26803/EDXL_use_example_Fire061005.doc)  
302 [open.org/committees/download.php/26803/EDXL\\_use\\_example\\_Fire061005.doc](http://www.oasis-open.org/committees/download.php/26803/EDXL_use_example_Fire061005.doc)

303 The following source documents provided scenario content for this use case:

- 304       1. Final Draft\_ 2003 SD Co Fire Safety Review-no pics.pdf [http://www.oasis-](http://www.oasis-open.org/committees/download.php/26809/Final%20Draft_%202003%20SD%20Co%20Fire%20Safety%20Review-no%20pics.pdf)  
305           [open.org/committees/download.php/26809/Final%20Draft\\_%202003%20SD%20Co%20Fire%20Safety%20Review-no%20pics.pdf](http://www.oasis-open.org/committees/download.php/26809/Final%20Draft_%202003%20SD%20Co%20Fire%20Safety%20Review-no%20pics.pdf)
  - 306       2. Cedar Fire SDFD.pdf [http://www.oasis-](http://www.oasis-open.org/committees/download.php/26808/Cedar%20Fire%20SDFD.pdf)  
307           [open.org/committees/download.php/26808/Cedar%20Fire%20SDFD.pdf](http://www.oasis-open.org/committees/download.php/26808/Cedar%20Fire%20SDFD.pdf)
  - 308       3. City of SD City Mgr Rpt Fire 2003.pdf [http://www.oasis-](http://www.oasis-open.org/committees/download.php/26810/City%20of%20SD%20City%20Mgr%20Rpt%20Fire%202003.pdf)  
309           [open.org/committees/download.php/26810/City%20of%20SD%20City%20Mgr%20Rpt%20Fire%202003.pdf](http://www.oasis-open.org/committees/download.php/26810/City%20of%20SD%20City%20Mgr%20Rpt%20Fire%202003.pdf)
- 310           Firestorm 2003 Case Study – Final.pdf [http://www.oasis-](http://www.oasis-open.org/committees/download.php/26807/Firestorm%202003%20Case%20Study%20-%20Final.pdf)  
311           [open.org/committees/download.php/26807/Firestorm%202003%20Case%20Study%20-%20Final.pdf](http://www.oasis-open.org/committees/download.php/26807/Firestorm%202003%20Case%20Study%20-%20Final.pdf)

319 **2.3.3 Hurricane**

320 This scenario modeled a category 5 hurricane several months prior to the start of the 2005 hurricane  
321 season in earnest, and follows many different kinds of resource requests and evolving situations as a  
322 widespread incident with mass casualties and damage occurs.

323 Full use case available: [http://www.oasis-open.org/committees/download.php/26804/EDXL\\_use\\_example\\_Hurricane061005.doc](http://www.oasis-open.org/committees/download.php/26804/EDXL_use_example_Hurricane061005.doc)

325 The following source document provided scenario content for this use case: "Planning Scenarios,  
326 Executive Summaries, Created for use in National, Federal, State and Local  
327 Homeland Security Preparedness Activities" – Version 2.0 – The Homeland Security Council,  
328 David Howe, Senior Director for Response and Planning – July 2004"  
329 "Scenario 10: Natural Disaster – Major Hurricane  
330 [http://www.altheim.com/lit/planning\\_scenarios\\_exec\\_summary.html#p36](http://www.altheim.com/lit/planning_scenarios_exec_summary.html#p36)

331 **2.3.4 Pandemic Influenza**

332 This scenario models an Influenza Pandemic outbreak at Phase 6 (Increased and pre-sustained  
333 transmission in general population) as determined by the State Health Agency/Public Health Department.  
334 It includes such activities as requesting medical facilities to take stock and determine what resources are  
335 readily available and on hand (inventory of available supplies). It includes a wide range of resource  
336 messages such as requests for vaccines and antivirals.  
337

338 Full use case available: [http://www.oasis-open.org/committees/download.php/26806/EDXL\\_use\\_example\\_Influenza\\_06152005%20LaniGrahmRev.doc](http://www.oasis-open.org/committees/download.php/26806/EDXL_use_example_Influenza_06152005%20LaniGrahmRev.doc)  
339  
340

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### 3 EDXL Resource Messaging Model (Normative unless otherwise stated)

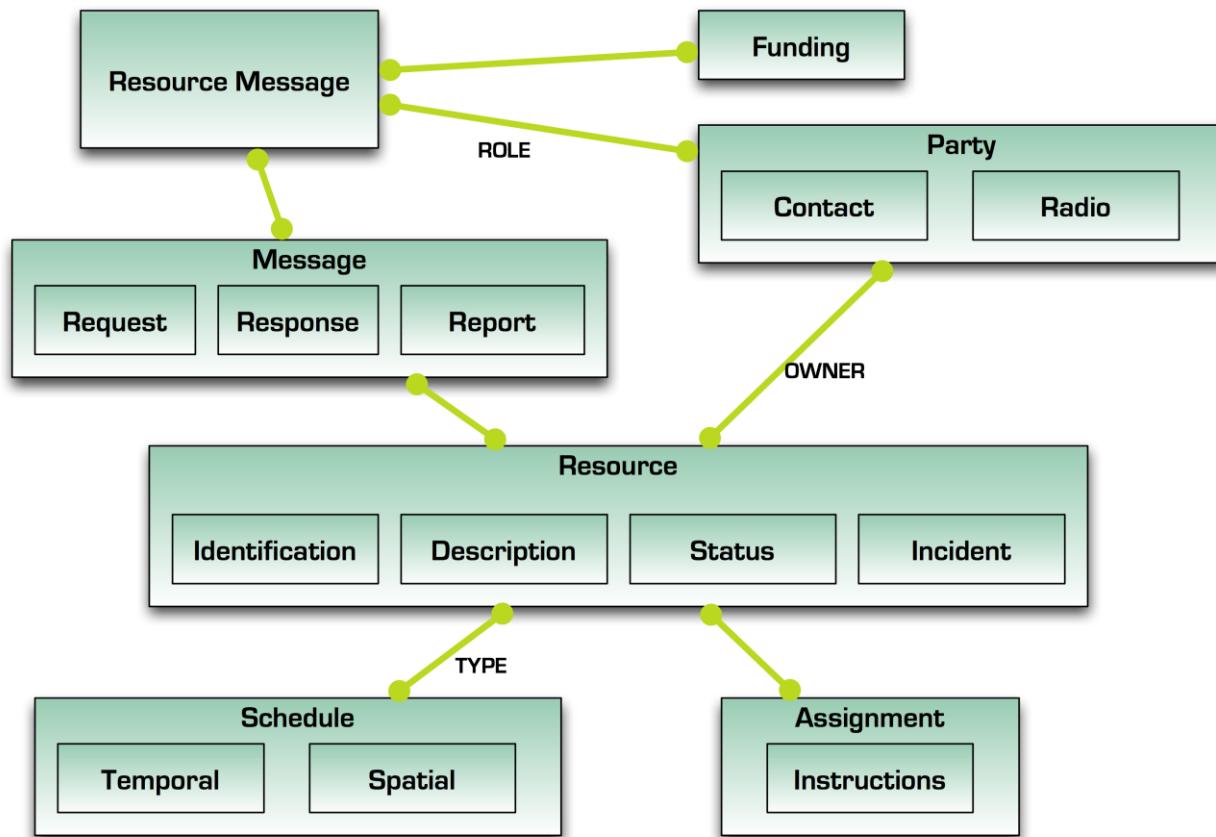
341 Section 3 of this Standard is normative unless otherwise stated. If any differences are found between any  
342 XML schema and its associated model, diagram, table or other artifact or text, then the XML schema shall  
343 always take precedence and the other artifact(s) must be changed to match the XML schema.  
344 NOTE: Please report any such errors to OASIS

#### 3.1 Abstract Reference Model (Non-Normative)

345 Figure 1 below shows the Resource Messaging Abstract Reference Model (RM-ARM). The purpose of  
346 the RM-ARM is to highlight the high-level structure of the RM framework and the relationships between  
347 the main entities.

348 The Resource Message contains one of two major message categories: a Request or a Response  
349 message; or a minor message category type, or a Report message. These two major and one minor  
350 message categories form the underlying framework for all messages. The Resource Message also  
351 contains information on the Party or Parties (person or organization) that plays a significant Role in the  
352 message transaction. Funding information can also be specified.  
353

354



356  
357  
358  
359  
*Figure 1: Resource Messaging – Abstract Reference Model*

360 The core of any message is the Resource or Resources with which it is concerned. A Resource contains  
361 information about its Identity, Description and Status. A Resource owner can also be identified.

362 A Resource may also have a schedule which includes Temporal and Spatial details. For example, the  
363 expected arrival time and place for a specific resource. There are a number of types for Schedules.

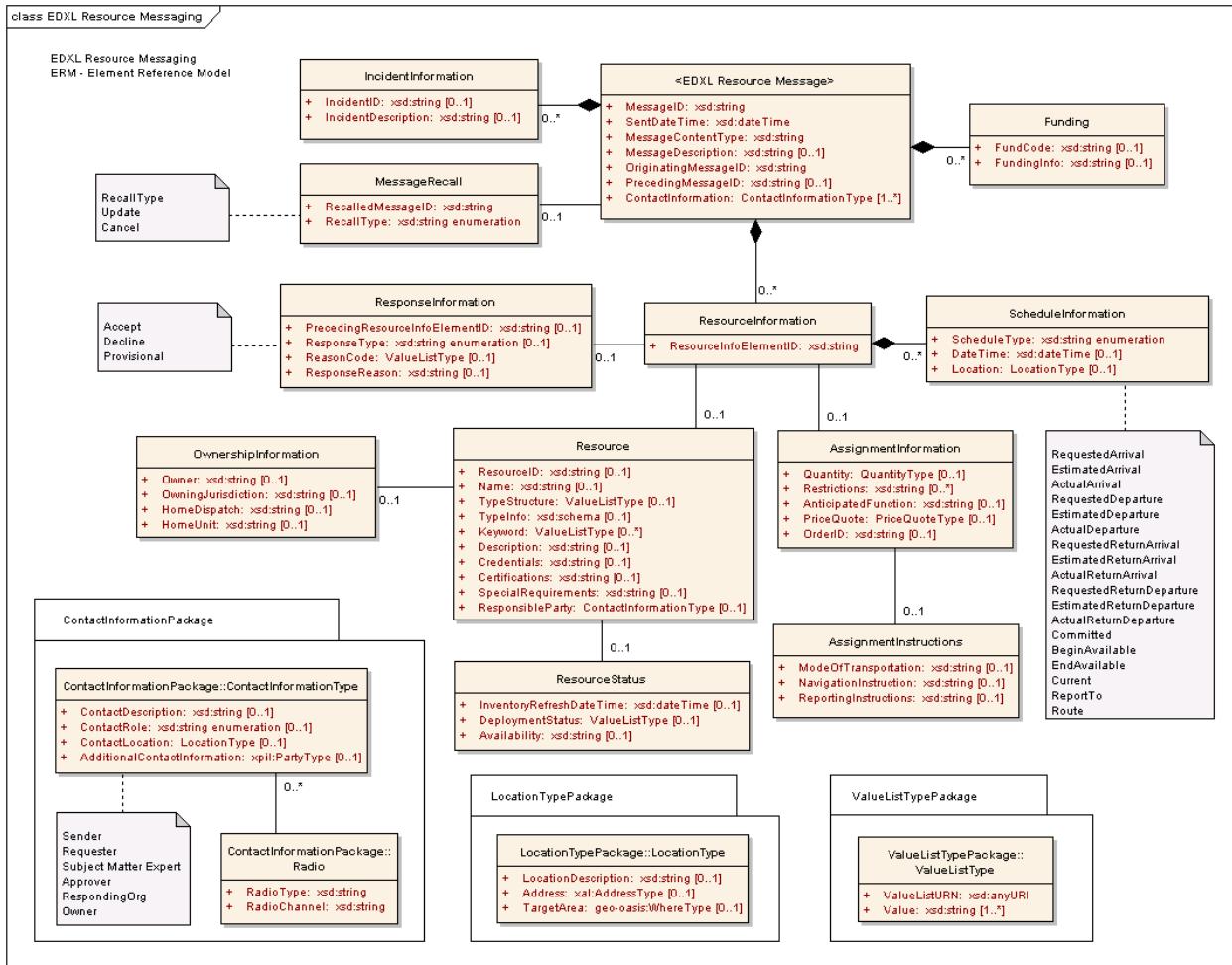
364 A Resource may also have information about its Assignment including the identified Incident and  
365 Instructions related to the incident assignment.

366

## 367 3.2 Element Reference Model

368 Figure 2 below shows the EDXL–RM Element Reference Model (ERM). The purpose of the ERM is to  
 369 highlight the low-level structure of the RM framework and the relationships between the main entities and  
 370 their elements.

371 It is important to note that the ERM should not be used as an implementation model as the exact  
 372 semantics and structure are captured in the subsequent sections on the Resource Message Types.  
 373



374 375 *Figure 2: Resource Messaging – Element Reference Model*

376 The RM-ERM shows the element-level details for the main entities in the RM. The semantics for each of  
 377 the elements is defined in Section 3.3.

## 378 3.3 Resource Message Types

379 The general RM framework is based on a Request/Response model. Most of the Request messages  
 380 expect a Response, and in some cases, messages are used to notify others of changes or offers of  
 381 resources.

382 An RM message MUST be carried as the payload of the EDXL-DE or a distribution mechanism with the  
 383 distribution type values of Report, Update, Cancel, Request, Response, Dispatch, Ack and Error, as  
 384 defined in EDXL-DE. For example, the acknowledgement of an RM message is handled by the  
 385 distribution mechanism.

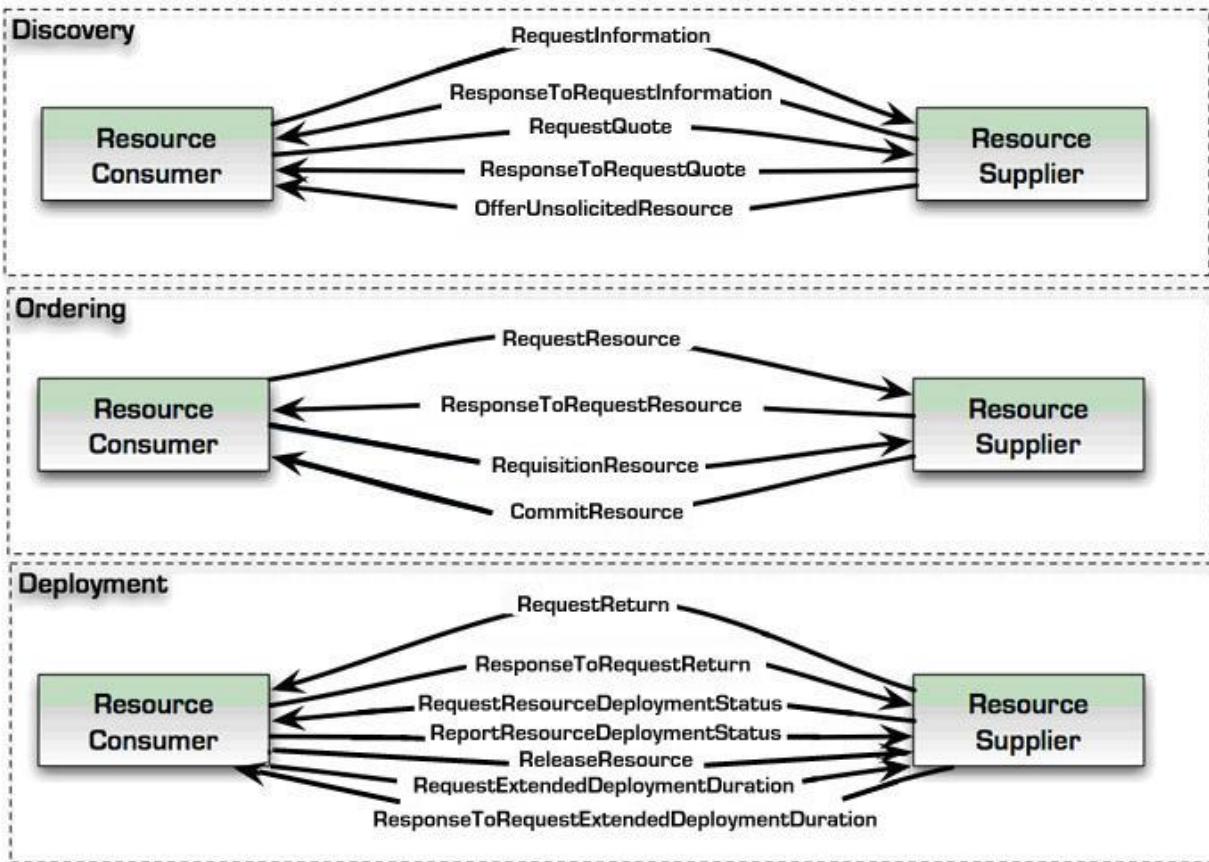
386 When a message recipient receives an RM message, it uses the EDXL-DE DistributionType value of Ack  
 387 as an acknowledgement. An acknowledgement is intended to inform the sender that the RM message  
 388 has been received.  
 389 The EDXL-RM provides the mechanism to recall or update a previously sent resource message through  
 390 the EDXL MessageRecall element. The MessageRecall element, when present, contains the  
 391 RecalledMessageID and the RecallType. The RecalledMessageID contains the MessageID of the  
 392 message previously sent that is being either canceled or updated. If the RecallType element contains the  
 393 value "Cancel", then the entire message specified in RecalledMessageID is to be canceled. If the  
 394 RecallType element contains the value "Update", then the entire message specified in  
 395 RecalledMessageID is replaced by the new message.  
 396 This two-way communication is characterized by two classes of primary actors. The Resource Consumer  
 397 is an actor that needs or requires resources to undertake response to an incident. The Resource Supplier  
 398 is an owner, or distributor, or manager of resources that can meet the needs of Resource Consumers.  
 399 There may be more than one actor of each class for a given sequence of message exchanges, and there  
 400 may also be other classes of actors besides these two primary types.  
 401 There are 16 resource messages defined in this specification, which are summarized in Table 1 below.  
 402

*Table 1: Resource Message Type Summary*

Message Type	Description	Message Sender
RequestResource	Message used to request needed resources from one or many recipients, possibly spawning multiple responses.	Resource Consumer
ResponseToRequestResource	Message used as the response to a "RequestResource". Allows sender to list resource(s) which they feel represent suitable match with a resource request.	Resource Supplier
RequisitionResource	Message used to "order" specific resource, or to confirm specific resource to be "ordered" relating to one or more responses to a "RequestResource".	Resource Consumer
CommitResource	Message used to agree or commit specific resource in response to a RequestResource or RequisitionResource.	Resource Supplier
RequestInformation	Message used to ask resource questions or provide general description of situation and general resources needs.	Resource Consumer, Resource Supplier
ResponseToRequestInformation	Message used as the response to a RequestInformation message providing general information or to list resource that may meet the specified need.	Resource Supplier, Resource Consumer
OfferUnsolicitedResource	Message used to offer available resources (that have not been requested) to assist with an emergency response.	Resource Supplier
ReleaseResource	Message used at the incident to "release" (demobilize) resource back to its original Supplier.	Resource Consumer
RequestReturn	Message used to request release (demobilize) of resources back to its original point of assignment or to another location / assignment ("I want my stuff back").	Resource Supplier

Message Type	Description	Message Sender
ResponseToRequestReturn	Message used as the response to a "RequestReturn" indicating whether the resource may be released, with relevant time-line information.	Resource Consumer
RequestQuote	Message used to request a price quote from a seller or supplier.	Resource Consumer
ResponseToRequestQuote	Message used as the response to a "RequestQuote". Allows sender to list resource(s) which they feel represent suitable match with the request, with pricing information.	Resource Supplier
RequestResourceDeploymentStatus	Message used to request current "status" of resource.	Resource Consumer, Resource Supplier
ReportResourceDeploymentStatus	Message used to report on the current "status" of any resource.	Resource Consumer, Resource Supplier
RequestExtendedDeploymentDuration	A request initiated by the requester / receiver of resource, "I want to extend how long I need to keep this resource"	Resource Consumer
ResponseToRequestExtendedDeploymentDuration	Message used as the response to "RequestExtendedDeploymentDuration".	Resource Supplier

- 403 Table 1 above and Figure 3 below are informative only. They are included to show how the resource  
 404 messages might flow between the Resource Consumer and Resource Supplier during resource  
 405 management. Note, however, that this specification does not prescribe the sequence of message  
 406 exchanges, except for some dependencies between messages which are described in Section 3.3.  
 407 The Resource Messages can be used in three phases of resource management:  
 408
  - Discovery,
  - Ordering, and
  - Deployment, as shown in Figure 3.
 411 The Discovery phase enables Resource Consumers to find out about available resources, including their  
 412 costs, and offers of resources from Resource Suppliers.  
 413 The Ordering phase enables Resource Consumers to explicitly requisition Resources from Resource  
 414 Suppliers.  
 415 The Deployment phase enables both actors to find out about the current status of resources in the field,  
 416 request extensions and returns.  
 417 It is important to note that this specification does not mandate an exact order and workflow of Resource  
 418 Messages. For example, the Ordering phase may actually only require the CommitResource message for  
 419 some actors.



420  
421  
422  
423

Figure 3: Resource Message Phases

424 Table 2 (below) summarizes all the Message Types and their element contents. The specific details on  
 425 each of the Message Types are outlined in the following sections.

426

427 *Table 2: Resource Message Type – Element Matrix (Key: R = Required, C = Conditional, O = Optional)*  
 428 *N/A – Not Applicable to the message type)*

429

Schema Element	Message Element												ResponseToRequest	ExtendedDeploymentDuration
	RequestResource	ResponseToRequest	ReleaseResource	RequestQuote	RequestReturn	ResponseToRequest	ReportResourceDeploymentStatus	RequestResourceDeploymentStatus	ResponseToRequest	RequestResourceDeploymentStatus	ResponseToRequest	RequestResourceDeploymentStatus	ResponseToRequest	RequestResourceDeploymentStatus
Resource Message	MessageID	R	R	R	R	R	R	R	R	R	R	R	R	R
	SentDateTime	R	R	R	R	R	R	R	R	R	R	R	R	R
	MessageContentType	R	R	R	R	R	R	R	R	R	R	R	R	R
	MessageDescription	O	O	O	O	R	O	O	O	O	O	O	O	O
	OriginatingMessageID	R	R	R	R	R	R	R	R	R	R	R	R	R
	PrecedingMessageID	N/A	R	O	R	O	R	N/A	O	O	R	O	O	O
	Incident Information	O	O	O	O	O	O	O	O	O	O	O	O	O
	MessageRecall	O	O	O	O	O	O	O	O	O	O	O	O	O
	Funding	O	O	R	O	O	O	N/A	O	O	O	O	O	O
	ContactInformation	R	R	R	R	R	R	R	R	R	R	R	R	R
Incident Information	Resource Information	R	R	R	R	O	O	R	R	R	R	R	R	R
	IncidentID	C	C	C	C	C	C	C	C	C	C	C	C	C
Message Recall	IncidentDescription	C	C	C	C	C	C	C	C	C	C	C	C	C
	RecalledMessageID	R	R	R	R	R	R	R	R	R	R	R	R	R
Funding	RecallType	R	R	R	R	R	R	R	R	R	R	R	R	R
	FundCode	C	C	C	C	C	N/A	C	C	C	C	C	C	C
Resource Information	FundingInfo	C	C	C	C	C	N/A	C	C	C	C	C	C	C
	ResourceInfoElementID	R	R	R	R	R	R	R	R	R	R	R	R	R
	Response Information	N/A	R	N/A	R	N/A	O	N/A	O	N/A	R	O	R	N/A
	Resource	R	O	R	C	O	O	R	R	R	O	R	C	R
	AssignmentInformation	O	O	R	C	O	O	O	O	O	O	O	O	O
Response Information	Schedule Information	O	O	O	C	O	O	O	O	O	O	O	O	O
	PrecedingResourceInfoElementID	N/A	R	N/A	R	N/A	R	N/A	R	R	R	N/A	R	N/A
	ResponseType	N/A	R	N/A	R	N/A	R	N/A	R	R	R	N/A	R	N/A
	ReasonCode	N/A	C	N/A	C	N/A	C	N/A	C	C	C	N/A	C	N/A
Resource	ResponseReason	N/A	C	N/A	C	N/A	C	N/A	C	C	C	N/A	C	N/A
	ResourceID	C	C	C	C	C	C	C	C	C	C	C	C	C
	Name	C	C	C	C	C	C	C	C	C	C	C	C	C
	TypeStructure	C	C	C	C	C	C	C	C	C	C	C	C	C
	TypeInfo	O	O	O	O	O	O	O	O	O	O	O	O	O
	Keyword	O	O	O	O	O	O	O	O	O	O	O	O	O
	Description	O	O	O	O	O	O	O	O	O	O	O	O	O
	Credentials	O	O	O	O	O	O	O	O	O	O	O	O	O
	Certifications	O	O	O	O	O	O	O	O	O	O	O	O	O
	SpecialRequirements	O	O	O	O	O	O	O	O	O	O	O	O	O
Ownership Information	ResponsibleParty	N/A	O	O	O	O	O	O	O	O	O	O	O	O
	OwnershipInformation	N/A	O	O	O	O	O	O	O	O	O	O	O	O
	Resource Status	N/A	O	N/A	O	O	O	O	O	R	N/A	O	NA	O
	Owner	N/A	C	C	C	C	C	C	C	C	C	C	C	C
Ownership Information	OwningJurisdiction	N/A	C	C	C	C	C	C	C	C	C	C	C	C
	HomeDispatch	N/A	O	O	O	O	O	O	O	O	O	O	O	O
	HomeUnit	N/A	O	O	O	O	O	O	O	O	O	O	O	O

Schema Element	Message Element															
Resource Status	InventoryRefreshDateTime	N/A	O	N/A	O	O	O	O	N/A	N/A	N/A	O	N/A	O	N/A	N/A
	DeploymentStatus	N/A	O	N/A	O	O	O	O	O	O	R	N/A	O	N/A	O	O
	Availability	N/A	O	N/A	N/A	O	O	O	O	O	R	N/A	O	N/A	O	O
Assignment Information	Quantity	O	C	R	R	O	O	O	R	O	O	O	O	O	O	O
	Restrictions	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	AnticipatedFunction	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	PriceQuote	N/A	O	O	O	O	O	O	O	O	O	N/A	R	O	O	O
	OrderID	N/A	N/A	N/A	O	O	O	N/A	O	O	O	N/A	N/A	O	O	O
Assignment Instructions	AssignmentInstructions	N/A	O	O	O	O	O	O	O	O	O	O	O	O	N/A	O
	ModeOfTransportation	N/A	O	O	O	O	O	O	O	O	O	O	O	O	N/A	O
	NavigationInstructions	N/A	O	O	O	O	O	O	O	O	O	O	O	O	N/A	O
Schedule Information	ReportingInstructions	N/A	O	O	O	O	O	O	O	O	O	O	O	O	N/A	O
	ScheduleType	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	DateTime	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
	Location	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

430

431

Table 3: ScheduleTypes – Message Matrix

<b>ResponseToRequestExtendedDeploymentDuration</b>	x x x x x x x x x x x x x x x x
<b>RequestExtendedDeploymentDuration</b>	x x x x x x x x x x x x x x x x
<b>ReportResourceDeploymentStatus</b>	x x x x x x x x x x x x x x x x
<b>RequestResourceDeploymentStatus</b>	x x x x x x x x x x x x x x x x
<b>ResponseToRequestQuote</b>	x x x x x x x x x x x x x x x x
<b>RequestQuote</b>	x x x x x x x x x x x x x x x x
<b>ResponseToRequestReturn</b>	x x x x x x x x x x x x x x x x
<b>RequestReturn</b>	x x x x x x x x x x x x x x x x
<b>ReleaseResource</b>	x x x x x x x x x x x x x x x x
<b>OfferUnsolicitedResource</b>	x x x x x x x x x x x x x x x x
<b>ResponseToRequestInformation</b>	x x x x x x x x x x x x x x x x
<b>RequestInformation</b>	x x x x x x x x x x x x x x x x
<b>CommitResource</b>	x x x x x x x x x x x x x x x x
<b>RequisitionResource</b>	x x x x x x x x x x x x x x x x
<b>ResponseToRequestResource</b>	x x x x x x x x x x x x x x x x
<b>RequestResource</b>	x x x x x x x x x x x x x x x x
<b>RequestedArrival</b>	x x x x x x x x x x x x x x x x
<b>EstimatedArrival</b>	x x x x x x x x x x x x x x x x
<b>ActualArrival</b>	x x x x x x x x x x x x x x x x
<b>RequestedDeparture</b>	x x x x x x x x x x x x x x x x
<b>EstimatedDeparture</b>	x x x x x x x x x x x x x x x x
<b>ActualDeparture</b>	x x x x x x x x x x x x x x x x
<b>RequestedReturnArrival</b>	x x x x x x x x x x x x x x x x
<b>EstimatedReturnArrival</b>	x x x x x x x x x x x x x x x x
<b>ActualReturnArrival</b>	x x x x x x x x x x x x x x x x
<b>RequestedReturnDeparture</b>	x x x x x x x x x x x x x x x x
<b>EstimatedReturnDeparture</b>	x x x x x x x x x x x x x x x x
<b>ActualReturnDeparture</b>	x x x x x x x x x x x x x x x x
<b>Committed</b>	x x x x x x x x x x x x x x x x
<b>BeginAvailable</b>	x x x x x x x x x x x x x x x x
<b>EndAvailable</b>	x x x x x x x x x x x x x x x x
<b>Current</b>	x x x x x x x x x x x x x x x x
<b>ReportTo</b>	x x x x x x x x x x x x x x x x
<b>Route</b>	x x x x x x x x x x x x x x x x

435 **3.4 RequestResource Message**

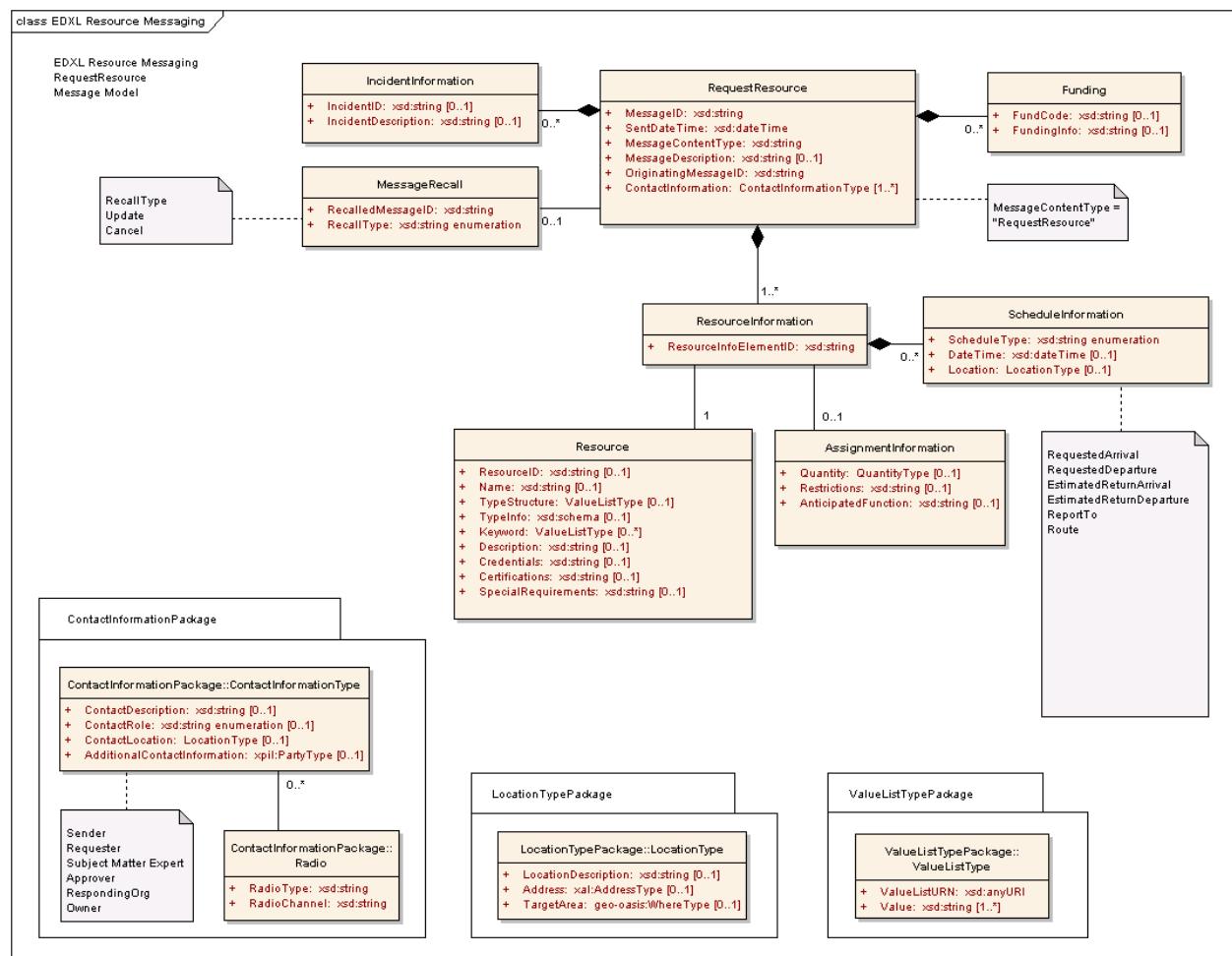
436 **3.4.1 Overview**

437 The “RequestResource” message is used as an announcement to a broad audience of potential suppliers  
 438 as well as potential suppliers in the local geographic area of interest. It is intended to be used by  
 439 Emergency Managers, Incident Commanders and other First Responders to request information on  
 440 availability of needed resources.

441 **3.4.2 Element Reference Model**

442 Figure 4 below shows the EDXL–RM Element Reference Model (ERM) tailored for the RequestResource  
 443 Message. The ERM shows the element-level details for the main entities in the RM.

444



445  
 446 *Figure 4: EDXL-RM ERM for RequestResource Message*

447 The following table outlines the element cardinalities for this message type, as follows:

- 448 – **bold** indicates an element that is required
- 449 – *italics* indicate an element that is conditional (the applicable rules for these elements appear  
 450 below the table)
- 451 – an asterisk (\*) indicates that an element can appear multiple times

452 – a caret symbol (^) indicates that the values of an element are constrained, as per the rules shown  
453 below the table.

454 All elements that are not shown in bold or italics are optional.

455

456 *Table 4: RequestResource Message Elements*

Parent Element	Sub-Elements
RequestResource	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , <b>MessageDescription</b> , <b>OriginatingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>Resource</b> , <b>AssignmentInformation</b> , <b>ScheduleInformation</b> <sup>*</sup>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i>
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , <i>DateTime</i> , Location

457 

### 3.4.3 RequestResource Message Rules

458 The following rules apply to the above elements: The following notation is used throughout this document:  
459 a colon is used as a separator between the name of an element and the name of a child of that element.

- 460 • The RequestResource:MessageID, RequestResource:SentDateTime,  
461 RequestResource:MessageContentType, RequestResource:OriginatingMessageID,  
462 RequestResource:ContactInformation, and RequestResource:ResourceInformation elements  
463 MUST be present.
- 464 • The value of RequestResource:MessageContentType MUST be “RequestResource”.
- 465 • If a RequestResource:IncidentInformation element is present, then at least one of  
466 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription MUST be present.
- 467 • If the RequestResource:MessageRecall element is present, then the  
468 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 469 • If a RequestResource:Funding element is present, then at least one of Funding:FundCode and/or  
470 Funding:FundingInfo MUST be present.
- 471 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements  
472 MUST be present.
- 473 • At least one of Resource:ResourceID, Resource:Name and/or Resource:TypeStructure MUST be  
474 present.
- 475 • If the ResourceInformation:ScheduleInformation element is present, then the  
476 ScheduleInformation:ScheduleType MUST be present and contain one of the following values:  
477 • “RequestedArrival”, “RequestedDeparture”, “EstimatedReturnDeparture”,  
478 “EstimatedReturnArrival”, “ReportTo”, or “Route”.

479

480 The schema for a RequestResource message can be found in Appendix A.3.

#### 481 **3.4.4 Message Flow**

482 The RequestResource message is an initial message created and sent by the Resource Consumer to  
483 any number of Resource Suppliers.

484 The potential responses to this message include:

- 485     • ResponseToRequestResource (See Section 3.5)
- 486     • Response may include Accept, Decline, and Provisional responses.

487 The message may be canceled or updated through the RequestResource:MessageRecall element.

#### 488 **3.4.5 Message Example**

489 Below is an example of a RequestResource Message, in which three resource requests are shown:

- 490     • Small Animal Sheltering Team (ResourceInfoElementID=001)
- 491     • Patrol and Surveillance Helicopters (ResourceInfoElementID =002)
- 492     • Electrical Power Restoration Team (ResourceInfoElementID =003).

493

494 [Note: The XML example shown in this section is informative only.]

```
495 <?xml version="1.0" encoding="UTF-8"?>
496 <RequestResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
497   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
498     EDXL-RMRequestResource.xsd"
499   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
500   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
501   xmlns:xpil="urn:oasis:names:tc:cinq:xpil:3"
502   xmlns:xnl="urn:oasis:names:tc:cinq:xnl:3" xmlns:xal="urn:oasis:names:tc:cinq:xal:3"
503   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
504   xmlns:gml="http://www.opengis.net/gml">
505   <MessageID>urn:au-qld-eoc:12332</MessageID>
506   <SentDateTime>2006-03-21T11:58:00+10:00</SentDateTime>
507   <MessageContentType>RequestResource</MessageContentType>
508   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
509   <IncidentInformation>
510     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
511   </IncidentInformation>
512   <ContactInformation>
513     <rm:ContactRole>Sender</rm:ContactRole>
514     <rm:AdditionalContactInformation>
515       <xpil:PartyName>
516         <xnl:PersonName>
517           <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
518           <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
519         </xnl:PersonName>
520         <xnl:OrganisationName>
521           <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
522         </xnl:OrganisationName>
523       </xpil:PartyName>
524       <xpil:ContactNumbers>
525         <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
526           xpil:ContactHours="9:00AM - 5:00PM"
527           <xpil:ContactNumberElement
528             xpil:Type="CountryCode">61</xpil:ContactNumberElement>
529             <xpil:ContactNumberElement xpil:Type="AreaCode"></xpil:ContactNumberElement>
530             <xpil:ContactNumberElement xpil:Type="LocalNumber">
531               3000
532               1234
533             </xpil:ContactNumberElement>
534           </xpil:ContactNumber>
535         </xpil:ContactNumbers>
536         <xpil:ElectronicAddressIdentifiers>
```

```

537      <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
538      </xpil:ElectronicAddressIdentifier>
539      </xpil:ElectronicAddressIdentifiers>
540      </rm:AdditionalContactInformation>
541  </ContactInformation>
542  <ResourceInformation>
543    <ResourceInfoElementID>001</ResourceInfoElementID>
544    <Resource>
545      <TypeStructure>
546        <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
547        <rm:Value>Small Animal Sheltering Team</rm:Value>
548      </TypeStructure>
549      <Description>
550        5-person response team to advise and support local efforts to set up a
551        small animal shelter
552      </Description>
553      <SpecialRequirements>A qualified veterinary surgeon</SpecialRequirements>
554    </Resource>
555    <AssignmentInformation>
556      <Quantity>
557        <rm:MeasuredQuantity>
558          <rm:Amount>1</rm:Amount>
559        </rm:MeasuredQuantity>
560      </Quantity>
561    </AssignmentInformation>
562    <ScheduleInformation>
563      <ScheduleType>RequestedArrival</ScheduleType>
564      <DateTime>2006-03-24T09:00:00+10:00</DateTime>
565      <Location>
566        <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
567        <rm:Address>
568          <xal:Country>
569            <xal:NameElement>Australia</xal:NameElement>
570          </xal:Country>
571          <xal:AdministrativeArea>
572            <xal:NameElement>QLD</xal:NameElement>
573          </xal:AdministrativeArea>
574          <xal:Locality>
575            <xal:NameElement>Innisfail</xal:NameElement>
576          </xal:Locality>
577          <xal:Thoroughfare>
578            <xal:NameElement>Downing St</xal:NameElement>
579            <xal:Number>27</xal:Number>
580          </xal:Thoroughfare>
581          <xal:PostCode>
582            <xal:Identifier>4860</xal:Identifier>
583          </xal:PostCode>
584        </rm:Address>
585      </Location>
586    </ScheduleInformation>
587    <ScheduleInformation>
588      <ScheduleType>EstimatedReturnDeparture</ScheduleType>
589      <DateTime>2006-03-30T17:00:00+10:00</DateTime>
590    </ScheduleInformation>
591  </ResourceInformation>
592  <ResourceInformation>
593    <ResourceInfoElementID>002</ResourceInfoElementID>
594    <Resource>
595      <TypeStructure>
596        <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
597        <rm:Value>Patrol and Surveillance Helicopters</rm:Value>
598      </TypeStructure>
599    </Resource>
600    <AssignmentInformation>
601      <Quantity>
602        <rm:MeasuredQuantity>
603          <rm:Amount>3</rm:Amount>
604        </rm:MeasuredQuantity>
605      </Quantity>
606      <AnticipatedFunction>
607        Aerial surveillance to determine extent of

```

```
608      flooding
609    </AnticipatedFunction>
610  </AssignmentInformation>
611  <ScheduleInformation>
612    <ScheduleType>RequestedArrival</ScheduleType>
613    <DateTime>2006-03-22T09:00:00+10:00</DateTime>
614    <Location>
615      <rm:LocationDescription>Innisfail airport</rm:LocationDescription>
616    </Location>
617  </ScheduleInformation>
618  </ResourceInformation>
619  <ResourceInformation>
620    <ResourceInfoElementID>003</ResourceInfoElementID>
621    <Resource>
622      <TypeStructure>
623        <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
624        <rm:Value>Electrical Power Restoration Team</rm:Value>
625      </TypeStructure>
626    </Resource>
627  <AssignmentInformation>
628    <Quantity>
629      <rm:MeasuredQuantity>
630        <rm:Amount>2</rm:Amount>
631      </rm:MeasuredQuantity>
632    </Quantity>
633    <AnticipatedFunction>
634      Restore power to critical infrastructure in and around the
635      Innisfail area
636    </AnticipatedFunction>
637  </AssignmentInformation>
638  <ScheduleInformation>
639    <ScheduleType>RequestedArrival</ScheduleType>
640    <DateTime>2006-03-22T08:00:00+10:00</DateTime>
641    <Location>
642      <rm:TargetArea>
643        <gml:Point>
644          <gml:pos> 146.03 -17.53 </gml:pos>
645        </gml:Point>
646      </rm:TargetArea>
647    </Location>
648  </ScheduleInformation>
649  </ResourceInformation>
650</RequestResource>
```

651

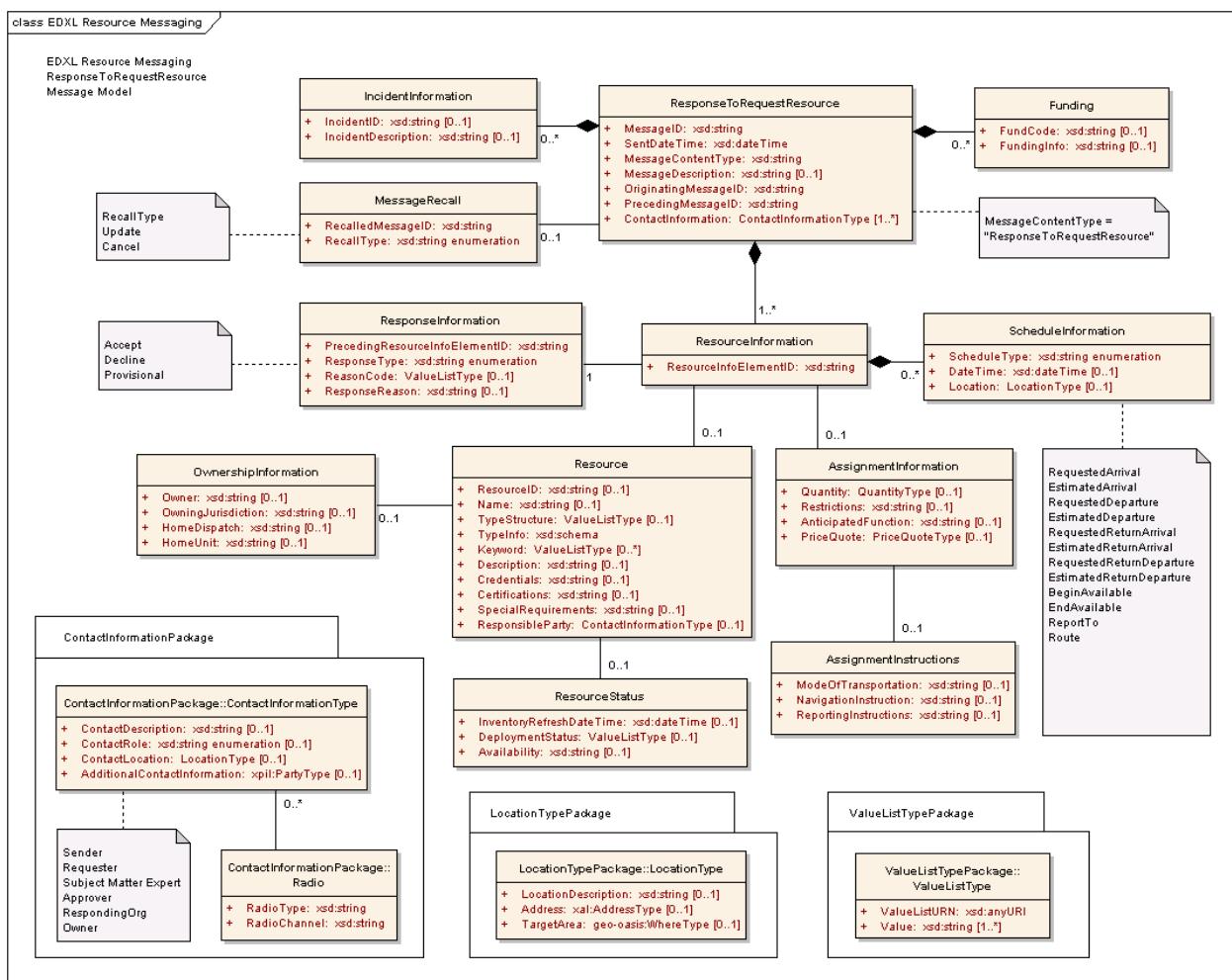
652 **3.5 ResponseToRequestResource Message**

653 **3.5.1 Overview**

654 The “ResponseToRequestResource” message is used by potential resource suppliers (e.g. mutual aid  
 655 partners, equipment suppliers, etc.) to respond to RequestResource messages from Emergency  
 656 Managers, Incident Commanders and First Responders or others with logistics responsibilities. The  
 657 response may identify availability, limitations and other pertinent information related to resources in the  
 658 original request.

