



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

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urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequisitionResource
urn:oasis:names:tc:emergency:EDXL:RM:1.0:CommitResource
urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestInformation
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.

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Table of Contents

1 INTRODUCTION	8
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
2 DESIGN PRINCIPLES AND CONCEPTS (NON-NORMATIVE)	12
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
3 EDXL RESOURCE MESSAGING MODEL (NORMATIVE UNLESS OTHERWISE STATED)	16
3.1 Abstract Reference Model (Non-Normative)	16
3.2 Element Reference Model	18
3.3 Resource Message Types	20
3.4 RequestResource Message	27
3.4.1 Overview	27
3.4.2 Element Reference Model	27
3.4.3 RequestResource Message Rules	30
3.4.4 Message Flow	30
3.4.5 Message Example	30
3.5 ResponseToRequestResource Message	34
3.5.1 Overview	34
3.5.2 Element Reference Model	34
3.5.3 ResponseToRequestResource Message Rules	37
3.5.4 Message Flow	38
3.5.5 Message Example	38
3.6 RequisitionResource Message	41
3.6.1 Overview	41
3.6.2 Element Reference Model	41
3.6.3 RequisitionResource Message Rules	44
3.6.4 Message Flow	45
3.6.5 Message Example	45
3.7 CommitResource Message	48
3.7.1 Overview	48
3.7.2 Element Reference Model	48
3.7.3 CommitResource Message Rules	51
3.7.4 Message Flow	52
3.7.5 Message Example	52
3.8 RequestInformation Message	55
3.8.1 Overview	55

3.8.2 Element Reference Model	55
3.8.3 RequestInformation Message rules	58
3.8.4 Message Flow	58
3.8.5 Message Example	59
3.9 ResponseToRequestInformation Message	61
3.9.1 Overview	61
3.9.2 Element Reference Model	61
3.9.3 ResponseToRequestInformation Message Rules	64
3.9.4 Message Flow	65
3.9.5 Message Example	66
3.10 OfferUnsolicitedResource Message	69
3.10.1 Overview	69
3.10.2 Element Reference Model	69
3.10.3 OfferUnsolicitedResource Message Rules	72
3.10.4 Message Flow	73
3.10.5 Message Example	73
3.11 ReleaseResource Message	76
3.11.1 Overview	76
3.11.2 Element Reference Model	76
3.11.3 ReleaseResource Message Rules	79
3.11.4 Message Flow	80
3.11.5 Message Example	80
3.12 RequestReturn Message	83
3.12.1 Overview	83
3.12.2 Element Reference Model	83
3.12.3 RequestReturn Message Rules	86
3.12.4 Message Flow	87
3.12.5 Message Example	87
3.13 ResponseToRequestReturn Message	89
3.13.1 Overview	89
3.13.2 Element Reference Model	89
3.13.3 ResponseToRequestReturn Message Rules	92
3.13.4 Message Flow	93
3.13.5 Message Example	93
3.14 RequestQuote Message	95
3.14.1 Overview	95
3.14.2 Element Reference Model	95
3.14.3 RequestQuote Message Rules	98
3.14.4 Message Flow	99
3.14.5 Message Example	99
3.15 ResponseToRequestQuote Message	102
3.15.1 Overview	102
3.15.2 Element Reference Model	102
3.15.3 ResponseToRequestQuote Message Rules	105
3.15.4 Message Flow	106
3.15.5 Message Example	106
3.16 RequestResourceDeploymentStatus Message	109
3.16.1 Overview	109
3.16.2 Element Reference Model	109
3.16.3 RequestResourceDeploymentStatus Message Rules	112
3.16.4 Message Flow	113
3.16.5 Message Example	113
3.17 ReportResourceDeploymentStatus Message	115