659 **3.5.2 Element Reference Model**

660 Figure 5 below shows the EDXL-RM Element Reference Model (ERM) tailored for the  
 661 ResponseToRequestResource Message. The ERM shows the element-level details for the main entities  
 662 in the RM.



663  
 664 *Figure 5: EDXL-RM ERM for ResponseToRequestResource Message*

665  
 666

667 The following table outlines the element cardinalities for this message type.

668

669 *Table 4: ResponseToRequestResource Message Elements*

Parent Element	Sub-Elements
ResponseToRequestResource	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , MessageDescription, <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>ResponseInformation</b> , Resource, AssignmentInformation, ScheduleInformation <sup>*</sup>
ResponseInformation	<b>PrecedingResourceInfoElementID</b> , <b>ResponseType</b> , <i>ReasonCode</i> , <i>ResponseReason</i>
Resource	<i>ResourceID</i> , Name, <i>TypeStructure</i> , <i>TypeInfo</i> , Keyword <sup>*</sup> , Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , HomeDispatch, HomeUnit
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssignmentInformation	<i>Quantity</i> , Restrictions, AnticipatedFunction, PriceQuote, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , DateTime, Location

670

### 671 3.5.3 ResponseToRequestResource Message Rules

672 The following rules apply to the above elements:

- 673 • The ResponseToRequestResource:MessageID, ResponseToRequestResource:SentDateTime,  
674 ResponseToRequestResource:MessageContentType,  
675 ResponseToRequestResource:OriginatingMessageID,  
676 ResponseToRequestResource:PrecedingMessageID,  
677 ResponseToRequestResource:ContactInformation, and  
678 ResponseToRequestResource:ResourceInformation elements MUST be present.
- 679 • The value of ResponseToRequestResource:MessageContentType MUST be  
680 “ResponseToRequestResource”.
- 681 • If a ResponseToRequestResource:IncidentInformation element is present, then at least one of  
682 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription MUST be present.
- 683 • If the ResponseToRequestResource:MessageRecall element is present, then the  
684 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 685 • If a ResponseToRequestResource:Funding element is present, then at least one of  
686 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.

- The ResourceInformation:ResourceInfoElementID and ResourceInformation:ResponseInformation elements MUST be present.
- The ResponseInformation:PrecedingResourceInfoElementID and ResponseInformation:ResponseType elements MUST be present.
- At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be present.
- If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element MUST be present.
- If Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction element MUST be present.
- If the ResourceInformation:AssignmentInformation element is present and the ResponseInformation:ResponseType contains a value of “Accept” or “Provisional”, then the AssignmentInformation:Quantity element MUST be present.
- If ResourceInformation:ScheduleInformation is present then ScheduleInformation:ScheduleType MUST be present and contain one of the following values:
  - “EstimatedArrival”, “EstimatedDeparture”, “RequestedReturnDeparture”, “RequestedReturnArrival”, “BeginAvailable”, “EndAvailable”, “RequestedArrival”, “RequestedDeparture”, “EstimatedReturnArrival”, “ReportTo” or “Route”.

The schema for a ResponseToRequestResource message can be found in Appendix A.4.

### 3.5.4 Message Flow

The ResponseToRequestResource message is sent by a Resource Supplier in response to an original RequestResource message.

The potential responses to this message include:

- RequisitionResource (See Section 3.6).

The message may be canceled or updated through the ResponseToRequestResource:MessageRecall element.

### 3.5.5 Message Example

Below is an example of a ResponseToRequestResource Message. This is an example response to the original request shown in Section 3.4.5 . In this example, the three requests have different responses:

- The “Small Animal Sheltering Team” (ResourceInfoElementID=001) has Conditional changes to the request. In this case the Schedule information is different from that requested.
- The “Patrol and Surveillance Helicopters” (ResourceInfoElementID=002) is Declined.
- The “Electrical Power Restoration Team” (ResourceInfoElementID=003) is Accepted.

[Note: The XML example shown in this section is informative only.]

```

<?xml version="1.0" encoding="UTF-8"?>
<ResponseToRequestResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
        EDXL-RMResponseToRequestResource.xsd"
    xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
    xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
    xmlns:xpil="urn:oasis:names:tc:cii:xpil:3"
    xmlns:xnl="urn:oasis:names:tc:cii:xnl:3" xmlns:xal="urn:oasis:names:tc:cii:xal:3"
    xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"

```

```

734      xmlns:gml="http://www.opengis.net/gml">
735      <MessageID>urn:au-qld-eoc:12334</MessageID>
736      <SentDateTime>2006-03-21T12:34:00+10:00</SentDateTime>
737      <MessageContentType>ResponseToRequestResource</MessageContentType>
738      <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
739      <PrecedingMessageID>urn:au-qld-eoc:12332</PrecedingMessageID>
740      <IncidentInformation>
741          <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
742      </IncidentInformation>
743      <ContactInformation>
744          <rm:ContactRole>Sender</rm:ContactRole>
745          <rm:AdditionalContactInformation>
746              <xpil:PartyName>
747                  <xnl:PersonName>
748                      <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
749                      <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
750                  </xnl:PersonName>
751                  <xnl:OrganisationName>
752                      <xnl:NameElement>EMA</xnl:NameElement>
753                  </xnl:OrganisationName>
754              </xpil:PartyName>
755              <xpil:ContactNumbers>
756                  <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
757                      <xpil>ContactNumberElement
758                          xpil>Type="CountryCode">61</xpil>ContactNumberElement>
759                      <xpil>ContactNumberElement xpil>Type="AreaCode">2</xpil>ContactNumberElement>
760                      <xpil>ContactNumberElement xpil>Type="LocalNumber">
761                          9864
762                          4321
763                      </xpil>ContactNumberElement>
764                  </xpil>ContactNumber>
765              </xpil:ContactNumbers>
766          </rm:AdditionalContactInformation>
767      </ContactInformation>
768      <ResourceInformation>
769          <ResourceInfoElementID>001</ResourceInfoElementID>
770          <ResponseInformation>
771              <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
772              <rm:ResponseType>Provisional</rm:ResponseType>
773              <rm:ResponseReason>Earliest arrival date is 2006-03-25</rm:ResponseReason>
774          </ResponseInformation>
775          <ScheduleInformation>
776              <ScheduleType>EstimatedDeparture</ScheduleType>
777              <DateTime>2006-03-25T08:10:00</DateTime>
778              <Location>
779                  <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
780              </Location>
781          </ScheduleInformation>
782          <ScheduleInformation>
783              <ScheduleType>EstimatedArrival</ScheduleType>
784              <DateTime>2006-03-25T09:00:00+10:00</DateTime>
785              <Location>
786                  <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
787              </Location>
788          </ScheduleInformation>
789          <ScheduleInformation>
790              <ScheduleType>EstimatedArrival</ScheduleType>
791              <DateTime>2006-03-25T09:30:00+10:00</DateTime>
792              <Location>
793                  <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
794                  <rm:Address>
795                      <xal:Country>
796                          <xal:NameElement>Australia</xal:NameElement>
797                      </xal:Country>
798                      <xal:AdministrativeArea>
799                          <xal:NameElement>QLD</xal:NameElement>
800                      </xal:AdministrativeArea>
801                      <xal:Locality>
802                          <xal:NameElement>Innisfail</xal:NameElement>
803                      </xal:Locality>
804                      <xal:Thoroughfare>

```

```
805      <xal:NameElement>Downing St</xal:NameElement>
806      <xal:NameElement>27</xal:NameElement>
807    </xal:Thoroughfare>
808    <xal:PostCode>
809      <xal:Identifier>4860</xal:Identifier>
810    </xal:PostCode>
811    </rm:Address>
812  </Location>
813  </ScheduleInformation>
814 </ResourceInformation>
815 <ResourceInformation>
816   <ResourceInfoElementID>002</ResourceInfoElementID>
817   <ResponseInformation>
818     <crm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>
819     <rm:ResponseType>Accept</rm:ResponseType>
820   </ResponseInformation>
821 </ResourceInformation>
822 <ResourceInformation>
823   <ResourceInfoElementID>003</ResourceInfoElementID>
824   <ResponseInformation>
825     <crm:PrecedingResourceInfoElementID>003</rm:PrecedingResourceInfoElementID>
826     <rm:ResponseType>Decline</rm:ResponseType>
827   </ResponseInformation>
828 </ResourceInformation>
829 </ResponseToRequestResource>
```

830

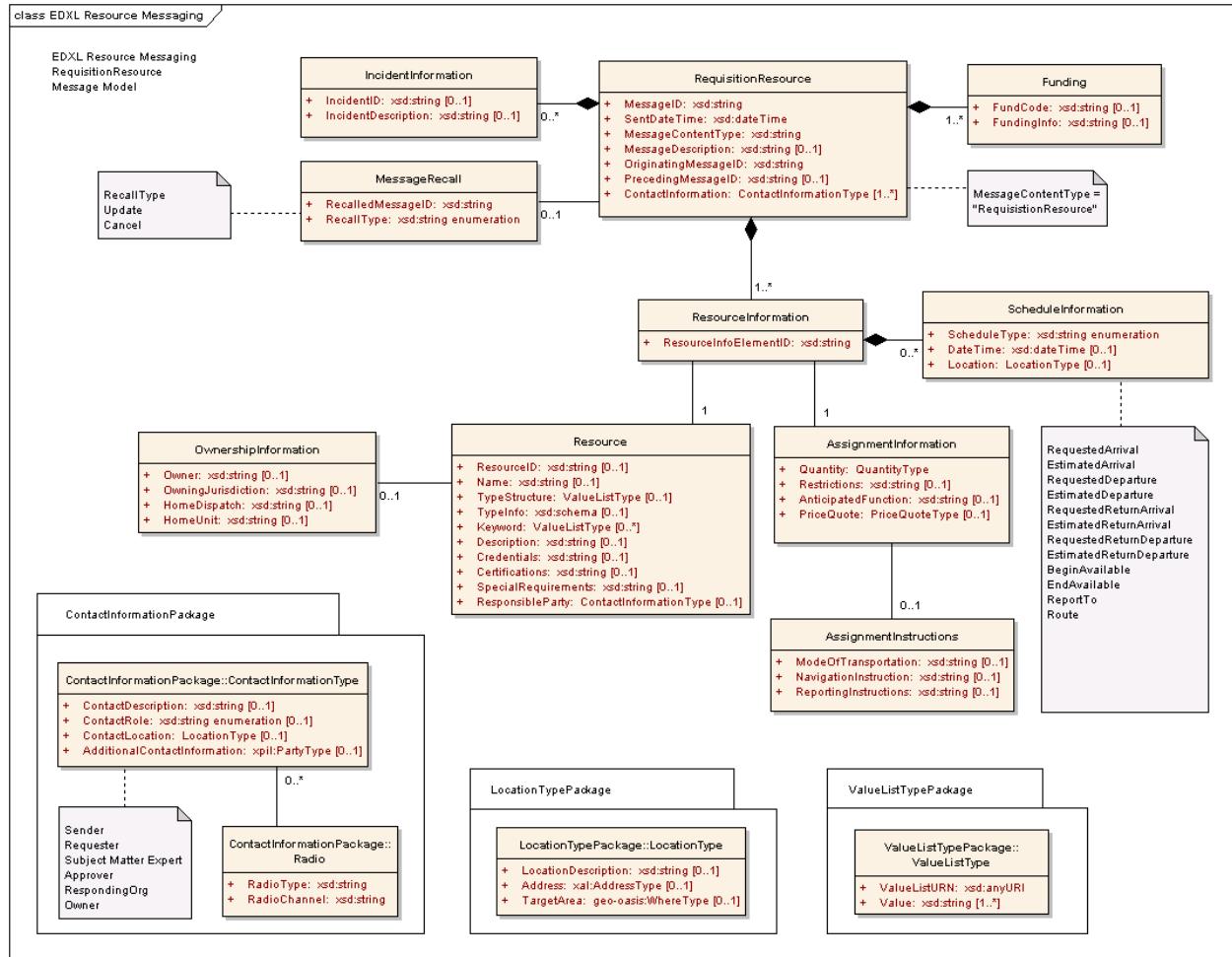
## 831 3.6 RequisitionResource Message

### 832 3.6.1 Overview

833 The “RequisitionResource” message is used by Resource Consumers to order resources from Resource Suppliers. These may relate to one or more responses to a previous Request Resource message.

### 835 3.6.2 Element Reference Model

836 Figure 6 below shows the EDXL–RM Element Reference Model (ERM) tailored for the  
837 RequisitionResource Message. The ERM shows the element-level details for the main entities in the RM.



838  
839 *Figure 6: EDXL-RM ERM for RequisitionResource Message*

840

841

842 The following table outlines the element cardinalities for this message type.

843

844 *Table 5: RequisitionResource Message Elements*

Parent Element	Sub-Elements
RequisitionResource	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , <b>MessageDescription</b> , <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>Resource</b> , <b>AssignmentInformation</b> , <b>ScheduleInformation</b> <sup>*</sup>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <b>Keyword</b> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
AssignmentInformation	<b>Quantity</b> , <i>Restrictions</i> , <i>AnticipatedFunction</i> , <i>PriceQuote</i> , <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , <i>DateTime</i> , <i>Location</i>

845

### 846 3.6.3 RequisitionResource Message Rules

847 The following rules apply to the above elements:

- 848 • The RequisitionResource:MessageID, RequisitionResource:SentDateTime, RequisitionResource:MessageContentType, RequisitionResource:OriginatingMessageID, RequisitionResource:Funding, RequisitionResource:ContactInformation, and RequisitionResource:ResourceInformation elements MUST be present.
- 849 • The value of RequisitionResource:MessageContentType MUST be “RequisitionResource”.
- 850 • If a RequisitionResource:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be present.
- 851 • If the RequisitionResource:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 852 • If a RequisitionResource:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 853 • The ResourceInformation:ResourceInfoElementID, ResourceInformation:Resource and ResourceInformation:AssignmentInformation elements MUST be present.
- 854 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be present.

- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- The AssignmentInformation:Quantity element MUST be present.
- If ResourceInformation:ScheduleInformation is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - “RequestedArrival”, “RequestedDeparture”, “EstimatedArrival”, “EstimatedDeparture”, “RequestedReturnArrival”, “EstimatedReturnArrival”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “BeginAvailable”, “EndAvailable”, “ReportTo”, or “Route”

The schema for a RequisitionResource message can be found in Appendix A.5.

### 3.6.4 Message Flow

The RequisitionResource message is a message created and sent by the Resource Consumer to any number of Resource Suppliers.

The potential responses to this message include:

- CommitResource (See Section 3.7)
- This includes Accept, Decline and Provisional responses.

The message may be canceled or updated through the RequisitionResource:MessageRecall element.

### 3.6.5 Message Example

Below is an example of a RequisitionResource Message, in which two resource requisitions are shown:

- Small Animal Sheltering Team (ResourceInfoElementID=001)
- Patrol and Surveillance Helicopters (ResourceInfoElementID=002).

[Note: The XML example shown in this section is informative only.]

```

889 <?xml version="1.0" encoding="UTF-8"?>
890 <RequisitionResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
891   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
892     EDXL-RMRequisitionResource.xsd"
893   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
894   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
895   xmlns:xpil="urn:oasis:names:tc:ciiq:xpil:3"
896   xmlns:xnl="urn:oasis:names:tc:ciiq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciiq:xal:3"
897   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
898   xmlns:gml="http://www.opengis.net/gml">
899   <MessageID>urn:au-qld-eoc:987654</MessageID>
900   <SentDateTime>2006-03-21T12:39:00+10:00</SentDateTime>
901   <MessageContentType>RequisitionResource</MessageContentType>
902   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
903   <IncidentInformation>
904     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
905   </IncidentInformation>
906   <Funding>
907     <rm:FundCode>HP4347</rm:FundCode>
908   </Funding>
909   <ContactInformation>
910     <rm>ContactRole>Requester</rm>ContactRole>
911     <rm:AdditionalContactInformation>
912       <xpil:PartyName>
913         <xnl:PersonName>
914           <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
915           <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
```

```

916      </xn1:PersonName>
917      <xn1:OrganisationName>
918          <xn1:NameElement>Dept of Emergency Services</xn1:NameElement>
919      </xn1:OrganisationName>
920      <xpil:PartyName>
921      <xpil:ContactNumbers>
922          <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
923              xpil:ContactHours="9:00AM - 5:00PM"
924              <xpil:ContactNumberElement
925                  xpil>Type="CountryCode">61</xpil:ContactNumberElement>
926              <xpil:ContactNumberElement xpil>Type="AreaCode">7</xpil:ContactNumberElement>
927              <xpil:ContactNumberElement xpil>Type="LocalNumber">
928                  3000
929                  1234
930              </xpil:ContactNumberElement>
931          </xpil:ContactNumber>
932      <xpil:ContactNumbers>
933          <xpil:ElectronicAddressIdentifiers>
934              <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
935          </xpil:ElectronicAddressIdentifier>
936          </xpil:ElectronicAddressIdentifiers>
937      </rm:AdditionalContactInformation>
938      </ContactInformation>
939      <ContactInformation>
940          <rm>ContactRole>Approver</rm>ContactRole>
941          <rm:AdditionalContactInformation>
942              <xpil:PartyName>
943                  <xn1:PersonName>
944                      <xn1:NameElement xn1:ElementType="FirstName">Michelle</xn1:NameElement>
945                      <xn1:NameElement xn1:ElementType="LastName">Yates</xn1:NameElement>
946                  </xn1:PersonName>
947                  <xn1:OrganisationName>
948                      <xn1:NameElement>QLD Police</xn1:NameElement>
949                  </xn1:OrganisationName>
950              </xpil:PartyName>
951              <xpil:ContactNumbers>
952                  <xpil:ContactNumber xpil:CommunicationMediaType="Cellphone">
953                      <xpil:ContactNumberElement xpil>Type="NationalNumber">
954                          0422 877
955                          665
956                  </xpil:ContactNumberElement>
957              </xpil:ContactNumber>
958          </xpil:ContactNumbers>
959          <xpil:Occupations>
960              <xpil:Occupation>
961                  <xpil:OccupationElement xpil>Type="Role">
962                      District Disaster
963                      Coordinator
964                  </xpil:OccupationElement>
965              </xpil:Occupation>
966          </xpil:Occupations>
967      </rm:AdditionalContactInformation>
968      </ContactInformation>
969      <ResourceInformation>
970          <ResourceInfoElementID>001</ResourceInfoElementID>
971          <Resource>
972              <TypeStructure>
973                  <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
974                  <rm:Value>Small Animal Sheltering Team</rm:Value>
975              </TypeStructure>
976              <Description>
977                  5-person response team to advise and support local efforts to set up a
978                  small animal shelter
979              </Description>
980              <SpecialRequirements>A qualified veterinary surgeon</SpecialRequirements>
981          </Resource>
982          <AssignmentInformation>
983              <Quantity>
984                  <rm:MeasuredQuantity>
985                      <rm:Amount>1</rm:Amount>
986                  </rm:MeasuredQuantity>

```

```

987    </Quantity>
988    <AssignmentInstructions>
989      <rm:ReportingInstructions>
990        Report to Mark Darcy, Innisfail Animal
991        Refuge
992      </rm:ReportingInstructions>
993    </AssignmentInstructions>
994    <ScheduleInformation>
995      <ScheduleType>EstimatedArrival</ScheduleType>
996      <DateTime>2006-03-25T09:30:00+10:00</DateTime>
997      <Location>
998        <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
999      </Location>
1000    </ScheduleInformation>
1001    <ScheduleInformation>
1002      <ScheduleType>EstimatedReturnDeparture</ScheduleType>
1003      <DateTime>2006-03-30T17:00:00+10:00</DateTime>
1004    </ScheduleInformation>
1005  </ResourceInformation>
1006  <ResourceInformation>
1007    <ResourceInfoElementID>002</ResourceInfoElementID>
1008    <Resource>
1009      <TypeStructure>
1010        <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1011        <rm:Value>Patrol and Surveillance Helicopters</rm:Value>
1012      </TypeStructure>
1013    </Resource>
1014  <AssignmentInformation>
1015    <Quantity>
1016      <rm:MeasuredQuantity>
1017        <rm:Amount>3</rm:Amount>
1018      </rm:MeasuredQuantity>
1019    </Quantity>
1020    <AnticipatedFunction>
1021      Aerial surveillance to determine extent of
1022      flooding
1023    </AnticipatedFunction>
1024  </AssignmentInformation>
1025  <ScheduleInformation>
1026    <ScheduleType>RequestedArrival</ScheduleType>
1027    <DateTime>2006-03-22T09:00:00+10:00</DateTime>
1028    <Location>
1029      <rm:LocationDescription>Innisfail airport</rm:LocationDescription>
1030      </Location>
1031    </ScheduleInformation>
1032  </ResourceInformation>
1033</RequisitionResource>

```

1035

1036

1037 **3.7 CommitResource Message**

1038 **3.7.1 Overview**

1039 The “CommitResource” message is used by a Resource Supplier to confirm that resources have been  
 1040 committed to a Resource Consumer request. Usually, the CommitResource is in response to a  
 1041 RequisitionResource, or even a RequestResource. The CommitResource is the only message used to  
 1042 indicate the resources have been allocated to an assignment/incident.

1043 **3.7.2 Element Reference Model**

1044 Figure 7 below shows the EDXL-RM Element Reference Model (ERM) tailored for the CommitResource  
 1045 Message. The ERM shows the element-level details for the main entities in the RM.

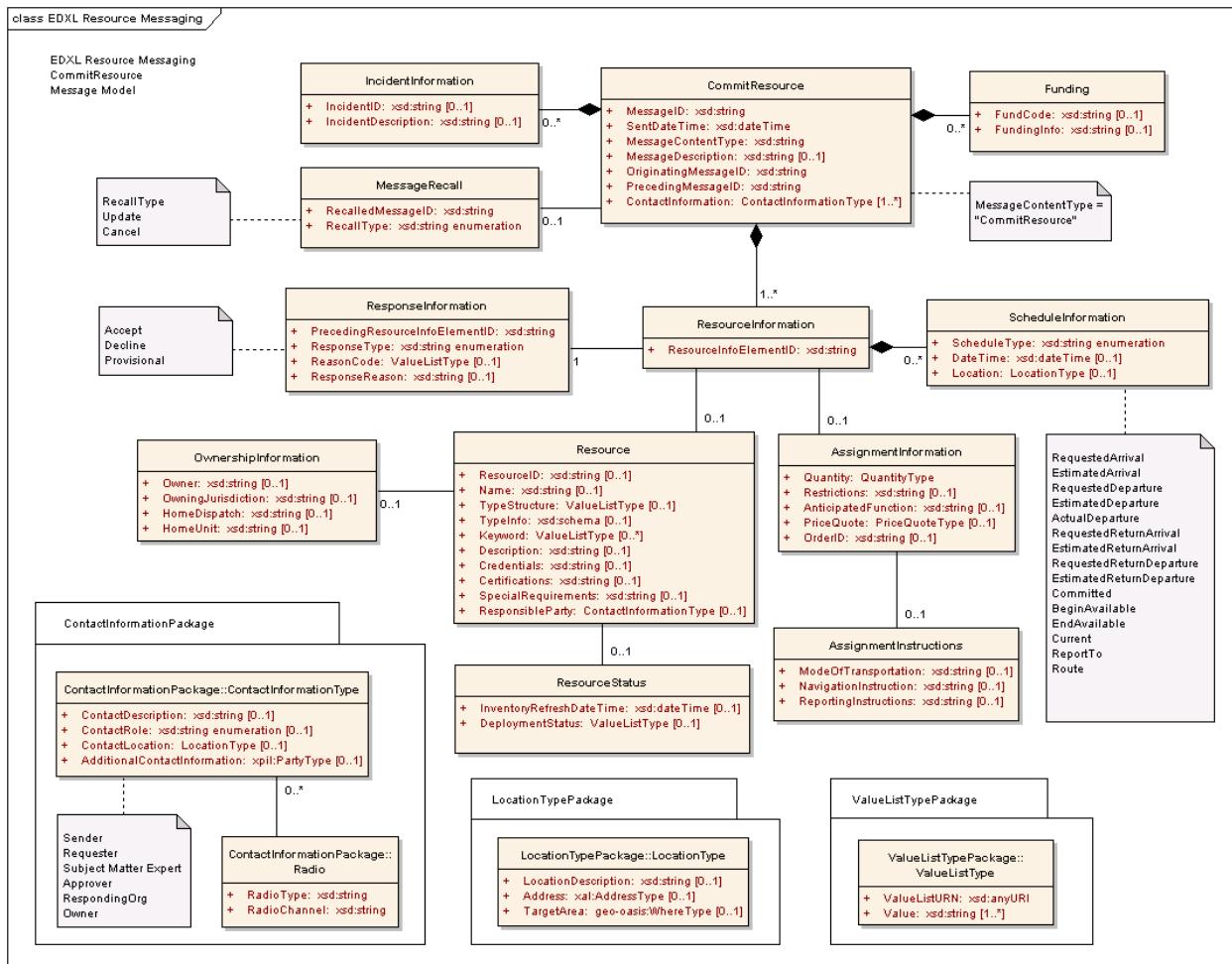


Figure 7: EDXL-RM ERM for CommitResource Message

1046

1047

1048

1049

1050 The following table outlines the element cardinalities for this message type.

1051

1052 *Table 6: CommitResource Message Elements*

Parent Element	Sub-Elements
CommitResource	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , <b>MessageDescription</b> , <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>ResponseInformation</b> , <i>Resource</i> , <i>AssignmentInformation</i> , <i>ScheduleInformation</i> <sup>*</sup>
ResponseInformation	<b>PrecedingResourceInfoElementID</b> , <b>ResponseType</b> , <i>ReasonCode</i> , <i>ResponseReason</i>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<i>InventoryRefreshDateTime</i> , <i>DeploymentStatus</i>
AssignmentInformation	<b>Quantity</b> , <i>Restrictions</i> , <i>AnticipatedFunction</i> , <i>PriceQuote</i> , <i>OrderID</i> , <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , <i>DateTime</i> , <i>Location</i>

1053

### 1054 3.7.3 CommitResource Message Rules

1055 The following rules apply to the above elements:

- 1056 • The CommitResource:MessageID, CommitResource:SentDateTime,  
1057 CommitResource:MessageContentType, CommitResource:OriginatingMessageID,  
1058 CommitResource:PrecedingMessageID, CommitResource:ContactInformation, and  
1059 CommitResource:ResourceInformation elements MUST be present.
- 1060 • The value of CommitResource:MessageContentType MUST be “CommitResource”.
- 1061 • If a CommitResource:IncidentInformation element is present, then at least one of  
1062 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be  
1063 present.
- 1064 • If the CommitResource:MessageRecall element is present, then the  
1065 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1066 • If a CommitResource:Funding element is present, then at least one of Funding:FundCode and/or  
1067 Funding:FundingInfo elements MUST be present.
- 1068 • The ResourceInformation:ResourceInfoElementID and  
1069 ResourceInformation:ResponseInformation elements MUST be present.

- If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the ResourceInformation:Resource element MUST be present.
- If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the ResourceInformation:AssignmentInformation element MUST be present. If ResponseInformation:ResponseType has a value of “Decline”, then the ResourceInformation:AssignmentInformation is not applicable.
- If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the ResourceInformation:ScheduleInformation element MUST be present. If ResponseInformation:ResponseType has a value of “Decline”, then the ResourceInformation:ScheduleInformation is not applicable.
- The ResponseInformation:PrecedingResourceInfoElementID and ResponseInformation:ResponseType elements MUST be present.
- If ResponseInformation:ResponseType has a value of “Provisional”, then at least one of ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST be present.
- If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be present.
- If a Resource:OwnershipInformation is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- If a ResourceInformation:AssignmentInformation element is present, then the AssignmentInformation:Quantity element MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - “RequestedArrival”, “EstimatedArrival”, “EstimatedDeparture”, “RequestedDeparture”, “ActualDeparture”, “RequestedReturnArrival”, “EstimatedReturnArrival”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “Committed”, “BeginAvailable”, “EndAvailable”, “Current”, “ReportTo” or “Route”.

1100 The schema for a CommitResource message can be found in Appendix A.6.

### 1101 **3.7.4 Message Flow**

1102 The CommitResource message is sent by a Resource Supplier in response to either a RequestResource  
1103 or RequisitionResource message sent by the Resource Consumer.

1104 The message may be canceled or updated through the CommitResource:MessageRecall element.

### 1105 **3.7.5 Message Example**

1106 Below is an example of a CommitResource Message. This is an example Response to the original  
1107 RequisitionResource shown in Section 3.6.5. In this example, the two requests have different responses:

- The “Small Animal Sheltering Team” (ResourceInfoElementID=001) is Accepted. In this case the Schedule information is updated with Committed date.
- The “Patrol and Surveillance Helicopters” (ResourceInfoElementID=002) is Declined.

1113 [Note: The XML example shown in this section is informative only.]

```
1114 <?xml version="1.0" encoding="UTF-8"?>
1115 <CommitResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1116   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1117     EDXL-RMCommitResource.xsd"
1118   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1119   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1120   xmlns:xpil="urn:oasis:names:tc:cinq:xpil:3"
1121   xmlns:xl="urn:oasis:names:tc:cinq:xl:3" xmlns:xal="urn:oasis:names:tc:cinq:xal:3"
1122   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1123   xmlns:gml="http://www.opengis.net/gml">
1124 <MessageID>urn:au-qld-eoc:997754</MessageID>
1125 <SentDateTime>2006-03-21T12:46:00+10:00</SentDateTime>
1126 <MessageContentType>CommitResource</MessageContentType>
1127 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1128 <PrecedingMessageID>urn:au-qld-eoc:987654</PrecedingMessageID>
1129 <IncidentInformation>
1130   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1131 </IncidentInformation>
1132 <Funding>
1133   <rm:FundCode>HP4347</rm:FundCode>
1134 </Funding>
1135 <ContactInformation>
1136   <rm:ContactRole>Sender</rm:ContactRole>
1137   <rm:AdditionalContactInformation>
1138     <xpil:PartyName>
1139       <xnl:PersonName>
1140         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
1141         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
1142       </xnl:PersonName>
1143       <xnl:OrganisationName>
1144         <xnl:NameElement>EMA</xnl:NameElement>
1145       </xnl:OrganisationName>
1146     </xpil:PartyName>
1147   </rm:AdditionalContactInformation>
1148 </ContactInformation>
1149 <ResourceInformation>
1150   <ResourceInfoElementID>001</ResourceInfoElementID>
1151   <ResponseInformation>
1152     <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
1153     <rm:ResponseType>Accept</rm:ResponseType>
1154   </ResponseInformation>
1155   <Resource>
1156     <TypeStructure>
1157       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1158       <rm:Value>Small Animal Sheltering Team</rm:Value>
1159     </TypeStructure>
1160     <Description>
1161       5-person response team to advise and support local efforts to set up a
1162       small animal shelter
1163     </Description>
1164     <SpecialRequirements>A qualified veterinary surgeon</SpecialRequirements>
1165   </Resource>
1166   <AssignmentInformation>
1167     <Quantity>
1168       <rm:MeasuredQuantity>
1169         <rm:Amount>1</rm:Amount>
1170       </rm:MeasuredQuantity>
1171     </Quantity>
1172   </AssignmentInformation>
1173   <ScheduleInformation>
1174     <ScheduleType>Committed</ScheduleType>
1175     <DateTime>2006-03-21T12:46:00+10:00</DateTime>
1176   </ScheduleInformation>
1177 </ResourceInformation>
1178 <ResourceInformation>
1179   <ResourceInfoElementID>002</ResourceInfoElementID>
1180   <ResponseInformation>
1181     <rm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>
1182     <rm:ResponseType>Decline</rm:ResponseType>
```

1183  
1184  
1185

```
</ResponseInformation>
</ResourceInformation>
</CommitResource>
```

1186

1187 **3.8 RequestInformation Message**

1188 **3.8.1 Overview**

1189 One use of the “RequestInformation” message is to ask questions about specific resources. In this case,  
1190 the message can be the initial message sent from the Resource Consumer to the Resource Suppliers, or  
1191 it can be a follow up message seeking further information after the Resource Consumer has sent a  
1192 RequestResource or other resource messages. A RequestInformation can be used in this manner even  
1193 after a resource has been committed and/or deployed; however, if the request is related to the status of a  
1194 deployed resource, the RequestResourceDeploymentStatus message MUST be used instead.

1195 A second use of this message type is to provide a general description of the sender’s situation and  
1196 needs, with the expectation of receiving responses suggesting suitable resources. This is useful when the  
1197 Resource Consumer is not able to issue a specific RequestResource message because of a lack of  
1198 knowledge about the resources that would be most appropriate for the situation.

1199 **3.8.2 Element Reference Model**

1200 Figure 8 below shows the EDXL–RM Element Reference Model (ERM) tailored for the  
1201 RequestInformation Message. The ERM shows the element-level details for the main entities in the RM.

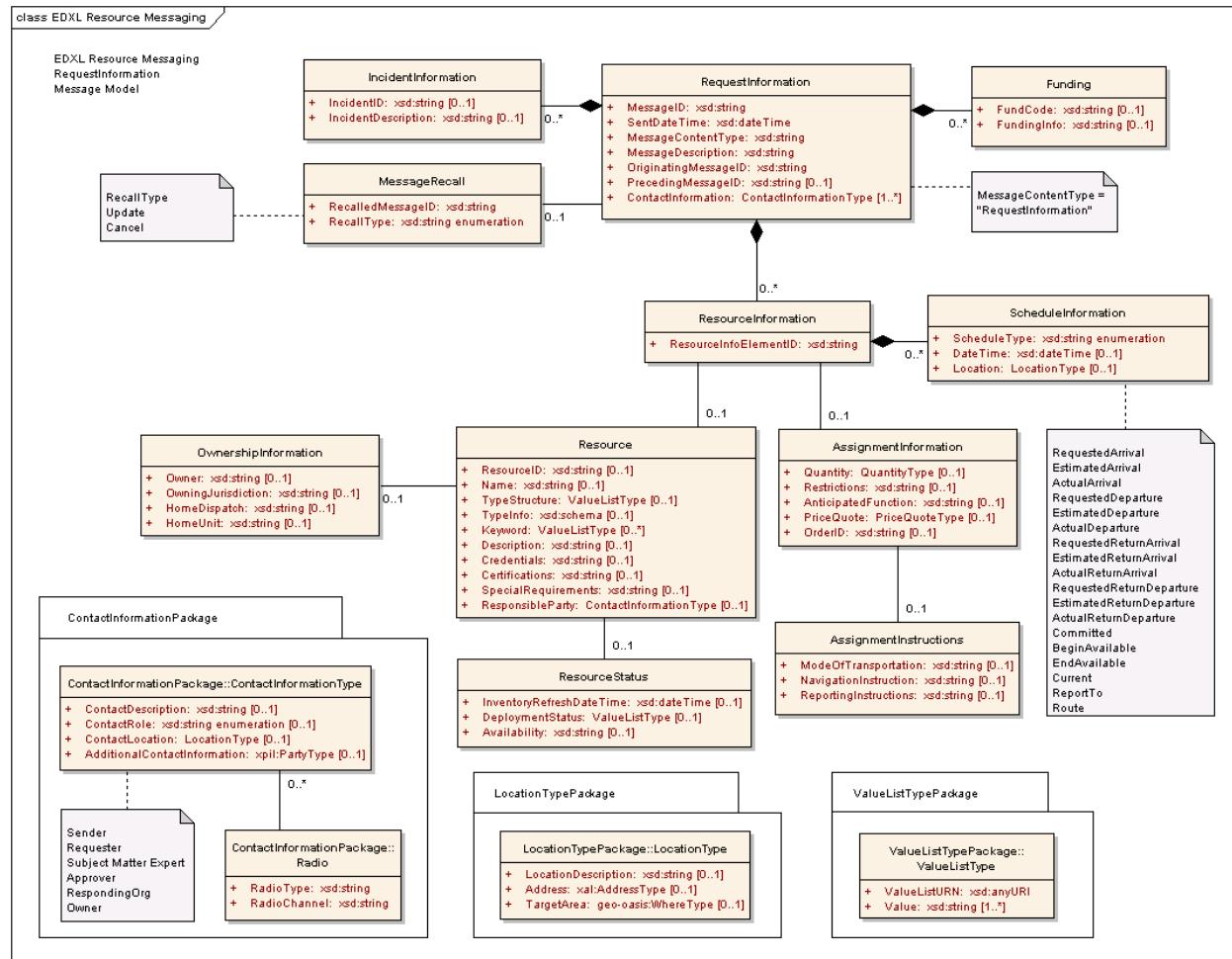


Figure 8: EDXL-RM ERM for RequestInformation Message

1202

1203

1204

1205 The following table outlines the element cardinalities for this message type.

1206

1207 *Table 7: RequestInformation Message Elements*

Parent Element	Sub-Elements
RequestInformation	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , <b>MessageDescription</b> , <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , Resource, AssignmentInformation, ScheduleInformation <sup>*</sup>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <b>Keyword</b> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , HomeDispatch, HomeUnit
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , DateTime, Location

1208

### 1209 3.8.3 RequestInformation Message rules

1210 The following rules apply to the above elements:

- 1211 • The RequestInformation:MessageID, ResourceMessage:SentDateTime  
1212 ResourceMessage:MessageContentType, ResourceMessage:MessageDescription,  
1213 ResourceMessage:OriginatingMessageID, and ResourceMessage:ContactInformation elements  
1214 MUST be present.
- 1215 • The value of RequestInformation:MessageContentType MUST be “RequestInformation”.
- 1216 • If a RequestInformation:IncidentInformation element is present, then at least one of  
1217 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be  
1218 present.
- 1219 • If the ResourceMessage:MessageRecall element is present, then the  
1220 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1221 • If a RequestInformation:Funding element is present, then at least one of Funding:FundCode  
1222 and/or Funding:FundingInfo elements MUST be present.
- 1223 • If a RequestInformation:ResourceInformation element is present, then the  
1224 ResourceInformation:ResourceInfoElementID element MUST be present.

- If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be present.
- If a Resource:OwnershipInformation is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”, “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “ActualReturnDeparture”, “RequestedReturnArrival”, “EstimatedReturnArrival”, “ActualReturnArrival”, “BeginAvailable”, “EndAvailable”, “Committed”, “Current”, “ReportTo” or “Route”.

The schema for a RequestInformation message can be found in Appendix A.7.

### **3.8.4 Message Flow**

The RequestInformation message may be sent by the Resource Consumer to any number of Resource Suppliers, or may it may be sent vice versa. The RequestInformation message may follow earlier resource messages.

The potential responses to this message include:

- ResponseToRequestInformation (See Section 3.9)
- ReportResourceDeploymentStatus
- This includes Accept, Decline, and Provisional responses.

The message may be canceled or updated through the RequestInformation:MessageRecall element.

### **3.8.5 Message Example**

Below is an example RequestInformation messages. The first is intended as a follow up message to the RequestResource and ResponseToRequestResource messages shown in Sections 3.4.5 and 3.5.5, requesting further information about the third resource that was requested (two electrical power restoration teams).

[Note: The XML examples shown in this section are informative only.]

```

<?xml version="1.0" encoding="UTF-8"?>
<RequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
    EDXL-RMRequestInformation.xsd"
  xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
  xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
  xmlns:xpil="urn:oasis:names:tc:ciiq:xpil:3"
  xmlns:xnl="urn:oasis:names:tc:ciiq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciiq:xal:3"
  xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
  xmlns:gml="http://www.opengis.net/gml">
  <MessageID>urn:au-qld-eoc:12338</MessageID>
  <SentDateTime>2006-03-21T12:35:00+10:00</SentDateTime>
  <MessageContentType>RequestInformation</MessageContentType>
  <MessageDescription>
    Could you please advise the size (personnel and equipment) of each power
    restoration team?
  </MessageDescription>
  <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
  <PrecedingMessageID>urn:au-qld-eoc:12332</PrecedingMessageID>
  <IncidentInformation>
```

```
1276      <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1277  </IncidentInformation>
1278  <ContactInformation>
1279    <rm>ContactRole>Sender</rm>ContactRole>
1280    <rm:AdditionalContactInformation>
1281      <xpl:PartyName>
1282        <xnl:PersonName>
1283          <xnl>NameElement xnl:ElementType="FirstName">Charlotte</xnl>NameElement>
1284          <xnl>NameElement xnl:ElementType="LastName">Ryan</xnl>NameElement>
1285        </xnl:PersonName>
1286        <xnl:OrganisationName>
1287          <xnl>NameElement>EMA</xnl>NameElement>
1288        </xnl:OrganisationName>
1289      </xpl:PartyName>
1290    </rm:AdditionalContactInformation>
1291  </ContactInformation>
1292  <ResourceInformation>
1293    <ResourceInfoElementID>001</ResourceInfoElementID>
1294    <Resource>
1295      <TypeStructure>
1296        <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1297          <rm:Value>Electrical Power Restoration Team</rm:Value>
1298        </TypeStructure>
1299    </Resource>
1300    <AssignmentInformation>
1301      <Quantity>
1302        <rm:MeasuredQuantity>
1303          <rm:Amount>1</rm:Amount>
1304        </rm:MeasuredQuantity>
1305      </Quantity>
1306      <AnticipatedFunction>
1307        Restore power to critical infrastructure in and around the
1308        Innisfail area
1309      </AnticipatedFunction>
1310    </AssignmentInformation>
1311  </ResourceInformation>
1312</RequestInformation>
```

1313

1314 **3.9 ResponseToRequestInformation Message**

1315 **3.9.1 Overview**

1316 The “ResponseToRequestInformation” message is used by Resource Suppliers to respond to a  
 1317 RequestInformation message from Resource Consumers. If the RequestInformation message contained  
 1318 one or more ResourceInformation elements, the response MUST Accept or Decline for each  
 1319 ResourceInformation element with a separate ResponseInformation element. However, accepting here  
 1320 only entails agreeing to supply the requested information, not agreeing to supply resources. If the  
 1321 RequestInformation message did not contain any ResourceInformation elements, one or more  
 1322 ResponseInformation elements MAY be included in the response message.

1323 **3.9.2 Element Reference Model**

1324 Figure 9 below shows the EDXL-RM Element Reference Model (ERM) tailored for the  
 1325 ResponseToRequestInformation Message. The ERM shows the element-level details for the main entities  
 1326 in the RM.