3.17.1 Overview	115
3.17.2 Element Reference Model	115
3.17.3 ReportResourceDeploymentStatus Message Rules	118
3.17.4 Message Flow	119
3.17.5 Message Example	119
3.18 RequestExtendedDeploymentDuration	122
3.18.1 Overview	122
3.18.2 Element Reference Model	122
3.18.3 RequestExtendedDeploymentDuration Message Rules	125
3.18.4 Message Flow	126
3.18.5 Message Example	126
3.19 ResponseToRequestExtendedDeploymentDuration Message	128
3.19.1 Overview	128
3.19.2 Element Reference Model	128
3.19.3 ResponseToRequestExtendedDeploymentDuration Message Rules	131
3.19.4 Message Flow	132
3.19.5 Message Example	132
4 DATA DICTIONARY (NORMATIVE)	135
4.1.1 EDXLResourceMessage ElementReferenceType Type	135
4.1.2 IncidentInformation Element	138
4.1.3 MessageRecall Element	139
4.1.4 Funding Element	140
4.1.5 ResourceInformation Element	141
4.1.6 ResponseInformation Element	141
4.1.7 Resource Element	142
4.1.8 OwnershipInformation Element	146
4.1.9 ResourceStatus Element	148
4.1.10 AssignmentInformation Element	151
4.1.11 AssignmentInstructions Element	154
4.1.12 ScheduleInformation Element	156
4.1.13 Supporting Element Types	158
4.1.13.1 ContactInformationType	158
4.1.13.1.1 Radio Element	161
4.1.13.2 LocationType	161
4.1.13.2.1 Imported Type Definitions	162
4.1.13.3 ValueListType	165
5 CONFORMANCE	167
5.1 Conformance Targets	167
5.2 Conformance Levels	167
5.3 Conformance as an EDXL-RM Message	168
5.3.1 Level-1 EDXL-RM Message	168
5.3.2 Level-2 EDXL-RM Message	168
5.4 Conformance as an EDXL-RM Message Producer	169
5.4.1 Level-1 EDXL-RM Message Producer	169
5.4.2 Level-2 EDXL-RM Message Producer	169
A. XML SCHEMA FOR THE EDXL RESOURCE MESSAGING (NORMATIVE)	170
A.1 Resource Messaging Common Types	170
A.2 Resource Messaging Reference Schema	174
A.3 RequestResource Message Schema	176
A.4 ResponseToRequestResource Message Schema	178

A.5 RequisitionResource Message Schema	180
A.6 CommitResource Message Schema	181
A.7 RequestInformation Message Schema.....	183
A.8 ResponseToRequestInformation Message Schema	185
A.9 OfferUnsolicitedResource Message Schema	187
A.10 ReleaseResource Message Schema	189
A.11 RequestReturn Message Schema.....	191
A.12 ResponseToRequestReturn Message Schema	193
A.13 RequestQuote Message Schema	195
A.14 ResponseToRequestQuote Message Schema	196
A.15 RequestResourceDeploymentStatus Message Schema.....	198
A.16 ReportResourceDeploymentStatus Message Schema	200
A.17 Request Extended Deployment Duration Message Schema	203
A.18 ResponseToRequestExtendedDeploymentDuration Message Schema	205
A.19 Acknowledgements.....	207
B. REVISION HISTORY	208

1 Introduction

1.1 Purpose

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

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

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

1.2 History

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

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

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

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 *constrains* 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

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174 [open.org/committees/download.php/13690/EDXL_ResourceDraft07152005.d](http://www.oasis-open.org/committees/download.php/13690/EDXL_ResourceDraft07152005.doc)
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176 **[ISO 4217]** ISO 4217:2001, *Codes for the representation of currencies and funds*

177 **[ISO 4217 codes]** *ISO 4217 currency names and code elements*,
178 [http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_u](http://www.iso.org/iso/support/faqs/faqs_widely_used_standards/widely_used_standards_other/currency_codes/currency_codes_list-1.htm)
179 [sed_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)

180 **[UCUM]** Gunther Schadow, Clement J. McDonald, *The Unified Code for Units of*
181 *Measure, Version 1.6*, <http://aurora.regenstrief.org/UCUM/ucum.html>,
182 Regenstrief Institute for Health Care, 2005