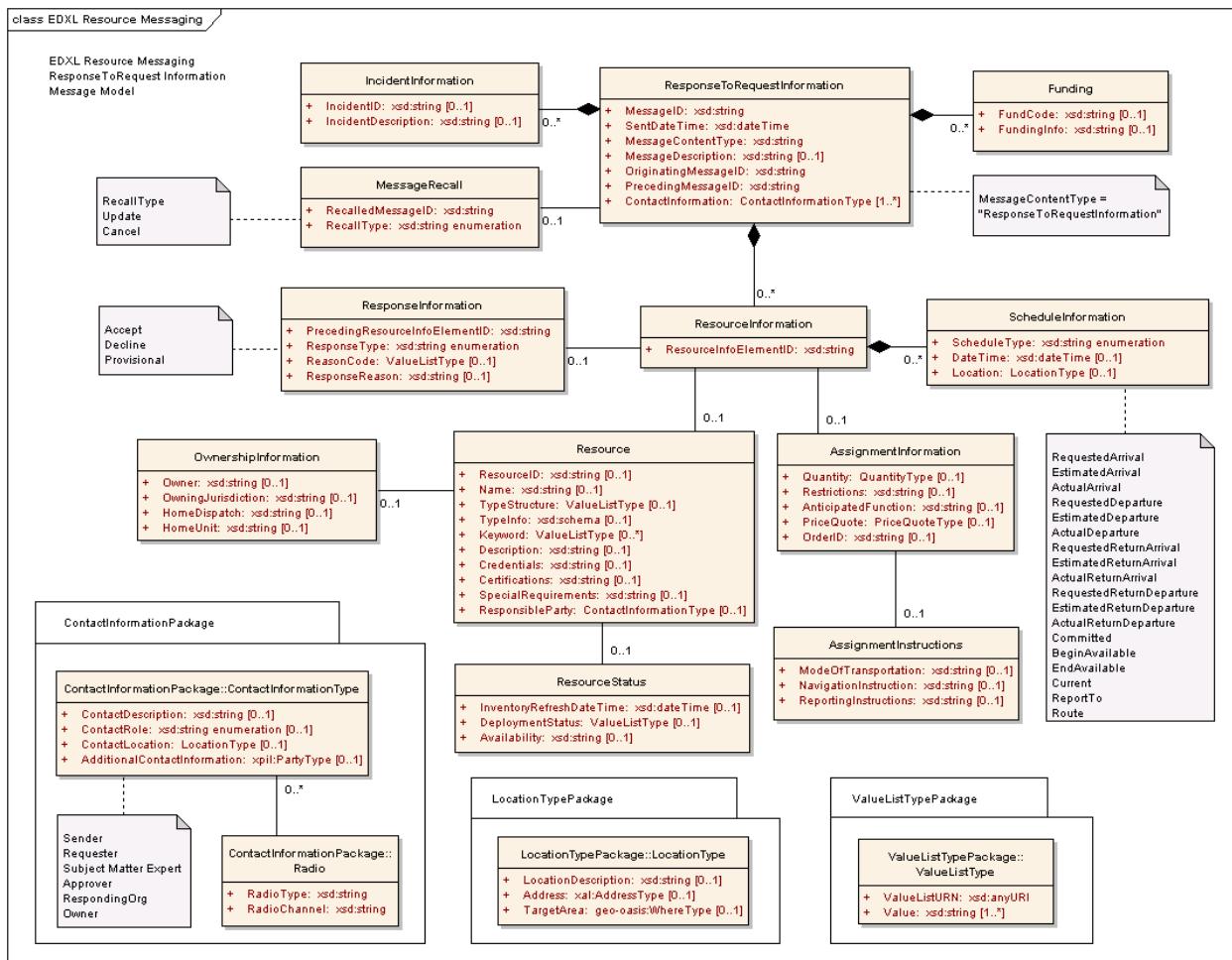


Figure 9: EDXL-RM ERM for ResponseToRequestInformation Message

1327

1328

1329

1330

1331 The following table outlines the element cardinalities for this message type.

1332

1333 *Table 8: ResponseToRequestInformation Message Elements*

Parent Element	Sub-Elements
ResponseToRequestInformation	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>1</sup> , MessageDescription, <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>ResponseInformation</b> <sup>1</sup> , <b>Resource</b> , <b>AssignmentInformation</b> , <b>ScheduleInformation</b> <sup>*</sup>
ResponseInformation	<b>PrecedingResourceInfoElementID</b> , <b>ResponseType</b> , <i>ReasonCode</i> , <i>ResponseReason</i>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<i>InventoryRefreshDateTime</i> , <i>DeploymentStatus</i> , <i>Availability</i>
AssignmentInformation	<i>Quantity</i> , <i>Restrictions</i> , <i>AnticipatedFunction</i> , <i>PriceQuote</i> , <i>OrderID</i> , <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	<b>ScheduleType</b> , <i>DateTime</i> , <i>Location</i>

1334

### 1335 3.9.3 ResponseToRequestInformation Message Rules

1336 The following rules apply to the above elements:

- 1337     • The ResponseToRequestInformation:MessageID,  
1338                 ResponseToRequestInformation:SentDateTime  
1339                 ResponseToRequestInformation:MessageContentType,

---

<sup>1</sup> Because this is a response to a request for information and the response may not be to a particular resource, the ResourceInformation:ResponseInformation element is not mandatory.

- 1340            ResponseToRequestInformation:OriginatingMessageID,  
1341            ResponseToRequestInformation:PrecedingMessageID, and  
1342            ResponseToRequestInformation:ContactInformation elements MUST be present.
- 1343            • The value of ResponseToRequestInformation:MessageContentType MUST be  
1344            "ResponseToRequestInformation".
  - 1345            • If a ResponseToRequestInformation:IncidentInformation element is present, then at least one of  
1346            IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be  
1347            present.
  - 1348            • If the ResponseToRequestInformation:MessageRecall element is present, then the  
1349            MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
  - 1350            • If a ResponseToRequestInformation:Funding element is present, then at least one of  
1351            Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
  - 1352            • If a ResponseToRequestInformation:ResourceInformation element is present, then the  
1353            ResourceInformation:ResourceInfoElementID element MUST be present.
  - 1354            • If the ResourceInformation:ResponseInformation element is present, then the  
1355            ResponseInformation:PrecedingResourceInfoElementID and  
1356            ResponseInformation:ResponseType elements MUST be present.
  - 1357            • If the ResourceInformation:ResponseInformation element is present and the  
1358            ResponseInformation:ResponseType element has a value of "Provisional", then at least one of  
1359            ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements  
1360            MUST be present.
  - 1361            • If a ResourceInformation:Resource element is present, then at least one of  
1362            Resource:ResourceId, Resource:Name, and/or Resource:TypeStructure elements MUST be  
1363            present.
  - 1364            • If a Resource:OwnershipInformation element is present, then at least one of  
1365            OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST  
1366            be present.
  - 1367            • If the ResourceInformation:ScheduleInformation element is present, then the  
1368            ScheduleInformation:ScheduleType element MUST be present and contain one of the following  
1369            values:
    - 1370              • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",  
1371              "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",  
1372              "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",  
1373              "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable",  
1374              "Committed", "Current", "ReportTo" or "Route".

1375  
1376        The schema for a ResponseToRequestInformation message can be found in Appendix A.8.

### 1377        **3.9.4 Message Flow**

- 1378        The ResponseToRequestInformation message is sent by a Resource Supplier or Resource Consumer in  
1379        response to an original RequestInformation message.
- 1380        The potential responses to this message include:
- 1381            • RequisitionResource message from the Resource Consumer. (See Section 3.6)
- 1382        The message may be canceled or updated through the ResponseToRequestInformation:MessageRecall  
1383        element.
- 1384

1385 **3.9.5 Message Example**

1386 Below are two example ResponseToRequestInformation messages. These are example responses to the  
1387 RequestInformation messages shown in Section 3.8.5.

1388

1389 [Note: The XML examples shown in this section are informative only.]

```
1390 <?xml version="1.0" encoding="UTF-8"?>
1391 <ResponseToRequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1392   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1393     EDXL-RMResponseToRequestInformation.xsd"
1394   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1395   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1396   xmlns:xpil="urn:oasis:names:tc:ciiq:xpil:3"
1397   xmlns:xnl="urn:oasis:names:tc:ciiq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciiq:xal:3"
1398   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1399   xmlns:gml="http://www.opengis.net/gml">
1400 <MessageID>urn:au-qld-eoc:12346</MessageID>
1401 <SentDateTime>2006-03-21T12:37:00+10:00</SentDateTime>
1402 <MessageContentType>ResponseToRequestInformation</MessageContentType>
1403 <MessageDescription>
1404   Team consists of 5 overhead (2 person) crews with material handlers; 1
1405   overhead (2 person) crew; 2 designers; 1 team leader; 1 safety specialist and fleet
1406   services support. Each team is additionally equipped with digger derrick/pole
1407   trailer and auxiliary (material handler or 36' bucket).
1408 </MessageDescription>
1409 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1410 <PrecedingMessageID>urn:au-qld-eoc:12338</PrecedingMessageID>
1411 <IncidentInformation>
1412   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1413 </IncidentInformation>
1414 <ContactInformation>
1415   <rm:ContactRole>Sender</rm:ContactRole>
1416   <rm:AdditionalContactInformation>
1417     <xnl:PartyName>
1418       <xnl:PersonName>
1419         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1420         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1421       </xnl:PersonName>
1422       <xnl:OrganisationName>
1423         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1424       </xnl:OrganisationName>
1425     </xnl:PartyName>
1426     <xpil:ContactNumbers>
1427       <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
1428         xpil>ContactHours="9:00AM - 5:00PM">
1429         <xpil:ContactNumberElement
1430           xpil>Type="CountryCode">61</xpil:ContactNumberElement>
1431         <xpil:ContactNumberElement xpil>Type="AreaCode">7</xpil:ContactNumberElement>
1432         <xpil:ContactNumberElement xpil>Type="LocalNumber">
1433           3000
1434           1234
1435         </xpil:ContactNumberElement>
1436       </xpil:ContactNumber>
1437     </xpil:ContactNumbers>
1438     <xpil:ElectronicAddressIdentifiers>
1439       <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
1440     </xpil:ElectronicAddressIdentifier>
1441     </xpil:ElectronicAddressIdentifiers>
1442   </rm:AdditionalContactInformation>
1443 </ContactInformation>
1444 </ResponseToRequestInformation>
```

```

1445 <?xml version="1.0" encoding="UTF-8"?>
1446 <ResponseToRequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1447   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1448     EDXL-RMResponseToRequestInformation.xsd"
1449   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1450   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1451   xmlns:xpil="urn:oasis:names:tc:ciiq:xpil:3"
1452   xmlns:xnl="urn:oasis:names:tc:ciiq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciiq:xal:3"
1453   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1454   xmlns:gml="http://www.opengis.net/gml"
1455 <MessageID>urn:au-qld-eoc:77397</MessageID>
1456 <SentDateTime>2006-03-22T08:22:00+10:00</SentDateTime>
1457 <MessageContentType>ResponseToRequestInformation</MessageContentType>
1458 <MessageDescription>
1459   QBuild can send a damage assessment team from Cairns this afternoon.
1460 </MessageDescription>
1461 <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
1462 <PrecedingMessageID>urn:au-qld-eoc:77388</PrecedingMessageID>
1463 <IncidentInformation>
1464   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1465 </IncidentInformation>
1466 <ContactInformation>
1467   <rm:ContactRole>Sender</rm:ContactRole>
1468   <rm:AdditionalContactInformation>
1469     <xpil:PartyName>
1470       <xnl:PersonName>
1471         <xnl:NameElement xnl:ElementType="FirstName">Barnaby</xnl:NameElement>
1472         <xnl:NameElement xnl:ElementType="LastName">James</xnl:NameElement>
1473       </xnl:PersonName>
1474       <xnl:OrganisationName>
1475         <xnl:NameElement>EMA</xnl:NameElement>
1476       </xnl:OrganisationName>
1477     </xpil:PartyName>
1478     <xpil:ContactNumbers>
1479       <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
1480         <xpil:ContactNumberElement
1481           xpil>Type="CountryCode">61</xpil:ContactNumberElement>
1482         <xpil:ContactNumberElement xpil>Type="AreaCode">2</xpil:ContactNumberElement>
1483         <xpil:ContactNumberElement xpil>Type="LocalNumber">
1484           9864
1485           4329
1486         </xpil:ContactNumberElement>
1487       </xpil:ContactNumber>
1488     </xpil:ContactNumbers>
1489   </rm:AdditionalContactInformation>
1490 </ContactInformation>
1491 <ContactInformation>
1492   <rm:ContactRole>Requester</rm:ContactRole>
1493   <rm:AdditionalContactInformation>
1494     <xpil:PartyName>
1495       <xnl:PersonName>
1496         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1497         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1498       </xnl:PersonName>
1499       <xnl:OrganisationName>
1500         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1501       </xnl:OrganisationName>
1502     </xpil:PartyName>
1503   </rm:AdditionalContactInformation>
1504 </ContactInformation>
1505 <ResourceInformation>
1506   <ResourceInfoElementID>001</ResourceInfoElementID>
1507   <Resource>
1508     <TypeStructure>
1509       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1510       <rm:Value>Engineering Services: Damage Assessment Team</rm:Value>
1511     </TypeStructure>
1512   </Resource>
1513   <AssignmentInformation>
1514     <Quantity>
1515       <rm:MeasuredQuantity>

```

```
1516      <rm:Amount>1</rm:Amount>
1517      </rm:MeasuredQuantity>
1518      </Quantity>
1519      <AnticipatedFunction>
1520          Preliminary assessment of cracks in Centenary Bridge,
1521          Innisfail.
1522      </AnticipatedFunction>
1523      </AssignmentInformation>
1524      <ScheduleInformation>
1525          <ScheduleType>EstimatedDeparture</ScheduleType>
1526          <DateTime>2006-03-22T15:00:00</DateTime>
1527          <Location>
1528              <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
1529          </Location>
1530      </ScheduleInformation>
1531      <ScheduleInformation>
1532          <ScheduleType>EstimatedArrival</ScheduleType>
1533          <DateTime>2006-03-25T16:00:00+10:00</DateTime>
1534          <Location>
1535              <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
1536          </Location>
1537      </ScheduleInformation>
1538      </ResourceInformation>
1539  </ResponseToRequestInformation>
```

---

1540

1541

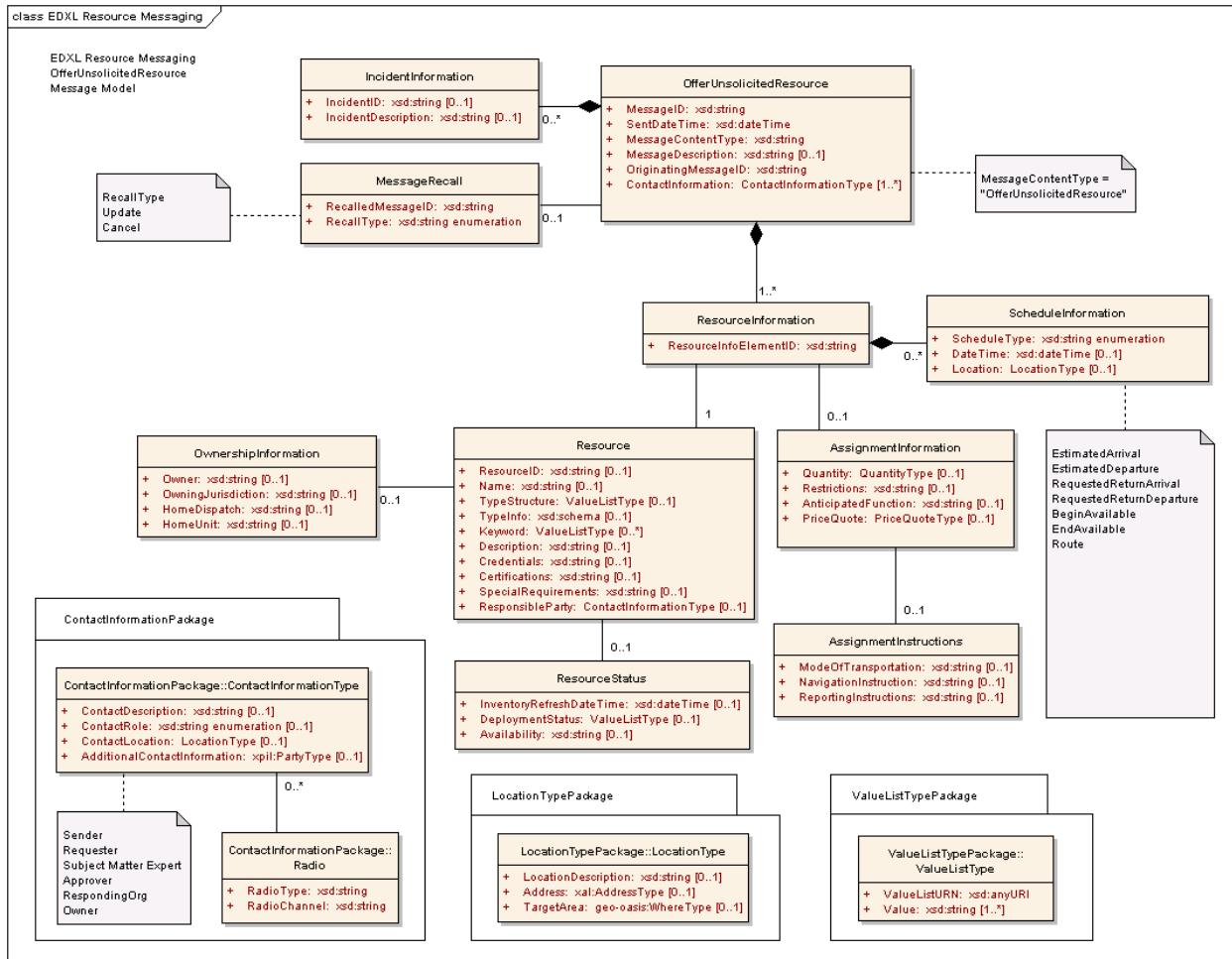
1542 **3.10 OfferUnsolicitedResource Message**

1543 **3.10.1 Overview**

1544 The “OfferUnsolicitedResource” message is used to offer available resources (that have not been  
 1545 requested) to assist with an emergency response.

1546 **3.10.2 Element Reference Model**

1547 Figure 10 below shows the EDXL–RM Element Reference Model (ERM) tailored for the  
 1548 OfferUnsolicitedResource Message. The ERM shows the element-level details for the main entities in the  
 1549 RM.



1550 *Figure 10: EDXL-RM ERM for OfferUnsolicitedResource Message*

1551

1552

1553

1554 The following table outlines the element cardinalities for this message type.

1555

1556 *Table 9: OfferUnsolicitedResource Message Elements*

Parent Element	Sub-Elements
OfferUnsolicitedResource	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , <b>MessageDescription</b> , <b>OriginatingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>Resource</b> , <b>AssignmentInformation</b> , <b>ScheduleInformation</b> <sup>*</sup>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<i>InventoryRefreshDateTime</i> , <i>DeploymentStatus</i> , <i>Availability</i>
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, AssignmentInstructions
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , <i>DateTime</i> , <i>Location</i>

1557

### 1558 3.10.3 OfferUnsolicitedResource Message Rules

1559 The following rules apply to the above elements:

- 1560 • The OfferUnsolicitedResource:MessageID, OfferUnsolicitedResource:SentDateTime  
1561 OfferUnsolicitedResource:MessageContentType,  
1562 OfferUnsolicitedResource:OriginatingMessageID, OfferUnsolicitedResource:ContactInformation,  
1563 and OfferUnsolicitedResource:ResourceInformation elements MUST be present.
- 1564 • The value of OfferUnsolicitedResource:MessageContentType MUST be  
1565 “OfferUnsolicitedResource”.
- 1566 • If an OfferUnsolicitedResource:IncidentInformation element is present, then at least one of  
1567 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be  
1568 present.
- 1569 • If the OfferUnsolicitedResource:MessageRecall element is present, then the  
1570 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1571 • For each OfferUnsolicitedResource:ResourceInformation element, the  
1572 ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements  
1573 MUST be present.
- 1574 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements  
1575 MUST be present.

- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - “EstimatedArrival”, “EstimatedDeparture”, “RequestedReturnDeparture”, “RequestedReturnArrival”, “BeginAvailable”, “EndAvailable”, or “Route”.

1585 The schema for an OfferUnsolicitedResource message can be found in Appendix A.9.

### 1586 **3.10.4 Message Flow**

1587 The OfferUnsolicitedResource message is an initial message created and sent by the Resource Supplier  
1588 to any number of Resource Consumers.

1589 The potential responses to this message include:

- RequestInformation (See Section 3.8)
- RequisitionResource (See Section 3.6)

1592 The message may be canceled or updated through the OfferUnsolicitedResource:MessageRecall  
1593 element.

1594

### 1595 **3.10.5 Message Example**

1596 Below is an example OfferUnsolicitedResource message. This message offers a donation of 100 large  
1597 and 100 small tarpaulins.

1598

1599 [Note: The XML example shown in this section is informative only.]

```

1600 <?xml version="1.0" encoding="UTF-8"?>
1601 <OfferUnsolicitedResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1602   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1603     EDXL-RMOfferUnsolicitedResource.xsd"
1604   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1605   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1606   xmlns:xpil="urn:oasis:names:tc:cig:xpil:3"
1607   xmlns:xnl="urn:oasis:names:tc:cig:xnl:3" xmlns:xal="urn:oasis:names:tc:cig:xal:3">
1608 <MessageID>urn:au-qld-eoc:84313</MessageID>
1609 <SentDateTime>2006-03-22T10:34:00+10:00</SentDateTime>
1610 <MessageContentType>OfferUnsolicitedResource</MessageContentType>
1611 <MessageDescription>
1612   We would like to donate 100 small and 100 large tarps for use by residents
1613   whose homes have been damaged by the cyclone.
1614 </MessageDescription>
1615 <OriginatingMessageID>urn:au-qld-eoc:84313</OriginatingMessageID>
1616 <IncidentInformation>
1617   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1618 </IncidentInformation>
1619 <ContactInformation>
1620   <rm:ContactRole>Owner</rm:ContactRole>
1621   <rm:AdditionalContactInformation>
1622     <xpil:PartyName>
1623       <xnl:PersonName>
1624         <xnl:NameElement xnl:ElementType="FirstName">Joe</xnl:NameElement>
1625         <xnl:NameElement xnl:ElementType="LastName">Williams</xnl:NameElement>
1626       </xnl:PersonName>
1627       <xnl:OrganisationName>
1628         <xnl:NameElement>Hardware Megastore Cairns</xnl:NameElement>
1629       </xnl:OrganisationName>

```

```

1630    </xpil:PartyName>
1631    <xpil:Addresses>
1632      <xpil:Address>
1633        <xal:Country>
1634          <xal:NameElement>Australia</xal:NameElement>
1635        </xal:Country>
1636        <xal:AdministrativeArea>
1637          <xal:NameElement>QLD</xal:NameElement>
1638        </xal:AdministrativeArea>
1639        <xal:Locality>
1640          <xal:NameElement>Cairns</xal:NameElement>
1641        </xal:Locality>
1642        <xal:Thoroughfare>
1643          <xal:NameElement>Spence St</xal:NameElement>
1644        </xal:Thoroughfare>
1645        <xal:PostCode>
1646          <xal:Identifier>4870</xal:Identifier>
1647        </xal:PostCode>
1648      </xpil:Address>
1649    </xpil:Addresses>
1650    <xpil:ContactNumbers>
1651      <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
1652        xpil>ContactHours="8:00AM - 6:00PM">
1653        <xpil:ContactNumberElement
1654          xpil>Type="CountryCode">61</xpil:ContactNumberElement>
1655        <xpil:ContactNumberElement xpil>Type="AreaCode">7</xpil:ContactNumberElement>
1656        <xpil:ContactNumberElement xpil>Type="LocalNumber">
1657          4052
1658          0378
1659        </xpil:ContactNumberElement>
1660      </xpil:ContactNumber>
1661    </xpil:ContactNumbers>
1662  </rm:AdditionalContactInformation>
1663 </ContactInformation>
1664 <ResourceInformation>
1665   <ResourceInfoElementID>001</ResourceInfoElementID>
1666   <Resource>
1667     <TypeStructure>
1668       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1669       <rm:Value>Large tarpaulin</rm:Value>
1670     </TypeStructure>
1671     <Description> 30 x 40 ft, 800 denier blue tarp </Description>
1672   </Resource>
1673   <AssignmentInformation>
1674     <Quantity>
1675       <rm:MeasuredQuantity>
1676         <rm:Amount>100</rm:Amount>
1677       </rm:MeasuredQuantity>
1678     </Quantity>
1679     <AssignmentInstructions>
1680       <rm:ModeOfTransportation>
1681         We have a truck available to deliver to Innisfail (or other
1682         preferred location).
1683       </rm:ModeOfTransportation>
1684     </AssignmentInstructions>
1685   </AssignmentInformation>
1686   <ScheduleInformation>
1687     <ScheduleType>BeginAvailable</ScheduleType>
1688     <DateTime>2006-03-22T12:00:00+10:00</DateTime>
1689     <Location>
1690       <rm:LocationDescription>Hardware Megastore Cairns</rm:LocationDescription>
1691       <rm:Address>
1692         <xal:Country>
1693           <xal:NameElement>Australia</xal:NameElement>
1694         </xal:Country>
1695         <xal:AdministrativeArea>
1696           <xal:NameElement>QLD</xal:NameElement>
1697         </xal:AdministrativeArea>
1698         <xal:Locality>
1699           <xal:NameElement>Cairns</xal:NameElement>
1700         </xal:Locality>

```

```

1701      <xal:Thoroughfare>
1702          <xal:NameElement>Spence St</xal:NameElement>
1703      </xal:Thoroughfare>
1704      <xal:PostCode>
1705          <xal:Identifier>4870</xal:Identifier>
1706      </xal:PostCode>
1707      </rm:Address>
1708  </Location>
1709  </ScheduleInformation>
1710 </ResourceInformation>
1711 <ResourceInformation>
1712     <ResourceInfoElementID>002</ResourceInfoElementID>
1713 <Resource>
1714     <TypeStructure>
1715         <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1716         <rm:Value>Small tarpaulin</rm:Value>
1717     </TypeStructure>
1718     <Description> 8 x 10 ft, 800 denier blue tarp </Description>
1719 </Resource>
1720 <AssignmentInformation>
1721     <Quantity>
1722         <rm:MeasuredQuantity>
1723             <rm:Amount>100</rm:Amount>
1724         </rm:MeasuredQuantity>
1725     </Quantity>
1726 <AssignmentInstructions>
1727     <rm:ModeOfTransportation>
1728         We have a truck available to deliver to Innisfail (or other
1729         preferred location).
1730     </rm:ModeOfTransportation>
1731 </AssignmentInstructions>
1732 </AssignmentInformation>
1733 <ScheduleInformation>
1734     <ScheduleType>BeginAvailable</ScheduleType>
1735     <DateTime>2006-03-22T12:00:00+10:00</DateTime>
1736 <Location>
1737     <rm:LocationDescription>Hardware Megastore Cairns</rm:LocationDescription>
1738     <rm:Address>
1739         <xal:Country>
1740             <xal:NameElement>Australia</xal:NameElement>
1741         </xal:Country>
1742         <xal:AdministrativeArea>
1743             <xal:NameElement>QLD</xal:NameElement>
1744         </xal:AdministrativeArea>
1745         <xal:Locality>
1746             <xal:NameElement>Cairns</xal:NameElement>
1747         </xal:Locality>
1748         <xal:Thoroughfare>
1749             <xal:NameElement>Spence St</xal:NameElement>
1750         </xal:Thoroughfare>
1751         <xal:PostCode>
1752             <xal:Identifier>4870</xal:Identifier>
1753         </xal:PostCode>
1754         </rm:Address>
1755     </Location>
1756     </ScheduleInformation>
1757   </ResourceInformation>
1758 </OfferUnsolicitedResource>

```

1759

1760 **3.11 ReleaseResource Message**

1761 **3.11.1 Overview**

1762 The “ReleaseResource” message is used by authorities at the incident to “release” (demobilize) a  
1763 resource back to its original point of assignment or to another location / assignment.

1764 **3.11.2 Element Reference Model**

1765 Figure 11 below shows the EDXL-RM Element Reference Model (ERM) tailored for the ReleaseResource  
1766 Message. The ERM shows the element-level details for the main entities in the RM.

1767

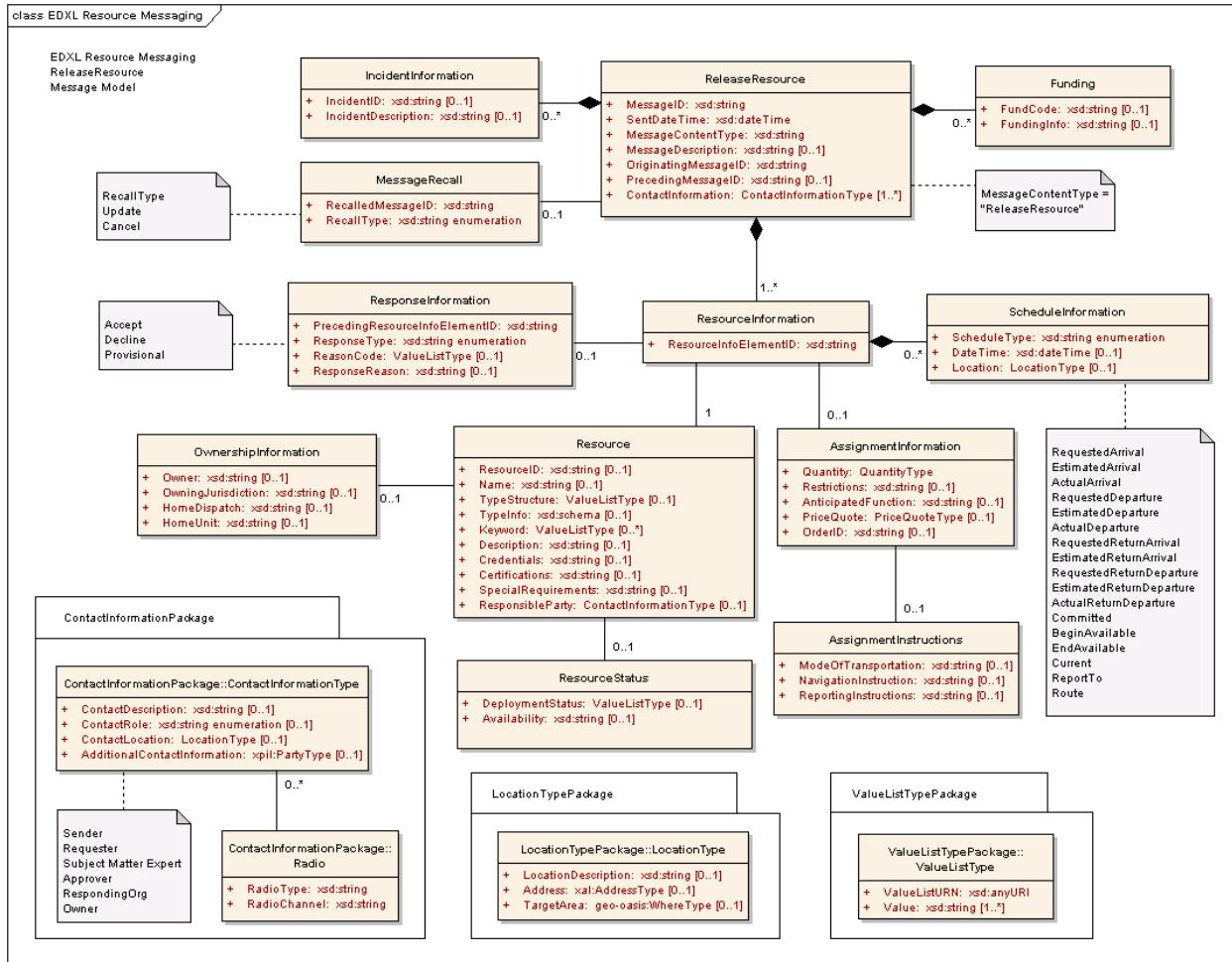


Figure 11: EDXL-RM ERM for ReleaseResource Message

1768

1769

1770

1771

1772 The following table outlines the element cardinalities for this message type.

1773

1774 *Table 11: ReleaseResource Message Elements*

Parent Element	Sub-Elements
ReleaseResource	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , <b>MessageDescription</b> , <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>ResponseInformation</b> , <b>Resource</b> , <b>AssignmentInformation</b> , <b>ScheduleInformation</b> <sup>*</sup>
ResponseInformation	<b>PrecedingResourceInfoElementID</b> , <b>ResponseType</b> , <i>ReasonCode</i> , <i>ResponseReason</i>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<i>DeploymentStatus</i> , <i>Availability</i>
AssignmentInformation	<b>Quantity</b> , <i>Restrictions</i> , <i>AnticipatedFunction</i> , <i>PriceQuote</i> , <i>OrderID</i> , <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	<b>ScheduleType</b> , <i>DateTime</i> , <i>Location</i>

1775

### 3.11.3 ReleaseResource Message Rules

1776 The following rules apply to the above elements:

- 1777 • The **ReleaseResource:MessageID**, **ReleaseResource:SentDateTime**, **ReleaseResource:Message:MessageContentType**, **ReleaseResource:OriginatingMessageID**, **ReleaseResource:ContactInformation**, and **ReleaseResource:ResourceInformation** elements MUST be present.
- 1778 • The value of **ReleaseResource:MessageContentType** MUST be “ReleaseResource”.
- 1779 • If a **ReleaseResource:IncidentInformation** element is present, then at least one of **IncidentInformation:IncidentID** and/or **IncidentInformation:IncidentDescription** elements MUST be present.
- 1780 • If the **ReleaseResource:MessageRecall** element is present, then the **MessageRecall:RecalledMessageID** and **MessageRecall:RecallType** elements MUST be present.
- 1781 • If a **ReleaseResource:Funding** element is present, then at least one of **Funding:FundCode** and/or **Funding:FundingInfo** elements MUST be present.

- For each ReleaseResource:ResourceInformation element, the ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements MUST be present.
- If a ResourceInformation:ResponseInformation element is present, then the ResponseInformation:PrecedingResourceInfoElementID and ResponseInformation:ResponseType elements MUST be present.
- If a ResourceInformation:ResponseInformation element is present and the ResponseInformation:ResponseType has a value of “Provisional”, then at least one of ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST be present.
- At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be present.
- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- If the ResourceInformation:AssignmentInformation element is present, then the AssignmentInformation:Quantity element MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”, “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “ActualReturnDeparture” “RequestedReturnArrival”, “EstimatedReturnArrival”, “BeginAvailable”, “EndAvailable”, “Committed”, “ReportTo”, “Current” or “Route”.

The schema for a ReleaseResource message can be found in Appendix A.10.

### 3.11.4 Message Flow

The ReleaseResource message is sent by the Resource Consumer to the Resource Supplier, and typically follows an earlier sequence of messages (e.g., RequisitionResource and CommitResource messages).

The potential responses to this message include:

- RequestInformation (See Section 3.8)
- RequisitionResource (See Section 3.6)
- Consumers waiting on the release of resources may send to a RequisitionResource Message after receipt of a ReleaseResource Message.

The message may be canceled or updated through the ReleaseResource:MessageRecall element.

### 3.11.5 Message Example

Below is an example ReleaseResource message. This message releases the Small Animal Sheltering Team committed in the example in Section 3.7.5.

1831

[Note: The XML example shown in this section is informative only.]

```
<?xml version="1.0" encoding="UTF-8"?>
<ReleaseResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
```

```

1836     EDXL-RMReleaseResource.xsd"
1837     xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1838     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1839     xmlns:xpil="urn:oasis:names:tc:cii:xpil:3"
1840     xmlns:xnl="urn:oasis:names:tc:cii:xnl:3" xmlns:xal="urn:oasis:names:tc:cii:xal:3"
1841     xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
1842     <MessageID>urn:au-qld-eoc:997985</MessageID>
1843     <SentDateTime>2006-03-29T10:17:00+10:00</SentDateTime>
1844     <MessageContentType>ReleaseResource</MessageContentType>
1845     <MessageDescription>
1846         Small Animal Sheltering Team will be flying back to Cairns this evening.
1847     </MessageDescription>
1848     <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1849     <IncidentInformation>
1850         <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1851     </IncidentInformation>
1852     <ContactInformation>
1853         <rm:ContactRole>Sender</rm:ContactRole>
1854         <rm:AdditionalContactInformation>
1855             <xpil:PartyName>
1856                 <xnl:PersonName>
1857                     <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1858                     <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1859                 </xnl:PersonName>
1860                 <xnl:OrganisationName>
1861                     <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1862                 </xnl:OrganisationName>
1863             </xpil:PartyName>
1864             <xpil:ContactNumbers>
1865                 <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
1866                     xpil:ContactHours="9:00AM - 5:00PMM"
1867                     <xpil:ContactNumberElement
1868                         xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1869                     <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
1870                     <xpil:ContactNumberElement xpil:Type="LocalNumber">
1871                         3000
1872                         1234
1873                     </xpil:ContactNumberElement>
1874                 </xpil:ContactNumber>
1875             </xpil:ContactNumbers>
1876             <xpil:ElectronicAddressIdentifiers>
1877                 <xpil:ElectronicAddressIdentifier>
1878                     alexj@emergencyservices.gov.au
1879                 </xpil:ElectronicAddressIdentifier>
1880             </xpil:ElectronicAddressIdentifiers>
1881         </rm:AdditionalContactInformation>
1882     </ContactInformation>
1883     <ResourceInformation>
1884         <ResourceInfoElementID>001</ResourceInfoElementID>
1885         <Resource>
1886             <TypeStructure>
1887                 <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1888                 <rm:Value>Small Animal Sheltering Team</rm:Value>
1889             </TypeStructure>
1890         </Resource>
1891         <AssignmentInformation>
1892             <Quantity>
1893                 <rm:MeasuredQuantity>
1894                     <rm:Amount>1</rm:Amount>
1895                 </rm:MeasuredQuantity>
1896             </Quantity>
1897         </AssignmentInformation>
1898         <ScheduleInformation>
1899             <ScheduleType>Current</ScheduleType>
1900             <Location>
1901                 <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
1902                 <rm:Address>
1903                     <xal:Country>
1904                         <xal:NameElement>Australia</xal:NameElement>
1905                     </xal:Country>
1906                     <xal:AdministrativeArea>

```

```
1907      <xal:NameElement>QLD</xal:NameElement>
1908      </xal:AdministrativeArea>
1909      <xal:Locality>
1910      <xal:NameElement>Innisfail</xal:NameElement>
1911      </xal:Locality>
1912      <xal:Thoroughfare>
1913      <xal:NameElement>Downing St</xal:NameElement>
1914      <xal:Number>27</xal:Number>
1915      </xal:Thoroughfare>
1916      <xal:PostCode>
1917      <xal:Identifier>4860</xal:Identifier>
1918      </xal:PostCode>
1919      </rm:Address>
1920      </Location>
1921      </ScheduleInformation>
1922      <ScheduleInformation>
1923      <ScheduleType>EstimatedReturnDeparture</ScheduleType>
1924      <DateTime>2006-03-29T19:05:00+10:00</DateTime>
1925      <Location>
1926      <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
1927      </Location>
1928      </ScheduleInformation>
1929      <ScheduleInformation>
1930      <ScheduleType>EstimatedReturnArrival</ScheduleType>
1931      <DateTime>2006-03-29T19:55:00+10:00</DateTime>
1932      <Location>
1933      <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
1934      </Location>
1935      </ScheduleInformation>
1936      </ResourceInformation>
1937  </ReleaseResource>
```

1938

1939 **3.12 RequestReturn Message**

1940 **3.12.1 Overview**

1941 The “RequestReturn” message is used to request release (demobilization) of resource(s) back to its  
1942 original owning jurisdiction and location or to another location / assignment.

1943 **3.12.2 Element Reference Model**

1944 Figure 12 below shows the EDXL-RM Element Reference Model (ERM) tailored for the RequestReturn  
1945 Message. The ERM shows the element-level details for the main entities in the RM.

1946

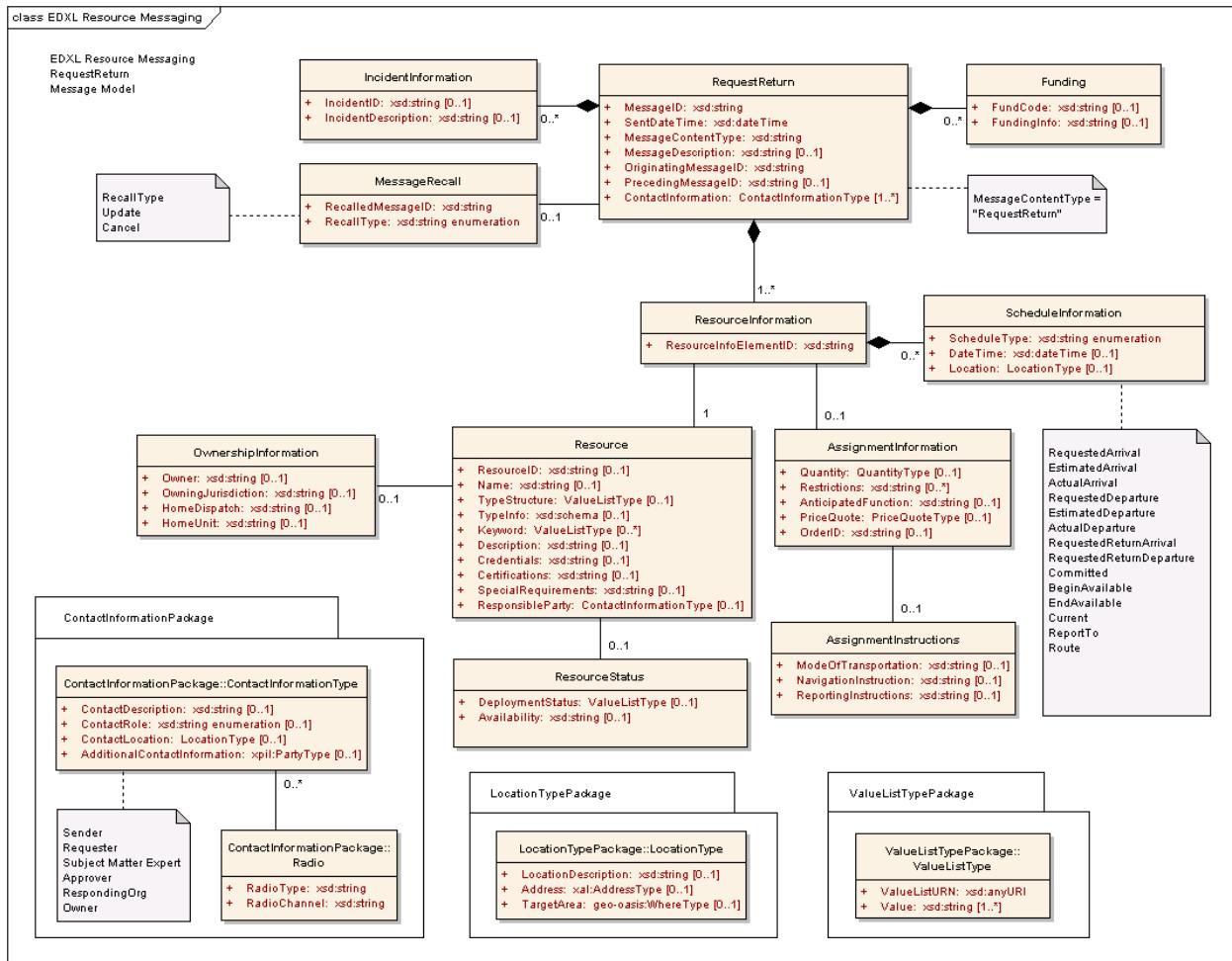


Figure 12: EDXL-RM ERM for RequestReturn Message

1947

1948

1949

1950

1951 The following table outlines the element cardinalities for this message type.

1952

1953 *Table 12: RequestReturn Message Elements*

Parent Element	Sub-Elements
RequestReturn	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , <b>MessageDescription</b> , <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>Resource</b> , <b>AssignmentInformation</b> , <b>ScheduleInformation</b> <sup>*</sup>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <b>Keyword</b> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<i>DeploymentStatus</i> , <i>Availability</i>
AssignmentInformation	<i>Quantity</i> , <i>Restrictions</i> , <i>AnticipatedFunction</i> , <i>PriceQuote</i> , <i>OrderID</i> , <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , <i>DateTime</i> , <i>Location</i>

1954

### 1955 3.12.3 RequestReturn Message Rules

1956 The following rules apply to the above elements:

- 1957 • The RequestReturn:MessageID, ResourceMessage:SentDateTime,  
1958 RequestReturn:MessageContentType, RequestReturn:OriginatingMessageID,  
1959 RequestReturn:ContactInformation, and RequestReturn:ResourceInformation elements MUST be  
1960 present.
- 1961 • The value of RequestReturn:MessageContentType MUST be “RequestReturn”.
- 1962 • If a RequestReturn:IncidentInformation element is present, then at least one of  
1963 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be  
1964 present.
- 1965 • If the RequestReturn:MessageRecall element is present, then the  
1966 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1967 • If a RequestReturn:Funding element is present, then at least one of Funding:FundCode and/or  
1968 Funding:FundingInfo elements MUST be present.
- 1969 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements  
1970 MUST be present.
- 1971 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements  
1972 MUST be present for each ResourceInformation:Resource element present.

- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”, “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnDeparture”, “RequestedReturnArrival”, “BeginAvailable”, “Committed”, “EndAvailable”, “Current”, “ReportTo” or “Route”.

The schema for a RequestReturn message can be found in Appendix A.11.

### 3.12.4 Message Flow

The RequestReturn message is sent by the Resource Supplier to the Resource Consumer, and typically follows an earlier sequence of messages (e.g., RequisitionResource and CommitResource messages).

The potential responses to this message include:

- ResponseToRequestReturn (See Section 3.13)
- ReleaseResource (See Section 3.11)
- This includes Accept, Decline, and Provisional responses.

The message may be canceled or updated through the RequestReturn:MessageRecall element.

### 3.12.5 Message Example

Below is an example of a RequestReturn Message, in which one request return is shown:

- Small Animal Sheltering Team (ResourceInfoElementID=001).

[Note: The XML example shown in this section is informative only.]

```

<?xml version="1.0" encoding="UTF-8"?>
<RequestReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
    EDXL-RMRequestReturn.xsd"
  xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
  xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
  xmlns:xpil="urn:oasis:names:tc:ciiq:xpil:3"
  xmlns:xnl="urn:oasis:names:tc:ciiq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciiq:xal:3"
  xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
  <MessageID>urn:au-qld-eoc:997821</MessageID>
  <SentDateTime>2006-03-28T14:48:00+10:00</SentDateTime>
  <MessageContentType>RequestReturn</MessageContentType>
  <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
  <IncidentInformation>
    <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
  </IncidentInformation>
  <ContactInformation>
    <rm:ContactRole>Sender</rm:ContactRole>
    <rm:AdditionalContactInformation>
      <xpil:PartyName>
        <xnl:PersonName>
          <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
          <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
        </xnl:PersonName>
        <xnl:OrganisationName>
          <xnl:NameElement>EMA</xnl:NameElement>
        </xnl:OrganisationName>
      </xpil:PartyName>
    </rm:AdditionalContactInformation>
  </ContactInformation>
</RequestReturn>
```

```
2025    </xn1:OrganisationName>
2026    </xpil:PartyName>
2027    </rm:AdditionalContactInformation>
2028  </ContactInformation>
2029  <ResourceInformation>
2030    <ResourceInfoElementID>001</ResourceInfoElementID>
2031  <Resource>
2032    <TypeStructure>
2033      <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2034      <rm:Value>Small Animal Sheltering Team</rm:Value>
2035    </TypeStructure>
2036  </Resource>
2037  <AssignmentInformation>
2038    <Quantity>
2039      <rm:MeasuredQuantity>
2040        <rm:Amount>1</rm:Amount>
2041      </rm:MeasuredQuantity>
2042    </Quantity>
2043  </AssignmentInformation>
2044  <ScheduleInformation>
2045    <ScheduleType>RequestedReturnArrival</ScheduleType>
2046    <DateTime>2006-03-29T20:00:00+10:00</DateTime>
2047    <Location>
2048      <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2049    </Location>
2050  </ScheduleInformation>
2051  </ResourceInformation>
2052</RequestReturn>
```

2053

2054 **3.13 ResponseToRequestReturn Message**

2055 **3.13.1 Overview**

2056 The “ResponseToRequestReturn” message is used by Resource Consumers to respond to a  
 2057 RequestReturn message from Resource Suppliers. The response identifies the resources in the original  
 2058 request message and how the Resource Consumer has responded.