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2 Design Principles and Concepts (non-normative)

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

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

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2.1 Requirements for Design

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

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EDXL Resource Messaging Standard Requirements Supplement, workgroup

200

<http://www.oasisopen.org/committees/download.php/14981/EDXLRqmtsSupplement101905.doc>,
October 19, 2005

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In summary, the EDXL Resource Messaging specification should

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1. Define a detailed message structure for the following specific EDXL Resource Message Types: (Note that requirements that are self-evident from Message Type names are not separately listed)

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- 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
2. Explicitly specify use of EDXL-DE as the routing mechanism for the EDXL Resource Message
 3. Provide the ability to specify a desired geographic Resource delivery area, provide for notice of Resource demobilization and the ability to communicate information to provide for returning Resource
 4. Provide ability to accept or decline in a ResponseToRequestResource that indicates 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
258 The primary purpose of the Distribution Element is to facilitate the routing of emergency messages to
259 recipients. The Distribution Element may be thought of as a "container". It provides the information to
260 route "payload" message sets by including key routing information such as distribution type, geography,
261 incident, and sender/recipient IDs. Messages may be distributed to specific recipients, to a geographic
262 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
270 While the EDXL-RM is designed to be an EDXL-DE payload, other routing mechanisms may be used to
271 distribute EDXL-RM content if the message metadata is provided in the same form or if the sender
272 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-
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-
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
- 305 1. Final Draft_ 2003 SD Co Fire Safety Review-no pics.pdf [http://www.oasis-
306 open.org/committees/download.php/26809/Final%20Draft_%202003%20SD%20Co%20Fire
307 %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)
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 - 309 2. Cedar Fire SDFD.pdf [http://www.oasis-
310 open.org/committees/download.php/26808/Cedar%20Fire%20SDFD.pdf](http://www.oasis-open.org/committees/download.php/26808/Cedar%20Fire%20SDFD.pdf)
311
 - 312 3. City of SD City Mgr Rpt Fire 2003.pdf [http://www.oasis-
313 open.org/committees/download.php/26810/City%20of%20SD%20City%20Mgr%20Rpt%20Fi
314 re%202003.pdf](http://www.oasis-open.org/committees/download.php/26810/City%20of%20SD%20City%20Mgr%20Rpt%20Fire%202003.pdf)
315
- 316 Firestorm 2003 Case Study – Final.pdf [http://www.oasis-
317 open.org/committees/download.php/26807/Firestorm%202003%20Case%20Study%20-
318 %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-](http://www.oasis-open.org/committees/download.php/26804/EDXL_use_example_Hurricane061005.doc)
324 [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

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-](http://www.oasis-open.org/committees/download.php/26806/EDXL_use_example_Influenza_06152005%20LaniGrahmRev.doc)
339 [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)
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3 EDXL Resource Messaging Model (Normative unless otherwise stated)