2059 **3.13.2 Element Reference Model**

2060 Figure 13 below shows the EDXL–RM Element Reference Model (ERM) tailored for the  
 2061 ResponseToRequestReturn Message. The ERM shows the element-level details for the main entities in  
 2062 the RM.

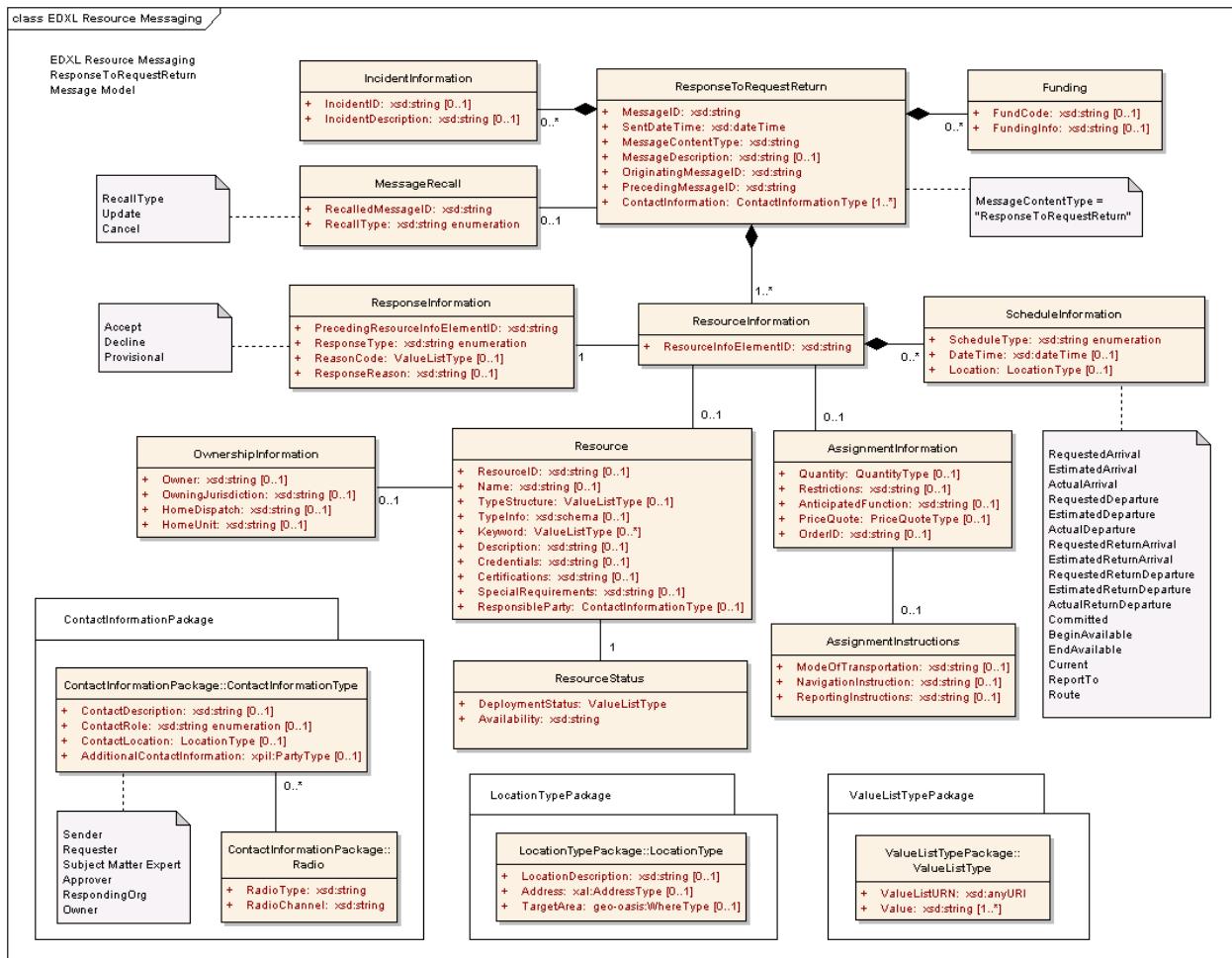


Figure 13: EDXL-RM ERM for ResponseToRequestReturn Message

2063

2064

2065

2066

2067 The following table outlines the element cardinalities for this message type.

2068

2069 *Table 13: ResponseToRequestReturn Message Elements*

Parent Element	Sub-Elements
ResponseToRequestReturn	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , <b>MessageDescription</b> , <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>ResponseInformation</b> , <b>Resource</b> , <b>AssignmentInformation</b> , <b>ScheduleInformation</b> <sup>*</sup>
ResponseInformation	<b>PrecedingResourceInfoElementID</b> , <b>ResponseType</b> , <i>ReasonCode</i> , <i>ResponseReason</i>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <b>ResourceStatus</b>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<b>DeploymentStatus</b> , <b>Availability</b>
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , <i>DateTime</i> , <i>Location</i>

2070

### 2071 3.13.3 ResponseToRequestReturn Message Rules

2072 The following rules apply to the above elements:

- 2073 • The ResponseToRequestReturn:MessageID, ResponseToRequestReturn:SentDateTime,  
2074 ResponseToRequestReturn:MessageContentType,  
2075 ResponseToRequestReturn:OriginatingMessageID,  
2076 ResponseToRequestReturn:PrecedingMessageID,  
2077 ResponseToRequestReturn:ContactInformation, and  
2078 ResponseToRequestReturn:ResourceInformation elements MUST be present.
- 2079 • The value of ResponseToRequestReturn:MessageContentType MUST be  
2080 “ResponseToRequestReturn”.
- 2081 • If a ResponseToRequestReturn:IncidentInformation element is present, then at least one of  
2082 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be  
2083 present.
- 2084 • If the ResponseToRequestReturn:MessageRecall element is present, then the  
2085 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- If a ResponseToRequestReturn:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- The ResourceInformation:ResourceInfoElementID and ResourceInformation:ResponseInformation elements MUST be present.
- The ResponseInformation:PrecedingResourceInfoElementID and ResponseInformation:ResponseType elements MUST be present.
- If the ResponseInformation:ResponseType element has a value of “Provisional”, then at least one of ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST be present.
- At least one of Resource:ResourceID, Resource:Name, and/or Resource>TypeStructure elements MUST be present for each ResourceInformation:Resource element present.
- The Resource:ResourceStatus element MUST be present for each ResourceInformation:Resource element present.
- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- The ResourceStatus:DeploymentStatus and ResourceStatus:Availability elements MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”, “EstimatedDeparture”, “ActualDeparture”, RequestedReturnArrival”, “EstimatedReturnArrival”, “BeginAvailable”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “ActualReturnDeparture”, “EndAvailable”, “Committed”, “Current”, “ReportTo” or “Route.”

The schema for a ResponseToRequestReturn message can be found in Appendix A.12.

### **3.13.4 Message Flow**

The ResponseToRequestReturn message is sent by a Resource Consumer in response to an original RequestReturn message sent by the Resource Supplier.

The potential responses to this message include:

- RequestReturn (See Section 3.12)
- The Supplier may send this response when the Consumer has specified return conditions with which the Supplier is not in agreement.

The message will typically be followed by a ReleaseResource message (See Section 3.11) when the Resource Consumer is ready to return the resource to the Resource Supplier.

The message may be canceled or updated through the ResponseToRequestReturn:MessageRecall element.

### **3.13.5 Message Example**

Below is an example of a ResponseToRequestReturn message. This is an example response to the RequestReturn message shown in Section 3.12.5. The sender of the message is the original resource requester (Resource Consumer). The response is an “Accept” (i.e., the Resource Consumer agrees to return the resource according to the specified schedule).

2131

2132 [Note: The XML example shown in this section is informative only.]

```
2133 <?xml version="1.0" encoding="UTF-8"?>
2134 <ResponseToRequestReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2135   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2136     EDXL-RMResponseToRequestReturn.xsd"
2137   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2138   xmlns:rme="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2139   xmlns:xpil="urn:oasis:names:tc:cinq:xpil:3"
2140   xmlns:xnl="urn:oasis:names:tc:cinq:xnl:3" xmlns:xal="urn:oasis:names:tc:cinq:xal:3"
2141   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2142 <MessageID>urn:au-qld-eoc:997981</MessageID>
2143 <SentDateTime>2006-03-28T16:17:00+10:00</SentDateTime>
2144 <MessageContentType>ResponseToRequestReturn</MessageContentType>
2145 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2146 <PrecedingMessageID>urn:au-qld-eoc:997821</PrecedingMessageID>
2147 <IncidentInformation>
2148   <rme:IncidentDescription>Cyclone Larry</rme:IncidentDescription>
2149 </IncidentInformation>
2150 <ContactInformation>
2151   <rme>ContactRole>Sender</rme>ContactRole>
2152   <rme:AdditionalContactInformation>
2153     <xpil:PartyName>
2154       <xnl:PersonName>
2155         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2156         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2157       </xnl:PersonName>
2158       <xnl:OrganisationName>
2159         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2160       </xnl:OrganisationName>
2161     </xpil:PartyName>
2162   </rme:AdditionalContactInformation>
2163 </ContactInformation>
2164 <ResourceInformation>
2165   <ResourceInfoElementID>001</ResourceInfoElementID>
2166   <ResponseInformation>
2167     <rme:PrecedingResourceInfoElementID>001</rme:PrecedingResourceInfoElementID>
2168     <rme:ResponseType>Accept</rme:ResponseType>
2169   </ResponseInformation>
2170 </ResourceInformation>
2171 </ResponseToRequestReturn>
```

2172

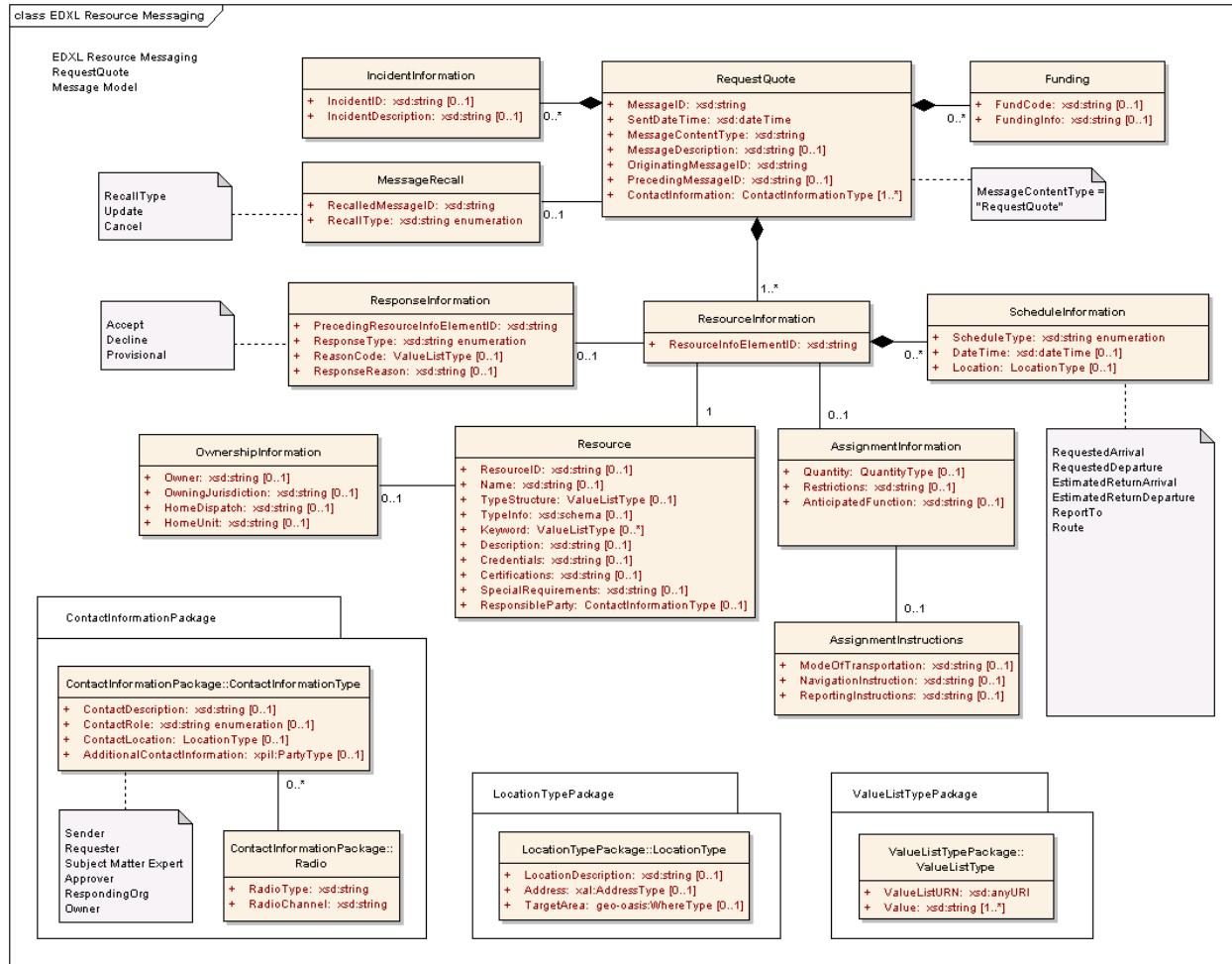
2173 **3.14 RequestQuote Message**

2174 **3.14.1 Overview**

2175 The “RequestQuote” message is used by the Resource Consumer to request a price quote from the  
2176 Resource Supplier.

2177 **3.14.2 Element Reference Model**

2178 Figure 14 below shows the EDXL-RM Element Reference Model (ERM) tailored for the RequestQuote  
2179 Message. The ERM shows the element-level details for the main entities in the RM.



2180 *Figure 14: EDXL-RM ERM for RequestQuote Message*

2181

2182

2183

2184 The following table outlines the element cardinalities for this message type.

2185

2186 *Table 14: RequestQuote Message Elements*

Parent Element	Sub-Elements
RequestQuote	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , <b>MessageDescription</b> , <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>ResponseInformation</b> , <b>Resource</b> , <b>AssignmentInformation</b> , <b>ScheduleInformation</b> <sup>*</sup>
ResponseInformation	<b>PrecedingResourceInfoElementID</b> , <b>ResponseType</b> , <i>ReasonCode</i> , <i>ResponseReason</i>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
AssignmentInformation	<i>Quantity</i> , <i>Restrictions</i> , <i>AnticipatedFunction</i> , <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , <i>DateTime</i> , <i>Location</i>

2187

### 2188 3.14.3 RequestQuote Message Rules

2189 The following rules apply to the above elements:

- 2190 • The RequestQuote:MessageID, RequestQuote:SentDateTime,  
2191 RequestQuote:MessageContentType, RequestQuote:OriginatingMessageID,  
2192 RequestQuote:ContactInformation, and RequestQuote:ResourceInformation elements MUST be  
2193 present.
- 2194 • The value of RequestQuote:MessageContentType MUST be “RequestQuote”.
- 2195 • If a RequestQuote:IncidentInformation element is present, then at least one of  
2196 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be  
2197 present.
- 2198 • If the RequestQuote:MessageRecall element is present, then the  
2199 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2200 • If a RequestQuote:Funding element is present, then at least one of Funding:FundCode and/or  
2201 Funding:FundingInfo elements MUST be present.
- 2202 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements  
2203 MUST be present.

- If the ResourceInformation:ResponseInformation element is present, then the ResponseInformation:PrecedingResourceElementID and "ResponseInformation:ResponseType" MUST be present.
- If ResponseInformation:ResponseType has a value of "Conditional", then at least one of ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST be present.
- At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be present for each ResourceInformation:Resource element present.
- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - "RequestedArrival", "RequestedDeparture", "EstimatedReturnDeparture", "EstimatedReturnArrival", "ReportTo" or "Route".

The schema for a RequestQuote message can be found in Appendix A.13.

### 3.14.4 Message Flow

The RequestQuote message is usually an initial message created and sent by the Resource Consumer to any number of Resource Suppliers.

The potential responses to this message include:

- ResponseToRequestQuote (See 3.15)
- This includes Accept, Decline, and Provisional responses.

The message may be canceled or updated through the RequestQuote:MessageRecall element.

### 3.14.5 Message Example

Below is an example RequestQuote message. This message requests quotes for a "Debris Management Team" (ResourceInfoElementID=001) and two "All Terrain Cranes" (ResourceInfoElementID=002).

[Note: The XML example shown in this section is informative only.]

```

<?xml version="1.0" encoding="UTF-8"?>
<RequestQuote xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
    EDXL-RMRequestQuote.xsd"
  xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
  xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
  xmlns:xpil="urn:oasis:names:tc:cii:xpil:3"
  xmlns:xnl="urn:oasis:names:tc:cii:xnl:3" xmlns:xal="urn:oasis:names:tc:cii:xal:3"
  xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
  <MessageID>urn:au-qld-eoc:77388</MessageID>
  <SentDateTime>2006-03-30T10:45:00+10:00</SentDateTime>
  <MessageContentType>RequestQuote</MessageContentType>
  <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
  <IncidentInformation>
    <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
  </IncidentInformation>
  <ContactInformation>
    <rm:ContactRole>Sender</rm:ContactRole>
    <rm:AdditionalContactInformation>
```

```

2254 <xpil:PartyName>
2255   <xnl:PersonName>
2256     <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2257     <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2258   </xnl:PersonName>
2259   <xnl:OrganisationName>
2260     <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2261   </xnl:OrganisationName>
2262 </xpil:PartyName>
2263 <xpil:ContactNumbers>
2264   <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
2265     xpil:ContactHours="9:00AM - 5:00PM"
2266     <xpil:ContactNumberElement
2267       xpil:Type="CountryCode">61</xpil:ContactNumberElement>
2268     <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
2269     <xpil:ContactNumberElement xpil:Type="LocalNumber">
2270       3000
2271       1234
2272     </xpil:ContactNumberElement>
2273   </xpil:ContactNumber>
2274 </xpil:ContactNumbers>
2275 <xpil:ElectronicAddressIdentifiers>
2276   <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
2277   </xpil:ElectronicAddressIdentifier>
2278 </xpil:ElectronicAddressIdentifiers>
2279 </rm:AdditionalContactInformation>
2280 </ContactInformation>
2281 <ResourceInformation>
2282   <ResourceInfoElementID>001</ResourceInfoElementID>
2283 <Resource>
2284   <TypeStructure>
2285     <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2286     <rm:Value>Debris Management Team</rm:Value>
2287   </TypeStructure>
2288   <Description>
2289     5 person team to clear roads of debris incl. fallen trees. </Description>
2290   <SpecialRequirements>
2291     Team to supply own equipment, such as trucks and chainsaws
2292   </SpecialRequirements>
2293 </Resource>
2294 <AssignmentInformation>
2295   <Quantity>
2296     <rm:MeasuredQuantity>
2297       <rm:Amount>1</rm:Amount>
2298     </rm:MeasuredQuantity>
2299   </Quantity>
2300   <AssignmentInstructions>
2301     <rm:ModeOfTransportation>Team's own trucks</rm:ModeOfTransportation>
2302   </AssignmentInstructions>
2303 </AssignmentInformation>
2304 <ScheduleInformation>
2305   <ScheduleType>ReportTo</ScheduleType>
2306   <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2307   <Location>
2308     <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2309     <rm:Address>
2310       <xal:Country>
2311         <xal:NameElement>Australia</xal:NameElement>
2312       </xal:Country>
2313       <xal:AdministrativeArea>
2314         <xal:NameElement>QLD</xal:NameElement>
2315       </xal:AdministrativeArea>
2316       <xal:Locality>
2317         <xal:NameElement>Innisfail</xal:NameElement>
2318       </xal:Locality>
2319       <xal:Thoroughfare>
2320         <xal:NameElement>Rankin St</xal:NameElement>
2321         <xal:Number>70</xal:Number>
2322       </xal:Thoroughfare>
2323     </rm:Address>
2324   </Location>

```

```

2325    </ScheduleInformation>
2326    <ScheduleInformation>
2327        <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2328        <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2329    </ScheduleInformation>
2330    </ResourceInformation>
2331    <ResourceInformation>
2332        <ResourceInfoElementID>002</ResourceInfoElementID>
2333        <Resource>
2334            <TypeStructure>
2335                <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2336                <rm:Value>All Terrain Crane</rm:Value>
2337            </TypeStructure>
2338            <Description> Crane with minimum boom reach of 150 feet. </Description>
2339        </Resource>
2340        <AssignmentInformation>
2341            <Quantity>
2342                <rm:MeasuredQuantity>
2343                    <rm:Amount>2</rm:Amount>
2344                </rm:MeasuredQuantity>
2345            </Quantity>
2346        </AssignmentInformation>
2347        <ScheduleInformation>
2348            <ScheduleType>ReportTo</ScheduleType>
2349            <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2350            <Location>
2351                <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2352                <rm:Address>
2353                    <xal:Country>
2354                        <xal:NameElement>Australia</xal:NameElement>
2355                    </xal:Country>
2356                    <xal:AdministrativeArea>
2357                        <xal:NameElement>QLD</xal:NameElement>
2358                    </xal:AdministrativeArea>
2359                    <xal:Locality>
2360                        <xal:NameElement>Innisfail</xal:NameElement>
2361                    </xal:Locality>
2362                    <xal:Thoroughfare>
2363                        <xal:NameElement>Rankin St</xal:NameElement>
2364                        <xal:Number>70</xal:Number>
2365                    </xal:Thoroughfare>
2366                </rm:Address>
2367            </Location>
2368        </ScheduleInformation>
2369        <ScheduleInformation>
2370            <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2371            <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2372        </ScheduleInformation>
2373    </ResourceInformation>
2374 </RequestQuote>

```

2375

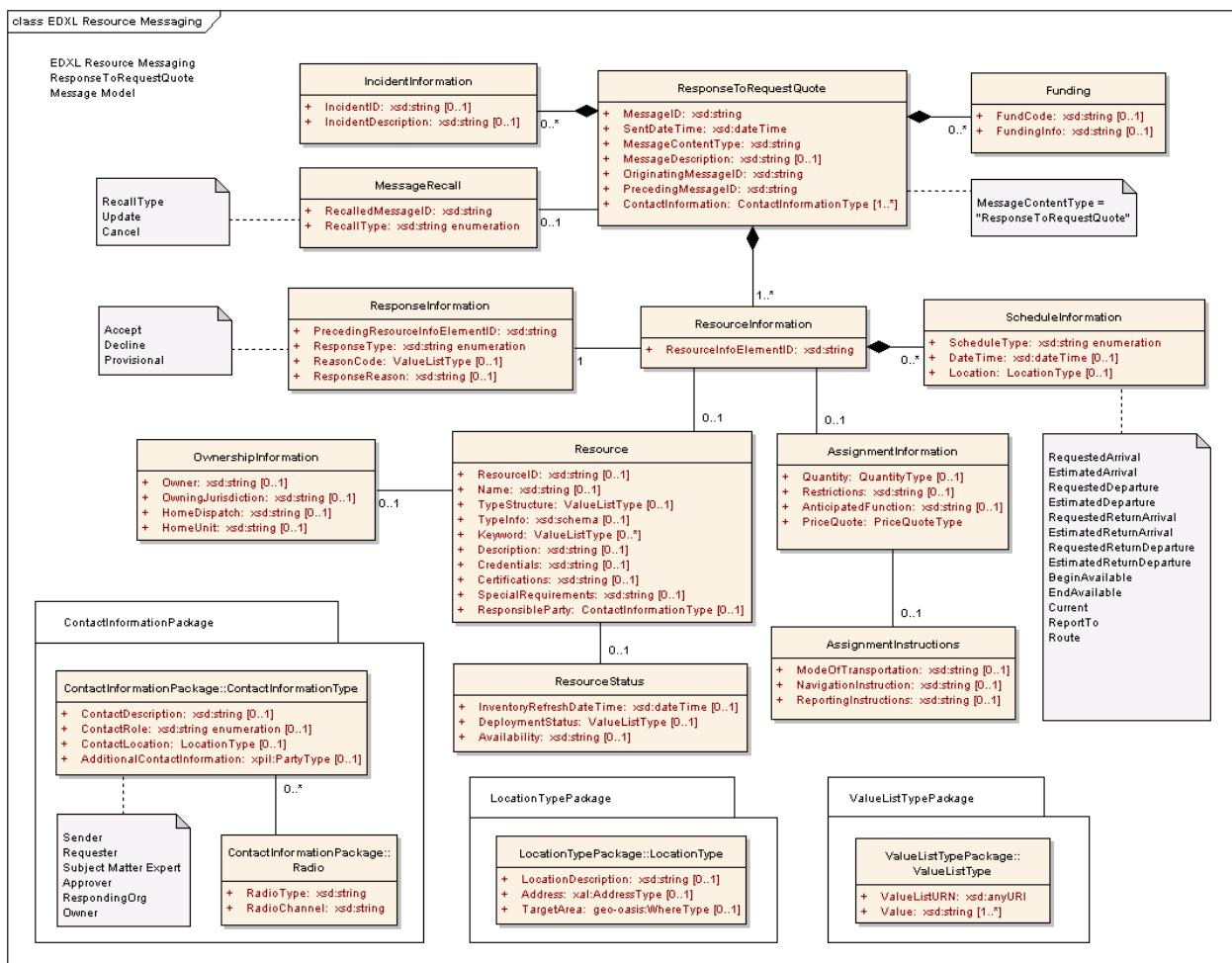
## 2376 3.15 ResponseToRequestQuote Message

### 2377 3.15.1 Overview

2378 The “ResponseToRequestQuote” message is used by the Resource Supplier to respond to a  
 2379 RequestQuote Message. The supplier may respond with pricing or decline to respond with pricing (i.e. a  
 2380 response that says that the Resource Supplier is unable to supply a requested quote). The Resource  
 2381 Supplier may provide quotes for several alternative resources that match a single resource request.

### 2382 3.15.2 Element Reference Model

2383 Figure 15 below shows the EDXL-RM Element Reference Model (ERM) tailored for the  
 2384 ResponseToRequestQuote Message. The ERM shows the element-level details for the main entities in  
 2385 the RM.



2386 2387 2388 2389 Figure 15: EDXL-RM ERM for ResponseToRequestQuote Message

2390 The following table outlines the element cardinalities for this message type.

2391

2392 *Table 15: ResponseToRequestQuote Message Elements*

Parent Element	Sub-Elements
ResponseToRequestQuote	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , MessageDescription, <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>ResponseInformation</b> , <i>Resource</i> , AssignmentInformation, ScheduleInformation <sup>*</sup>
ResponseInformation	<b>PrecedingResourceInfoElementID</b> , <b>ResponseType</b> , <i>ReasonCode</i> , <i>ResponseReason</i>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<i>InventoryRefreshDateTime</i> , <i>DeploymentStatus</i> , <i>Availability</i>
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, <b>PriceQuote</b> , AssignmentInstructions
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , <i>DateTime</i> , <i>Location</i>

2393

### 2394 3.15.3 ResponseToRequestQuote Message Rules

2395 The following rules apply to the above elements:

- 2396 • The ResponseToRequestQuote:MessageID, ResponseToRequestQuote:SentDateTime,  
2397 ResponseToRequestQuote:MessageContentType,  
2398 ResponseToRequestQuote:OriginatingMessageID,  
2399 ResponseToRequestQuote:PrecedingMessageID,  
2400 ResponseToRequestQuote:ContactInformation, and  
2401 ResponseToRequestQuote:ResourceInformation elements MUST be present.
- 2402 • The value of ResponseToRequestQuote:MessageContentType MUST be “ResponseToRequest  
2403 Quote”.
- 2404 • If a ResponseToRequestQuote:IncidentInformation element is present, then at least one of  
2405 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be  
2406 present.
- 2407 • If the ResponseToRequestQuote:MessageRecall element is present, then the  
2408 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- If a ResponseToRequestQuote:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- The ResourceInformation:ResourceInfoElementID and ResourceInformation:ResponseInformation elements MUST be present.
- If the ResponseInformation:ResponseType element has a value of “Accept” or “Provisional”, then the ResourceInformation:Resource element MUST be present.
- The ResponseInformation:PrecedingResourceInfoElementID and ResponseInformation:ResponseType elements MUST be present.
- If ResponseInformation:ResponseType has a value of “Provisional”, at least one of ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST be present.
- At least one of Resource:ResourceId, Resource:Name, and/or Resource>TypeStructure elements MUST be present for each ResourceInformation:Resource element present.
- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction element MUST be present.
- If a ResourceInformation:AssignmentInformation element is present, then the AssignmentInformation:PriceQuote element MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - “EstimatedArrival”, “RequestedArrival”, “RequestedDeparture”, “EstimatedDeparture”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “RequestedReturnArrival”, “EstimatedReturnArrival”, “BeginAvailable”, “EndAvailable”, “Current”, “ReportTo” or “Route”.

The schema for a ResponseToRequestQuote message can be found in Appendix A.14.

### **3.15.4 Message Flow**

The ResponseToRequestQuote message is sent by the Resource Supplier to the Resource Consumer in response to a RequestQuote message.

The potential responses to this message include:

- Request Information (See Section 3.8)
- RequisitionResource (See Section 3.6).

The message may be canceled or updated through the ResponseToRequestQuote:MessageRecall element.

### **3.15.5 Message Example**

Below is an example ResponseToRequestQuote message. The message is a possible response to the RequestQuote message shown in Section 3.14.5. The first quote request (“Debris Management Team”, ResourceInfoElementID=001) is accepted, while the second (“All Terrain Crane”, ResourceInfoElementID=002) is declined.

[Note: The XML example shown in this section is informative only.]

```
<?xml version="1.0" encoding="UTF-8"?>
<ResponseToRequestQuote xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg">
```

```

2454     EDXL-RMResponseToRequestQuote.xsd"
2455     xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2456     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2457     xmlns:xpil="urn:oasis:names:tc:cii:xpil:3"
2458     xmlns:xnl="urn:oasis:names:tc:cii:xnl:3" xmlns:xal="urn:oasis:names:tc:cii:xal:3"
2459     xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2460     <MessageID>urn:au-qld-eoc:77396</MessageID>
2461     <SentDateTime>2006-03-28T14:48:00+10:00</SentDateTime>
2462     <MessageContentType>ResponseToRequestQuote</MessageContentType>
2463     <MessageDescription>
2464         This message provides a quote for the services of a debris management team
2465         for the requested period of 3 weeks. We do not have any all-terrain cranes, and
2466         therefore unable to quote on this element of the request.
2467     </MessageDescription>
2468     <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
2469     <PrecedingMessageID>urn:au-qld-eoc:77388</PrecedingMessageID>
2470     <IncidentInformation>
2471         <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2472     </IncidentInformation>
2473     <ContactInformation>
2474         <rm:ContactRole>Sender</rm:ContactRole>
2475         <rm:AdditionalContactInformation>
2476             <xpil:PartyName>
2477                 <xnl:PersonName>
2478                     <xnl:NameElement xnl:ElementType="FirstName">Alison</xnl:NameElement>
2479                     <xnl:NameElement xnl:ElementType="LastName">Smith</xnl:NameElement>
2480                 </xnl:PersonName>
2481                 <xnl:OrganisationName>
2482                     <xnl:NameElement>QBuild</xnl:NameElement>
2483                     </xnl:OrganisationName>
2484                 </xpil:PartyName>
2485             </rm:AdditionalContactInformation>
2486         </ContactInformation>
2487         <ContactInformation>
2488             <rm:ContactRole>Requester</rm:ContactRole>
2489             <rm:AdditionalContactInformation>
2490                 <xpil:PartyName>
2491                     <xnl:PersonName>
2492                         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2493                         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2494                     </xnl:PersonName>
2495                     <xnl:OrganisationName>
2496                         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2497                         </xnl:OrganisationName>
2498                     </xpil:PartyName>
2499             </rm:AdditionalContactInformation>
2500         </ContactInformation>
2501     <ResourceInformation>
2502         <ResourceInfoElementID>001</ResourceInfoElementID>
2503         <ResponseInformation>
2504             <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2505             <rm:ResponseType>Accept</rm:ResponseType>
2506         </ResponseInformation>
2507         <Resource>
2508             <TypeStructure>
2509                 <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2510                 <rm:Value>Debris Management Team</rm:Value>
2511             </TypeStructure>
2512             <Description>
2513                 5 person team to clear roads of debris incl. fallen trees. </Description>
2514             <SpecialRequirements>
2515                 Team to supply own equipment, such as trucks and chainsaws
2516             </SpecialRequirements>
2517         </Resource>
2518         <AssignmentInformation>
2519             <Quantity>
2520                 <rm:MeasuredQuantity>
2521                     <rm:Amount>1</rm:Amount>
2522                 </rm:MeasuredQuantity>
2523             </Quantity>
2524             <PriceQuote>

```

```

2525 <rm:QuantityText>Daily rate: $2100</rm:QuantityText>
2526 <rm:QuantityText>Total before tax: $31500</rm:QuantityText>
2527 <rm:QuantityText>Tax: $3150</rm:QuantityText>
2528 <rm:QuantityText>Total including tax: $34650</rm:QuantityText>
2529 <rm:QuantityText>
2530     NOTES: Accommodation for the team will be organised and paid by us. Team will
2531     work Mon-Fri for 3 weeks.Total including tax: $34650</rm:QuantityText>
2532 </PriceQuote>
2533 </AssignmentInformation>
2534 <ScheduleInformation>
2535     <ScheduleType>BeginAvailable</ScheduleType>
2536     <DateTime>2006-03-31T15:00:00+10:00</DateTime>
2537 </ScheduleInformation>
2538 <ScheduleInformation>
2539     <ScheduleType>ReportTo</ScheduleType>
2540     <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2541 <Location>
2542     <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2543     <rm:Address>
2544         <xal:Country>
2545             <xal:NameElement>Australia</xal:NameElement>
2546         </xal:Country>
2547         <xal:AdministrativeArea>
2548             <xal:NameElement>QLD</xal:NameElement>
2549         </xal:AdministrativeArea>
2550         <xal:Locality>
2551             <xal:NameElement>Innisfail</xal:NameElement>
2552         </xal:Locality>
2553         <xal:Thoroughfare>
2554             <xal:NameElement>Rankin St</xal:NameElement>
2555             <xal:Number>70</xal:Number>
2556         </xal:Thoroughfare>
2557     </rm:Address>
2558 </Location>
2559 </ScheduleInformation>
2560 <ScheduleInformation>
2561     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2562     <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2563 </ScheduleInformation>
2564 </ResourceInformation>
2565 <ResourceInformation>
2566     <ResourceInfoElementID>002</ResourceInfoElementID>
2567     <ResponseInformation>
2568         <rm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>
2569         <rm:ResponseType>Decline</rm:ResponseType>
2570     </ResponseInformation>
2571 </ResourceInformation>
2572 </ResponseToRequestQuote>

```

2573

2574 **3.16 RequestResourceDeploymentStatus Message**

2575 **3.16.1 Overview**

2576 The “RequestResourceDeploymentStatus” message is used to request the current status of one or more  
 2577 deployed resources. It can be sent by the Resource Supplier to the Resource Consumer (e.g., to check  
 2578 the status of the resource after a “ReleaseResource” message) or by the Resource Consumer to the  
 2579 Resource Supplier (e.g., to track the progress of a resource after a “RequisitionResource” message).

2580 **3.16.2 Element Reference Model**

2581 Figure 16 below shows the EDXL-RM Element Reference Model (ERM) tailored for the  
 2582 RequestResourceDeploymentStatus Message. The ERM shows the element-level details for the main  
 2583 entities in the RM.

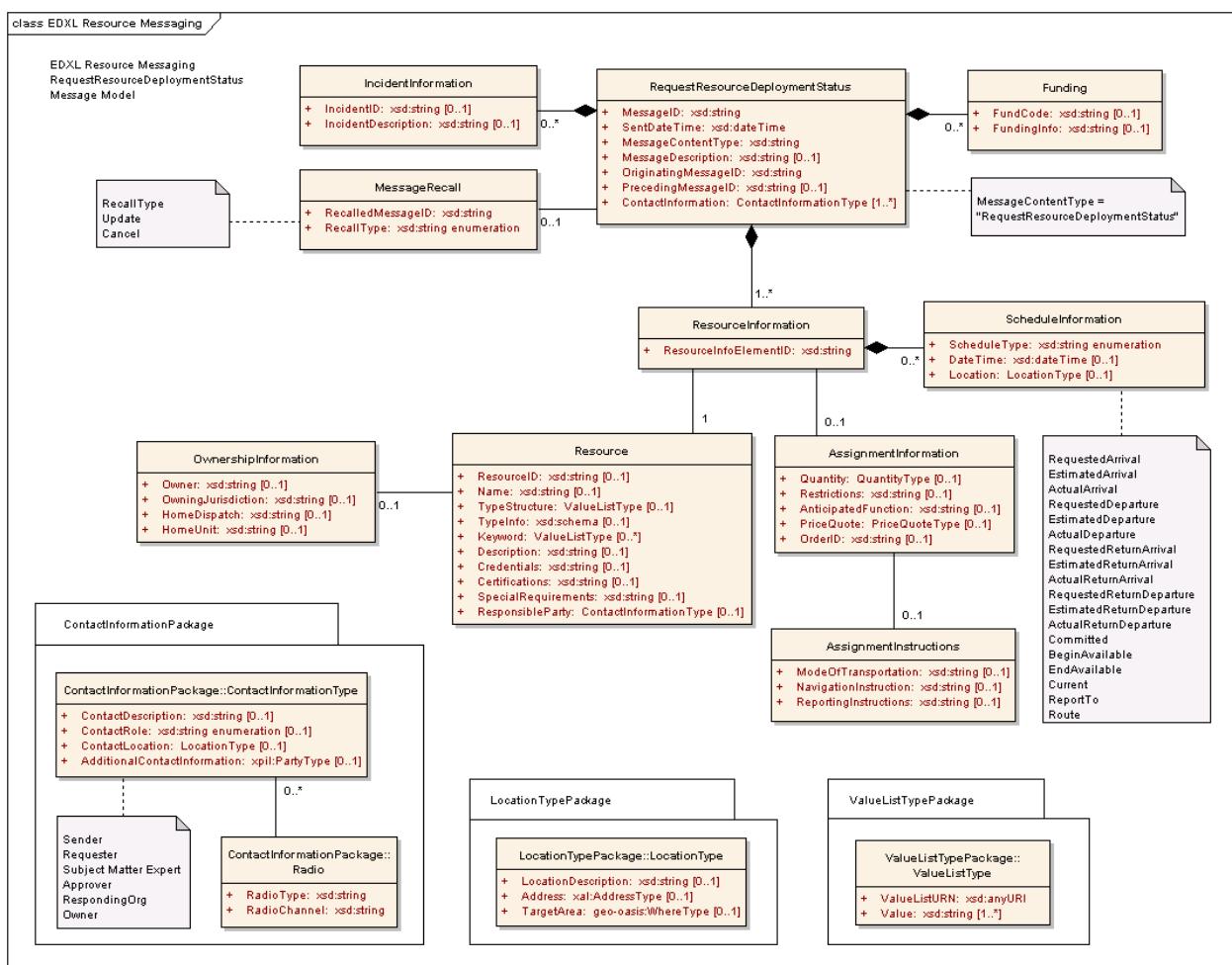


Figure 16: EDXL-RM ERM for RequestResourceDeploymentStatus Message

2584

2585

2586

2587

2588 The following table outlines the element cardinalities for this message type.

2589

2590 *Table 16: RequestResourceDeploymentStatus Message Elements*

Parent Element	Sub-Elements
RequestResourceDeploymentStatus	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , MessageDescription, <b>OriginatingMessageID</b> , PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, <b>ContactInformation</b> *, <b>ResourceInformation</b> *
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>Resource</b> , AssignmentInformation, ScheduleInformation*
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> *, <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , HomeDispatch, HomeUnit
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , DateTime, Location

2591

### 2592 3.16.3 RequestResourceDeploymentStatus Message Rules

2593 The following rules apply to the above elements:

- 2594     • The RequestResourceDeploymentStatus:MessageID,  
2595         RequestResourceDeploymentStatus:SentDateTime,  
2596         RequestResourceDeploymentStatus:MessageContentType,  
2597         RequestResourceDeploymentStatus:OriginatingMessageID,  
2598         RequestResourceDeploymentStatus:ContactInformation, and  
2599         RequestResourceDeploymentStatus:ResourceInformation elements MUST be present.
- 2600     • The value of RequestResourceDeploymentStatus:MessageContentType MUST be  
2601         “RequestResourceDeploymentStatus”.
- 2602     • If a RequestResourceDeploymentStatus:IncidentInformation element is present, then at least one  
2603         of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST  
2604         be present.
- 2605     • If the RequestResourceDeploymentStatus:MessageRecall element is present, then the  
2606         MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2607     • If a RequestResourceDeploymentStatus:Funding element is present, then at least one of  
2608         Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2609     • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements  
2610         MUST be present.

- At least one of Resource:ResourceID, Resource:Name, and/or Resource>TypeStructure element MUST be present for each ResourceInformation:Resource element present.
- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
- “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”, “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “ActualReturnDeparture”, “RequestedReturnArrival”, “EstimatedReturnArrival”, “ActualReturnArrival”, “BeginAvailable”, “EndAvailable”, “Committed”, “Current”, “ReportTo” or “Route”.

The schema for a RequestResourceDeploymentStatus message can be found in Appendix A.15.

### **3.16.4 Message Flow**

The RequestResourceDeploymentStatus message can be sent from the Resource Supplier to the Resource Consumer, or from the Resource Consumer to the Resource Supplier, any time after a resource is requisitioned or committed.

The potential responses to this message include:

- ReportResourceDeploymentStatus (See Section 3.17)
- This may include Accept, Decline, and Provisional responses.

The message may be canceled or updated through the RequestResourceDeploymentStatus:MessageRecall element.

### **3.16.5 Message Example**

Below is an example RequestResourceDeploymentStatus message. This message requests the deployment status of the “Small Animal Sheltering Team”; it follows on from the example CommitResource message in Section 3.7.5, and precedes the ReleaseResource message in Section 3.11.5 .