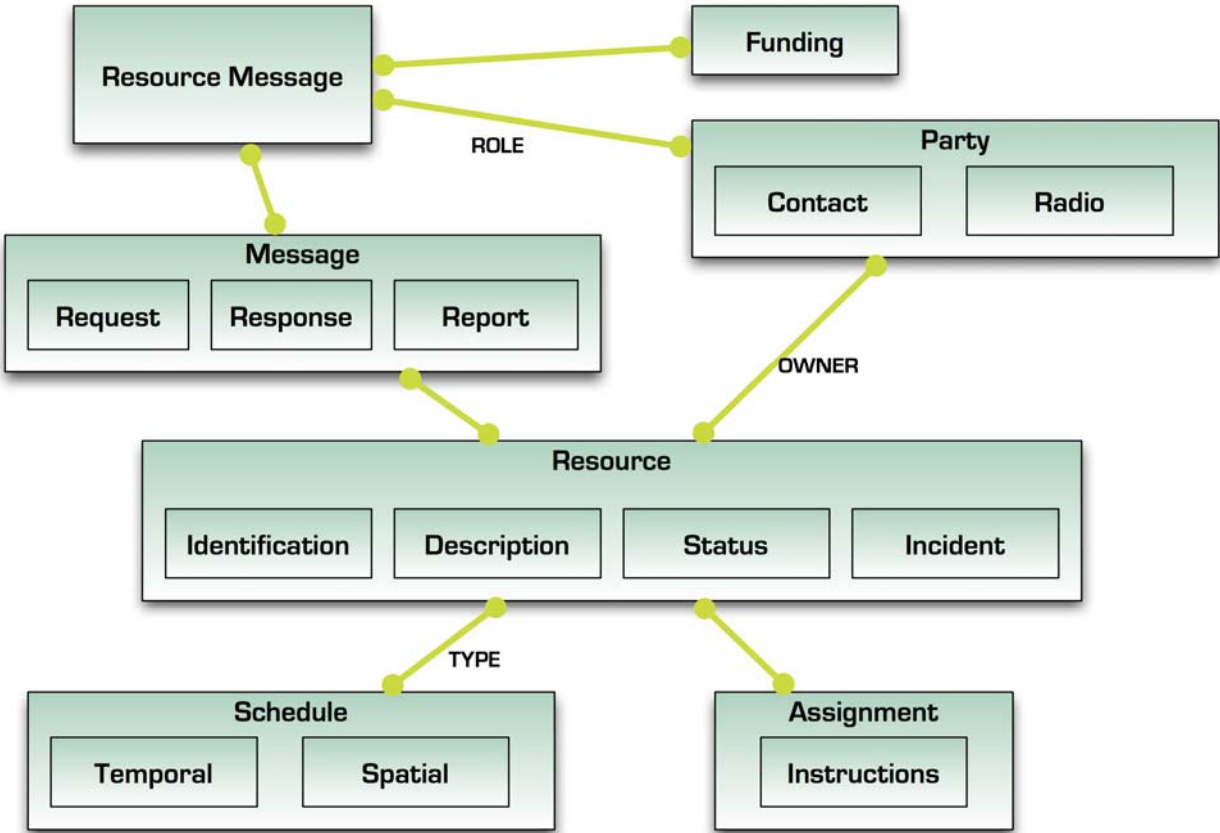
Section 3 of this Standard is normative unless otherwise stated. If any differences are found between any XML schema and its associated model, diagram, table or other artifact or text, then the XML schema shall always take precedence and the other artifact(s) must be changed to match the XML schema.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

3.1 Abstract Reference Model (Non-Normative)

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

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

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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.

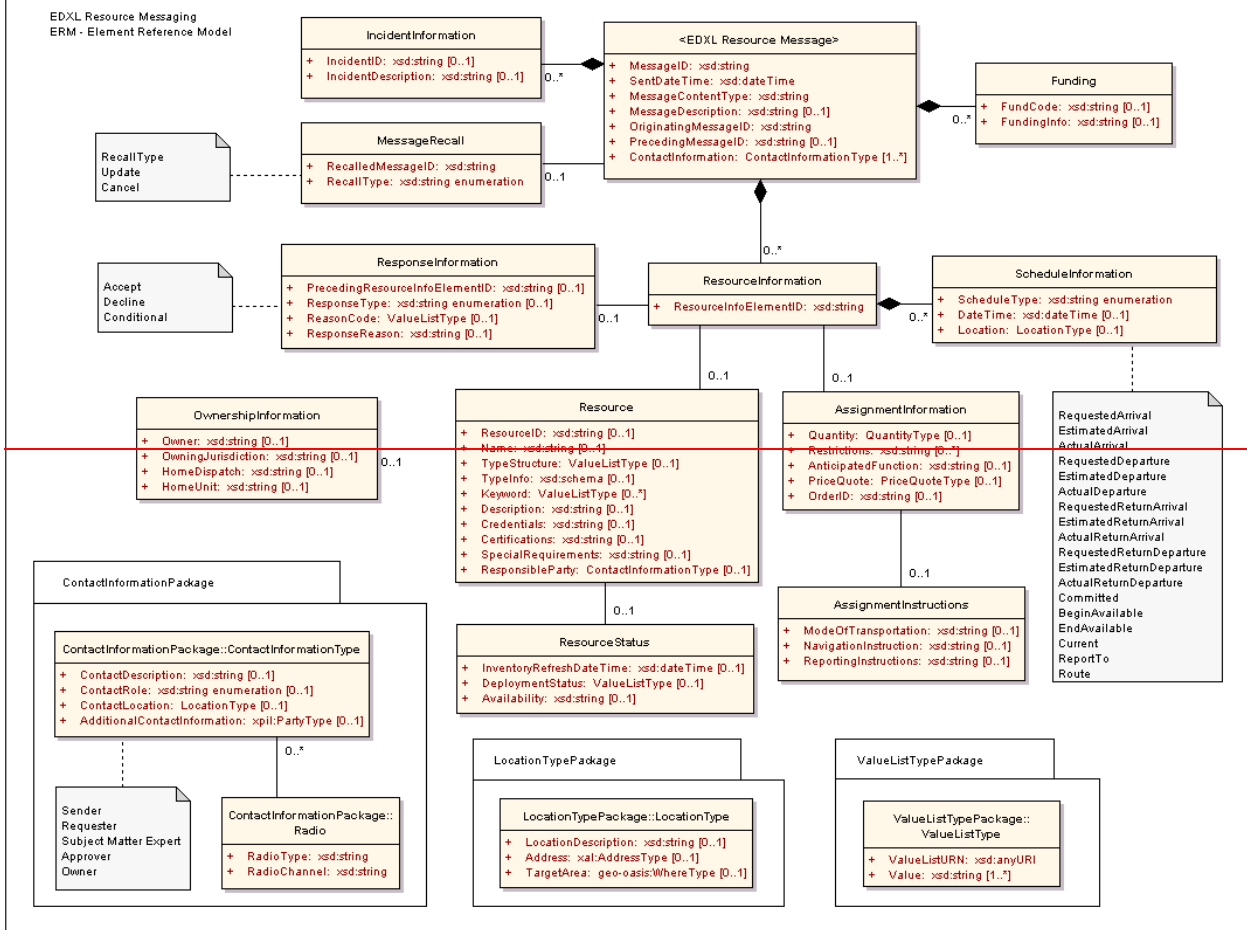
366

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



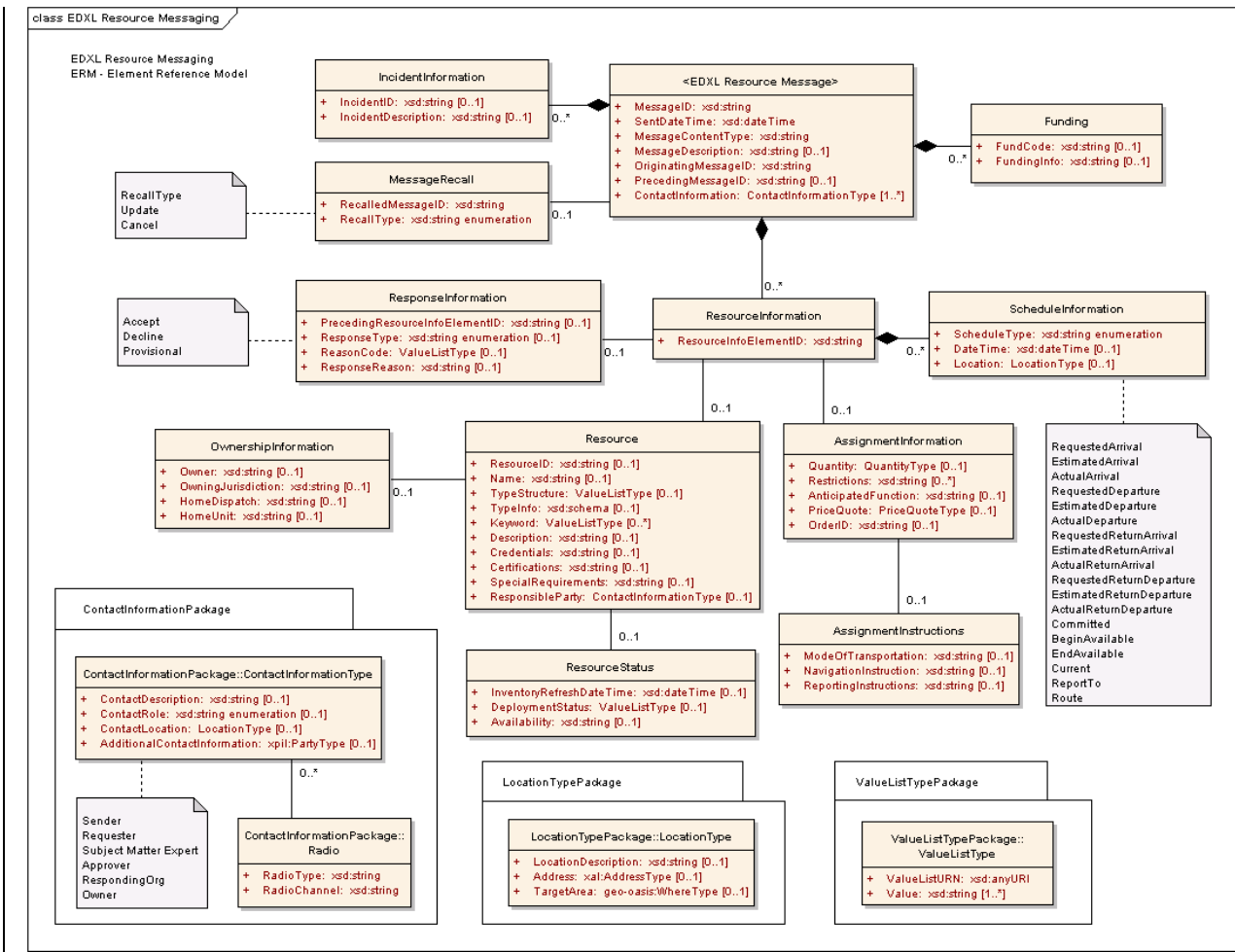


Figure 2: Resource Messaging – Element Reference Model

375
376
377 The RM-ERM shows the element-level details for the main entities in the RM. The semantics for each of
378 the elements is defined in Section 3.3.

379 3.3 Resource Message Types

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

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

387 When a message recipient receives an RM message, it uses the EDXL-DE DistributionType value of Ack
388 as an acknowledgement. An acknowledgement is intended to inform the sender that the RM message
389 has been received.

390 The EDXL-RM provides the mechanism to recall or update a previously sent resource message through
391 the EDXL MessageRecall element. The MessageRecall element, when present, contains the
392 RecalledMessageID and the RecallType. The RecalledMessageID contains the MessageID of the
393 message previously sent that is being either canceled or updated. If the RecallType element contains the
394 value “Cancel”, then the entire message specified in RecalledMessageID is to be canceled. If the

395 RecallType element contains the value "Update", then the entire message specified in
 396 RecalledMessageID is replaced by the new message.

397 This two-way communication is characterized by two classes of primary actors. The Resource Consumer
 398 is an actor that needs or requires resources to undertake response to an incident. The Resource Supplier
 399 is an owner, or distributor, or manager of resources that can meet the needs of Resource Consumers.
 400 There may be more than one actor of each class for a given sequence of message exchanges, and there
 401 may also be other classes of actors besides these two primary types.

402 There are 16 resource messages defined in this specification, which are summarized in Table 1 below.

403 *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
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

Message Type	Description	Message Sender
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.	<u>Resource Consumer,</u> <u>Resource SupplierBoth</u>
ReportResourceDeploymentStatus	Message used to report on the current "status" of any resource.	<u>Resource Consumer,</u> <u>Resource SupplierBoth</u>
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

404 Table 1 above and Figure 3 below are informative only. They are included to show how the resource
405 messages might flow between the Resource Consumer and Resource Supplier during resource
406 management. Note, however, that this specification does not prescribe the sequence of message
407 exchanges, except for some dependencies between messages which are described in Section3.3.