[Note: The XML example shown in this section is informative only.]

```

<?xml version="1.0" encoding="UTF-8"?>
<RequestResourceDeploymentStatus xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2644    xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2645        EDXL-RMRequestResourceDeploymentStatus.xsd"
2646    xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2647    xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2648    xmlns:xpil="urn:oasis:names:tc:ciiq:xpil:3"
2649    xmlns:xnl="urn:oasis:names:tc:ciiq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciiq:xal:3"
2650    xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2651        <MessageID>urn:au-qld-eoc:997958</MessageID>
2652        <SentDateTime>2006-03-25T09:05:00+10:00</SentDateTime>
2653        <MessageContentType>RequestResourceDeploymentStatus</MessageContentType>
2654        <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2655        <IncidentInformation>
2656            <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2657        </IncidentInformation>
2658        <ContactInformation>
2659            <rm>ContactRole>Sender</rm>ContactRole>
2660            <rm:AdditionalContactInformation>
```

```
2662 <xpil:PartyName>
2663   <xnl:PersonName>
2664     <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2665     <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2666   </xnl:PersonName>
2667   <xnl:OrganisationName>
2668     <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2669   </xnl:OrganisationName>
2670 </xpil:PartyName>
2671 </rm:AdditionalContactInformation>
2672 </ContactInformation>
2673 <ResourceInformation>
2674   <ResourceInfoElementID>001</ResourceInfoElementID>
2675   <Resource>
2676     <TypeStructure>
2677       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2678       <rm:Value>Small Animal Sheltering Team</rm:Value>
2679     </TypeStructure>
2680   </Resource>
2681   <AssignmentInformation>
2682     <Quantity>
2683       <rm:MeasuredQuantity>
2684         <rm:Amount>1</rm:Amount>
2685       </rm:MeasuredQuantity>
2686     </Quantity>
2687   </AssignmentInformation>
2688   <ScheduleInformation>
2689     <ScheduleType>EstimatedArrival</ScheduleType>
2690     <DateTime>2006-03-25T09:30:00+10:00</DateTime>
2691     <Location>
2692       <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
2693     </Location>
2694   </ScheduleInformation>
2695   <ScheduleInformation>
2696     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2697     <DateTime>2006-03-30T17:00:00+10:00</DateTime>
2698   </ScheduleInformation>
2699   <ScheduleInformation>
2700     <ScheduleType>Committed</ScheduleType>
2701     <DateTime>2006-03-21T12:46:00+10:00</DateTime>
2702   </ScheduleInformation>
2703 </ResourceInformation>
2704 </RequestResourceDeploymentStatus>
```

2705

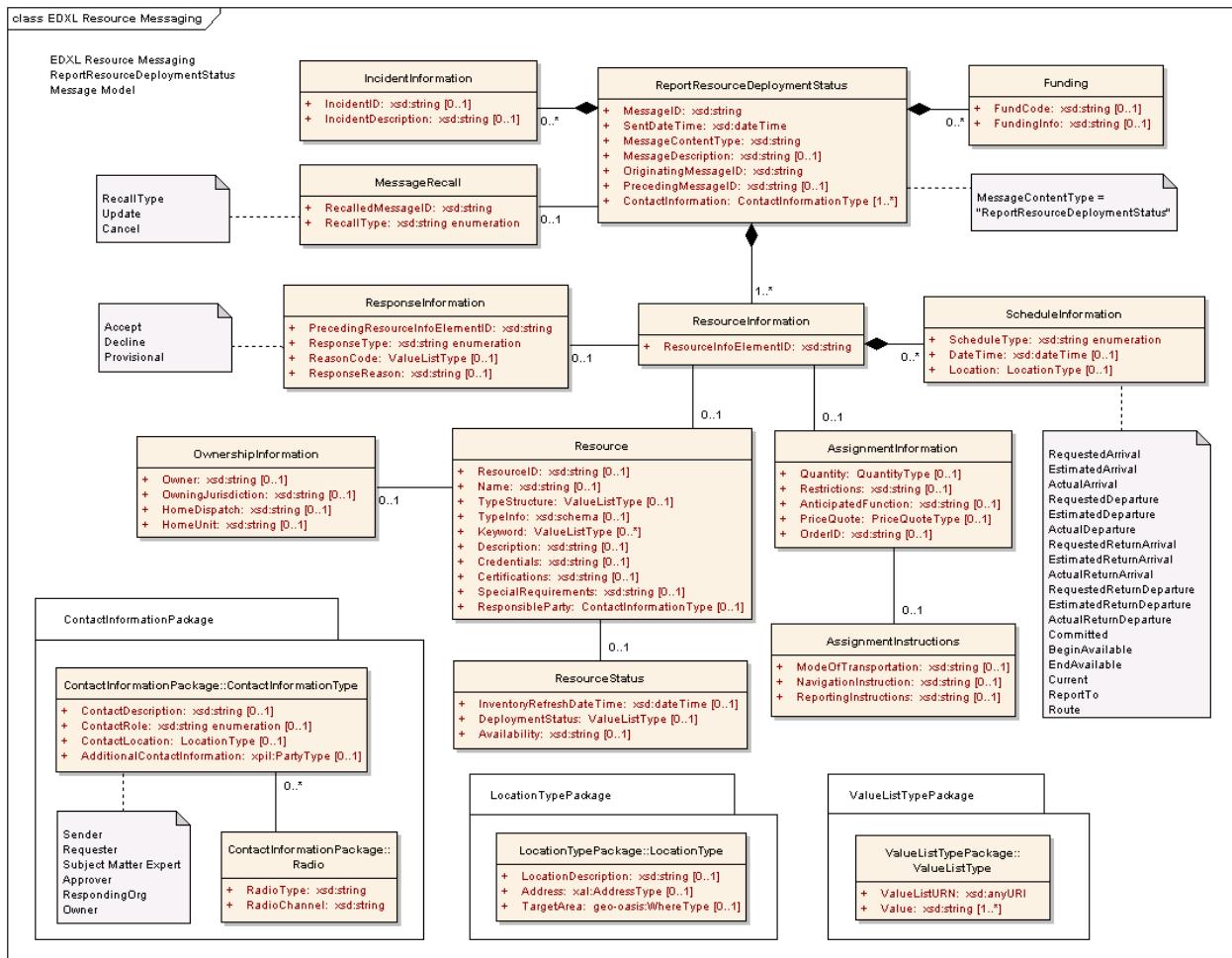
## 2706 3.17 ReportResourceDeploymentStatus Message

### 2707 3.17.1 Overview

2708 The “ReportResourceDeploymentStatus” message is used to report on the current status of any deployed  
 2709 resource. The message can be sent from the Resource Supplier to the Resource Consumer, or from the  
 2710 Resource Consumer to the Resource Supplier.

### 2711 3.17.2 Element Reference Model

2712 Figure 17 below shows the EDXL–RM Element Reference Model (ERM) tailored for the  
 2713 ReportResourceDeploymentStatus Message. The ERM shows the element-level details for the main  
 2714 entities in the RM.



2715  
 2716 *Figure 17: EDXL-RM ERM for ReportResourceDeploymentStatus Message*

2717  
 2718

2719 The following table outlines the element cardinalities for this message type.

2720

2721 *Table 17: ReportResourceDeploymentStatus Message Elements*

Parent Element	Sub-Elements
ReportResourceDeploymentStatus	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , MessageDescription, <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>ResponseInformation</b> , <b>Resource</b> , <b>AssignmentInformation</b> , <b>ScheduleInformation</b> <sup>*</sup>
ResponseInformation	<b>PrecedingResourceInfoElementID</b> , <b>ResponseType</b> , <i>ReasonCode</i> , <i>ResponseReason</i>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<i>InventoryRefreshDateTime</i> , <i>DeploymentStatus</i> , <i>Availability</i>
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , <i>DateTime</i> , <i>Location</i>

2722

### 2723 3.17.3 ReportResourceDeploymentStatus Message Rules

2724 The following rules apply to the above elements:

- 2725 • The ReportResourceDeploymentStatus:MessageID,  
2726 ReportResourceDeploymentStatus:SentDateTime,  
2727 ReportResourceDeploymentStatus:MessageContentType,  
2728 ReportResourceDeploymentStatus:OriginatingMessageID,  
2729 ReportResourceDeploymentStatus:ContactInformation, and  
2730 ReportResourceDeploymentStatus:ResourceInformation elements MUST be present.
- 2731 • The value of ReportResourceDeploymentStatus:MessageContentType MUST be  
2732 “ReportResourceDeploymentStatus”.
- 2733 • If a ReportResourceDeploymentStatus:IncidentInformation element is present, then at least one  
2734 of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST  
2735 be present.
- 2736 • If the ReportResourceDeploymentStatus:MessageRecall element is present, then the  
2737 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- If a ReportResourceDeploymentStatus:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements MUST be present.
- If the ResourceInformation:ResponseInformation element is present, then the ResponseInformation:PrecedingResourceInfoElementID and ResponseInformation:ResponseType elements MUST be present.
- If the ResponseInformation:ResponseType element has a value of “Provisional”, at least one of ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST be present.
- At least one of Resource:ResourceID, Resource:Name, and/or Resource>TypeStructure element MUST be present for each ResourceInformation:Resource element present.
- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”, “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “ActualReturnDeparture”, “RequestedReturnArrival”, “EstimatedReturnArrival”, “ActualReturnArrival”, “BeginAvailable”, “EndAvailable”, “Committed”, “Current”, “ReportTo” or “Route”.

The schema for a ReportResourceDeploymentStatus message can be found in Appendix A.16.

### 3.17.4 Message Flow

The ReportResourceDeploymentStatus message can be sent from the Resource Supplier to the Resource Consumer, or from the Resource Consumer to the Resource Supplier, any time after a resource is requisitioned or committed. The message MAY be sent in response to an earlier RequestResourceDeploymentStatus message. (See Section 3.16)

The message may be canceled or updated through the EDXLResourceMessage:MessageRecall element.

### 3.17.5 Message Example

Below is an example ReportResourceDeploymentStatus message. This message shows a possible response to the RequestResourceDeploymentStatus message in Section 3.16.

[Note: The XML example shown in this section is informative only.]

---

```

<?xml version="1.0" encoding="UTF-8"?>
<ReportResourceDeploymentStatus xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
    EDXL-RMReportResourceDeploymentStatus.xsd"
  xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
  xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
  xmlns:xpil="urn:oasis:names:tc:cii:xpil:3"
  xmlns:xnl="urn:oasis:names:tc:cii:xnl:3" xmlns:xal="urn:oasis:names:tc:cii:xal:3"
  xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
  <MessageID>urn:au-qld-eoc:997967</MessageID>
  <SentDateTime>2006-03-25T09:16:00+10:00</SentDateTime>
  <MessageContentType>ReportResourceDeploymentStatus</MessageContentType>
  <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
  <PrecedingMessageID>urn:au-qld-eoc:997958</PrecedingMessageID>

```

---

```

2788 <IncidentInformation>
2789   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2790 </IncidentInformation>
2791 <ContactInformation>
2792   <rm>ContactRole>Sender</rm>ContactRole>
2793   <rm:AdditionalContactInformation>
2794     <xpl:PartyName>
2795       <xnl:PersonName>
2796         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
2797         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
2798       </xnl:PersonName>
2799       <xnl:OrganisationName>
2800         <xnl:NameElement>EMA</xnl:NameElement>
2801       </xnl:OrganisationName>
2802     </xpl:PartyName>
2803   </rm:AdditionalContactInformation>
2804 </ContactInformation>
2805 <ContactInformation>
2806   <rm>ContactRole>Requester</rm>ContactRole>
2807   <rm:AdditionalContactInformation>
2808     <xpl:PartyName>
2809       <xnl:PersonName>
2810         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2811         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2812       </xnl:PersonName>
2813       <xnl:OrganisationName>
2814         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2815       </xnl:OrganisationName>
2816     </xpl:PartyName>
2817   </rm:AdditionalContactInformation>
2818 </ContactInformation>
2819 <ResourceInformation>
2820   <ResourceInfoElementID>001</ResourceInfoElementID>
2821   <ResponseInformation>
2822     <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2823     <rm:ResponseType>Accept</rm:ResponseType>
2824   </ResponseInformation>
2825   <Resource>
2826     <TypeStructure>
2827       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2828       <rm:Value>Small Animal Sheltering Team</rm:Value>
2829     </TypeStructure>
2830     <ResourceStatus>
2831       <DeploymentStatus>
2832         <rm:ValueListURN>urn:x-hazard:vocab:deploymentStatusTypes</rm:ValueListURN>
2833         <rm:Value>In Transit</rm:Value>
2834       </DeploymentStatus>
2835     </ResourceStatus>
2836   </Resource>
2837   <AssignmentInformation>
2838     <Quantity>
2839       <rm:MeasuredQuantity>
2840         <rm:Amount>1</rm:Amount>
2841       </rm:MeasuredQuantity>
2842     </Quantity>
2843   </AssignmentInformation>
2844   <ScheduleInformation>
2845     <ScheduleType>ActualDeparture</ScheduleType>
2846     <DateTime>2006-03-25T08:20:00+10:00</DateTime>
2847     <Location>
2848       <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2849     </Location>
2850   </ScheduleInformation>
2851   <ScheduleInformation>
2852     <ScheduleType>ActualArrival</ScheduleType>
2853     <DateTime>2006-03-25T09:00:00+10:00</DateTime>
2854     <Location>
2855       <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
2856     </Location>
2857   </ScheduleInformation>
2858   <ScheduleInformation>

```

```
2859 <ScheduleType>EstimatedArrival</ScheduleType>
2860 <DateTime>2006-03-25T09:40:00+10:00</DateTime>
2861 <Location>
2862   <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
2863 </Location>
2864 </ScheduleInformation>
2865 </ResourceInformation>
2866 </ReportResourceDeploymentStatus>
```

2867

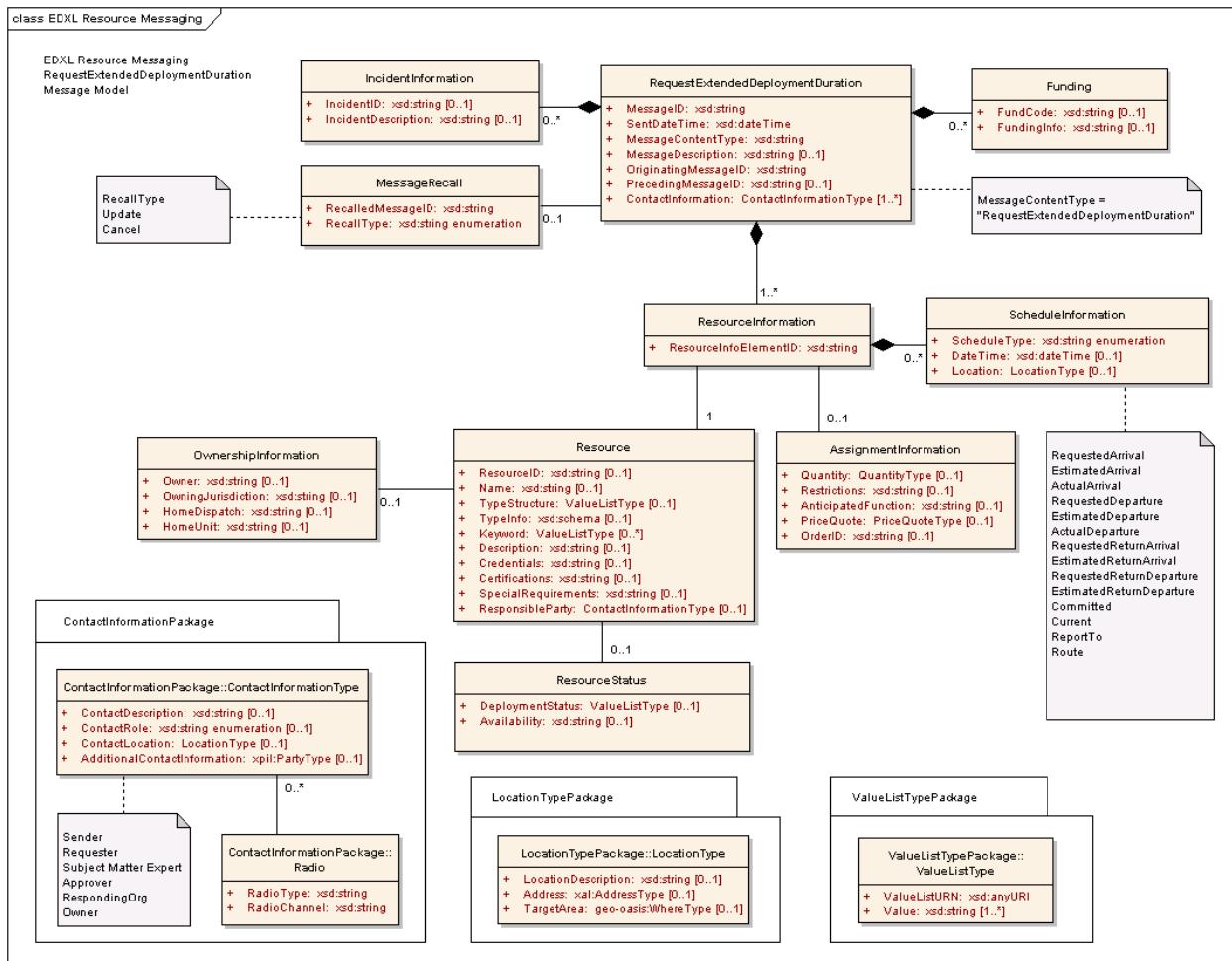
## 2868 3.18 RequestExtendedDeploymentDuration

### 2869 3.18.1 Overview

2870 The “RequestExtendedDeploymentDuration” message is sent by the Resource Consumer to the  
 2871 Resource Supplier when the Consumer wishes to retain one or more resources longer than previously  
 2872 agreed (e.g., in the original RequisitionResource and CommitResource messages).

### 2873 3.18.2 Element Reference Model

2874 Figure 18 below shows the EDXL–RM Element Reference Model (ERM) tailored for the  
 2875 RequestExtendedDeploymentDuration Message. The ERM shows the element-level details for the main  
 2876 entities in the RM.



2877  
 2878 Figure 18: EDXL-RM ERM for RequestExtendedDeploymentDuration Message  
 2879  
 2880

2881 The following table outlines the element cardinalities for this message type.

2882

2883 *Table 18: RequestExtendedDeploymentDuration Message Elements*

Parent Element	Sub-Elements
RequestExtendedDeploymentDuration	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , MessageDescription, <b>OriginatingMessageID</b> , PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, <b>ContactInformation</b> *, <b>ResourceInformation</b> *
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<i>FundCode</i> , <i>FundingInfo</i>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>Resource</b> , AssignmentInformation, ScheduleInformation*
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> *, <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , HomeDispatch, HomeUnit
ResourceStatus	DeploymentStatus, Availability
AssignmentInformation	Quantity, Restriction, AnticipatedFunction, PriceQuote, OrderID
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , DateTime, Location

2884

### 2885 3.18.3 RequestExtendedDeploymentDuration Message Rules

2886 The following rules apply to the above elements:

- 2887 • The RequestExtendedDeploymentDuration:MessageID,  
2888 RequestExtendedDeploymentDuration:SentDateTime,  
2889 RequestExtendedDeploymentDuration:MessageContentType,  
2890 RequestExtendedDeploymentDuration:OriginatingMessageID,  
2891 RequestExtendedDeploymentDuration:ContactInformation, and  
2892 RequestExtendedDeploymentDuration:ResourceInformation elements MUST be present.
- 2893 • The value of RequestExtendedDeploymentDuration:MessageContentType MUST be  
2894 “RequestExtendedDeploymentDuration”.
- 2895 • If a RequestExtendedDeploymentDuration:IncidentInformation element is present, then at least  
2896 one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements  
2897 MUST be present.
- 2898 • If the RequestExtendedDeploymentDuration:MessageRecall element is present, then the  
2899 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2900 • If a RequestExtendedDeploymentDuration:Funding element is present, then at least one of  
2901 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2902 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements  
2903 MUST be present.

- At least one of Resource:ResourceID, Resource:Name, and/or Resource>TypeStructure element MUST be present for each ResourceInformation:Resource element present.
- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- If a ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”, “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnArrival”, “EstimatedReturnArrival”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “Committed”, “Current”, “ReportTo” or “Route”.

The schema for a RequestExtendedDeploymentDuration message can be found in Appendix A.17.

### 3.18.4 Message Flow

The RequestExtendedDeploymentDuration message is sent from the Resource Consumer to the Resource Supplier after the Commit Resource message and prior to the Release Resource message.

The potential responses to this message include:

- ResponseToRequestExtendedDeploymentDuration (See Section 3.19)
- This includes Accept, Decline and Provisional responses.

The message may be canceled or updated through the RequestExtendedDeploymentDuration:MessageRecall element.

### 3.18.5 Message Example

Below is an example RequestExtendedDeploymentDuration message. This message follows on from the CommitResource message in Section 3.7.5 and precedes the RequestReturn and ReleaseResource messages in Sections 3.12.5 and 3.11.5 respectively.

[Note: The XML example shown in this section is informative only.]

```

<?xml version="1.0" encoding="UTF-8"?>
<RequestExtendedDeploymentDuration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
    EDXL-RMRequestExtendedDeploymentDuration.xsd"
  xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
  xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
  xmlns:xpil="urn:oasis:names:tc:ciiq:xpil:3"
  xmlns:xnl="urn:oasis:names:tc:ciiq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciiq:xal:3"
  xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
  <MessageID>urn:au-qld-eoc:997814</MessageID>
  <SentDateTime>2006-03-22T16:38:00+10:00</SentDateTime>
  <MessageContentType>RequestExtendedDeploymentDuration</MessageContentType>
  <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
  <IncidentInformation>
    <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
  </IncidentInformation>
  <ContactInformation>
    <rm>ContactRole>Sender</rm>ContactRole>
    <rm:AdditionalContactInformation>
      <xpil:PartyName>
        <xnl:PersonName>
          <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>

```

```
2956      <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2957    </xnl:PersonName>
2958    <xnl:OrganisationName>
2959      <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2960    </xnl:OrganisationName>
2961    </xpil:PartyName>
2962  </rm:AdditionalContactInformation>
2963</ContactInformation>
2964<ResourceInformation>
2965  <ResourceInfoElementID>001</ResourceInfoElementID>
2966<Resource>
2967  <TypeStructure>
2968    <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2969    <rm:Value>Small Animal Sheltering Team</rm:Value>
2970  </TypeStructure>
2971</Resource>
2972<AssignmentInformation>
2973  <Quantity>
2974    <rm:MeasuredQuantity>
2975      <rm:Amount>1</rm:Amount>
2976    </rm:MeasuredQuantity>
2977  </Quantity>
2978</AssignmentInformation>
2979<ScheduleInformation>
2980  <ScheduleType>RequestedReturnArrival</ScheduleType>
2981  <DateTime>2006-04-07T17:00:00+10:00</DateTime>
2982  <Location>
2983    <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2984  </Location>
2985</ScheduleInformation>
2986</ResourceInformation>
2987</RequestExtendedDeploymentDuration>
```

2988

2989

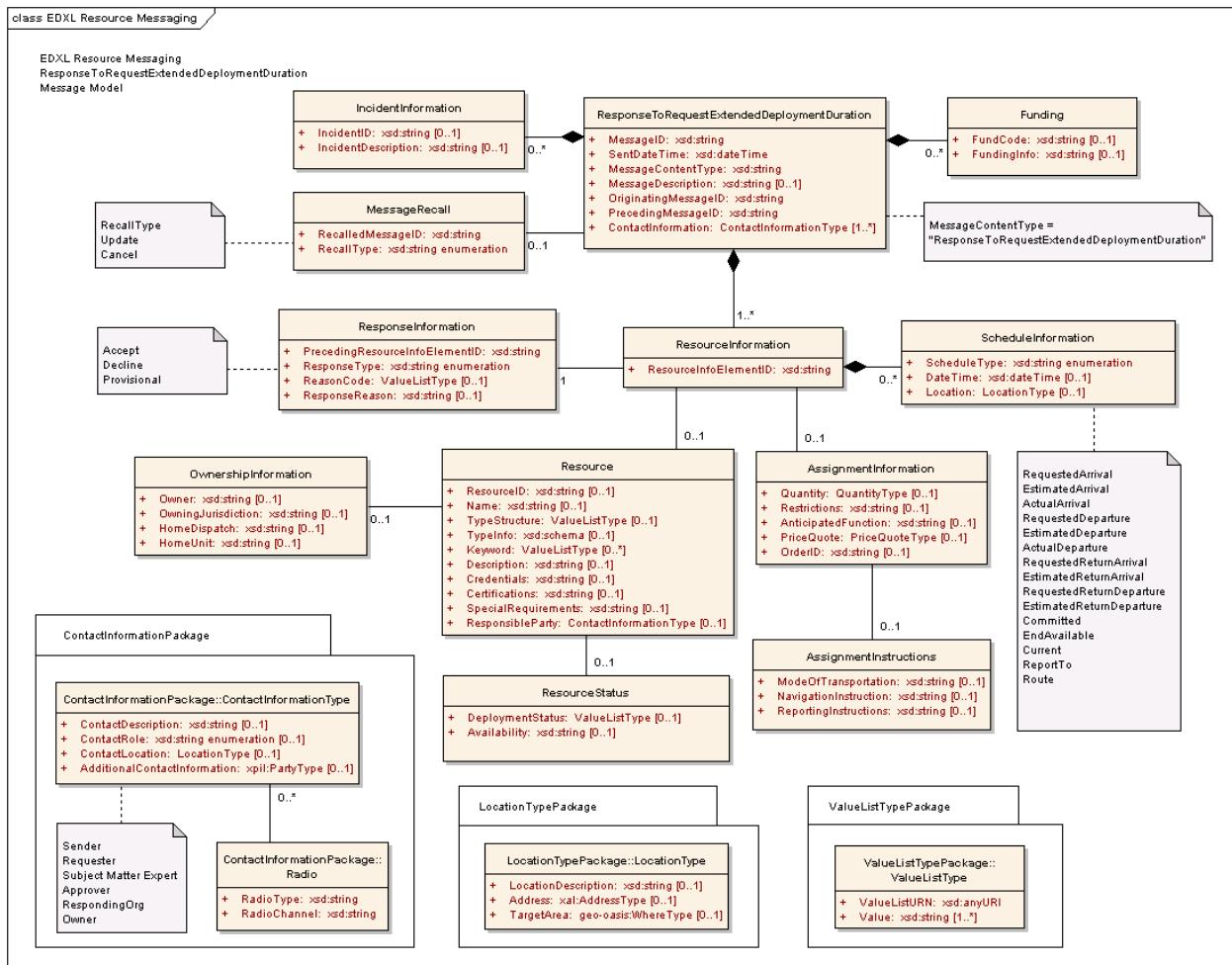
2990 **3.19 ResponseToRequestExtendedDeploymentDuration Message**

2991 **3.19.1 Overview**

2992 The “ResponseToRequestExtendedDeploymentDuration” message is used as the response to a  
 2993 “RequestExtendedDeploymentDuration” message. It allows the sender to accept, decline, or offer  
 2994 conditions upon which deployment duration of resources may be extended.

2995 **3.19.2 Element Reference Model**

2996 Figure 19 below shows the EDXL–RM Element Reference Model (ERM) tailored for the  
 2997 ResponseToRequestExtendedDeploymentDuration message. The ERM shows the element-level details  
 2998 for the main entities in the RM.



2999  
 3000 *Figure 19: EDXL-RM ERM for ResponseToRequestExtendedDeploymentDuration Message*

3001  
 3002

3003 The following table outlines the element cardinalities for this message type.

3004

3005 *Table 19: Response to RequestExtendedDeploymentDuration Message Elements*

Parent Element	Sub-Elements
ResponseToRequestExtendedDeploymentDuration	<b>MessageID</b> , <b>SentDateTime</b> , <b>MessageContentType</b> <sup>^</sup> , <b>MessageDescription</b> , <b>OriginatingMessageID</b> , <b>PrecedingMessageID</b> , <b>IncidentInformation</b> <sup>*</sup> , <b>MessageRecall</b> , <b>Funding</b> <sup>*</sup> , <b>ContactInformation</b> <sup>*</sup> , <b>ResourceInformation</b> <sup>*</sup>
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	<b>RecalledMessageID</b> , <b>RecallType</b>
Funding	<b>FundCode</b> , <b>FundingInfo</b>
ResourceInformation	<b>ResourceInfoElementID</b> , <b>ResponseInformation</b> , <b>Resource</b> , <b>AssignmentInformation</b> , <b>ScheduleInformation</b> <sup>*</sup>
ResponseInformation	<b>PrecedingResourceInfoElementID</b> , <b>ResponseType</b> , <i>ReasonCode</i> , <i>ResponseReason</i>
Resource	<i>ResourceID</i> , <i>Name</i> , <i>TypeStructure</i> , <i>TypeInfo</i> , <i>Keyword</i> <sup>*</sup> , <i>Description</i> , <i>Credentials</i> , <i>Certifications</i> , <i>SpecialRequirements</i> , <i>ResponsibleParty</i> , <i>OwnershipInformation</i> , <i>ResourceStatus</i>
OwnershipInformation	<i>Owner</i> , <i>OwningJurisdiction</i> , <i>HomeDispatch</i> , <i>HomeUnit</i>
ResourceStatus	<i>DeploymentStatus</i> , <i>Availability</i>
AssignmentInformation	<i>Quantity</i> , <i>Restrictions</i> , <i>AnticipatedFunction</i> , <i>PriceQuote</i> , <i>OrderID</i> , <i>AssignmentInstructions</i>
AssignmentInstructions	<i>ModeOfTransportation</i> , <i>NavigationInstructions</i> , <i>ReportingInstructions</i>
ScheduleInformation	<b>ScheduleType</b> <sup>^</sup> , <i>DateTime</i> , <i>Location</i>

3006

### 3.19.3 ResponseToRequestExtendedDeploymentDuration Message Rules

3007 The following rules apply to the above elements:

3008

- The ResponseToRequestExtendedDeploymentDuration:MessageID, ResponseToRequestExtendedDeploymentDuration:SentDateTime, ResponseToRequestExtendedDeploymentDuration:MessageContentType, ResponseToRequestExtendedDeploymentDuration:OriginatingMessageID, ResponseToRequestExtendedDeploymentDuration:PrecedingMessageID, ResponseToRequestExtendedDeploymentDuration:ContactInformation, and ResponseToRequestExtendedDeploymentDuration:ResourceInformation elements MUST be present.
- The value of ResponseToRequestExtendedDeploymentDuration:MessageContentType MUST be “ResponseToRequestExtendedDeploymentDuration”.

- If a ResponseToRequestExtendedDeploymentDuration:IncidentInformation element is present, then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be present.
- If the ResponseToRequestExtendedDeploymentDuration:MessageRecall element is present, then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- If a ResponseToRequestExtendedDeploymentDuration:Funding element is present, then at least one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- The ResourceInformation:ResourceInfoElementID and ResourceInformation:ResponseInformation elements MUST be present.
- The ResponseInformation:PrecedingResourceInfoElementID and ResponseInformation:ResponseType elements MUST be present.
- If the ResponseInformation:ResponseType element has a value of “Accept” or “Provisional”, then ResourceInformation:Resource element MUST be present. Otherwise, the ResourceInformation:Resource element is optional.
- If ResponseInformation:ResponseType has a value of “Provisional”, at least one of ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST be present.
- If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceId, Resource:Name, and/or Resource:TypeStructure elements MUST be present.
- If a Resource:OwnershipInformation element is present, then at least one of OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- If the ResourceInformation:ScheduleInformation element is present, then the ScheduleInformation:ScheduleType element MUST be present and contain one of the following values:
  - “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”, “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnArrival”, “EstimatedReturnArrival”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “Committed”, “EndAvailable”, “Current”, “ReportTo” or “Route”.

The schema for a ResponseToRequestExtendedDeploymentDuration message can be found in Appendix A.18.

### **3.19.4 Message Flow**

The ResponseToRequestExtendedDeploymentDuration message is sent from the Resource Supplier to the Resource Consumer in response to a RequestExtendedDeploymentDuration message.

The message may be canceled or updated through the ResponseToRequestExtendedDeploymentDuration:MessageRecall element.

### **3.19.5 Message Example**

Below is an example ResponseToRequestExtendedDeploymentDuration message. This message follows on from the example RequestExtendedDeploymentDuration message shown in Section 3.18.5 (declining the request).

[Note: The XML example shown in this section is informative only.]

```

3065 <?xml version="1.0" encoding="UTF-8"?>
3066 <ResponseToRequestExtendedDeploymentDuration
3067   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3068     xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
3069       EDXL-RMResponseToRequestExtendedDeploymentDuration.xsd"
3070   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3071   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3072   xmlns:xpil="urn:oasis:names:tc:ciiq:xpil:3"
3073   xmlns:xnl="urn:oasis:names:tc:ciiq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciiq:xal:3"
3074   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
3075 <MessageID>urn:au-qld-eoc:997816</MessageID>
3076 <SentDateTime>2006-03-22T17:02:00+10:00</SentDateTime>
3077 <MessageContentType>ResponseToRequestExtendedDeploymentDuration</MessageContentType>
3078 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
3079 <PrecedingMessageID>urn:au-qld-eoc:997814</PrecedingMessageID>
3080 <IncidentInformation>
3081   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
3082 </IncidentInformation>
3083 <ContactInformation>
3084   <rm:ContactRole>Sender</rm:ContactRole>
3085   <rm:AdditionalContactInformation>
3086     <xpil:PartyName>
3087       <xnl:PersonName>
3088         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
3089         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
3090       </xnl:PersonName>
3091       <xnl:OrganisationName>
3092         <xnl:NameElement>EMA</xnl:NameElement>
3093       </xnl:OrganisationName>
3094     </xpil:PartyName>
3095   </rm:AdditionalContactInformation>
3096 </ContactInformation>
3097 <ContactInformation>
3098   <rm:ContactRole>Requester</rm:ContactRole>
3099   <rm:AdditionalContactInformation>
3100     <xpil:PartyName>
3101       <xnl:PersonName>
3102         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
3103         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
3104       </xnl:PersonName>
3105       <xnl:OrganisationName>
3106         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
3107       </xnl:OrganisationName>
3108     </xpil:PartyName>
3109   </rm:AdditionalContactInformation>
3110 </ContactInformation>
3111 <ResourceInformation>
3112   <ResourceInfoElementID>001</ResourceInfoElementID>
3113   <ResponseInformation>
3114     <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
3115     <rm:ResponseType>Decline</rm:ResponseType>
3116     <rm:ResponseReason>
3117       Team is already committed elsewhere for the period of 4 to April.
3118     </rm:ResponseReason>
3119   </ResponseInformation>
3120   <Resource>
3121     <TypeStructure>
3122       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
3123       <rm:Value>Small Animal Sheltering Team</rm:Value>
3124     </TypeStructure>
3125   </Resource>
3126   <AssignmentInformation>
3127     <Quantity>
3128       <rm:MeasuredQuantity>
3129         <rm:Amount>1</rm:Amount>
3130       </rm:MeasuredQuantity>
3131     </Quantity>
3132   </AssignmentInformation>
3133   <ScheduleInformation>
3134     <ScheduleType>RequestedReturnArrival</ScheduleType>
3135     <DateTime>2006-04-07T17:00:00+10:00</DateTime>

```

```
3136 <Location>
3137   <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
3138   </Location>
3139   </ScheduleInformation>
3140   </ResourceInformation>
3141 </ResponseToRequestExtendedDeploymentDuration>
```

---

## 3142 4 Data Dictionary (NORMATIVE)

### 3143 4.1.1 EDXLResourceMessage ElementReferenceType Type

<b>Element</b>	MessageID
Type	MessageIDType [xsd:string]
Usage	<b>REQUIRED</b> , MUST be used once and only once
Definition	Each EDXL resource message contains an identifier that uniquely identifies the resource message.
Comments	<ul style="list-style-type: none"><li>The EDXL Distribution Element contains the "Distribution ID", which identifies the "container" for the distribution message information.</li></ul>
Requirements Supported	20

3144

<b>Element</b>	SentDateTime
Type	DateTimeType [xsd:dateTime]
Usage	<b>REQUIRED</b> , MUST be used once and only once
Definition	The system stamped date and time the resource message was sent. (1) The date and time is represented in <b>[dateTime]</b> format (e. g., "2002-05-24T16:49:00-07:00" for 24 May 2002 at 16: 49 PDT). (2) Alphabetic time zone designators such as "Z" MUST NOT be used. The time zone for UTC MUST be represented as "-00:00" or "+00:00".
Comments	<ul style="list-style-type: none"><li>Original requirement = ICS "Request Date/Time"</li></ul>
Requirements Supported	21

3145

<b>Element</b>	MessageContentType
Type	MessageContentTypeType [xsd:string]
Usage	<b>REQUIRED</b> , MUST be used once and only once

Definition	Specifies the purpose / type of resource content / payload being sent within the Resource Messaging – Element Reference Model
Constraints	<ul style="list-style-type: none"> <li>• Value MUST be one of the following:</li> </ul> <ol style="list-style-type: none"> <li>1. RequestResource</li> <li>2. ResponseToRequestResource</li> <li>3. RequisitionResource</li> <li>4. CommitResource</li> <li>5. RequestInformation</li> <li>6. ResponseToRequestInformation</li> <li>7. OfferUnsolicitedResource</li> <li>8. ReleaseResource</li> <li>9. RequestReturn</li> <li>10. ResponseToRequestReturn</li> <li>11. RequestQuote</li> <li>12. ResponseToRequestQuote</li> <li>13. RequestResourceDeploymentStatus</li> <li>14. ReportResourceDeploymentStatus</li> <li>15. RequestExtendedDeploymentDuration</li> <li>16. ResponseToRequestExtendedDeploymentDuration</li> </ol>
Requirements Supported	2,3,4,5,6,7,8,9,10,11,12,17

3146

Element	MessageDescription
Type	MessageDescriptionType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	Text field used to specify the information requested in a request for information and the response to a request for information. May also be used to include additional information in other message types.
Constraints	<ul style="list-style-type: none"> <li>• Conditional Usage: <ul style="list-style-type: none"> <li>◦ Required: <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestInformation”</li> </ul> </li> <li>◦ Optional: <ul style="list-style-type: none"> <li>▪ Otherwise</li> </ul> </li> </ul> </li> </ul>
Requirements	20

Supported	
-----------	--

3147

Element	OriginatingMessageID
Type	MessageIDType [xsd:string]
Usage	<b>REQUIRED</b> , MUST be used once and only once
Definition	Each EDXL resource message contains a MessageID that uniquely identifies the resource message. OriginatingMessageID identifies the MessageID of the first message in a message sequence to which the message belongs. If the message is itself the originating message in a new sequence, OriginatingMessageID will have the same value as the MessageID element. In some other cases, the OriginatingMessageID element will have the same value as the PrecedingMessageID element. The OriginatingMessageID value essentially forms a unique identifier for a group of related messages, linking them together so that the relationship between the messages is made explicit and unambiguous (and threads of messages can be tracked by resource management software).
Comments	<ul style="list-style-type: none"> <li>This MessageID is an EDXL-RM MessageID, not an EDXL-Distribution Element MessageID.</li> </ul>
Requirements Supported	20

3148

Element	PrecedingMessageID
Type	MessageIDType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	The PrecedingMessageID identifies the message that immediately preceded the current message in the message sequence. This MessageID is an EDXL-RM MessageID not an EDXL-Distribution Element MessageID.
Constraints	<ul style="list-style-type: none"> <li>Conditional Usage: <ul style="list-style-type: none"> <li>Required: <ul style="list-style-type: none"> <li><i>EDXLResourceMessage:MessageContentType = "ResponseToRequestResource"</i></li> <li><i>EDXLResourceMessage:MessageContentType = "CommitResource"</i></li> <li><i>EDXLResourceMessage:MessageContentType = "ResponseToRequestInformation"</i></li> <li><i>EDXLResourceMessage:MessageContentType = "ResponseToRequestReturn"</i></li> </ul> </li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “ResponseToRequestQuote”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “ResponseToRequestExtendedDeploymentDuration”</li> <li>○ Optional:           <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequisitionResource”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestInformation”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “ReleaseResource”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestReturn”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestQuote”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestResourceDeploymentStatus”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “ReportResourceDeploymentStatus”</li> </ul> </li> <li>○ Not Applicable:           <ul style="list-style-type: none"> <li>▪ Otherwise</li> </ul> </li> </ul>
--	--

3149

<b>Element</b>	ContactInformation
Type	ContactInformationType [XML structure]
Usage	<b>REQUIRED</b> , MUST be used at least once
Definition	The contact associated with the resource message.
Comments	<ul style="list-style-type: none"> <li>• Refer to Section 4.1.13.1 for ContactInformationType</li> <li>• There may be more than one contact given – message sender, requester, subject matter expert, approver, owner, etc.</li> </ul>

### 3150 4.1.2 IncidentInformation Element

<b>Element</b>	IncidentID
Type	IncidentIDType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.
Definition	The name or other identifier of the incident to which the current message refers.
Constraints	<ul style="list-style-type: none"> <li>• If an IncidentInformation element is present, then at least one of IncidentInformation:IncidentID or IncidentInformation:IncidentDescription</li> </ul>

	MUST be present
Requirements Supported	19

3151

Element	IncidentDescription
Type	IncidentDescriptionType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.
Definition	A free form description of the incident to which the current message refers.
Constraints	<ul style="list-style-type: none"> <li>If an IncidentInformation element is present, then at least one of IncidentInformation:IncidentID or IncidentInformation:IncidentDescription MUST be present</li> </ul>
Requirements Supported	19

3152

#### 4.1.3 MessageRecall Element

Element	RecalledMessageID
Type	MessageIDType [xsd:string]
Usage	<b>REQUIRED</b> , MUST be used once and only once.
Definition	The identifier of the previously sent message that is to be recalled. MessageRecall is used to replace a previously sent message by updating or canceling it.
Comments	<ul style="list-style-type: none"> <li>The MessageRecall element is Optional.</li> </ul>
Requirements Supported	14, 15

3153

Element	RecallType
Type	RecallTypeType [xsd:string]
Usage	<b>REQUIRED</b> , MUST be used once and only once.
Definition	Specifies the recall type as either an update or a cancel of the previously sent message. MessageRecall is used to replace a previously sent message which is then

	updated or cancelled.
Constraints	<ul style="list-style-type: none"> <li>▪ Value MUST be one of the following:           <ol style="list-style-type: none"> <li>1. Update</li> <li>2. Cancel</li> </ol> </li> </ul>
Comments	<ul style="list-style-type: none"> <li>• The MessageRecall element is Optional.</li> </ul>
Requirements Supported	14,15

3154 **4.1.4 Funding Element**

Element	FundCode
Type	FundCodeType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.
Definition	Identifies the funds that will pay for the resource
Constraints	<ul style="list-style-type: none"> <li>• The Funding element MUST be present in a Requisition Resource message.</li> <li>• If a Funding element is present, then at least one of Funding:FundCode or Funding:FundingInfo MUST be present</li> </ul>
Comments	<ul style="list-style-type: none"> <li>• Identified in support of NIMS Resource Management Guide NIC-GDL0004</li> <li>• This field may be used as a comma separated list of fund codes (e.g. "HP4347,RT45S")</li> </ul>
Requirements Supported	18, 24

3155

Element	FundingInfo
Type	FundingInfoType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.
Definition	Provides additional information on the funds that will pay for the resource
Constraints	<ul style="list-style-type: none"> <li>• A textual description of funding sources or distribution</li> <li>• The Funding element MUST be present in a Requisition Resource message.</li> <li>• If a Funding element is present, then at least one of Funding:FundCode or Funding:FundingInfo MUST be present</li> </ul>

Requirements Supported	18, 24
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3156

#### 4.1.5 ResourceInformation Element

<b>Element</b>	ResourceInfoElementID
<b>Type</b>	ResourceInfoElementIDType[xsd:string]
<b>Usage</b>	<b>REQUIRED</b> , MUST be used once and only once.
<b>Definition</b>	This element identifies the instance of ResourceInformation within the message. It does not identify the Resource.
<b>Comments</b>	<ul style="list-style-type: none"> <li>The purpose of this element is to uniquely identify the ResourceInformation element in future messages that refer to this message.</li> <li>The Resource is identified by a combination of one or more of ResourceID, Name and/or ResourceTypeStructure.</li> </ul>

3157

#### 4.1.6 ResponseInformation Element

<b>Element</b>	PrecedingResourceInfoElementID
<b>Type</b>	ResourceInfoElementIDType[xsd:string]
<b>Usage</b>	<b>REQUIRED</b> , MUST be used once and only once
<b>Definition</b>	This element identifies the instance of ResourceInformation within the message specified in the <i>EDXLResourceMessage:PrecedingMessageID</i> element.

3158

<b>Element</b>	ResponseType
<b>Type</b>	ResponseTypeType [xsd:string enumeration]
<b>Usage</b>	<b>REQUIRED</b> , MUST be used once and only once
<b>Definition</b>	Used to accept, decline, or provisionally accept a Request or Unsolicited Offer.
<b>Constraints</b>	<ul style="list-style-type: none"> <li>Value MUST be one of the following:           <ol style="list-style-type: none"> <li>Accept</li> <li>Decline</li> <li>Provisional</li> </ol> </li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>The “ResponseReason” element is associated with a “Provisional” or</li> </ul>

	“Decline” value.
Requirements Supported	6.29

3159

Element	ReasonCode
Type	ValueListType[XML structure]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	Code from a managed list that offers an explanation for a declined or provisional response to a Request or Unsolicited Offer.
Constraints	<ul style="list-style-type: none"> <li>▪ If the ResponseInformation:ResponseType element has a value of “Provisional”, then at least one of the ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST be present.</li> </ul>
Requirements Supported	6.29

3160

Element	ResponseReason
Type	ResponseReasonType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	Explanation for a declined or provisional response to a Request, Response, Unsolicited Offer, or a Request Return.
Constraints	<ul style="list-style-type: none"> <li>▪ If the ResponseInformation:ResponseType element has a value of “Provisional”, then at least one of the ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST be present.</li> </ul>
Requirements Supported	6.29

3161

#### 4.1.7 Resource Element

Element	ResourceID
Type	ResourceIDType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.

Definition	This identifier (if available) is used to identify and track a resource.
Constraints	<ul style="list-style-type: none"> <li>At least one of Resource:ResourceID, Resource:Name or Resource&gt;TypeStructure MUST be present to identify a specific resource and the same element and value MUST be used consistently within a sequence from a common Originating Message.</li> </ul>
Requirements Supported	3,16,26

3162

Element	Name
Type	ResourceNameType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.
Definition	A name or title of the resource used for identification and tracking.
Constraints	<ul style="list-style-type: none"> <li>At least one of Resource:ResourceID, Resource:Name or Resource&gt;TypeStructure MUST be present to identify a specific resource and the same element and value MUST be used consistently within a sequence from a common Originating Message.</li> </ul>
Requirements Supported	3,16,18,26

3163

Element	TypeStructure
Type	ValueListType [XML structure]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.
Definition	<p>Uniform Resource Name (URN) paired with a string “keyword” value such as</p> <pre>&lt;TypeStructure&gt;     &lt;rm:ValueListURN&gt;urn:x-hazard:vocab:resourceTypes&lt;/rm:ValueListURN&gt;     &lt;rm:Value&gt;Debris Management Team&lt;/rm:Value&gt; &lt;/TypeStructure&gt;</pre> <p>for a certified list of resources maintained by the Community of Interest (for the value referenced.)</p>
Constraints	<ul style="list-style-type: none"> <li>At least one of Resource:ResourceID, Resource:Name or Resource&gt;TypeStructure MUST be present to identify a specific resource and the same element and value MUST be used consistently within a sequence from a common Originating Message for each Resource element present.</li> </ul>

Comments	<ul style="list-style-type: none"> <li>Refer to Section 4.1.13.3 for ValueListType</li> </ul>
Requirements Supported	3,16,25, 26

3164

Element	TypeInfo
Type	TypeInfoType [sequence of xsd:any]
Usage	<b>OPTIONAL</b> , MAY be used once and only once
Definition	The resource type as defined by either a Keyword structure or a valid schema.
Comments	<ul style="list-style-type: none"> <li>This element contains one or more child elements whose names and types depend on the value of the TypeStructure element.</li> </ul>
Requirements Supported	3,16,25,26

3165

Element	Keyword
Type	ValueListType [XML structure]
Usage	<b>OPTIONAL</b> , MAY be used one or more times
Definition	Any value from a discrete managed list, used to specify a keyword.
Comments	<ul style="list-style-type: none"> <li>Allows reference to a separate schema for enumerations. Example: ValueListURN= "http://www.dhs.gov/NiemEquipmentResources" and Value="Portable Radio", or ValueListURN= "http://www.eic.org/Package" and Value="DMAT – burn"</li> <li>A Type Structure is assumed to have an enumerated, allowed list.</li> <li>A Keyword is not restricted to a particular enumeration, a Keyword can be any word or string.</li> </ul>
Requirements Supported	3,16,25,26

3166

Element	Description
Type	DescriptionType [xsd:string]

Usage	<b>OPTIONAL</b> , MAY be used once and only once
Definition	Free Text description of resource or resource characteristics, situation requiring resource assistance, or statement of mission the resource satisfies.
Requirements Supported	3,7,16,18,26

3167

Element	Credentials
Type	CredentialsType [xsd:string]
Usage	<b>OPTIONAL</b> , MAY be used once and only once
Definition	Statements of resource qualifications showing that a person or role has a right to exercise official power
Comments	<ul style="list-style-type: none"> <li>Multiple credentials may be included as a comma-separated list. Example 1: "Splinting, bandaging, oxygen administration" Example 2: "A practitioner credentialed by a State to function as an EMT by a State Emergency Medical Services (EMS) system."</li> </ul>

3168

Element	Certifications
Type	CertificationsType [xsd:string]
Usage	<b>OPTIONAL</b> , MAY be used once and only once
Definition	Statements of recognition that a resource has met special requirements or qualifications within a field
Comments	<ul style="list-style-type: none"> <li>Multiple certifications may be included as a comma-separated list. Example 1: "ALS; Advanced First Aid &amp; CPR, BLS; Advanced First Aid &amp; CPR" Example 2: "<u>Pilot</u> – Commercial (instrument) or higher certificate and complete unit certification program", "<u>Pilot</u> – Private Pilot (instrument) or higher certificate and complete unit certification program" Example 3: "Trained to the HazMat First Responder Operational Level (NFPA 472); Comply with organization; Operations Level for support personnel as outlined in NFPA 1670"</li> </ul>

3169

Element	SpecialRequirements
Type	SpecialRequirementsType [xsd:string]

Usage	<b>OPTIONAL</b> , MAY be used once and only once
Definition	A description of any special needs related to the requested resource (e.g. must carry protective equipment)
Comments	<ul style="list-style-type: none"> <li>Not intended to carry certifications or capabilities.</li> </ul>
Requirements Supported	3,7,16,27

3170

Element	ResponsibleParty
Type	ContactInformationType [XML Structure]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	Contact Info for person currently responsible for resource
Comments	<ul style="list-style-type: none"> <li>Conditional Usage: <ul style="list-style-type: none"> <li>Not Applicable: <ul style="list-style-type: none"> <li><i>EDXLResourceMessage:MessageContentType = "RequestResource"</i></li> </ul> </li> <li>Optional, otherwise</li> </ul> </li> </ul>
Requirements Supported	3,7,16,27

3171

#### 4.1.8 OwnershipInformation Element

Element	Owner
Type	OwnerType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	The name of an agency or supplier that owns the resource (which may not be the home unit or dispatch). Also referred to as home agency.
Constraints	<ul style="list-style-type: none"> <li>At least one of OwnershipInformation:Owner or OwnershipInformation:OwningJurisdiction MUST be present for each OwnershipInformation element.</li> </ul>
Requirements	3,16,18

Supported	
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3172

<b>Element</b>	OwningJurisdiction
<b>Type</b>	OwningJurisdictionType [xsd:string]
<b>Usage</b>	<b>CONDITIONAL</b> , MAY be used once and only once
<b>Definition</b>	A geopolitical area in which an organization, person, or object has a specific range of authority for specified resources.
<b>Constraints</b>	<ul style="list-style-type: none"> <li>• At least one of OwnershipInformation:Owner or OwnershipInformation:OwningJurisdiction MUST be present for each OwnershipInformation element.</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>• Can be a code</li> </ul>
<b>Requirements Supported</b>	3, 16, 18

3173

<b>Element</b>	HomeDispatch
<b>Type</b>	HomeDispatchType [xsd:string]
<b>Usage</b>	<b>CONDITIONAL</b> , MAY be used once and only once
<b>Definition</b>	Resource home agency dispatch center name. This identifies the dispatch unit that has primary responsibility for maintaining information on the resource (e.g., Ft. Collins Dispatch Center, Rocky Mountain Area Coordination Center).
<b>Comments</b>	<ul style="list-style-type: none"> <li>▪ Conditional Usage:           <ul style="list-style-type: none"> <li>○ Not Applicable:               <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType = "RequestResource"</i></li> </ul> </li> <li>○ Optional, otherwise</li> </ul> </li> </ul>
<b>Requirements Supported</b>	18

3174

<b>Element</b>	HomeUnit
<b>Type</b>	HomeUnitType [xsd:string]

Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	The unit (office, district, organization, etc.) from which the resource typically works or is used (e.g., Manti-LaSalle National Forest/Sanpete District). When released from an assignment, the location to which the resource is released will usually be determined by the home unit.
Comments	<ul style="list-style-type: none"> <li>▪ Conditional Usage:           <ul style="list-style-type: none"> <li>○ Not Applicable:               <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType = "RequestResource"</i></li> </ul> </li> <li>○ Optional, otherwise</li> </ul> </li> </ul>
Requirements Supported	18

3175 **4.1.9 ResourceStatus Element**

Element	InventoryRefreshDateTime
Type	DateTimeType[xsd:dateTime]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	Date and time that resource inventory counts were last updated
Comments	<ul style="list-style-type: none"> <li>▪ Conditional Usage:           <ul style="list-style-type: none"> <li>○ Optional:               <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestResource"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "CommitResource"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "RequestInformation"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestInformation"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "OfferUnsolicitedResource"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestQuote"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ReportResourceDeploymentStatus"</i></li> </ul> </li> <li>○ Not Applicable, otherwise</li> </ul> </li> </ul>
Requirements Supported	2,12

3176

Element	DeploymentStatus
Type	ValueListType [XML structure]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	Any value from a discrete managed list, used to specify the general state of a resource if known.
Comments	<ul style="list-style-type: none"> <li>▪ Conditional Usage: <ul style="list-style-type: none"> <li>○ Required <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestReturn"</i></li> </ul> </li> <li>○ Optional: <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestResource"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "CommitResource"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "RequestInformation"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestInformation"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "OfferUnsolicitedResource"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ReleaseResource"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "RequestReturn"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestQuote"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ReportResourceDeploymentStatus"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "RequestExtendedDeploymentDuration"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestExtendedDeploymentDuration"</i></li> </ul> </li> <li>○ Not Applicable, otherwise</li> </ul> </li> <li>• Allows reference to a separate schema for enumerations. Example: ValueListURN= "http://www.dhs.gov/NIMSResourceStatus" and Value="Available". Example values include: <ul style="list-style-type: none"> <li>○ atBase-Available</li> <li>○ enroute-Unavailable</li> <li>○ on-scene-Unavailable</li> <li>○ returning-Unavailable</li> <li>○ Resource Maintenance</li> <li>○ Out of Service</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>○ Depleted</li> <li>○ Available</li> <li>○ Committed</li> <li>○ In Transit</li> <li>○ At incident (ROSS)</li> <li>○ Assigned</li> <li>○ In Camp</li> <li>○ Reassignment</li> <li>○ Return Transit</li> <li>○ Returned</li> <li>○ Demobilized</li> </ul>
Requirements Supported	18

3177

Element	Availability
Type	AvailabilityType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	Text to describe availability and limitations on availability. Resource availability refers to resource that it is present or ready for immediate use, or otherwise accessible or obtainable, or is qualified or willing to do something or to assume a responsibility.
Comments	<ul style="list-style-type: none"> <li>▪ Conditional Usage: <ul style="list-style-type: none"> <li>○ Required <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestReturn"</i></li> </ul> </li> <li>○ Optional: <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestResource"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "RequestInformation"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestInformation"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "OfferUnsolicitedResource"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ReleaseResource"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "RequestReturn"</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = "ResponseToRequestQuote"</i></li> </ul> </li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “ReportResourceDeploymentStatus”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestExtendedDeploymentDuration”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “ResponseToRequestExtendedDeploymentDuration”</li> <li>○ Not Applicable, otherwise</li> </ul>
Requirements Supported	3,16

3178

### 3179 4.1.10 AssignmentInformation Element

Element	Quantity
Type	QuantityType [XML structure]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	Description of amount of resource needed in both quantity and units of measure (if applicable).
Comments	<ul style="list-style-type: none"> <li>• This element carries quantity information expressed in one of two ways: <ul style="list-style-type: none"> <li>○ informally, as one or more lines of text (the <i>QuantityText</i> element); or</li> <li>○ formally, as an element (the <i>MeasuredQuantity</i> element) containing an amount (required) and a unit of measure (optional).</li> </ul> </li> </ul> <p>The unit of measure is expressed, in turn, as a uniform resource name (ValueListURN) identifying a managed code list of units of measure, paired with a code from that list (identifying a particular unit of measure).</p> <p>The use of the first alternative (the <i>QuantityText</i> element) is not recommended when the second alternative (the <i>MeasuredQuantity</i> element) can be used. For example, in a RequestResource message requesting 10000 liters of water, the second alternative (the <i>MeasuredQuantity</i> element) is the preferred one.</p> <p>A Community of Interest can either use an existing managed code list of units of measure, or define its own code list and use it.</p> <p>One possibility is to use one of the two lists specified in the Unified Code for Units of Measure [UCUM]: case-sensitive codes (“c/s”) and case-insensitive codes (“c/i”). It is recommended that the two following URNs be used within EDXL-RM messages to identify those two code lists (respectively):</p> <p style="padding-left: 40px;"><b>urn:oasis:names:tc:emergency:EDXL:RM:1.0:ucum:1.6:cs</b></p> <p style="padding-left: 40px;"><b>urn:oasis:names:tc:emergency:EDXL:RM:1.0:ucum:1.6:ci</b></p>
Constraints	<ul style="list-style-type: none"> <li>• Value MUST be non-negative.</li> <li>• Conditional Usage:</li> </ul>

	<ul style="list-style-type: none"> <li>○ Required           <ul style="list-style-type: none"> <li>▪ EDXLResourceMessage:MessageContentType = "ResponseToRequestResource" and ResponseInformation:ResponseType = "Accept"</li> <li>▪ EDXLResourceMessage:MessageContentType = "ResponseToRequestResource" and ResponseInformation:ResponseType = "Conditional"</li> <li>▪ EDXLResourceMessage:MessageContentType = "RequisitionResource"</li> <li>▪ EDXLResourceMessage:MessageContentType = "CommitResource"</li> <li>▪ EDXLResourceMessage:MessageContentType = "ReleaseResource"</li> </ul> </li> <li>○ Optional, otherwise.</li> </ul>
Requirements Supported	3,16,18,26

3180

Element	Restrictions
Type	RestrictionsType [xsd:string]
Usage	<b>OPTIONAL</b> , MAY be used once and only once
Definition	Description of a condition governing the availability of resources. E.g. condition for number of beds available may be "if patients have insurance". This may be thought of as a term/condition or a restriction on availability.
Requirements Supported	28

3181

Element	AnticipatedFunction
Type	AnticipatedFunctionType [xsd:string]
Usage	<b>OPTIONAL</b> , MAY be used once and only once
Definition	Anticipated function, task, job, or role to be provided by the requested resource.
Requirements Supported	18,28

3182

Element	PriceQuote
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Type	PriceQuoteType [XML structure]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	Description of quoted cost to acquire desired resource including currency, if the distinction is appropriate.
Comments	<ul style="list-style-type: none"> <li>This element carries price information expressed in one of two ways: <ul style="list-style-type: none"> <li>informally, as one or more lines of text (element QuantityText); or</li> <li>formally, as an element (element MeasuredQuantity) containing an amount (required) and a unit of measure (optional).</li> </ul> </li> </ul> <p>The unit of measure is expressed, in turn, as a uniform resource name (ValueListURN) identifying a managed code list of units of measure, paired with a code from that list (identifying a particular unit of measure—usually a currency).</p> <p>The use of the first alternative (the QuantityText element) is not recommended when the second alternative (the MeasuredQuantity element) can be used.</p> <p>A Community of Interest can either use an existing managed code list of units of measure, or define its own code list and use it.</p> <p>Usually, the unit of measure is a currency and the code list consists of the alphabetic currency codes specified in [ISO 4217] and summarized in [ISO 4217 codes]. It is recommended that the following URN be used within EDXL-RM messages to identify the alphabetic currency code list specified in [ISO 4217]:</p> <p style="text-align: center;"><b>urn:oasis:names:tc:emergency:EDXL:RM:1.0:iso4217:a</b></p> <ul style="list-style-type: none"> <li>Completed in response to a “RequestQuote”</li> <li>Conditional Usage: <ul style="list-style-type: none"> <li>Required <ul style="list-style-type: none"> <li><i>EDXLResourceMessage:MessageContentType = “ResponseToRequestQuote”</i></li> <li>May be indeterminate, i.e. “current market value.”</li> </ul> </li> <li>Not Applicable <ul style="list-style-type: none"> <li><i>EDXLResourceMessage:MessageContentType = “RequestResource”</i></li> <li><i>EDXLResourceMessage:MessageContentType = “RequestQuote”</i></li> </ul> </li> <li>Optional, otherwise</li> </ul> </li> </ul>
Requirements Supported	10,30

3183

Element	OrderID
Type	OrderIDType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once

Definition	Reference to the external system number or ID assigned by the ordering system or personnel meeting the request for resources that has been made.
Comments	<ul style="list-style-type: none"> <li>• There is no assurance of uniqueness between various external systems.</li> <li>• Conditional Usage: <ul style="list-style-type: none"> <li>◦ Optional <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “CommitResource”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestInformation”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “ResponseToRequestInformation”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “ReleaseResource”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestReturn”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “ResponseToRequestReturn”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestResourceDeploymentStatus”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “ReportResourceDeploymentStatus”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestExtendedDeploymentDuration”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “ResponseToRequestExtendedDeploymentDuration”</li> </ul> </li> <li>◦ Not Applicable, otherwise</li> </ul> </li> </ul>
Requirements Supported	18,30

### 3184 4.1.11 AssignmentInstructions Element

Element	ModeOfTransportation
Type	ModeOfTransportationType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	Method or mode used to transport the resource to or from the incident.
Comments	<ul style="list-style-type: none"> <li>• Conditional Usage: <ul style="list-style-type: none"> <li>◦ Not Applicable <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestResource”</li> <li>▪ <i>EDXLResourceMessage:MessageContentType</i> =</li> </ul> </li> </ul> </li> </ul>

	<p>“RequestExtendedDeploymentDuration”</p> <ul style="list-style-type: none"> <li>○ Optional, otherwise</li> </ul>
Requirements Supported	18,30

3185

<b>Element</b>	NavigationInstructions
Type	NavigationInstructionsType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	Instructions that define how to get to the “ReportTo” location.
Comments	<ul style="list-style-type: none"> <li>● Conditional Usage:           <ul style="list-style-type: none"> <li>○ Not Applicable               <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType = “RequestResource”</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = “RequestExtendedDeploymentDuration”</i></li> </ul> </li> <li>○ Optional, otherwise</li> </ul> </li> </ul>
Requirements Supported	28

3186

<b>Element</b>	ReportingInstructions
Type	ReportingInstructionsType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once
Definition	A text description which explains to whom or where the resource should report upon arrival. This could include a name for a person, place or functional role.
Comments	<ul style="list-style-type: none"> <li>● Conditional Usage:           <ul style="list-style-type: none"> <li>○ Not Applicable               <ul style="list-style-type: none"> <li>▪ <i>EDXLResourceMessage:MessageContentType = “RequestResource”</i></li> <li>▪ <i>EDXLResourceMessage:MessageContentType = “RequestExtendedDeploymentDuration”</i></li> </ul> </li> <li>○ Optional, otherwise</li> </ul> </li> </ul>

Requirements Supported	30
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3187

#### 4.1.12 ScheduleInformation Element

Element	ScheduleType
Type	ScheduleTypeType [xsd:string]
Usage	<b>REQUIRED</b> , MUST be used once and only once
Definition	A scheduled event that occurs at a particular time and/or at a particular location.
Constraints	<ul style="list-style-type: none"> <li>• Value <u>MUST</u> be one of the following:           <ol style="list-style-type: none"> <li>1. RequestedArrival               <ul style="list-style-type: none"> <li>▪ When the resource is needed. Completed for Resource requests, returns, etc.</li> <li>▪ ICS uses the term "delivery" vs. "arrival". "Arrival" is used here because this applies to Human Resources also</li> </ul> </li> <li>2. EstimatedArrival               <ul style="list-style-type: none"> <li>▪ Date and time the resource is expected to arrive at its "ReportTo" location.</li> </ul> </li> <li>3. ActualArrival               <ul style="list-style-type: none"> <li>▪ Date and time when the resource arrives at its "ReportTo" location.</li> </ul> </li> <li>4. RequestedDeparture               <ul style="list-style-type: none"> <li>▪ Date and time when the resource is requested to Depart from its current location for transit to a "ReportTo" location.</li> </ul> </li> <li>5. EstimatedDeparture               <ul style="list-style-type: none"> <li>▪ Date and time when the resource is estimated to Depart from its current location for transit to a "ReportTo" location.</li> </ul> </li> <li>6. ActualDeparture               <ul style="list-style-type: none"> <li>▪ Date and time when the resource Departs from its current location for transit to a "ReportTo" location.</li> </ul> </li> <li>7. RequestedReturnArrival               <ul style="list-style-type: none"> <li>▪ Date and time the resource is requested to arrive from its deployment at its "OwningJurisdiction".</li> </ul> </li> <li>8. EstimatedReturnArrival               <ul style="list-style-type: none"> <li>▪ Date and time the resource is expected to arrive from its deployment at its "OwningJurisdiction".</li> </ul> </li> <li>9. ActualReturnArrival               <ul style="list-style-type: none"> <li>▪ Date and time the resource arrives from its deployment at its "OwningJurisdiction".</li> </ul> </li> <li>10. RequestedReturnDeparture               <ul style="list-style-type: none"> <li>▪ Date and time the resource is requested to Depart from its deployment</li> </ul> </li> </ol> </li> </ul>

	<p>for transit to its “OwningJurisdiction”.</p> <p>11. EstimatedReturnDeparture</p> <ul style="list-style-type: none"> <li>▪ Date and time the resource is expected to Depart from its deployment for transit to its “OwningJurisdiction”.</li> </ul> <p>12. ActualReturnDeparture</p> <ul style="list-style-type: none"> <li>▪ Date and time the resource Departs from its deployment for transit to its “OwningJurisdiction”.</li> </ul> <p>13. Committed</p> <ul style="list-style-type: none"> <li>▪ Confirmation from Resource Supplier that resource has been allocated to Resource Consumer, usually in response to a “RequisitionResource” message.</li> <li>▪ May be part of an “OriginatingMessage”.</li> </ul> <p>14. BeginAvailable</p> <ul style="list-style-type: none"> <li>▪ Date and time the resource will become available for allocation.</li> </ul> <p>15. EndAvailable</p> <ul style="list-style-type: none"> <li>▪ Date and time the resource will cease to be available for deployment.</li> </ul> <p>16. Current</p> <ul style="list-style-type: none"> <li>▪ Location of resource at date and time of message.</li> </ul> <p>17. ReportTo</p> <ul style="list-style-type: none"> <li>▪ Location of place where resource is to be delivered.</li> <li>▪ May include a text description which explains to whom or where the resource should report upon arrival. This could include a name for a person, place or functional role.</li> </ul> <p>18. Route</p> <ul style="list-style-type: none"> <li>▪ Information specifying the course of transit of resource from Resource Supplier to Resource Consumer.</li> </ul>
Requirements Supported	2, 11, 12, 28, 30

3188

Element	DateTime
Type	DateTimeType [xsd:dateTime]
Usage	<b>OPTIONAL</b> , MAY be used once and only once
Definition	The date and time that a scheduled event takes place.
Requirements Supported	2, 11, 12, 28, 30

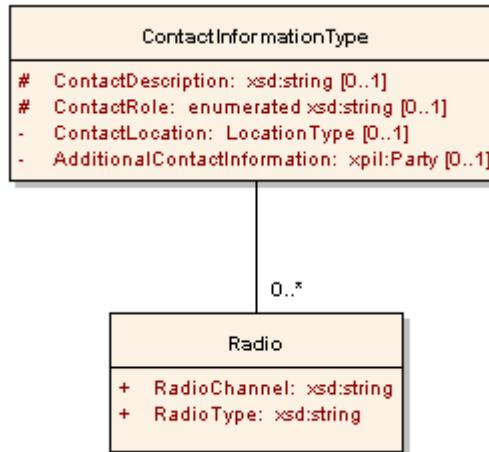
3189

Element	Location
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Type	LocationType [XML structure]
Usage	<b>OPTIONAL</b> , MAY be used once and only once
Definition	The location in which a scheduled event takes place.
Comments	Information on the structure of LocationType can be found in Section 4.1.13.2.

3190 **4.1.13 Supporting Element Types**

3191 **4.1.13.1 ContactInformationType**



3192

Figure 20: ContactInformationType Structure

3193

3194

Element	ContactDescription
Type	ContactDescriptionType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.
Definition	Identifying information associated with a contact role related to the resource message.
Constraints	<ul style="list-style-type: none"> <li>If a ContactInformation element is present, then at least one of ContactInformation:ContactDescription or ContactInformation:ContactRole MUST be present.</li> </ul>
Comments	<ul style="list-style-type: none"> <li>The ContactDescription element is free text information identifying a contact that acts as an alternative to the ContactRole element for roles that are not covered by the ContactRole enumeration. The identifying information should be as specific as possible but can be suitably flexible (e.g. "Accounts Payable Clerk").</li> <li>The element contains information associated with the contact role that is easily understood by humans but that is not necessarily usable by automation</li> </ul>

	systems.
Requirements Supported	18,23,24

3195

Element	ContactRole
Type	ContactRoleType [xsd:string enumeration] ]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.
Definition	Role of the contact associated with the resource message.
Constraints	<ul style="list-style-type: none"> <li>▪ If a ContactInformation element is present, then at least one of ContactInformation:ContactDescription or ContactInformation:ContactRole MUST be present</li> <li>▪ Value MUST be one of the following:           <ol style="list-style-type: none"> <li>1. "Sender" (who sent the message)</li> <li>2. "Requester" (authorization for the message / request)</li> <li>3. "SubjectMatterExpert" (answer questions or provide details)</li> <li>4. "Approver"</li> <li>5. "RespondingOrg" (who responded to the message)</li> <li>6. "Owner"</li> </ol> </li> </ul>
Requirements Supported	18,23,24

3196

Element	ContactLocation
Type	LocationType [XML Structure]
Usage	<b>OPTIONAL</b> , MAY be used once and only once.
Definition	The geophysical location of the contact.
Constraints	<ul style="list-style-type: none"> <li>• If a PostalAddress needs to be included, an AdditionalContactInformation element MUST be included, and MUST be placed in the xAL:Address element within the AdditionalContactInformation element.</li> </ul>
Comments	<ul style="list-style-type: none"> <li>• Information on the structure of LocationType can be found in Section 4.1.13.2.</li> </ul>
Requirements	18,23,24

Supported	
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3197

<b>Element</b>	AdditionalContactInformation
<b>Type</b>	AdditionalContactInformationType [xpil:PartyType]
<b>Usage</b>	<b>OPTIONAL</b> , MAY be used once and only once.
<b>Definition</b>	Any other contact information including name and other Party information.
<b>Comments</b>	<ul style="list-style-type: none"> <li>The AdditionalContactInformation element is an xpil:PartyType structure that includes an xal:AddressType.</li> <li>If the optional AdditionalContactInformation element is included, the physical postal address should be included in the AdditionalContactInformation xal:Address element. Otherwise, it may be included in the ContactLocation element.</li> <li>The CIQ xpil:PartyType can specify person name, Organization name, contact phone numbers, email addresses, street addresses, etc. suitable for use in any country. This is the element that should be used to capture most of the contact information.</li> <li>Example:</li> </ul> <pre>&lt;rm:AdditionalContactInformation&gt;     &lt;xnl:PartyName&gt;         &lt;xnl:PersonName&gt;             &lt;xnl:NameElement xnl:ElementType="FirstName"&gt;Joe             &lt;/xnl:NameElement&gt;             &lt;xnl:NameElement xnl:ElementType="LastName"&gt;Williams             &lt;/xnl:NameElement&gt;         &lt;/xnl:PersonName&gt;         &lt;xnl:OrganizationName&gt;             &lt;xnl:NameElement&gt;Hardware Megastore Cairns             &lt;/xnl:NameElement&gt;         &lt;/xnl:OrganizationName&gt;     &lt;/xnl:PartyName&gt;     &lt;xpil:Addresses&gt;         &lt;xal:Address&gt;             &lt;xal:Country&gt;                 &lt;xal:Name&gt;Australia&lt;/xal:Name&gt;             &lt;/xal:Country&gt;             &lt;xal:AdministrativeArea&gt;                 &lt;xal:Name&gt;QLD&lt;/xal:Name&gt;             &lt;/xal:AdministrativeArea&gt;             &lt;xal:Locality&gt;                 &lt;xal:Name&gt;Cairns&lt;/xal:Name&gt;             &lt;/xal:Locality&gt;             &lt;xal:Thoroughfare&gt;                 &lt;xal:NameElement&gt;Spence St&lt;/xal:NameElement&gt;             &lt;/xal:Thoroughfare&gt;             &lt;xal:PostCode&gt;                 &lt;xal:Identifier&gt;4870&lt;/xal:Identifier&gt;             &lt;/xal:PostCode&gt;         &lt;/xal:Address&gt;     &lt;/xpil:Addresses&gt;     &lt;xpil:ContactNumbers&gt;         &lt;xpil:ContactNumber xpil:MediaType="Telephone"&gt;             &lt;xpil:ContactHours&gt;8:00AM - 6:00PM&lt;/xpil:ContactHours&gt;             &lt;xpil:ContactNumberElement xpil:ElementType="CountryCode"&gt;61         &lt;/xpil:ContactNumber&gt;     &lt;/xpil:ContactNumbers&gt; </pre>

	<pre> &lt;/xpil&gt;ContactNumberElement&gt; &lt;xpil&gt;ContactNumberElement xpil:ElementType="AreaCode"&gt;7 &lt;/xpil&gt;ContactNumberElement&gt; &lt;xpil&gt;ContactNumberElement     xpil:ElementType="LocalNumber"&gt;4052 0378 &lt;/xpil&gt;ContactNumberElement&gt; &lt;/xpil&gt;ContactNumber&gt; &lt;/xpil&gt;ContactNumbers&gt; &lt;/rm:AdditionalContactInformation&gt;</pre>
Requirements Supported	18,23,24

3198 **4.1.13.1.1 Radio Element**

<b>Element</b>	RadioType
Type	RadioTypeType [xsd:string]
Usage	<b>REQUIRED</b> , MUST be used once and only once
Definition	Contact radio type of the person or organization referred to in ContactRole
Requirements Supported	18,23

3199

<b>Element</b>	RadioChannel
Type	RadioChannelType [xsd:string] ]
Usage	<b>REQUIRED</b> , MUST be used once and only once
Definition	Contact radio channel of the person or organization referred to in ContactRole
Comments	<ul style="list-style-type: none"> <li>“Channel” and “Frequency” are synonyms for purposes of this standard</li> </ul>
Requirements Supported	18,23

3200 **4.1.13.2 LocationType**

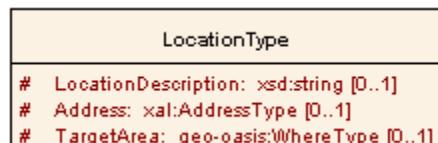


Figure 21: LocationType Structure

<b>Element</b>	LocationDescription
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3201

3202

Type	LocationDescriptionType [xsd:string]
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.
Definition	A free-form textual description of a location.
Constraints	<ul style="list-style-type: none"> <li>At least one of the LocationDescription, Address or TargetArea elements MUST be present.</li> </ul>

3203

Element	Address
Type	xal:AddressType
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.
Definition	A CIQ structure containing address details in an internationally-applicable format (See Section 1.5)
Constraints	<ul style="list-style-type: none"> <li>At least one of the Description, Address or TargetArea elements MUST be present.</li> <li>An example of a CIQ AddressType can be found in section 3.10.5</li> </ul>

3204

Element	TargetArea
Type	geo-oasis:WhereType
Usage	<b>CONDITIONAL</b> , MAY be used once and only once.
Definition	The container element for GML-based geospatial information. This element uses the EDXL-HAVE geo-oasis schema. It allows the target Area to be defined by a choice that includes:
Constraints	<ul style="list-style-type: none"> <li>At least one of the LocationDescription, Address or TargetArea elements MUST be present.</li> </ul>
Comments	<ul style="list-style-type: none"> <li>More detailed definitions for geo-oasis:WhereType and its components can be found in the geo-oasis schema. Specific usage of those types for EDXL-RM are found in section 4.1.13.2.1.</li> </ul>

### 3205 4.1.13.2.1 Imported Type Definitions

Type	geo-oasis:WhereType
Usage	Used for as the type value for TargetArea elements

Definition	<p>WhereType provides a mechanism for defining location. This element uses the EDXL-HAVE geo-oasis schema. It allows the target Area to be defined as a choice of one of the following:</p> <ul style="list-style-type: none"> <li>• gml:Point – WGS84 latitude and longitude</li> <li>• gml:LineString – a series of points</li> <li>• gml:CircleByCenterPoint – a point and radius</li> <li>• gml:Polygon – a set of connected non-crossing lines</li> <li>• gml:Envelope – two points used to define a bounding rectangle</li> </ul> <p>It also allows the use of a set of attributes (geo-oasis:whereAttrGroup) defined for "WhereType." More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema</p>
Comments	<ul style="list-style-type: none"> <li>• EDXL-RM uses the geo-oasis schema that is specified as an element of EDXL-HAVE. Both EDXL-RM and EDXL-HAVE require the use of the WGS84 coordinate reference system.</li> </ul>

3206

Type	geo-oasis:WhereType using gml:Point
Usage	Where TargetAreaType is best represented as a WGS84 point.
Definition	<p>The use of gml:Point within TargetArea provides location using a specific WGS84 point value that is compatible with GML compliant geospatial information systems. The following example applies:</p> <pre style="margin-left: 40px;">&lt;gml:Point&gt;     &lt;gml:pos&gt;45.256 -71.92&lt;/gml:pos&gt; &lt;/gml:Point&gt;</pre> <p>More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.</p>
Constraints	<ul style="list-style-type: none"> <li>• WGS84 MUST be used for EDXL-RM.</li> </ul>
Requirements Supported	

3207

Type	geo-oasis:WhereType using gml:LineString
Usage	Where TargetAreaType is best represented as a route along a series of WGS84 points.
Definition	<p>The use of gml:LineString within TargetArea provides location along a line represented by a specific list of WGS84 point values that is compatible with GML compliant geospatial information systems. The following example applies:</p>

	<pre>&lt;gml:LineString&gt;   &lt;gml:posList&gt;     45.256 -110.45     46.46 -109.48     43.84 -109.86   &lt;/gml:posList&gt; &lt;/gml:LineString&gt;</pre> <p>More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.</p>
Constraints	<ul style="list-style-type: none"> <li>WGS84 MUST be used for EDXL-RM.</li> </ul>
Requirements Supported	

3208

Type	geo-oasis:WhereType using gml:CircleByCenterPoint
Usage	Where TargetAreaType is best represented circular area of a given radius in kilometers around a center point represented in WGS84.
Definition	<p>The use of gml:CircleByCenterPoint within TargetArea provides location as a circle centered on a WGS84 referenced point with a radius defined in kilometers. The following example applies:</p> <pre>&lt;gml:CircleByCenterPoint&gt;   &lt;gml:pos&gt; 45.256 -110.45 &lt;/gml:pos&gt;   &lt;gml:radius&gt; 10 &lt;/gml:radius&gt; &lt;/gml:CircleByCenterPoint&gt;</pre> <p>More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.</p>
Constraints	<ul style="list-style-type: none"> <li>WGS84 MUST be used for EDXL-RM.</li> <li>For EDXL-RM the unit of measure MUST be kilometers.</li> </ul>

3209

Type	geo-oasis:WhereType using gml:Polygon
Usage	Where TargetAreaType is best represented as a connected group of WGS84 points representing an actual area of concern.
Definition	<p>The use of gml:Polygon within TargetArea provides a ring of points (first and last point are the same) represented by a specific list of WGS84 point values that is compatible with GML compliant geospatial information systems. The following example applies:</p>

	<pre> &lt;gml:Polygon&gt;   &lt;gml:exterior&gt;     &lt;gml:LinearRing&gt;       &lt;gml:posList&gt;         45.256 -110.45         46.46 -109.48         43.84 -109.86         45.256 -110.45       &lt;/gml:posList&gt;     &lt;/gml:LinearRing&gt;   &lt;/gml:exterior&gt; &lt;/gml:Polygon&gt; </pre> <p>More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.</p>
Constraints	<ul style="list-style-type: none"> <li>▪ WGS84 MUST be used for EDXL-RM.</li> <li>▪ For EDXL-RM gml:posList layout MUST be used.</li> </ul>
Requirements Supported	

3210

Type	geo-oasis:WhereType using gml:Envelope
Usage	Where TargetAreaType is best represented as a rectangular area of interest often known as a “bounding box” of WGS84 points representing an actual area of concern.
Definition	<p>The use of gml:Envelope within TargetArea provides two WGS 84 point representations, the first representing a lower corner of the box and the second representing an upper corner. The following example applies:</p> <pre> &lt;gml:Envelope&gt;   &lt;gml:lowerCorner&gt;42.943 -71.032&lt;/gml:lowerCorner&gt;   &lt;gml:upperCorner&gt;43.039 -69.856&lt;/gml:upperCorner&gt; &lt;/gml:Envelope&gt; </pre> <p>More detailed definitions for geo-oasis:WhereType can be found in the geo-oasis schema.</p>
Constraints	<ul style="list-style-type: none"> <li>• WGS84 MUST be used for EDXL-RM.</li> </ul>

### 3211 4.1.13.3 ValueListType



3212

3213

Figure 22: *ValueListType Structure*

<b>Element</b>	ValueListURN
Type	ValueListURNTypexsd:anyURI]
sage	<b>REQUIRED</b> , MUST be used once and only once
Definition	The name of the certified list maintained by the Community of Interest for the value referenced.
Requirements Supported	25,26

3214

<b>Element</b>	Value
Type	ValueType [xsd:string]
Usage	<b>REQUIRED</b> , MUST be used one to many
Definition	A value from the certified list maintained by the Community of Interest.

---

3215

## 5 Conformance

3216

### 5.1 Conformance Targets

3217 The two following conformance targets are defined in order to support the specification of conformance  
3218 to this standard:

- 3219     • EDXL-RM Message; and  
3220  
3221     • EDXL-RM Message Producer.

3223 An EDXL-RM Message is an XML 1.0 element whose syntax and semantics are specified in this  
3224 standard. An EDXL-RM Message Producer is a software entity that produces EDXL-RM Messages.

3225       NOTE There is no conformance target corresponding to the consumers of EDXL-RM  
3226 messages. All the existing requirements for the consumption of an incoming EDXL-RM  
3227 message are, in fact, requirements on the type and content of the EDXL-RM message  
3228 that is produced by the consumer in reply to that message (if any). Therefore, a  
3229 conforming EDXL-RM Message Producer (as defined in Section 5.4) will necessarily  
3230 meet all the existing requirements for the production as well as for the consumption of  
3231 EDXL-RM messages.

3232

### 5.2 Conformance Levels

3233 The two following conformance levels are defined for EDXL-RM Messages:

- 3234     • Level-1 EDXL-RM Message; and  
3235     • Level-2 EDXL-RM Message.

3236       NOTE The conformance requirements for Level-1 and Level-2 EDXL-RM Messages are  
3237 given in Section 5.3, and summarized here. A Level-1 EDXL-RM Message is either one  
3238 of the 16 resource message elements specified in sections 3.4 to 3.19, or a different  
3239 element (with a different namespace name and an arbitrary local name) whose type is  
3240 the complex type “EDXLResourceMessageReferenceType” specified in Section 4.1.1. A  
3241 Level-2 EDXL-RM Message is restricted to be one of the 16 resource message elements  
3242 specified in sections 3.4 to 3.19. Every Level-2 EDXL-RM Message is also a conforming  
3243 Level-1 EDXL-RM Message.

3244 The two following conformance levels are defined for EDXL-RM Message Producers:

- 3245     • Level-1 EDXL-RM Message Producer; and  
3246     • Level-2 EDXL-RM Message Producer.

3247       NOTE The conformance requirements for Level-1 and Level-2 EDXL-RM Message  
3248 Producers are given in Section 5.4, and summarized here. A Level-1 EDXL-RM Message  
3249 Producer is a software entity that produces conforming (Level-1) EDXL-RM Messages  
3250 whenever a (Level-1) EDXL-RM Message is expected. A Level-2 EDXL-RM Message  
3251 Producer is a software entity that only produces Level-2 EDXL-RM Messages whenever  
3252 a Level-2 EDXL-RM Message is expected. Every Level-2 EDXL-RM Message Producer  
3253 is also a conforming Level-1 EDXL-RM Message Producer.

3254 **5.3 Conformance as an EDXL-RM Message**

3255 **5.3.1 Level-1 EDXL-RM Message**

3256 An XML 1.0 element is a conforming Level-1 EDXL-RM Message if and only if:

- 3257 a) it meets the general requirements specified in Section 3.3;
- 3258 b) if its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its local name  
3259 is one of the 16 resource message type names specified in sections 3.4 to 3.19 (also listed in  
3260 Table 1), and the element is valid according to the schema located at  
3261 <http://docs.oasis-open.org/emergency/EDXL-RM/EDXL-RM.xsd>, where  
3262 validation is performed against the global element declaration with the same local name;
- 3263 c) if its namespace name is not "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then the  
3264 element is valid according to the schema located at  
3265 <http://docs.oasis-open.org/emergency/EDXL-RM/EDXL-RM.xsd>, where  
3266 validation is performed against the complex type definition  
3267 "EDXLResourceMessageReferenceType";
- 3268 d) if its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its content  
3269 (which includes the content of each of its descendants) meets all the additional mandatory  
3270 requirements provided in the specific subsection of Section 3 (sections 3.4 to 3.19) corresponding  
3271 to the element's name, *with the exception of the Message Flow*; such requirements include:  
3272
  - 3273 • the content of the Element Reference Model;
  - 3274 • each of the Message Rules; and
  - 3275 • the normative parts (element name, usage, and constraints) of any dictionary data entries  
3276 (in Section **Error! Reference source not found.**) corresponding to the elements that  
3277 actually occur in the content of the element;
- 3278 e) if its namespace name is not "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its content  
3279 (which includes the content of each of its descendants) meets all the additional mandatory  
3280 requirements provided in the normative parts (element name, usage, and constraints) of all the  
3281 dictionary data entries (in Section 4) corresponding to the elements that actually occur in the  
3282 content of the element.

3283 NOTE The Information Exchange Package Documentation (IEPD) process, specified  
3284 within the United States National Information Exchange Model (available on  
3285 [www.niem.gov](http://www.niem.gov)), can be used by a Community of Interest when specifying new types of  
3286 resource messages conforming to Level 1.

3287

3288 **5.3.2 Level-2 EDXL-RM Message**

3289 An XML 1.0 element is a conforming Level-2 EDXL-RM Message if and only if:

- 3290 a) it meets all the requirements for a Level-1 EDXL-RM Message specified in Section 5.3.1; and
- 3291 b) its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"; and
- 3292 c) its content meets all the requirements provided in the specific subsection of Section 3 (sections  
3293 **Error! Reference source not found.** to **Error! Reference source not found.**) corresponding to  
3294 the element's name (see also Section 5.3.1item (d)), *including the Message Flow*.

3301            NOTE The conditions in (a) and (b) above imply that the local name of the element is  
3302            one of the 16 resource message type names specified in sections 3.4 to 3.19 (see  
3303            Section 5.3.1 item (b)).

## 3304        **5.4 Conformance as an EDXL-RM Message Producer**

### 3305        **5.4.1 Level-1 EDXL-RM Message Producer**

3306        A software entity is a conforming Level-1 EDXL-RM Message Producer if and only if it is constructed in  
3307            such a way that any XML 1.0 element produced by it and present in a place in which a conforming Level-  
3308            1 EDXL-RM message is expected (based on contextual information) is indeed a conforming Level-1  
3309            EDXL-RM message according to this standard.

3310            NOTE The condition above can be satisfied in many different ways. Here are some  
3311            examples of possible scenarios:

- 3312            – a standard distribution protocol (say, EDXL-DE) transfers EDXL-RM messages; a resource  
3313            consumer has sent an EDXL-RM request message to a resource supplier which claims to be  
3314            a conforming EDXL-RM Message Producer, and has received an EDXL-DE message which  
3315            is therefore expected to carry a conforming EDXL-RM Message;
- 3316            – a local test environment has been set up, and the application under test (which claims to be a  
3317            conforming EDXL-RM Message Producer) has the ability to produce an EDXL-RM message  
3318            and write it to a file in a directory in response to a request coming from the testing tool; the  
3319            testing tool has sent many requests to the application under test and is now verifying all the  
3320            files present in the directory, which is expected to contain only conforming EDXL-  
3321            RM Messages.

### 3322        **5.4.2 Level-2 EDXL-RM Message Producer**

3323        A software entity is a conforming Level-2 EDXL-RM Message Producer if and only if:

- 3324            a) it meets all the requirements for a Level-1 EDXL-RM Producer Message specified in Section  
3325            5.4.1; and
- 3326            b) it produces a conforming Level-2 EDXL-RM Message when such a message is expected.

3327            NOTE There is no requirement for a Level-2 EDXL-RM Message Producer to be able to  
3328            produce resource messages of all 16 resource message types specified in sections  
3329            **Error! Reference source not found.** to **Error! Reference source not found..**

---

## 3330 A. XML Schema for the EDXL Resource Messaging 3331 (NORMATIVE)

3332 Schemas included in Appendix A are for reference only. The normative schemas can be found at  
3333 <http://docs.oasis-open.org/emergency/edxl-rm/v1.0/cd01/schemas/>.