408 The Resource Messages can be used in three phases of resource management:

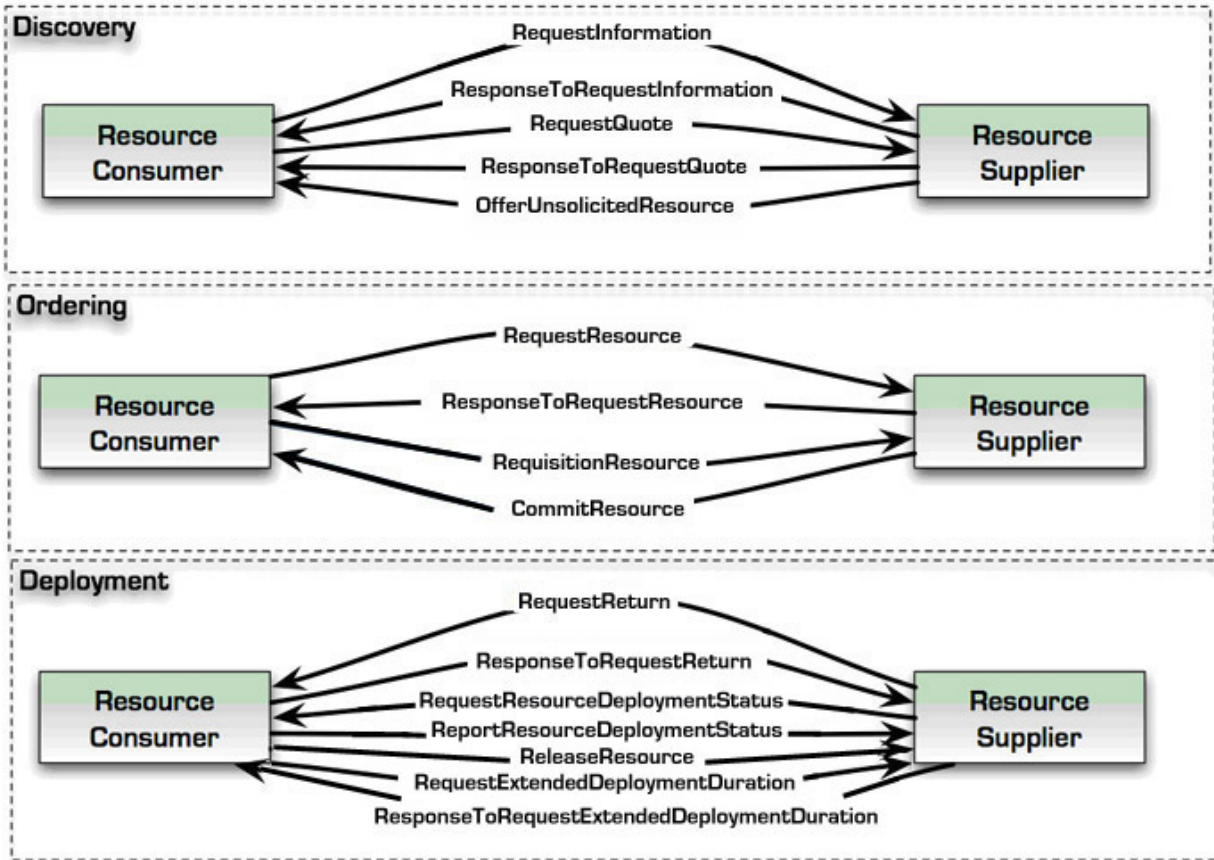
- 409 • Discovery,
- 410 • Ordering, and
- 411 • Deployment, as shown in Figure 3.

412 The Discovery phase enables Resource Consumers to find out about available resources, including their
413 costs, and offers of resources from Resource Suppliers.