### 3334 A.1 Resource Messaging Common Types

```
3335 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3336   xmlns:xnal="urn:oasis:names:tc:cii:xnal:3"
3337   xmlns:xnl="urn:oasis:names:tc:cii:xnl:3"
3338   xmlns:xal="urn:oasis:names:tc:cii:xal:3"
3339   xmlns:xpil="urn:oasis:names:tc:cii:xpil:3"
3340   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
3341   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3342   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3343   elementFormDefault="qualified"
3344   attributeFormDefault="unqualified">
3345
3346   <!-- All elements that have unchanged internal content across the entire matrix of
3347       RM messages are typed here.
3348       Where internal content differs between messages, please see the appropriate
3349       schemas. -->
3350   <xsd:import namespace="urn:oasis:names:tc:cii:xpil:3" schemaLocation="xpil.xsd"/>
3351   <xsd:import namespace="urn:oasis:names:tc:cii:xal:3" schemaLocation="xal.xsd"/>
3352   <xsd:import namespace="urn:oasis:names:tc:cii:xnl:3" schemaLocation="xnl.xsd"/>
3353
3354   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
3355     schemaLocation="geo-oasis.xsd"/>
3356   <xsd:simpleType name="MessageIDType">
3357     <xsd:restriction base="xsd:string"/>
3358   </xsd:simpleType>
3359   <xsd:simpleType name="DateTimeType">
3360     <xsd:restriction base="xsd:dateTime"/>
3361   </xsd:simpleType>
3362   <xsd:simpleType name="MessageContentTypeType">
3363     <xsd:restriction base="xsd:string">
3364       <xsd:annotation>
3365         <xsd:documentation>
3366           The following strings values for MessageContentType
3367           are reserved for Level 2 Conformant Message types (New
3368           level 1 conformant messagetypes should use other name strings):
3369
3370           RequestResource
3371           ResponseToRequestResource
3372           RequisitionResource
3373           CommitResource
3374           RequestInformation
3375           ResponseToRequestInformation
3376           OfferUnsolicitedResource
3377           ReleaseResource
3378           RequestReturn
3379           ResponseToRequestReturn
3380           RequestQuote
3381           ResponseToRequestQuote
3382           RequestResourceDeploymentStatus
3383           ReportResourceDeploymentStatus
3384           RequestExtendedDeploymentDuration
3385           ResponseToRequestExtendedDeploymentDuration
3386         </xsd:documentation>
3387       </xsd:annotation>
3388
3389     </xsd:restriction>
3390   </xsd:simpleType>
```

```

3391 <xsd:simpleType name="MessageDescriptionType">
3392   <xsd:restriction base="xsd:string"/>
3393 </xsd:simpleType>
3394 <xsd:complexType name="IncidentInformationType">
3395   <!-- One (or both) of the IncidentID and IncidentDescription elements is required -->
3396   <xsd:sequence>
3397     <xsd:element name="IncidentID" type="IncidentIDType" minOccurs="0"/>
3398     <xsd:element name="IncidentDescription" type="IncidentDescriptionType"
3399       minOccurs="0"/>
3400   </xsd:sequence>
3401 </xsd:complexType>
3402 <xsd:simpleType name="IncidentIDType">
3403   <xsd:restriction base="xsd:string"/>
3404 </xsd:simpleType>
3405 <xsd:simpleType name="IncidentDescriptionType">
3406   <xsd:restriction base="xsd:string"/>
3407 </xsd:simpleType>
3408 <xsd:complexType name="MessageRecallType">
3409   <xsd:sequence>
3410     <xsd:element name="RecallMessageID" type="MessageIDType"/>
3411     <xsd:element name="RecallType" type="RecallTypeType"/>
3412   </xsd:sequence>
3413 </xsd:complexType>
3414 <xsd:simpleType name="RecallTypeType">
3415   <xsd:restriction base="xsd:string">
3416     <xsd:enumeration value="Update"/>
3417     <xsd:enumeration value="Cancel"/>
3418   </xsd:restriction>
3419 </xsd:simpleType>
3420 <xsd:complexType name="FundingType">
3421   <!-- One (or both) of the FundCode and FundingInfo elements is required -->
3422   <xsd:sequence>
3423     <xsd:element name="FundCode" type="FundCodeType" minOccurs="0" maxOccurs="1"/>
3424     <xsd:element name="FundingInfo" type="FundingInfoType" minOccurs="0"
3425       maxOccurs="1"/>
3426   </xsd:sequence>
3427 </xsd:complexType>
3428 <xsd:simpleType name="FundCodeType">
3429   <xsd:restriction base="xsd:string"/>
3430 </xsd:simpleType>
3431 <xsd:simpleType name="FundingInfoType">
3432   <xsd:restriction base="xsd:string"/>
3433 </xsd:simpleType>
3434 <xsd:complexType name="ContactInformationType">
3435   <xsd:sequence>
3436     <!-- At least one of ContactDescription and ContextRole is required -->
3437     <xsd:element name="ContactDescription" type="ContactDescriptionType" minOccurs="0"
3438       maxOccurs="1"/>
3439     <xsd:element name="ContactRole" type="ContactRoleType" minOccurs="0"
3440       maxOccurs="1"/>
3441     <xsd:element name="Radio" type="RadioInformationType" minOccurs="0"
3442       maxOccurs="unbounded"/>
3443     <xsd:element name="ContactLocation" type="LocationType" minOccurs="0"
3444       maxOccurs="1"/>
3445     <xsd:element name="AdditionalContactInformation" type="xpil:PartyType"
3446       minOccurs="0" maxOccurs="1"/>
3447   </xsd:sequence>
3448 </xsd:complexType>
3449 <xsd:simpleType name="ContactDescriptionType">
3450   <xsd:restriction base="xsd:string"/>
3451 </xsd:simpleType>
3452 <xsd:simpleType name="ContactRoleType">
3453   <xsd:restriction base="xsd:string">
3454     <xsd:enumeration value="Sender"/>
3455     <xsd:enumeration value="Requester"/>
3456     <xsd:enumeration value="SubjectMatterExpert"/>
3457     <xsd:enumeration value="Approver"/>
3458     <xsd:enumeration value="RespondingOrg"/>
3459     <xsd:enumeration value="Owner"/>
3460   </xsd:restriction>
3461 </xsd:simpleType>
```

```

3462 <xsd:complexType name="RadioInformationType">
3463   <xsd:sequence>
3464     <xsd:element name="RadioType" type="ValueListType"/>
3465     <xsd:element name="RadioChannel" type="RadioChannelType"/>
3466   </xsd:sequence>
3467 </xsd:complexType>
3468 <xsd:simpleType name="RadioTypeType">
3469   <xsd:restriction base="xsd:string"/>
3470 </xsd:simpleType>
3471 <xsd:simpleType name="RadioChannelType">
3472   <xsd:restriction base="xsd:string"/>
3473 </xsd:simpleType>
3474 <xsd:complexType name="ResponseInformationType">
3475   <xsd:sequence>
3476     <xsd:element name="PrecedingResourceInfoElementID"
3477       type="ResourceInfoElementIDType"/>
3478     <xsd:element name="ResponseType" type="ResponseTypeType"/>
3479     <!-- If the ResponseType element has the value "Provisional", one (or both) of
3480         ReasonCode and ResponseReason must be present -->
3481     <xsd:element name="ReasonCode" type="ValueListType" minOccurs="0" maxOccurs="1"/>
3482     <xsd:element name="ResponseReason" type="ResponseReasonType" minOccurs="0"
3483       maxOccurs="1"/>
3484   </xsd:sequence>
3485 </xsd:complexType>
3486 <xsd:simpleType name="ResourceInfoElementIDType">
3487   <xsd:restriction base="xsd:string"/>
3488 </xsd:simpleType>
3489 <xsd:simpleType name="ResponseTypeType">
3490   <xsd:restriction base="xsd:string">
3491     <xsd:enumeration value="Accept"/>
3492     <xsd:enumeration value="Decline"/>
3493     <xsd:enumeration value="Provisional"/>
3494   </xsd:restriction>
3495 </xsd:simpleType>
3496 <xsd:simpleType name="ResponseReasonType">
3497   <xsd:restriction base="xsd:string"/>
3498 </xsd:simpleType>
3499 <xsd:simpleType name="ResourceIDType">
3500   <xsd:restriction base="xsd:string"/>
3501 </xsd:simpleType>
3502 <xsd:simpleType name="ResourceNameType">
3503   <xsd:restriction base="xsd:string"/>
3504 </xsd:simpleType>
3505 <xsd:complexType name="TypeInfoType">
3506   <xsd:sequence>
3507     <xsd:any processContents="skip" maxOccurs="unbounded"/>
3508   </xsd:sequence>
3509   <xsd:anyAttribute/>
3510 </xsd:complexType>
3511 <xsd:simpleType name="DescriptionType">
3512   <xsd:restriction base="xsd:string"/>
3513 </xsd:simpleType>
3514 <xsd:simpleType name="CredentialsType">
3515   <xsd:restriction base="xsd:string"/>
3516 </xsd:simpleType>
3517 <xsd:simpleType name="CertificationsType">
3518   <xsd:restriction base="xsd:string"/>
3519 </xsd:simpleType>
3520 <xsd:simpleType name="SpecialRequirementsType">
3521   <xsd:restriction base="xsd:string"/>
3522 </xsd:simpleType>
3523 <xsd:complexType name="OwnershipInformationType">
3524   <!-- One (or both) of the Owner and OwningJurisdiction elements is required -->
3525   <xsd:sequence>
3526     <xsd:element name="Owner" type="OwnerType" minOccurs="0" maxOccurs="1"/>
3527     <xsd:element name="OwningJurisdiction" type="OwningJurisdictionType" minOccurs="0"
3528       maxOccurs="1"/>
3529     <xsd:element name="HomeDispatch" type="HomeDispatchType" minOccurs="0"
3530       maxOccurs="1"/>
3531     <xsd:element name="HomeUnit" type="HomeUnitType" minOccurs="0" maxOccurs="1"/>
3532   </xsd:sequence>

```

```

3533    </xsd:complexType>
3534    <xsd:simpleType name="OwnerType">
3535      <xsd:restriction base="xsd:string"/>
3536    </xsd:simpleType>
3537    <xsd:simpleType name="OwningJurisdictionType">
3538      <xsd:restriction base="xsd:string"/>
3539    </xsd:simpleType>
3540    <xsd:simpleType name="HomeDispatchType">
3541      <xsd:restriction base="xsd:string"/>
3542    </xsd:simpleType>
3543    <xsd:simpleType name="HomeUnitType">
3544      <xsd:restriction base="xsd:string"/>
3545    </xsd:simpleType>
3546    <xsd:simpleType name="AvailabilityType">
3547      <xsd:restriction base="xsd:string"/>
3548    </xsd:simpleType>
3549    <xsd:simpleType name="QuantityTypeOld">
3550      <xsd:restriction base="xsd:string"/>
3551    </xsd:simpleType>
3552    <xsd:complexType name="QuantityType">
3553      <xsd:choice>
3554        <xsd:element name="QuantityText" type="xsd:string" maxOccurs="unbounded"/>
3555        <xsd:element name="MeasuredQuantity">
3556          <xsd:complexType>
3557            <xsd:sequence>
3558              <xsd:element name="Amount" type="xsd:double"/>
3559              <xsd:element name="UnitOfMeasure" type="ValueListType" minOccurs="0"/>
3560            </xsd:sequence>
3561          </xsd:complexType>
3562        </xsd:element>
3563      </xsd:choice>
3564    </xsd:complexType>
3565    <xsd:simpleType name="RestrictionsType">
3566      <xsd:restriction base="xsd:string"/>
3567    </xsd:simpleType>
3568    <xsd:simpleType name="AnticipatedFunctionType">
3569      <xsd:restriction base="xsd:string"/>
3570    </xsd:simpleType>
3571    <xsd:complexType name="PriceQuoteType">
3572      <xsd:complexContent>
3573        <xsd:extension base="QuantityType"/>
3574      </xsd:complexContent>
3575    </xsd:complexType>
3576    <xsd:simpleType name="OrderIDType">
3577      <xsd:restriction base="xsd:string"/>
3578    </xsd:simpleType>
3579    <xsd:complexType name="AssignmentInstructionsType">
3580      <xsd:sequence>
3581        <xsd:element name="ModeOfTransportation" type="ModeOfTransportationType"
3582          minOccurs="0"
3583          maxOccurs="1"/>
3584        <xsd:element name="NavigationInstructions" type="NavigationInstructionsType"
3585          minOccurs="0" maxOccurs="1"/>
3586        <xsd:element name="ReportingInstructions" type="ReportingInstructionsType"
3587          minOccurs="0"
3588          maxOccurs="1"/>
3589      </xsd:sequence>
3590    </xsd:complexType>
3591    <xsd:simpleType name="ModeOfTransportationType">
3592      <xsd:restriction base="xsd:string"/>
3593    </xsd:simpleType>
3594    <xsd:simpleType name="NavigationInstructionsType">
3595      <xsd:restriction base="xsd:string"/>
3596    </xsd:simpleType>
3597    <xsd:simpleType name="ReportingInstructionsType">
3598      <xsd:restriction base="xsd:string"/>
3599    </xsd:simpleType>
3600    <xsd:simpleType name="ScheduleTypeType">
3601      <xsd:restriction base="xsd:string">
3602        <xsd:enumeration value="RequestedArrival"/>
3603        <xsd:enumeration value="EstimatedArrival"/>

```

```

3604    <xsd:enumeration value="ActualArrival"/>
3605    <xsd:enumeration value="RequestedDeparture"/>
3606    <xsd:enumeration value="EstimatedDeparture"/>
3607    <xsd:enumeration value="ActualDeparture"/>
3608    <xsd:enumeration value="EstimatedReturnDeparture"/>
3609    <xsd:enumeration value="EstimatedReturnArrival"/>
3610    <xsd:enumeration value="ActualReturnArrival"/>
3611    <xsd:enumeration value="RequestedReturnDeparture"/>
3612    <xsd:enumeration value="RequestedReturnArrival"/>
3613    <xsd:enumeration value="ActualReturnDeparture"/>
3614    <xsd:enumeration value="BeginAvailable"/>
3615    <xsd:enumeration value="EndAvailable"/>
3616    <xsd:enumeration value="Committed"/>
3617    <xsd:enumeration value="Current"/>
3618    <xsd:enumeration value="ReportTo"/>
3619    <xsd:enumeration value="Route"/>
3620  </xsd:restriction>
3621</xsd:simpleType>
3622<xsd:complexType name="LocationType">
3623  <xsd:sequence>
3624    <!-- One (or more) of the LocationDescription, Address and TargetArea elements is
3625        required -->
3626    <xsd:element name="LocationDescription" type="LocationDescriptionType"
3627      minOccurs="0"
3628      maxOccurs="1"/>
3629    <xsd:element name="Address" type="xal:AddressType" minOccurs="0" maxOccurs="1"/>
3630    <xsd:element name="TargetArea" type="geo-oasis:WhereType" minOccurs="0"
3631      maxOccurs="1"/>
3632  </xsd:sequence>
3633</xsd:complexType>
3634<xsd:simpleType name="LocationDescriptionType">
3635  <xsd:restriction base="xsd:string"/>
3636</xsd:simpleType>
3637<xsd:complexType name="ValueListType">
3638  <xsd:sequence>
3639    <xsd:element name="ValueListURN" type="ValueListURNTYPE"/>
3640    <xsd:element name="Value" type="ValueType" maxOccurs="unbounded"/>
3641  </xsd:sequence>
3642</xsd:complexType>
3643<xsd:simpleType name="ValueListURNTYPE">
3644  <xsd:restriction base="xsd:anyURI"/>
3645</xsd:simpleType>
3646<xsd:simpleType name="ValueType">
3647  <xsd:restriction base="xsd:string"/>
3648</xsd:simpleType>
3649</xsd:schema>
3650

```

## 3651 A.2 Resource Messaging Reference Schema

```

3652<schema xmlns="http://www.w3.org/2001/XMLSchema"
3653  xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3654  targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3655  xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3656  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3657  elementFormDefault="qualified"
3658  attributeFormDefault="unqualified">
3659  <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3660    schemaLocation="EDXL-RMCommonTypes.xsd"/>
3661  <!-- This schema is the base reference schema for all EDXL-RM messages.
3662      All resource messages will conform to this schema and to the elementicular
3663      sub-schema corresponding to the message type.-->
3664  <complexType name="EDXLResourceMessageReferenceType">
3665    <sequence>
3666      <element name="MessageID" type="rm:MessageIDType"/>
3667      <element name="SentDateTime" type="rm:DateTimeType"/>
3668      <element name="MessageContentType" type="rm:MessageContentTypeType"/>
3669      <element name="MessageDescription" type="rm:MessageDescriptionType"
3670        minOccurs="0" maxOccurs="1"/>

```

```

3671 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3672 <element name="PrecedingMessageID" type="rm:MessageIDType"
3673   minOccurs="0" maxOccurs="1"/>
3674 <element name="IncidentInformation" type="rm:IncidentInformationType"
3675   minOccurs="0" maxOccurs="unbounded"/>
3676 <element name="MessageRecall" type="rm:MessageRecallType"
3677   minOccurs="0" maxOccurs="1"/>
3678 <element name="Funding" type="rm:FundingType" minOccurs="0"
3679   maxOccurs="unbounded"/>
3680 <element name="ContactInformation" type="rm>ContactInformationType"
3681   minOccurs="1" maxOccurs="unbounded"/>
3682 <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
3683   <complexType>
3684     <sequence>
3685       <element name="ResourceInfoElementID"
3686         type="rm:ResourceInfoElementIDType"/>
3687       <element name="ResponseInformation" type="rm:ResponseInformationType"
3688         minOccurs="0" maxOccurs="1"/>
3689       <element name="Resource" minOccurs="0" maxOccurs="1">
3690         <complexType>
3691           <sequence>
3692             <!-- One (or more) of first three elements is required -->
3693             <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
3694               maxOccurs="1"/>
3695             <element name="Name" type="rm:ResourceNameType" minOccurs="0"
3696               maxOccurs="1"/>
3697             <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
3698               maxOccurs="1"/>
3699             <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
3700               maxOccurs="1"/>
3701             <element name="Keyword" type="rm:ValueListType" minOccurs="0"
3702               maxOccurs="unbounded"/>
3703             <element name="Description" type="rm:DescriptionType" minOccurs="0"
3704               maxOccurs="1"/>
3705             <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
3706               maxOccurs="1"/>
3707             <element name="Certifications" type="rm:CertificationsType"
3708               minOccurs="0" maxOccurs="1"/>
3709             <element name="SpecialRequirements"
3710               type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
3711             <element name="ResponsibleParty" type="rm:ContactInformationType"
3712               minOccurs="0" maxOccurs="1"/>
3713             <element name="OwnershipInformation"
3714               type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3715             <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
3716               <complexType>
3717                 <sequence>
3718                   <element name="InventoryRefreshDateTime"
3719                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3720                   <element name="DeploymentStatus" type="rm:ValueListType"
3721                     minOccurs="0" maxOccurs="1"/>
3722                   <element name="Availability" type="rm:AvailabilityType"
3723                     minOccurs="0" maxOccurs="1"/>
3724                 </sequence>
3725               </complexType>
3726             </element>
3727           </sequence>
3728         </complexType>
3729       </element>
3730     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3731       <complexType>
3732         <sequence>
3733           <element name="Quantity" type="rm:QuantityType" minOccurs="0"
3734             maxOccurs="1"/>
3735           <element name="Restrictions" type="rm:RestrictionsType"
3736             minOccurs="0" maxOccurs="1"/>
3737           <element name="AnticipatedFunction"
3738             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3739           <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
3740             maxOccurs="1"/>
3741           <element name="OrderID" type="rm:OrderIDType" minOccurs="0"

```

```

3742           maxOccurs="1"/>
3743             <element name="AssignmentInstructions"
3744               type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
3745             </sequence>
3746           </complexType>
3747         </element>
3748       <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3749         <complexType>
3750           <sequence>
3751             <element name="ScheduleType" type="rm:ScheduleTypeType"/>
3752             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
3753               maxOccurs="1"/>
3754             <element name="Location" type="rm:LocationType" minOccurs="0"
3755               maxOccurs="1"/>
3756           </sequence>
3757         </complexType>
3758       </element>
3759     </sequence>
3760   </complexType>
3761 </element>
3762 </sequence>
3763 </complexType>
3764 </schema>

```

### 3765 A.3 RequestResource Message Schema

```

3766 <schema xmlns="http://www.w3.org/2001/XMLSchema"
3767   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3768   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3769   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3770   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3771   elementFormDefault="qualified" attributeFormDefault="unqualified">
3772   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3773     schemaLocation="EDXL-RMCommonTypes.xsd"/>
3774   <!-- This schema describes the structure of
3775     EDXL-RM "RequestResource" messages.-->
3776   <element name="RequestResource">
3777     <complexType>
3778       <sequence>
3779         <element name="MessageID" type="rm:MessageIDType"/>
3780         <element name="SentDateTime" type="rm:DateTimeType"/>
3781         <element name="MessageContentType">
3782           <simpleType>
3783             <restriction base="rm:MessageContentTypeType">
3784               <enumeration value="RequestResource"/>
3785             </restriction>
3786           </simpleType>
3787         </element>
3788
3789         <element name="MessageDescription" type="rm:MessageDescriptionType" minOccurs="0"
3790           maxOccurs="1"/>
3791         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3792         <element name="IncidentInformation" type="rm:IncidentInformationType"
3793           minOccurs="0" maxOccurs="unbounded"/>
3794         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
3795           maxOccurs="1"/>
3796         <element name="Funding" minOccurs="0" maxOccurs="unbounded">
3797           <complexType>
3798             <sequence>
3799               <!-- One(or both) of the FundCode and FundingInfo elements is required -->
3800               <element name="FundCode" type="rm:FundCodeType" minOccurs="0"
3801                 maxOccurs="1"/>
3802               <element name="FundingInfo" type="rm:FundingInfoType" minOccurs="0"
3803                 maxOccurs="1"/>
3804             </sequence>
3805           </complexType>
3806         </element>
3807         <element name="ContactInformation" type="rm>ContactInformationType"
3808           minOccurs="1" maxOccurs="unbounded"/>

```

```

3809   <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
3810     <complexType>
3811       <sequence>
3812         <element name="ResourceInfoElementID"
3813           type="rm:ResourceInfoElementIDType"/>
3814         <element name="Resource">
3815           <complexType>
3816             <sequence>
3817               <!-- One (or more) of first three elements is required -->
3818               <element name="ResourceID" type="rm:ResourceIDType"
3819                 minOccurs="0" maxOccurs="1"/>
3820               <element name="Name" type="rm:ResourceNameType"
3821                 minOccurs="0" maxOccurs="1"/>
3822               <element name="TypeStructure" type="rm:ValueListType"
3823                 minOccurs="0" maxOccurs="1"/>
3824               <element name="TypeInfo" type="rm:TypeInfoType"
3825                 minOccurs="0" maxOccurs="1"/>
3826               <element name="Keyword" type="rm:ValueListType"
3827                 minOccurs="0" maxOccurs="unbounded"/>
3828               <element name="Description" type="rm:DescriptionType"
3829                 minOccurs="0" maxOccurs="1"/>
3830               <element name="Credentials" type="rm:CredentialsType"
3831                 minOccurs="0" maxOccurs="1"/>
3832               <element name="Certifications" type="rm:CertificationsType"
3833                 minOccurs="0" maxOccurs="1"/>
3834               <element name="SpecialRequirements"
3835                 type="rm:SpecialRequirementsType" minOccurs="0"
3836                 maxOccurs="1"/>
3837             </sequence>
3838           </complexType>
3839         </element>
3840         <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3841           <complexType>
3842             <sequence>
3843               <element name="Quantity" type="rm:QuantityType"
3844                 minOccurs="0" maxOccurs="1"/>
3845               <element name="Restrictions" type="rm:RestrictionsType"
3846                 minOccurs="0" maxOccurs="1"/>
3847               <element name="AnticipatedFunction"
3848                 type="rm:AnticipatedFunctionType" minOccurs="0"
3849                 maxOccurs="1"/>
3850             </sequence>
3851           </complexType>
3852         </element>
3853         <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3854           <complexType>
3855             <sequence>
3856               <element name="ScheduleType">
3857                 <simpleType>
3858                   <restriction base="rm:ScheduleTypeType">
3859                     <enumeration value="RequestedArrival"/>
3860                     <enumeration value="RequestedDeparture"/>
3861                     <enumeration value="EstimatedReturnDeparture"/>
3862                     <enumeration value="EstimatedReturnArrival"/>
3863                     <enumeration value="ReportTo"/>
3864                     <enumeration value="Route"/>
3865                   </restriction>
3866                 </simpleType>
3867               </element>
3868               <element name="DateTime" type="rm:DateTimeType"
3869                 minOccurs="0" maxOccurs="1"/>
3870               <element name="Location" type="rm:LocationType"
3871                 minOccurs="0" maxOccurs="1"/>
3872             </sequence>
3873           </complexType>
3874         </element>
3875         </sequence>
3876       </complexType>
3877     </element>
3878   </sequence>
3879 </complexType>

```

```
3880    </element>
3881  </schema>
```

## 3882 A.4 ResponseToRequestResource Message Schema

```
3883 <schema xmlns="http://www.w3.org/2001/XMLSchema"
3884   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3885   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3886   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3887   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3888   elementFormDefault="qualified"
3889   attributeFormDefault="unqualified">
3890     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3891       schemaLocation="EDXL-RMCommonTypes.xsd"/>
3892     <!-- This schema describes the structure of
3893       EDXL-RM "ResponseToRequestResource"
3894       messages.-->
3895     <element name="ResponseToRequestResource">
3896       <complexType>
3897         <sequence>
3898           <element name="MessageID" type="rm:MessageIDType"/>
3899           <element name="SentDateTime" type="rm:DateTimeType"/>
3900           <element name="MessageContentType">
3901             <simpleType>
3902               <restriction base="rm:MessageContentTypeType">
3903                 <enumeration value="ResponseToRequestResource"/>
3904               </restriction>
3905             </simpleType>
3906           </element>
3907           <element name="MessageDescription" type="rm:MessageDescriptionType"
3908             minOccurs="0" maxOccurs="1"/>
3909           <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3910           <element name="PrecedingMessageID" type="rm:MessageIDType"/>
3911           <element name="IncidentInformation" type="rm:IncidentInformationType"
3912             minOccurs="0" maxOccurs="unbounded"/>
3913           <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
3914             maxOccurs="1"/>
3915           <element name="Funding" type="rm:FundingType" minOccurs="0"
3916             maxOccurs="unbounded"/>
3917           <element name="ContactInformation" type="rm:ContactInformationType"
3918             minOccurs="1" maxOccurs="unbounded"/>
3919           <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
3920             <complexType>
3921               <sequence>
3922                 <element name="ResourceInfoElementID"
3923                   type="rm:ResourceInfoElementIDType"/>
3924                 <element name="ResponseInformation" type="rm:ResponseInformationType"/>
3925                 <element name="Resource" minOccurs="0" maxOccurs="1">
3926                   <complexType>
3927                     <sequence>
3928                       <!-- One (or more) of first three elements is required -->
3929                       <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
3930                         maxOccurs="1"/>
3931                       <element name="Name" type="rm:ResourceNameType" minOccurs="0"
3932                         maxOccurs="1"/>
3933                       <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
3934                         maxOccurs="1"/>
3935                       <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
3936                         maxOccurs="1"/>
3937                       <element name="Keyword" type="rm:ValueListType" minOccurs="0"
3938                         maxOccurs="unbounded"/>
3939                       <element name="Description" type="rm:DescriptionType" minOccurs="0"
3940                         maxOccurs="1"/>
3941                       <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
3942                         maxOccurs="1"/>
3943                       <element name="Certifications" type="rm:CertificationsType"
3944                         minOccurs="0" maxOccurs="1"/>
3945                       <element name="SpecialRequirements"
3946                         type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
```

```

3947
3948     <element name="ResponsibleParty" type="rm>ContactInformationType"
3949         minOccurs="0" maxOccurs="1"/>
3950     <element name="OwnershipInformation"
3951         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3952     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
3953         <complexType>
3954             <sequence>
3955                 <element name="InventoryRefreshDateTime"
3956                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3957                 <element name="DeploymentStatus" type="rm:ValueListType"
3958                     minOccurs="0" maxOccurs="1"/>
3959                 <element name="Availability" type="rm:AvailabilityType"
3960                     minOccurs="0" maxOccurs="1"/>
3961             </sequence>
3962         </complexType>
3963     </element>
3964     </complexType>
3965 </element>
3966     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3967         <complexType>
3968             <sequence>
3969                 <element name="Quantity" type="rm:QuantityType" minOccurs="0"
3970                     maxOccurs="1"/>
3971                 <element name="Restrictions" type="rm:RestrictionsType"
3972                     minOccurs="0" maxOccurs="1"/>
3973                 <element name="AnticipatedFunction"
3974                     type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3975                 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
3976                     maxOccurs="1"/>
3977                 <element name="AssignmentInstructions"
3978                     type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
3979             </sequence>
3980         </complexType>
3981     </element>
3982     <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3983         <complexType>
3984             <sequence>
3985                 <element name="ScheduleType">
3986                     <simpleType>
3987                         <restriction base="rm:ScheduleTypeType">
3988                             <enumeration value="EstimatedArrival"/>
3989                             <enumeration value="EstimatedDeparture"/>
3990                             <enumeration value="RequestedReturnDeparture"/>
3991                             <enumeration value="RequestedReturnArrival"/>
3992                             <enumeration value="BeginAvailable"/>
3993                             <enumeration value="EndAvailable"/>
3994                             <enumeration value="RequestedArrival"/>
3995                             <enumeration value="RequestedDeparture"/>
3996                             <enumeration value="EstimatedReturnDeparture"/>
3997                             <enumeration value="ReportTo"/>
3998                             <enumeration value="Route"/>
3999                         </restriction>
4000                     </simpleType>
4001                 </element>
4002             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4003                 maxOccurs="1"/>
4004             <element name="Location" type="rm:LocationType" minOccurs="0"
4005                 maxOccurs="1"/>
4006         </sequence>
4007     </complexType>
4008     </element>
4009     </sequence>
4010 </complexType>
4011     </element>
4012     </sequence>
4013 </complexType>
4014     </element>
4015 </schema>

```

## 4016 A.5 RequisitionResource Message Schema

```
4017 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4018   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4019   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4020   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4021   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4022   elementFormDefault="qualified"
4023   attributeFormDefault="unqualified">
4024     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4025       schemaLocation="EDXL-RMCommonTypes.xsd"/>
4026     <!-- This schema describes the structure of
4027       EDXL-RM "RequisitionResource" messages.-->
4028   <element name="RequisitionResource">
4029     <complexType>
4030       <sequence>
4031         <element name="MessageID" type="rm:MessageIDType"/>
4032         <element name="SentDateTime" type="rm:DateTimeType"/>
4033         <element name="MessageContentType">
4034           <simpleType>
4035             <restriction base="rm:MessageContentTypeType">
4036               <enumeration value="RequisitionResource"/>
4037             </restriction>
4038           </simpleType>
4039         </element>
4040         <element name="MessageDescription" type="rm:MessageDescriptionType"
4041           minOccurs="0" maxOccurs="1"/>
4042         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4043         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4044           maxOccurs="1"/>
4045         <element name="IncidentInformation" type="rm:IncidentInformationType"
4046           minOccurs="0" maxOccurs="unbounded"/>
4047         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4048           maxOccurs="1"/>
4049         <element name="Funding" type="rm:FundingType" minOccurs="1"
4050           maxOccurs="unbounded"/>
4051         <element name="ContactInformation" type="rm:ContactInformationType"
4052           minOccurs="1" maxOccurs="unbounded"/>
4053         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4054           <complexType>
4055             <sequence>
4056               <element name="ResourceInfoElementID"
4057                 type="rm:ResourceInfoElementIDType"/>
4058               <element name="Resource">
4059                 <complexType>
4060                   <sequence>
4061                     <!-- One (or more) of first three elements is required -->
4062                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4063                       maxOccurs="1"/>
4064                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4065                       maxOccurs="1"/>
4066                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4067                       maxOccurs="1"/>
4068                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4069                       maxOccurs="1"/>
4070                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4071                       maxOccurs="unbounded"/>
4072                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4073                       maxOccurs="1"/>
4074                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4075                       maxOccurs="1"/>
4076                     <element name="Certifications" type="rm:CertificationsType"
4077                       minOccurs="0" maxOccurs="1"/>
4078                     <element name="SpecialRequirements"
4079                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4080                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4081                       minOccurs="0" maxOccurs="1"/>
4082                     <element name="OwnershipInformation"
4083                       type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4084               </sequence>
```

```

4085          </complexType>
4086      </element>
4087      <element name="AssignmentInformation">
4088          <complexType>
4089              <sequence>
4090                  <element name="Quantity" type="rm:QuantityType"/>
4091                  <element name="Restrictions" type="rm:RestrictionsType"
4092                      minOccurs="0" maxOccurs="1"/>
4093                  <element name="AnticipatedFunction"
4094                      type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4095                  <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4096                      maxOccurs="1"/>
4097                  <element name="AssignmentInstructions"
4098                      type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4099          </sequence>
4100      </complexType>
4101  </element>
4102  <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4103      <complexType>
4104          <sequence>
4105              <element name="ScheduleType">
4106                  <simpleType>
4107                      <restriction base="rm:ScheduleTypeType">
4108                          <enumeration value="EstimatedArrival"/>
4109                          <enumeration value="EstimatedDeparture"/>
4110                          <enumeration value="EstimatedReturnDeparture"/>
4111                          <enumeration value="EstimatedReturnArrival"/>
4112                          <enumeration value="ReportTo"/>
4113                          <enumeration value="RequestedArrival"/>
4114                          <enumeration value="RequestedDeparture"/>
4115                          <enumeration value="Route"/>
4116                      </restriction>
4117                  </simpleType>
4118              </element>
4119          <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4120              maxOccurs="1"/>
4121          <element name="Location" type="rm:LocationType" minOccurs="0"
4122              maxOccurs="1"/>
4123      </sequence>
4124  </complexType>
4125  </element>
4126  </sequence>
4127  </complexType>
4128  </element>
4129  </sequence>
4130  </complexType>
4131  </element>
4132</schema>
```

## 4133 A.6 CommitResource Message Schema

```

4134 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4135     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4136     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4137     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4138     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4139     elementFormDefault="qualified"
4140     attributeFormDefault="unqualified">
4141     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4142         schemaLocation="EDXL-RMCommonTypes.xsd"/>
4143     <!-- This schema describes the structure of
4144         EDXL-RM "CommitResource" messages.-->
4145     <element name="CommitResource">
4146         <complexType>
4147             <sequence>
4148                 <element name="MessageID" type="rm:MessageIDType"/>
4149                 <element name="SentDateTime" type="rm:DateTimeType"/>
4150                 <element name="MessageContentType">
4151                     <simpleType>
```

```

4152      <restriction base="rm:MessageContentTypeType">
4153          <enumeration value="CommitResource"/>
4154      </restriction>
4155  </simpleType>
4156 </element>
4157 <element name="MessageDescription" type="rm:MessageDescriptionType"
4158     minOccurs="0" maxOccurs="1"/>
4159 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4160 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4161 <element name="IncidentInformation" type="rm:IncidentInformationType"
4162     minOccurs="0" maxOccurs="unbounded"/>
4163 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4164     maxOccurs="1"/>
4165 <element name="Funding" type="rm:FundingType" minOccurs="0"
4166     maxOccurs="unbounded"/>
4167 <element name="ContactInformation" type="rm:ContactInformationType"
4168     minOccurs="1" maxOccurs="unbounded"/>
4169 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4170     <complexType>
4171         <sequence>
4172             <element name="ResourceInfoElementID"
4173                 type="rm:ResourceInfoElementIDType"/>
4174             <element name="ResponseInformation" type="rm:ResponseInformationType"/>
4175             <element name="Resource" minOccurs="0" maxOccurs="1">
4176                 <complexType>
4177                     <sequence>
4178                         <!-- One (or more) of first three elements is required -->
4179                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4180                             maxOccurs="1"/>
4181                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4182                             maxOccurs="1"/>
4183                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4184                             maxOccurs="1"/>
4185                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4186                             maxOccurs="1"/>
4187                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4188                             maxOccurs="unbounded"/>
4189                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
4190                             maxOccurs="1"/>
4191                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4192                             maxOccurs="1"/>
4193                         <element name="Certifications" type="rm:CertificationsType"
4194                             minOccurs="0" maxOccurs="1"/>
4195                         <element name="SpecialRequirements"
4196                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4197                         <element name="ResponsibleParty" type="rm:ContactInformationType"
4198                             minOccurs="0" maxOccurs="1"/>
4199                         <element name="OwnershipInformation"
4200                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4201                         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4202                             <complexType>
4203                                 <sequence>
4204                                     <element name="InventoryRefreshDateTime"
4205                                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4206                                     <element name="DeploymentStatus" type="rm:ValueListType"
4207                                         minOccurs="0" maxOccurs="1"/>
4208                                 </sequence>
4209                             </complexType>
4210                         </element>
4211                     </sequence>
4212                 </complexType>
4213             </element>
4214             <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4215                 <complexType>
4216                     <sequence>
4217                         <element name="Quantity" type="rm:QuantityType"/>
4218                         <element name="Restrictions" type="rm:RestrictionsType"
4219                             minOccurs="0" maxOccurs="1"/>
4220                         <element name="AnticipatedFunction"
4221                             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4222                         <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"

```

```

4223           maxOccurs="1"/>
4224       <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4225           maxOccurs="1"/>
4226       <element name="AssignmentInstructions"
4227           type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4228   </sequence>
4229 </complexType>
4230 </element>
4231 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4232   <complexType>
4233     <sequence>
4234       <element name="ScheduleType">
4235         <simpleType>
4236           <restriction base="rm:ScheduleTypeType">
4237             <enumeration value="ActualDeparture"/>
4238             <enumeration value="Committed"/>
4239             <enumeration value="RequestedArrival"/>
4240             <enumeration value="RequestedDeparture"/>
4241             <enumeration value="EstimatedReturnDeparture"/>
4242             <enumeration value="RequestedReturnArrival"/>
4243             <enumeration value="EstimatedReturnArrival"/>
4244             <enumeration value="ReportTo"/>
4245             <enumeration value="EstimatedArrival"/>
4246             <enumeration value="EstimatedDeparture"/>
4247             <enumeration value="RequestedReturnDeparture"/>
4248             <enumeration value="BeginAvailable"/>
4249             <enumeration value="EndAvailable"/>
4250             <enumeration value="Current"/>
4251             <enumeration value="Route"/>
4252           </restriction>
4253         </simpleType>
4254       </element>
4255     <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4256         maxOccurs="1"/>
4257     <element name="Location" type="rm:LocationType" minOccurs="0"
4258         maxOccurs="1"/>
4259   </sequence>
4260 </complexType>
4261 </element>
4262 </sequence>
4263 </complexType>
4264 </element>
4265 </sequence>
4266 </complexType>
4267 </element>
4268 </schema>
```

## 4269 A.7 RequestInformation Message Schema

```

4270 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4271   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4272   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4273   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4274   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4275   elementFormDefault="qualified"
4276   attributeFormDefault="unqualified">
4277   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4278     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4279   <!-- This schema describes the structure of
4280       EDXL-RM "RequestInformation" messages.-->
4281   <element name="RequestInformation">
4282     <complexType>
4283       <sequence>
4284         <element name="MessageID" type="rm:MessageIDType"/>
4285         <element name="SentDateTime" type="rm:DateTimeType"/>
4286         <element name="MessageContentType">
4287           <simpleType>
4288             <restriction base="rm:MessageContentTypeType">
4289               <enumeration value="RequestInformation"/>
```

```

4290          </restriction>
4291      </simpleType>
4292  </element>
4293  <element name="MessageDescription" type="rm:MessageDescriptionType"/>
4294  <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4295  <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4296      maxOccurs="1"/>
4297  <element name="IncidentInformation" type="rm:IncidentInformationType"
4298      minOccurs="0" maxOccurs="unbounded"/>
4299  <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4300      maxOccurs="1"/>
4301  <element name="Funding" type="rm:FundingType" minOccurs="0"
4302      maxOccurs="unbounded"/>
4303  <element name="ContactInformation" type="rm>ContactInformationType"
4304      minOccurs="1" maxOccurs="unbounded"/>
4305  <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
4306      <complexType>
4307          <sequence>
4308              <element name="ResourceInfoElementID"
4309                  type="rm:ResourceInfoElementIDType"/>
4310              <element name="Resource" minOccurs="0" maxOccurs="1">
4311                  <complexType>
4312                      <sequence>
4313                          <!-- One (or more) of first three elements is required -->
4314                          <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4315                              maxOccurs="1"/>
4316                          <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4317                              maxOccurs="1"/>
4318                          <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4319                              maxOccurs="1"/>
4320                          <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4321                              maxOccurs="1"/>
4322                          <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4323                              maxOccurs="unbounded"/>
4324                          <element name="Description" type="rm:DescriptionType" minOccurs="0"
4325                              maxOccurs="1"/>
4326                          <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4327                              maxOccurs="1"/>
4328                          <element name="Certifications" type="rm:CertificationsType"
4329                              minOccurs="0" maxOccurs="1"/>
4330                          <element name="SpecialRequirements"
4331                              type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4332                          <element name="ResponsibleParty" type="rm:ContactInformationType"
4333                              minOccurs="0" maxOccurs="1"/>
4334                          <element name="OwnershipInformation"
4335                              type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4336                          <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4337                              <complexType>
4338                                  <sequence>
4339                                      <element name="InventoryRefreshDateTime"
4340                                          type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4341                                      <element name="DeploymentStatus" type="rm:ValueListType"
4342                                          minOccurs="0" maxOccurs="1"/>
4343                                      <element name="Availability" type="rm:AvailabilityType"
4344                                          minOccurs="0" maxOccurs="1"/>
4345                                  </sequence>
4346                              </complexType>
4347                          </element>
4348                      </sequence>
4349                  </complexType>
4350  </element>
4351  <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4352      <complexType>
4353          <sequence>
4354              <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4355                  maxOccurs="1"/>
4356              <element name="Restrictions" type="rm:RestrictionsType"
4357                  minOccurs="0" maxOccurs="1"/>
4358              <element name="AnticipatedFunction"
4359                  type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4360              <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"

```

```

4361           maxOccurs="1"/>
4362           <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4363               maxOccurs="1"/>
4364               <element name="AssignmentInstructions"
4365                   type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4366           </sequence>
4367           </complexType>
4368       </element>
4369       <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4370           <complexType>
4371               <sequence>
4372                   <element name="ScheduleType" type="rm:ScheduleTypeType"/>
4373                   <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4374                       maxOccurs="1"/>
4375                   <element name="Location" type="rm:LocationType" minOccurs="0"
4376                       maxOccurs="1"/>
4377               </sequence>
4378           </complexType>
4379       </element>
4380   </sequence>
4381   </complexType>
4382 </element>
4383 </sequence>
4384 </complexType>
4385 </element>
4386 </schema>

```

## 4387 A.8 ResponseToRequestInformation Message Schema

```

4388 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4389     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4390     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4391     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4392     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4393     elementFormDefault="qualified"
4394     attributeFormDefault="unqualified">
4395         <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4396             schemaLocation="EDXL-RMCommonTypes.xsd"/>
4397         <!-- This schema describes the structure of
4398             EDXL-RM "ResponseToRequestInformation" messages.-->
4399     <element name="ResponseToRequestInformation">
4400         <complexType>
4401             <sequence>
4402                 <element name="MessageID" type="rm:MessageIDType"/>
4403                 <element name="SentDateTime" type="rm:DateTimeType"/>
4404                 <element name="MessageContentType">
4405                     <simpleType>
4406                         <restriction base="rm:MessageContentTypeType">
4407                             <enumeration value="ResponseToRequestInformation"/>
4408                         </restriction>
4409                     </simpleType>
4410                 </element>
4411                 <element name="MessageDescription" type="rm:MessageDescriptionType"
4412                     minOccurs="0" maxOccurs="1"/>
4413                 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4414                 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4415                 <element name="IncidentInformation" type="rm:IncidentInformationType"
4416                     minOccurs="0" maxOccurs="unbounded"/>
4417                 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4418                     maxOccurs="1"/>
4419                 <element name="Funding" type="rm:FundingType" minOccurs="0"
4420                     maxOccurs="unbounded"/>
4421                 <element name="ContactInformation" type="rm>ContactInformationType"
4422                     minOccurs="1" maxOccurs="unbounded"/>
4423                 <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
4424                     <complexType>
4425                         <sequence>
4426                             <element name="ResourceInfoElementID"
4427                                 type="rm:ResourceInfoElementIDType"/>

```

```

4428     <element name="ResponseInformation" type="rm:ResponseInformationType"
4429         minOccurs="0" maxOccurs="1"/>
4430     <element name="Resource" minOccurs="0" maxOccurs="1">
4431         <complexType>
4432             <sequence>
4433                 <!-- One (or more) of first three elements is required -->
4434                 <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4435                     maxOccurs="1"/>
4436                 <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4437                     maxOccurs="1"/>
4438                 <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4439                     maxOccurs="1"/>
4440                 <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4441                     maxOccurs="1"/>
4442                 <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4443                     maxOccurs="unbounded"/>
4444                 <element name="Description" type="rm:DescriptionType" minOccurs="0"
4445                     maxOccurs="1"/>
4446                 <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4447                     maxOccurs="1"/>
4448                 <element name="Certifications" type="rm:CertificationsType"
4449                     minOccurs="0" maxOccurs="1"/>
4450                 <element name="SpecialRequirements"
4451                     type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4452                 <element name="ResponsibleParty" type="rm>ContactInformationType"
4453                     minOccurs="0" maxOccurs="1"/>
4454                 <element name="OwnershipInformation"
4455                     type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4456                 <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4457                     <complexType>
4458                         <sequence>
4459                             <element name="InventoryRefreshDateTime"
4460                                 type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4461                             <element name="DeploymentStatus" type="rm:ValueListType"
4462                                 minOccurs="0" maxOccurs="1"/>
4463                             <element name="Availability" type="rm:AvailabilityType"
4464                                 minOccurs="0" maxOccurs="1"/>
4465                         </sequence>
4466                     </complexType>
4467                 </element>
4468             </sequence>
4469         </complexType>
4470     </element>
4471     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4472         <complexType>
4473             <sequence>
4474                 <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4475                     maxOccurs="1"/>
4476                 <element name="Restrictions" type="rm:RestrictionsType"
4477                     minOccurs="0" maxOccurs="1"/>
4478                 <element name="AnticipatedFunction"
4479                     type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4480                 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4481                     maxOccurs="1"/>
4482                 <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4483                     maxOccurs="1"/>
4484                 <element name="AssignmentInstructions"
4485                     type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4486             </sequence>
4487         </complexType>
4488     </element>
4489     <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4490         <complexType>
4491             <sequence>
4492                 <element name="ScheduleType" type="rm:ScheduleTypeType"/>
4493                 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4494                     maxOccurs="1"/>
4495                 <element name="Location" type="rm:LocationType" minOccurs="0"
4496                     maxOccurs="1"/>
4497             </sequence>
4498         </complexType>

```

```

4499          </element>
4500      </sequence>
4501  </complexType>
4502  </element>
4503 </sequence>
4504 </complexType>
4505 </element>
4506</schema>

```

## A.9 OfferUnsolicitedResource Message Schema

```

4508 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4509   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4510   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4511   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4512   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4513   elementFormDefault="qualified"
4514   attributeFormDefault="unqualified">
4515     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4516       schemaLocation="EDXL-RMCommonTypes.xsd"/>
4517     <!-- This schema describes the structure of
4518         EDXL-RM "OfferUnsolicitedResource" messages.-->
4519     <element name="OfferUnsolicitedResource">
4520       <complexType>
4521         <sequence>
4522           <element name="MessageID" type="rm:MessageIDType"/>
4523           <element name="SentDateTime" type="rm:DateTimeType"/>
4524           <element name="MessageContentType">
4525             <simpleType>
4526               <restriction base="rm:MessageContentTypeType">
4527                 <enumeration value="OfferUnsolicitedResource"/>
4528               </restriction>
4529             </simpleType>
4530           </element>
4531           <element name="MessageDescription" type="rm:MessageDescriptionType"
4532             minOccurs="0" maxOccurs="1"/>
4533           <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4534           <element name="IncidentInformation" type="rm:IncidentInformationType"
4535             minOccurs="0" maxOccurs="unbounded"/>
4536           <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4537             maxOccurs="1"/>
4538           <element name="ContactInformation" type="rm:ContactInformationType"
4539             minOccurs="1" maxOccurs="unbounded"/>
4540           <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4541             <complexType>
4542               <sequence>
4543                 <element name="ResourceInfoElementID"
4544                   type="rm:ResourceInfoElementIDType"/>
4545                 <element name="Resource">
4546                   <complexType>
4547                     <sequence>
4548                       <!-- One (or more) of first three elements is required -->
4549                       <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4550                         maxOccurs="1"/>
4551                       <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4552                         maxOccurs="1"/>
4553                       <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4554                         maxOccurs="1"/>
4555                       <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4556                         maxOccurs="1"/>
4557                       <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4558                         maxOccurs="unbounded"/>
4559                       <element name="Description" type="rm:DescriptionType" minOccurs="0"
4560                         maxOccurs="1"/>
4561                       <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4562                         maxOccurs="1"/>
4563                       <element name="Certifications" type="rm:CertificationsType"
4564                         minOccurs="0" maxOccurs="1"/>
4565                       <element name="SpecialRequirements" />

```

```

4566      type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4567  <element name="ResponsibleParty" type="rm>ContactInformationType"
4568      minOccurs="0" maxOccurs="1"/>
4569  <element name="OwnershipInformation"
4570      type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4571  <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4572      <complexType>
4573          <sequence>
4574              <element name="InventoryRefreshDateTime"
4575                  type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4576              <element name="DeploymentStatus" type="rm:ValueListType"
4577                  minOccurs="0" maxOccurs="1"/>
4578              <element name="Availability" type="rm:AvailabilityType"
4579                  minOccurs="0" maxOccurs="1"/>
4580          </sequence>
4581      </complexType>
4582  </element>
4583  </sequence>
4584 </complexType>
4585 </element>
4586 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4587     <complexType>
4588         <sequence>
4589             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4590                 maxOccurs="1"/>
4591             <element name="Restrictions" type="rm:RestrictionsType"
4592                 minOccurs="0" maxOccurs="1"/>
4593             <element name="AnticipatedFunction"
4594                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4595             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4596                 maxOccurs="1"/>
4597             <element name="AssignmentInstructions"
4598                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4599         </sequence>
4600     </complexType>
4601 </element>
4602 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4603     <complexType>
4604         <sequence>
4605             <element name="ScheduleType">
4606                 <simpleType>
4607                     <restriction base="rm:ScheduleTypeType">
4608                         <enumeration value="EstimatedArrival"/>
4609                         <enumeration value="EstimatedDeparture"/>
4610                         <enumeration value="RequestedReturnDeparture"/>
4611                         <enumeration value="RequestedReturnArrival"/>
4612                         <enumeration value="BeginAvailable"/>
4613                         <enumeration value="EndAvailable"/>
4614                         <enumeration value="Route"/>
4615                     </restriction>
4616                 </simpleType>
4617             </element>
4618             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4619                 maxOccurs="1"/>
4620             <element name="Location" type="rm:LocationType" minOccurs="0"
4621                 maxOccurs="1"/>
4622         </sequence>
4623     </complexType>
4624     </element>
4625     </sequence>
4626 </complexType>
4627 </element>
4628 </sequence>
4629 </complexType>
4630 </element>
4631 </schema>
```

## 4632 A.10 ReleaseResource Message Schema

```
4633 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4634   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4635   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4636   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4637   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4638   elementFormDefault="qualified"
4639   attributeFormDefault="unqualified">
4640     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4641       schemaLocation="EDXL-RMCommonTypes.xsd"/>
4642     <!-- This schema describes the structure of
4643       EDXL-RM "ReleaseResource" messages.-->
4644     <element name="ReleaseResource">
4645       <complexType>
4646         <sequence>
4647           <element name="MessageID" type="rm:MessageIDType"/>
4648           <element name="SentDateTime" type="rm:DateTimeType"/>
4649           <element name="MessageContentType">
4650             <simpleType>
4651               <restriction base="rm:MessageContentTypeType">
4652                 <enumeration value="ReleaseResource"/>
4653               </restriction>
4654             </simpleType>
4655           </element>
4656           <element name="MessageDescription" type="rm:MessageDescriptionType"
4657             minOccurs="0" maxOccurs="1"/>
4658           <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4659           <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4660             maxOccurs="1"/>
4661           <element name="IncidentInformation" type="rm:IncidentInformationType"
4662             minOccurs="0" maxOccurs="unbounded"/>
4663           <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4664             maxOccurs="1"/>
4665           <element name="Funding" type="rm:FundingType" minOccurs="0"
4666             maxOccurs="unbounded"/>
4667           <element name="ContactInformation" type="rm:ContactInformationType"
4668             minOccurs="1" maxOccurs="unbounded"/>
4669           <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4670             <complexType>
4671               <sequence>
4672                 <element name="ResourceInfoElementID"
4673                   type="rm:ResourceInfoElementIDType"/>
4674                 <element name="ResponseInformation" type="rm:ResponseInformationType"
4675                   minOccurs="0" maxOccurs="1"/>
4676                 <element name="Resource">
4677                   <complexType>
4678                     <sequence>
4679                       <!-- One (or more) of first three elements is required -->
4680                       <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4681                         maxOccurs="1"/>
4682                       <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4683                         maxOccurs="1"/>
4684                       <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4685                         maxOccurs="1"/>
4686                       <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4687                         maxOccurs="1"/>
4688                       <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4689                         maxOccurs="unbounded"/>
4690                       <element name="Description" type="rm:DescriptionType" minOccurs="0"
4691                         maxOccurs="1"/>
4692                       <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4693                         maxOccurs="1"/>
4694                       <element name="Certifications" type="rm:CertificationsType"
4695                         minOccurs="0" maxOccurs="1"/>
4696                       <element name="SpecialRequirements"
4697                         type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4698                       <element name="ResponsibleParty" type="rm:ContactInformationType"
4699                         minOccurs="0" maxOccurs="1"/>
4700                       <element name="OwnershipInformation"
```

```

4701           type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4702   <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4703     <complexType>
4704       <sequence>
4705         <element name="DeploymentStatus" type="rm:ValueListType"
4706           minOccurs="0" maxOccurs="1"/>
4707         <element name="Availability" type="rm:AvailabilityType"
4708           minOccurs="0" maxOccurs="1"/>
4709       </sequence>
4710     </complexType>
4711   </element>
4712 </sequence>
4713 </complexType>
4714 </element>
4715 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4716   <complexType>
4717     <sequence>
4718       <element name="Quantity" type="rm:QuantityType"/>
4719       <element name="Restrictions" type="rm:RestrictionsType"
4720         minOccurs="0" maxOccurs="1"/>
4721       <element name="AnticipatedFunction"
4722         type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4723       <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4724         maxOccurs="1"/>
4725       <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4726         maxOccurs="1"/>
4727       <element name="AssignmentInstructions"
4728         type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4729     </sequence>
4730   </complexType>
4731 </element>
4732 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4733   <complexType>
4734     <sequence>
4735       <element name="ScheduleType">
4736         <simpleType>
4737           <restriction base="rm:ScheduleTypeType">
4738             <enumeration value="ActualReturnDeparture"/>
4739             <enumeration value="Current"/>
4740             <enumeration value="RequestedArrival"/>
4741             <enumeration value="EstimatedArrival"/>
4742             <enumeration value="ActualArrival"/>
4743             <enumeration value="RequestedDeparture"/>
4744             <enumeration value="EstimatedDeparture"/>
4745             <enumeration value="ActualDeparture"/>
4746             <enumeration value="RequestedReturnDeparture"/>
4747             <enumeration value="RequestedReturnArrival"/>
4748             <enumeration value="BeginAvailable"/>
4749             <enumeration value="EndAvailable"/>
4750             <enumeration value="Committed"/>
4751             <enumeration value="ReportTo"/>
4752             <enumeration value="EstimatedReturnDeparture"/>
4753             <enumeration value="EstimatedReturnArrival"/>
4754             <enumeration value="Route"/>
4755           </restriction>
4756         </simpleType>
4757       </element>
4758     <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4759       maxOccurs="1"/>
4760     <element name="Location" type="rm:LocationType" minOccurs="0"
4761       maxOccurs="1"/>
4762   </sequence>
4763 </complexType>
4764 </element>
4765 </sequence>
4766 </complexType>
4767 </element>
4768 </sequence>
4769 </complexType>
4770 </element>

```

4771

```
</schema>
```

4772

## A.11 RequestReturn Message Schema

```
4773 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4774   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4775   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4776   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4777   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4778   elementFormDefault="qualified"
4779   attributeFormDefault="unqualified">
4780   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4781     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4782   <!-- This schema describes the structure of
4783     EDXL-RM "RequestReturn" messages.-->
4784   <element name="RequestReturn">
4785     <complexType>
4786       <sequence>
4787         <element name="MessageID" type="rm:MessageIDType"/>
4788         <element name="SentDateTime" type="rm:DateTimeType"/>
4789         <element name="MessageContentType">
4790           <simpleType>
4791             <restriction base="rm:MessageContentTypeType">
4792               <enumeration value="RequestReturn"/>
4793             </restriction>
4794           </simpleType>
4795         </element>
4796         <element name="MessageDescription" type="rm:MessageDescriptionType"
4797           minOccurs="0" maxOccurs="1"/>
4798         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4799         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4800           maxOccurs="1"/>
4801         <element name="IncidentInformation" type="rm:IncidentInformationType"
4802           minOccurs="0" maxOccurs="unbounded"/>
4803         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4804           maxOccurs="1"/>
4805         <element name="Funding" type="rm:FundingType" minOccurs="0"
4806           maxOccurs="unbounded"/>
4807         <element name="ContactInformation" type="rm:ContactInformationType"
4808           minOccurs="1" maxOccurs="unbounded"/>
4809         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4810           <complexType>
4811             <sequence>
4812               <element name="ResourceInfoElementID"
4813                 type="rm:ResourceInfoElementIDType"/>
4814               <element name="Resource">
4815                 <complexType>
4816                   <sequence>
4817                     <!-- One (or more) of first three elements is required -->
4818                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4819                       maxOccurs="1"/>
4820                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4821                       maxOccurs="1"/>
4822                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4823                       maxOccurs="1"/>
4824                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4825                       maxOccurs="1"/>
4826                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4827                       maxOccurs="unbounded"/>
4828                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4829                       maxOccurs="1"/>
4830                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4831                       maxOccurs="1"/>
4832                     <element name="Certifications" type="rm:CertificationsType"
4833                       minOccurs="0" maxOccurs="1"/>
4834                     <element name="SpecialRequirements"
4835                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4836                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4837                       minOccurs="0" maxOccurs="1"/>
```

```

4838
4839     <element name="OwnershipInformation"
4840         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4841     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4842         <complexType>
4843             <sequence>
4844                 <element name="DeploymentStatus" type="rm:ValueListType"
4845                     minOccurs="0" maxOccurs="1"/>
4846                 <element name="Availability" type="rm:AvailabilityType"
4847                     minOccurs="0" maxOccurs="1"/>
4848             </sequence>
4849         </complexType>
4850     </element>
4851     </sequence>
4852 </complexType>
4853 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4854     <complexType>
4855         <sequence>
4856             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4857                     maxOccurs="1"/>
4858             <element name="Restrictions" type="rm:RestrictionsType"
4859                     minOccurs="0" maxOccurs="1"/>
4860             <element name="AnticipatedFunction"
4861                     type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4862             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4863                     maxOccurs="1"/>
4864             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4865                     maxOccurs="1"/>
4866             <element name="AssignmentInstructions"
4867                     type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4868         </sequence>
4869     </complexType>
4870 </element>
4871 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4872     <complexType>
4873         <sequence>
4874             <element name="ScheduleType">
4875                 <simpleType>
4876                     <restriction base="rm:ScheduleTypeType">
4877                         <enumeration value="RequestedArrival"/>
4878                         <enumeration value="EstimatedArrival"/>
4879                         <enumeration value="ActualArrival"/>
4880                         <enumeration value="RequestedDeparture"/>
4881                         <enumeration value="EstimatedDeparture"/>
4882                         <enumeration value="ActualDeparture"/>
4883                         <enumeration value="RequestedReturnDeparture"/>
4884                         <enumeration value="RequestedReturnArrival"/>
4885                         <enumeration value="BeginAvailable"/>
4886                         <enumeration value="EndAvailable"/>
4887                         <enumeration value="Committed"/>
4888                         <enumeration value="ReportTo"/>
4889                         <enumeration value="Route"/>
4890                     </restriction>
4891                 </simpleType>
4892             </element>
4893             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4894                     maxOccurs="1"/>
4895             <element name="Location" type="rm:LocationType" minOccurs="0"
4896                     maxOccurs="1"/>
4897         </sequence>
4898     </complexType>
4899 </element>
4900 </sequence>
4901 </complexType>
4902 </element>
4903 </sequence>
4904 </complexType>
4905 </element>
4906 </schema>

```

## 4907 A.12 ResponseToRequestReturn Message Schema

```
4908 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4909   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4910   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4911   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4912   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4913   elementFormDefault="qualified"
4914   attributeFormDefault="unqualified">
4915     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4916       schemaLocation="EDXL-RMCommonTypes.xsd"/>
4917     <!-- This schema describes the structure of
4918       EDXL-RM "ResponseToRequestReturn" messages.-->
4919     <element name="ResponseToRequestReturn">
4920       <complexType>
4921         <sequence>
4922           <element name="MessageID" type="rm:MessageIDType"/>
4923           <element name="SentDateTime" type="rm:DateTimeType"/>
4924           <element name="MessageContentType">
4925             <simpleType>
4926               <restriction base="rm:MessageContentTypeType">
4927                 <enumeration value="ResponseToRequestReturn"/>
4928               </restriction>
4929             </simpleType>
4930           </element>
4931           <element name="MessageDescription" type="rm:MessageDescriptionType"
4932             minOccurs="0" maxOccurs="1"/>
4933           <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4934           <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4935           <element name="IncidentInformation" type="rm:IncidentInformationType"
4936             minOccurs="0" maxOccurs="unbounded"/>
4937           <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4938             maxOccurs="1"/>
4939           <element name="Funding" type="rm:FundingType" minOccurs="0"
4940             maxOccurs="unbounded"/>
4941           <element name="ContactInformation" type="rm>ContactInformationType"
4942             minOccurs="1" maxOccurs="unbounded"/>
4943           <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4944             <complexType>
4945               <sequence>
4946                 <element name="ResourceInfoElementID"
4947                   type="rm:ResourceInfoElementIDType"/>
4948                 <element name="ResponseInformation" type="rm:ResponseInformationType"/>
4949                 <element name="Resource" minOccurs="0" maxOccurs="1">
4950                   <complexType>
4951                     <sequence>
4952                       <!-- One (or more) of first three elements is required -->
4953                       <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4954                         maxOccurs="1"/>
4955                       <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4956                         maxOccurs="1"/>
4957                       <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4958                         maxOccurs="1"/>
4959                       <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4960                         maxOccurs="1"/>
4961                       <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4962                         maxOccurs="unbounded"/>
4963                       <element name="Description" type="rm:DescriptionType" minOccurs="0"
4964                         maxOccurs="1"/>
4965                       <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4966                         maxOccurs="1"/>
4967                       <element name="Certifications" type="rm:CertificationsType"
4968                         minOccurs="0" maxOccurs="1"/>
4969                       <element name="SpecialRequirements"
4970                         type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4971                       <element name="ResponsibleParty" type="rm>ContactInformationType"
4972                         minOccurs="0" maxOccurs="1"/>
4973                       <element name="OwnershipInformation"
4974                         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4975                       <element name="ResourceStatus">
```

```

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        <complexType>
            <sequence>
                <element name="DeploymentStatus" type="rm:ValueListType"/>
                <element name="Availability" type="rm:AvailabilityType"/>
            </sequence>
        </complexType>
    </element>
</sequence>
</complexType>
</element>
<element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
    <complexType>
        <sequence>
            <element name="Quantity" type="rm:QuantityType" minOccurs="0"
                maxOccurs="1"/>
            <element name="Restrictions" type="rm:RestrictionsType"
                minOccurs="0" maxOccurs="1"/>
            <element name="AnticipatedFunction"
                type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
            <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
                maxOccurs="1"/>
            <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
                maxOccurs="1"/>
            <element name="AssignmentInstructions"
                type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
        </sequence>
    </complexType>
</element>
<element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
    <complexType>
        <sequence>
            <element name="ScheduleType">
                <simpleType>
                    <restriction base="rm:ScheduleTypeType">
                        <enumeration value="ActualReturnDeparture"/>
                        <enumeration value="RequestedArrival"/>
                        <enumeration value="EstimatedArrival"/>
                        <enumeration value="ActualArrival"/>
                        <enumeration value="RequestedDeparture"/>
                        <enumeration value="EstimatedDeparture"/>
                        <enumeration value="ActualDeparture"/>
                        <enumeration value="RequestedReturnDeparture"/>
                        <enumeration value="RequestedReturnArrival"/>
                        <enumeration value="BeginAvailable"/>
                        <enumeration value="EndAvailable"/>
                        <enumeration value="Committed"/>
                        <enumeration value="ReportTo"/>
                        <enumeration value="EstimatedReturnDeparture"/>
                        <enumeration value="EstimatedReturnArrival"/>
                        <enumeration value="Route"/>
                        <enumeration value="Current"/>
                    </restriction>
                </simpleType>
            </element>
            <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
                maxOccurs="1"/>
            <element name="Location" type="rm:LocationType" minOccurs="0"
                maxOccurs="1"/>
        </sequence>
    </complexType>
</element>
</sequence>
</complexType>
</element>
</sequence>
</complexType>
</element>
</schema>

```

## 5044 A.13 RequestQuote Message Schema

```
5045 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5046   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5047   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5048   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5049   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5050   elementFormDefault="qualified"
5051   attributeFormDefault="unqualified">
5052   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5053     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5054   <!-- This schema describes the structure of
5055     EDXL-RM "RequestQuote" messages.-->
5056   <element name="RequestQuote">
5057     <complexType>
5058       <sequence>
5059         <element name="MessageID" type="rm:MessageIDType"/>
5060         <element name="SentDateTime" type="rm:DateTimeType"/>
5061         <element name="MessageContentType">
5062           <simpleType>
5063             <restriction base="rm:MessageContentTypeType">
5064               <enumeration value="RequestQuote"/>
5065             </restriction>
5066           </simpleType>
5067         </element>
5068         <element name="MessageDescription" type="rm:MessageDescriptionType"
5069           minOccurs="0" maxOccurs="1"/>
5070         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5071         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5072           maxOccurs="1"/>
5073         <element name="IncidentInformation" type="rm:IncidentInformationType"
5074           minOccurs="0" maxOccurs="unbounded"/>
5075         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5076           maxOccurs="1"/>
5077         <element name="Funding" type="rm:FundingType" minOccurs="0"
5078           maxOccurs="unbounded"/>
5079         <element name="ContactInformation" type="rm:ContactInformationType"
5080           minOccurs="1" maxOccurs="unbounded"/>
5081         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5082           <complexType>
5083             <sequence>
5084               <element name="ResourceInfoElementID"
5085                 type="rm:ResourceInfoElementIDType"/>
5086               <element name="ResponseInformation" type="rm:ResponseInformationType"
5087                 minOccurs="0" maxOccurs="1"/>
5088               <element name="Resource">
5089                 <complexType>
5090                   <sequence>
5091                     <!-- One (or more) of first three elements is required -->
5092                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5093                       maxOccurs="1"/>
5094                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5095                       maxOccurs="1"/>
5096                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5097                       maxOccurs="1"/>
5098                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5099                       maxOccurs="1"/>
5100                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5101                       maxOccurs="unbounded"/>
5102                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5103                       maxOccurs="1"/>
5104                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5105                       maxOccurs="1"/>
5106                     <element name="Certifications" type="rm:CertificationsType"
5107                       minOccurs="0" maxOccurs="1"/>
5108                     <element name="SpecialRequirements"
5109                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5110                     <element name="ResponsibleParty" type="rm:ContactInformationType"
5111                       minOccurs="0" maxOccurs="1"/>
5112                     <element name="OwnershipInformation"
```

```

5113                               type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5114                         
```

`</sequence>`
`</complexType>`
`</element>`
`<element name="AssignmentInformation" minOccurs="0" maxOccurs="1">`
 `<complexType>`
 `<sequence>`
 `<element name="Quantity" type="rm:QuantityType" minOccurs="0"
5121 maxOccurs="1"/>
5122 <element name="Restrictions" type="rm:RestrictionsType"
5123 minOccurs="0" maxOccurs="1"/>
5124 <element name="AnticipatedFunction"
5125 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5126 <element name="AssignmentInstructions"
5127 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5128` 
 `</sequence>`
 `</complexType>`
`</element>`
`<element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">`
 `<complexType>`
 `<sequence>`
 `<element name="ScheduleType">`
 `<simpleType>`
 `<restriction base="rm:ScheduleTypeType">`
 `<enumeration value="RequestedArrival"/>
5138 <enumeration value="RequestedDeparture"/>
5139 <enumeration value="EstimatedReturnDeparture"/>
5140 <enumeration value="EstimatedReturnArrival"/>
5141 <enumeration value="ReportTo"/>
5142 <enumeration value="Route"/>
5143` 
 `</restriction>`
 `</simpleType>`
 `</element>`
 `<element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5147 maxOccurs="1"/>
5148 <element name="Location" type="rm:LocationType" minOccurs="0"
5149 maxOccurs="1"/>
5150` 
 `</sequence>`
 `</complexType>`
`</element>`
`</sequence>`
`</complexType>`
`</element>`
`</sequence>`
`</complexType>`
`</element>`
`</schema>`

## 5160 A.14 ResponseToRequestQuote Message Schema

```

5161 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5162   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5163   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5164   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5165   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5166   elementFormDefault="qualified"
5167   attributeFormDefault="unqualified"
5168   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5169     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5170   <!-- This schema describes the structure of
5171       EDXL-RM "ResponseToRequestQuote" messages.-->
5172   <element name="ResponseToRequestQuote">
5173     <complexType>
5174       <sequence>
5175         <element name="MessageID" type="rm:MessageIDType"/>
5176         <element name="SentDateTime" type="rm:DateTimeType"/>
5177         <element name="MessageContentType">
5178           <simpleType>
5179             <restriction base="rm:MessageContentTypeType">

```

```

5180          <enumeration value="ResponseToRequestQuote"/>
5181      </restriction>
5182  </simpleType>
5183 </element>
5184 <element name="MessageDescription" type="rm:MessageDescriptionType"
5185   minOccurs="0" maxOccurs="1"/>
5186 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5187 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
5188 <element name="IncidentInformation" type="rm:IncidentInformationType"
5189   minOccurs="0" maxOccurs="unbounded"/>
5190 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5191   maxOccurs="1"/>
5192 <element name="Funding" type="rm:FundingType" minOccurs="0"
5193   maxOccurs="unbounded"/>
5194 <element name="ContactInformation" type="rm>ContactInformationType"
5195   minOccurs="1" maxOccurs="unbounded"/>
5196 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5197   <complexType>
5198     <sequence>
5199       <element name="ResourceInfoElementID"
5200         type="rm:ResourceInfoElementIDType"/>
5201       <element name="ResponseInformation" type="rm:ResponseInformationType"/>
5202       <element name="Resource" minOccurs="0" maxOccurs="1">
5203         <complexType>
5204           <sequence>
5205             <!-- One (or more) of first three elements is required -->
5206             <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5207               maxOccurs="1"/>
5208             <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5209               maxOccurs="1"/>
5210             <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5211               maxOccurs="1"/>
5212             <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5213               maxOccurs="1"/>
5214             <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5215               maxOccurs="unbounded"/>
5216             <element name="Description" type="rm:DescriptionType" minOccurs="0"
5217               maxOccurs="1"/>
5218             <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5219               maxOccurs="1"/>
5220             <element name="Certifications" type="rm:CertificationsType"
5221               minOccurs="0" maxOccurs="1"/>
5222             <element name="SpecialRequirements"
5223               type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5224             <element name="ResponsibleParty" type="rm>ContactInformationType"
5225               minOccurs="0" maxOccurs="1"/>
5226             <element name="OwnershipInformation"
5227               type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5228             <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5229               <complexType>
5230                 <sequence>
5231                   <element name="InventoryRefreshDateTime"
5232                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5233                   <element name="DeploymentStatus" type="rm:ValueListType"
5234                     minOccurs="0" maxOccurs="1"/>
5235                   <element name="Availability" type="rm:AvailabilityType"
5236                     minOccurs="0" maxOccurs="1"/>
5237                 </sequence>
5238               </complexType>
5239             </element>
5240           </sequence>
5241         </complexType>
5242       </element>
5243     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5244       <complexType>
5245         <sequence>
5246           <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5247             maxOccurs="1"/>
5248           <element name="Restrictions" type="rm:RestrictionsType"
5249             minOccurs="0" maxOccurs="1"/>
5250           <element name="AnticipatedFunction"

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5251             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5252         <element name="PriceQuote" type="rm:PriceQuoteType"/>
5253         <element name="AssignmentInstructions"
5254             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5255     </sequence>
5256 </complexType>
5257 </element>
5258 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5259     <complexType>
5260         <sequence>
5261             <element name="ScheduleType">
5262                 <simpleType>
5263                     <restriction base="rm:ScheduleTypeType">
5264                         <enumeration value="EstimatedArrival"/>
5265                         <enumeration value="EstimatedDeparture"/>
5266                         <enumeration value="RequestedReturnDeparture"/>
5267                         <enumeration value="RequestedReturnArrival"/>
5268                         <enumeration value="BeginAvailable"/>
5269                         <enumeration value="EndAvailable"/>
5270                         <enumeration value="RequestedArrival"/>
5271                         <enumeration value="RequestedDeparture"/>
5272                         <enumeration value="EstimatedReturnDeparture"/>
5273                         <enumeration value="EstimatedReturnArrival"/>
5274                         <enumeration value="ReportTo"/>
5275                         <enumeration value="Route"/>
5276                     </restriction>
5277                 </simpleType>
5278             </element>
5279             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5280                 maxOccurs="1"/>
5281             <element name="Location" type="rm:LocationType" minOccurs="0"
5282                 maxOccurs="1"/>
5283         </sequence>
5284     </complexType>
5285     </element>
5286 </sequence>
5287 </complexType>
5288 </element>
5289 </sequence>
5290 </complexType>
5291 </element>
5292 </schema>
```

## 5293 A.15 RequestResourceDeploymentStatus Message Schema

```

5294 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5295   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5296   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5297   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5298   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5299   elementFormDefault="qualified"
5300   attributeFormDefault="unqualified">
5301     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5302       schemaLocation="EDXL-RMCommonTypes.xsd"/>
5303     <!-- This schema describes the structure of
5304         EDXL-RM "RequestResourceDeploymentStatus" messages.-->
5305     <element name="RequestResourceDeploymentStatus">
5306         <complexType>
5307             <sequence>
5308                 <element name="MessageID" type="rm:MessageIDType"/>
5309                 <element name="SentDateTime" type="rm:DateTimeType"/>
5310                 <element name="MessageContentType">
5311                     <simpleType>
5312                         <restriction base="rm:MessageContentTypeType">
5313                             <enumeration value="RequestResourceDeploymentStatus"/>
5314                         </restriction>
5315                     </simpleType>
5316                 </element>
5317                 <element name="MessageDescription" type="rm:MessageDescriptionType"
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5318     minOccurs="0" maxOccurs="1"/>
5319   <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5320   <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5321     maxOccurs="1"/>
5322   <element name="IncidentInformation" type="rm:IncidentInformationType"
5323     minOccurs="0" maxOccurs="unbounded"/>
5324   <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5325     maxOccurs="1"/>
5326   <element name="Funding" type="rm:FundingType" minOccurs="0"
5327     maxOccurs="unbounded"/>
5328   <element name="ContactInformation" type="rm>ContactInformationType"
5329     minOccurs="1" maxOccurs="unbounded"/>
5330   <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5331     <complexType>
5332       <sequence>
5333         <element name="ResourceInfoElementID"
5334           type="rm:ResourceInfoElementIDType"/>
5335         <element name="Resource">
5336           <complexType>
5337             <sequence>
5338               <!-- One (or more) of first three elements is required -->
5339               <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5340                 maxOccurs="1"/>
5341               <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5342                 maxOccurs="1"/>
5343               <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5344                 maxOccurs="1"/>
5345               <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5346                 maxOccurs="1"/>
5347               <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5348                 maxOccurs="unbounded"/>
5349               <element name="Description" type="rm:DescriptionType" minOccurs="0"
5350                 maxOccurs="1"/>
5351               <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5352                 maxOccurs="1"/>
5353               <element name="Certifications" type="rm:CertificationsType"
5354                 minOccurs="0" maxOccurs="1"/>
5355               <element name="SpecialRequirements"
5356                 type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5357               <element name="ResponsibleParty" type="rm>ContactInformationType"
5358                 minOccurs="0" maxOccurs="1"/>
5359               <element name="OwnershipInformation"
5360                 type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5361             </sequence>
5362           </complexType>
5363         </element>
5364       <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5365         <complexType>
5366           <sequence>
5367             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5368               maxOccurs="1"/>
5369             <element name="Restrictions" type="rm:RestrictionsType"
5370               minOccurs="0" maxOccurs="1"/>
5371             <element name="AnticipatedFunction"
5372               type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5373             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5374               maxOccurs="1"/>
5375             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5376               maxOccurs="1"/>
5377             <element name="AssignmentInstructions"
5378               type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5379           </sequence>
5380         </complexType>
5381       </element>
5382     <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5383       <complexType>
5384         <sequence>
5385           <element name="ScheduleType">
5386             <simpleType>
5387               <restriction base="rm:ScheduleTypeType">
5388                 <enumeration value="RequestedArrival"/>

```

```

5389             <enumeration value="EstimatedArrival"/>
5390             <enumeration value="ActualArrival"/>
5391             <enumeration value="RequestedDeparture"/>
5392             <enumeration value="EstimatedDeparture"/>
5393             <enumeration value="ActualDeparture"/>
5394             <enumeration value="RequestedReturnDeparture"/>
5395             <enumeration value="EstimatedReturnDeparture"/>
5396             <enumeration value="ActualReturnDeparture"/>
5397             <enumeration value="RequestedReturnArrival"/>
5398             <enumeration value="EstimatedReturnArrival"/>
5399             <enumeration value="ActualReturnArrival"/>
5400             <enumeration value="BeginAvailable"/>
5401             <enumeration value="EndAvailable"/>
5402             <enumeration value="Committed"/>
5403             <enumeration value="ReportTo"/>
5404                 <enumeration value="Route"/>
5405             </restriction>
5406         </simpleType>
5407     </element>
5408     <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5409             maxOccurs="1"/>
5410     <element name="Location" type="rm:LocationType" minOccurs="0"
5411             maxOccurs="1"/>
5412     </sequence>
5413   </complexType>
5414 </element>
5415 </sequence>
5416 </complexType>
5417 </element>
5418 </sequence>
5419 </complexType>
5420 </element>
5421 </schema>

```

## 5422 A.16 ReportResourceDeploymentStatus Message Schema

```

5423 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5424   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5425   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5426   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5427   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5428   elementFormDefault="qualified"
5429   attributeFormDefault="unqualified">
5430     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5431         schemaLocation="EDXL-RMCommonTypes.xsd"/>
5432     <!-- This schema describes the structure of
5433         EDXL-RM "ReportResourceDeploymentStatus" messages.-->
5434     <element name="ReportResourceDeploymentStatus">
5435       <complexType>
5436         <sequence>
5437           <element name="MessageID" type="rm:MessageIDType"/>
5438           <element name="SentDateTime" type="rm:DateTimeType"/>
5439           <element name="MessageContentType">
5440             <simpleType>
5441               <restriction base="rm:MessageContentTypeType">
5442                 <enumeration value="ReportResourceDeploymentStatus"/>
5443               </restriction>
5444             </simpleType>
5445           </element>
5446           <element name="MessageDescription" type="rm:MessageDescriptionType"
5447               minOccurs="0" maxOccurs="1"/>
5448           <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5449           <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5450               maxOccurs="1"/>
5451           <element name="IncidentInformation" type="rm:IncidentInformationType"
5452               minOccurs="0" maxOccurs="unbounded"/>
5453           <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5454               maxOccurs="1"/>
5455           <element name="Funding" type="rm:FundingType" minOccurs="0"

```

```

5456           maxOccurs="unbounded"/>
5457   <element name="ContactInformation" type="rm>ContactInformationType"
5458     minOccurs="1" maxOccurs="unbounded"/>
5459   <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5460     <complexType>
5461       <sequence>
5462         <element name="ResourceInfoElementID"
5463           type="rm:ResourceInfoElementIDType"/>
5464         <element name="ResponseInformation" type="rm:ResponseInformationType"
5465           minOccurs="0" maxOccurs="1"/>
5466         <element name="Resource" minOccurs="0" maxOccurs="1">
5467           <complexType>
5468             <sequence>
5469               <!-- One (or more) of first three elements is required -->
5470               <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5471                 maxOccurs="1"/>
5472               <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5473                 maxOccurs="1"/>
5474               <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5475                 maxOccurs="1"/>
5476               <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5477                 maxOccurs="1"/>
5478               <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5479                 maxOccurs="unbounded"/>
5480               <element name="Description" type="rm:DescriptionType" minOccurs="0"
5481                 maxOccurs="1"/>
5482               <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5483                 maxOccurs="1"/>
5484               <element name="Certifications" type="rm:CertificationsType"
5485                 minOccurs="0" maxOccurs="1"/>
5486               <element name="SpecialRequirements"
5487                 type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5488               <element name="ResponsibleParty" type="rm>ContactInformationType"
5489                 minOccurs="0" maxOccurs="1"/>
5490               <element name="OwnershipInformation"
5491                 type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5492               <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5493                 <complexType>
5494                   <sequence>
5495                     <element name="InventoryRefreshDateTime"
5496                       type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5497                     <element name="DeploymentStatus" type="rm:ValueListType"
5498                       minOccurs="0" maxOccurs="1"/>
5499                     <element name="Availability" type="rm:AvailabilityType"
5500                       minOccurs="0" maxOccurs="1"/>
5501                   </sequence>
5502                 </complexType>
5503               </sequence>
5504             </complexType>
5505           </element>
5506         </complexType>
5507       <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5508         <complexType>
5509           <sequence>
5510             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5511               maxOccurs="1"/>
5512             <element name="Restrictions" type="rm:RestrictionsType"
5513               minOccurs="0" maxOccurs="1"/>
5514             <element name="AnticipatedFunction"
5515               type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5516             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5517               maxOccurs="1"/>
5518             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5519               maxOccurs="1"/>
5520             <element name="AssignmentInstructions"
5521               type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5522           </sequence>
5523         </complexType>
5524       </element>
5525       <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5526         <complexType>

```

```
5527
5528     <sequence>
5529         <element name="ScheduleType">
5530             <simpleType>
5531                 <restriction base="rm:ScheduleTypeType">
5532                     <enumeration value="RequestedArrival"/>
5533                     <enumeration value="EstimatedArrival"/>
5534                     <enumeration value="ActualArrival"/>
5535                     <enumeration value="RequestedDeparture"/>
5536                     <enumeration value="EstimatedDeparture"/>
5537                     <enumeration value="ActualDeparture"/>
5538                     <enumeration value="RequestedReturnDeparture"/>
5539                     <enumeration value="EstimatedReturnDeparture"/>
5540                     <enumeration value="ActualReturnDeparture"/>
5541                     <enumeration value="RequestedReturnArrival"/>
5542                     <enumeration value="EstimatedReturnArrival"/>
5543                     <enumeration value="ActualReturnArrival"/>
5544                     <enumeration value="BeginAvailable"/>
5545                     <enumeration value="EndAvailable"/>
5546                     <enumeration value="Committed"/>
5547                     <enumeration value="Current"/>
5548                     <enumeration value="ReportTo"/>
5549                     <enumeration value="Route"/>
5550             </restriction>
5551         </simpleType>
5552     </element>
5553     <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5554         maxOccurs="1"/>
5555     <element name="Location" type="rm:LocationType" minOccurs="0"
5556         maxOccurs="1"/>
5557         </sequence>
5558     </complexType>
5559     </element>
5560     </sequence>
5561     </complexType>
5562     </element>
5563     </complexType>
5564 </element>
5565 </schema>
```

5566

5567

## A.17 Request Extended Deployment Duration Message Schema

```

5568 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5569   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5570   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5571   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5572   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5573   elementFormDefault="qualified"
5574   attributeFormDefault="unqualified">
5575   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5576     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5577   <!-- This schema describes the structure of
5578     EDXL-RM "RequestExtendedDeploymentDuration" messages.-->
5579   <element name="RequestExtendedDeploymentDuration">
5580     <complexType>
5581       <sequence>
5582         <element name="MessageID" type="rm:MessageIDType"/>
5583         <element name="SentDateTime" type="rm:DateTimeType"/>
5584         <element name="MessageContentType">
5585           <simpleType>
5586             <restriction base="rm:MessageContentTypeType">
5587               <enumeration value="RequestExtendedDeploymentDuration"/>
5588             </restriction>
5589           </simpleType>
5590         </element>
5591         <element name="MessageDescription" type="rm:MessageDescriptionType"
5592           minOccurs="0" maxOccurs="1"/>
5593         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5594         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5595           maxOccurs="1"/>
5596         <element name="IncidentInformation" type="rm:IncidentInformationType"
5597           minOccurs="0" maxOccurs="unbounded"/>
5598         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5599           maxOccurs="1"/>
5600         <element name="Funding" type="rm:FundingType" minOccurs="0"
5601           maxOccurs="unbounded"/>
5602         <element name="ContactInformation" type="rm:ContactInformationType"
5603           minOccurs="1" maxOccurs="unbounded"/>
5604         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5605           <complexType>
5606             <sequence>
5607               <element name="ResourceInfoElementID"
5608                 type="rm:ResourceInfoElementIDType"/>
5609               <element name="Resource">
5610                 <complexType>
5611                   <sequence>
5612                     <!-- One (or more) of first three elements is required -->
5613                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5614                       maxOccurs="1"/>
5615                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5616                       maxOccurs="1"/>
5617                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5618                       maxOccurs="1"/>
5619                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5620                       maxOccurs="1"/>
5621                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5622                       maxOccurs="unbounded"/>
5623                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5624                       maxOccurs="1"/>
5625                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5626                       maxOccurs="1"/>
5627                     <element name="Certifications" type="rm:CertificationsType"
5628                       minOccurs="0" maxOccurs="1"/>
5629                     <element name="SpecialRequirements"
5630                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5631                     <element name="ResponsibleParty" type="rm:ContactInformationType"
5632                       minOccurs="0" maxOccurs="1"/>
5633                     <element name="OwnershipInformation"
5634                       type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>

```

```

5635      <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5636          <complexType>
5637              <sequence>
5638                  <element name="DeploymentStatus" type="rm:ValueListType"
5639                      minOccurs="0" maxOccurs="1"/>
5640                  <element name="Availability" type="rm:AvailabilityType"
5641                      minOccurs="0" maxOccurs="1"/>
5642          </sequence>
5643      </complexType>
5644  </element>
5645  </sequence>
5646</complexType>
5647</element>
5648<element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5649    <complexType>
5650        <sequence>
5651            <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5652                maxOccurs="1"/>
5653            <element name="Restrictions" type="rm:RestrictionsType"
5654                minOccurs="0" maxOccurs="1"/>
5655            <element name="AnticipatedFunction"
5656                type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5657            <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5658                maxOccurs="1"/>
5659            <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5660                maxOccurs="1"/>
5661        </sequence>
5662    </complexType>
5663</element>
5664<element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5665    <complexType>
5666        <sequence>
5667            <element name="ScheduleType">
5668                <simpleType>
5669                    <restriction base="rm:ScheduleTypeType">
5670                        <enumeration value="RequestedArrival"/>
5671                        <enumeration value="EstimatedArrival"/>
5672                        <enumeration value="ActualArrival"/>
5673                        <enumeration value="RequestedDeparture"/>
5674                        <enumeration value="EstimatedDeparture"/>
5675                        <enumeration value="ActualDeparture"/>
5676                        <enumeration value="RequestedReturnArrival"/>
5677                        <enumeration value="Committed"/>
5678                        <enumeration value="ReportTo"/>
5679                        <enumeration value="RequestedReturnDeparture"/>
5680                        <enumeration value="EstimatedReturnDeparture"/>
5681                        <enumeration value="EstimatedReturnArrival"/>
5682                        <enumeration value="Route"/>
5683                    </restriction>
5684                </simpleType>
5685            </element>
5686            <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5687                maxOccurs="1"/>
5688            <element name="Location" type="rm:LocationType" minOccurs="0"
5689                maxOccurs="1"/>
5690        </sequence>
5691    </complexType>
5692  </element>
5693  </sequence>
5694</complexType>
5695</element>
5696</sequence>
5697</complexType>
5698</element>
5699</schema>

```

5700 **A.18 ResponseToRequestExtendedDeploymentDuration Message**  
5701 **Schema**

```
5702 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5703   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5704   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5705   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5706   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5707   elementFormDefault="qualified"
5708   attributeFormDefault="unqualified">
5709   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5710     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5711   <!-- This schema describes the structure of
5712       EDXL-RM "ResponseToRequestExtendedDeploymentDuration" messages.-->
5713   <element name="ResponseToRequestExtendedDeploymentDuration">
5714     <complexType>
5715       <sequence>
5716         <element name="MessageID" type="rm:MessageIDType"/>
5717         <element name="SentDateTime" type="rm:DateTimeType"/>
5718         <element name="MessageContentType">
5719           <simpleType>
5720             <restriction base="rm:MessageContentTypeType">
5721               <enumeration value="ResponseToRequestExtendedDeploymentDuration"/>
5722             </restriction>
5723           </simpleType>
5724         </element>
5725         <element name="MessageDescription" type="rm:MessageDescriptionType"
5726           minOccurs="0" maxOccurs="1"/>
5727         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5728         <element name="PrecedingMessageID" type="rm:MessageIDType"/>
5729         <element name="IncidentInformation" type="rm:IncidentInformationType"
5730           minOccurs="0" maxOccurs="unbounded"/>
5731         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5732           maxOccurs="1"/>
5733         <element name="Funding" type="rm:FundingType" minOccurs="0"
5734           maxOccurs="unbounded"/>
5735         <element name="ContactInformation" type="rm>ContactInformationType"
5736           minOccurs="1" maxOccurs="unbounded"/>
5737         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5738           <complexType>
5739             <sequence>
5740               <element name="ResourceInfoElementID"
5741                 type="rm:ResourceInfoElementIDType"/>
5742               <element name="ResponseInformation" type="rm:ResponseInformationType"/>
5743               <element name="Resource" minOccurs="0" maxOccurs="1">
5744                 <complexType>
5745                   <sequence>
5746                     <!-- One (or more) of first three elements is required -->
5747                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5748                       maxOccurs="1"/>
5749                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5750                       maxOccurs="1"/>
5751                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5752                       maxOccurs="1"/>
5753                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5754                       maxOccurs="1"/>
5755                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5756                       maxOccurs="unbounded"/>
5757                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5758                       maxOccurs="1"/>
5759                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5760                       maxOccurs="1"/>
5761                     <element name="Certifications" type="rm:CertificationsType"
5762                       minOccurs="0" maxOccurs="1"/>
5763                     <element name="SpecialRequirements"
5764                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5765                     <element name="ResponsibleParty" type="rm>ContactInformationType"
5766                       minOccurs="0" maxOccurs="1"/>
5767                     <element name="OwnershipInformation"
```

```

5768      type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5769      <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5770          <complexType>
5771              <sequence>
5772                  <element name="DeploymentStatus" type="rm:ValueListType"
5773                      minOccurs="0" maxOccurs="1"/>
5774                  <element name="Availability" type="rm:AvailabilityType"
5775                      minOccurs="0" maxOccurs="1"/>
5776              </sequence>
5777          </complexType>
5778      </element>
5779      </sequence>
5780  </complexType>
5781 </element>
5782 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5783     <complexType>
5784         <sequence>
5785             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5786                 maxOccurs="1"/>
5787             <element name="Restrictions" type="rm:RestrictionsType"
5788                 minOccurs="0" maxOccurs="1"/>
5789             <element name="AnticipatedFunction"
5790                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5791             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5792                 maxOccurs="1"/>
5793             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5794                 maxOccurs="1"/>
5795             <element name="AssignmentInstructions"
5796                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5797         </sequence>
5798     </complexType>
5799 </element>
5800 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5801     <complexType>
5802         <sequence>
5803             <element name="ScheduleType">
5804                 <simpleType>
5805                     <restriction base="rm:ScheduleTypeType">
5806                         <enumeration value="EndAvailable"/>
5807                         <enumeration value="RequestedArrival"/>
5808                         <enumeration value="EstimatedArrival"/>
5809                         <enumeration value="ActualArrival"/>
5810                         <enumeration value="RequestedDeparture"/>
5811                         <enumeration value="EstimatedDeparture"/>
5812                         <enumeration value="ActualDeparture"/>
5813                         <enumeration value="RequestedReturnArrival"/>
5814                         <enumeration value="Committed"/>
5815                         <enumeration value="ReportTo"/>
5816                         <enumeration value="RequestedReturnDeparture"/>
5817                         <enumeration value="EstimatedReturnDeparture"/>
5818                         <enumeration value="EstimatedReturnArrival"/>
5819                         <enumeration value="Route"/>
5820                     </restriction>
5821                 </simpleType>
5822             </element>
5823             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5824                 maxOccurs="1"/>
5825             <element name="Location" type="rm:LocationType" minOccurs="0"
5826                 maxOccurs="1"/>
5827         </sequence>
5828     </complexType>
5829 </element>
5830 </sequence>
5831 </complexType>
5832 </element>
5833 </sequence>
5834 </complexType>
5835 </element>
5836 </schema>

```

5837 **A.19 Acknowledgements**

5838 The following individuals have participated in the creation of this specification and are gratefully  
5839 acknowledged:

5840 **Participants:**

5841 Dr. Patti Aymond, Individual  
5842 Art Botterell, Individual  
5843 Rex Brooks, Individual  
5844 Kurt Buehler, Associate Member  
5845 Mr. Mark Carlson, Conneva, Inc.  
5846 Eliot Christian, US Department of the Interior  
5847 Mr. David Danko, ESRI  
5848 Mr. Sukumar Dwarkanath, Associate Member  
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5864 Dr. Karen Robinson, NICTA  
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5867 Aviv Siegel, Athoc, Inc.  
5868 Mr. Bryan Small, ESI Acquisition, Inc.  
5869 Dr. Aaron Temin, Individual  
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5873

---

5874

## B. Revision History

5875

[optional; should not be included in OASIS Standards]

5876

Revision	Date	Editor	Changes Made
[Rev number]	[Rev Date]	[Modified By]	[Summary of Changes]

5877

5878