414 The Ordering phase enables Resource Consumers to explicitly requisition Resources from Resource
415 Suppliers.

416 The Deployment phase enables both actors to find about the current status of resources in the field,
417 request extensions and returns.

418 It is important to note that this specification does not mandate an exact order and workflow of Resource
419 Messages. For example, the Ordering phase may actually only require the CommitResource message for
420 some actors.



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Figure 3: Resource Message Phases

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

427

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

430

Schema Element	Message Element	EDXL Request Resource	Response to Request Resource	Requisition Resource	Commit Resource	Request Information	Response to Request Information	Offer Unspecified Resource	Release Resource	Request Return	Response to Request Return	Request Quote	Response to Request Quote	Request Resource Deployment Status	Report Resource Deployment Status	Request Extended Deployment Duration	Response to Request Extended Deployment Duration
Resource Message	MessageID	R	R	R	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	R	R	R
	MessageContentType	R	R	R	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	O	O	O
	OriginatingMessageID	R	R	R	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	R	O	O	O	R
	Incident Information	O	O	O	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	O	O	O
	Funding	O	O	R	O	O	O	N/A	O	O	O	O	O	O	O	O	O
	Contact Information	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	Resource Information	R	R	R	R	O	O	R	R	R	R	R	R	R	R	R	R
Incident Information	IncidentID	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
	IncidentDescription	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
Message Recall	RecalledMessageID	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
	RecallType	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
Funding	FundCode	C	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	
	FundingInfo	C	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	
Resource Information	ResourceInfoElementID	R	R	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	O	N/A	
	Resource	R	O	R	C	O	O	R	R	R	O	R	C	R	O	R	
	Assignment Information	O	O	R	C	O	O	O	O	O	O	O	O	O	O	O	
	Schedule Information	O	O	O	C	O	O	O	O	O	O	O	O	O	O	O	
Response Information	PrecedingResourceInfoElementID	N/A	R	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	N/A	R	R	R	N/A	R	N/A	
	ReasonCode	N/A	C	N/A	C	N/A	C	N/A	C	N/A	C	C	C	N/A	C	N/A	
	ResponseReason	N/A	C	N/A	C	N/A	C	N/A	C	N/A	C	C	C	N/A	C	N/A	
Resource	ResourceID	C	C	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	C	C	
	TypeStructure	C	C	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	O	O	
	Keyword	O	O	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	O	O	
	Credentials	O	O	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	O	O	
	SpecialRequirements	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	ResponsibleParty	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
	Ownership Information	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
Resource Status	N/A	O	N/A	O	O	O	O	O	O	R	N/A	O	NA	O	O		
Ownership Information	Owner	N/A	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
	OwningJurisdiction	N/A	C	C	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	O	O	
	HomeUnit	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	O	

Schema Element	Message Element	EDXL Request Resources	ResponseTo Request Resource	Requisition Resource	Commit Resource	Request Information	ResponseTo Request Information	Offer Unsolicited Resource	Release Resource	Request Return	ResponseTo Request Return	Request Quote	ResponseTo Request Quote	Request Resource Deployment Status	Report Resource Deployment Status	Request Extended Deployment Duration	ResponseTo Request Extended Deployment Duration
Resource Status	InventoryRefreshDateTime	N/A	O	N/A	O	O	O	O	N/A	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	O
	Availability	N/A	O	N/A	N/A	O	O	O	O	O	R	N/A	O	N/A	O	O	O
Assignment Information	Quantity	O	C	R	R	O	O	O	R	O	O	O	O	O	O	O	O
	Restrictions	O	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	O
	PriceQuote	N/A	O	O	O	O	O	O	O	O	O	N/A	R	O	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	O
	Assignment Instructions	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	N/A	O
Assignment Instructions	ModeOfTransportation	N/A	O	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	O	N/A	O
	ReportingInstructions	N/A	O	O	O	O	O	O	O	O	O	O	O	O	O	N/A	O
Schedule Information	ScheduleType	R	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	O
	Location	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

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Table 3: ScheduleTypes – Message Matrix

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

436 **3.4 RequestResource Message**

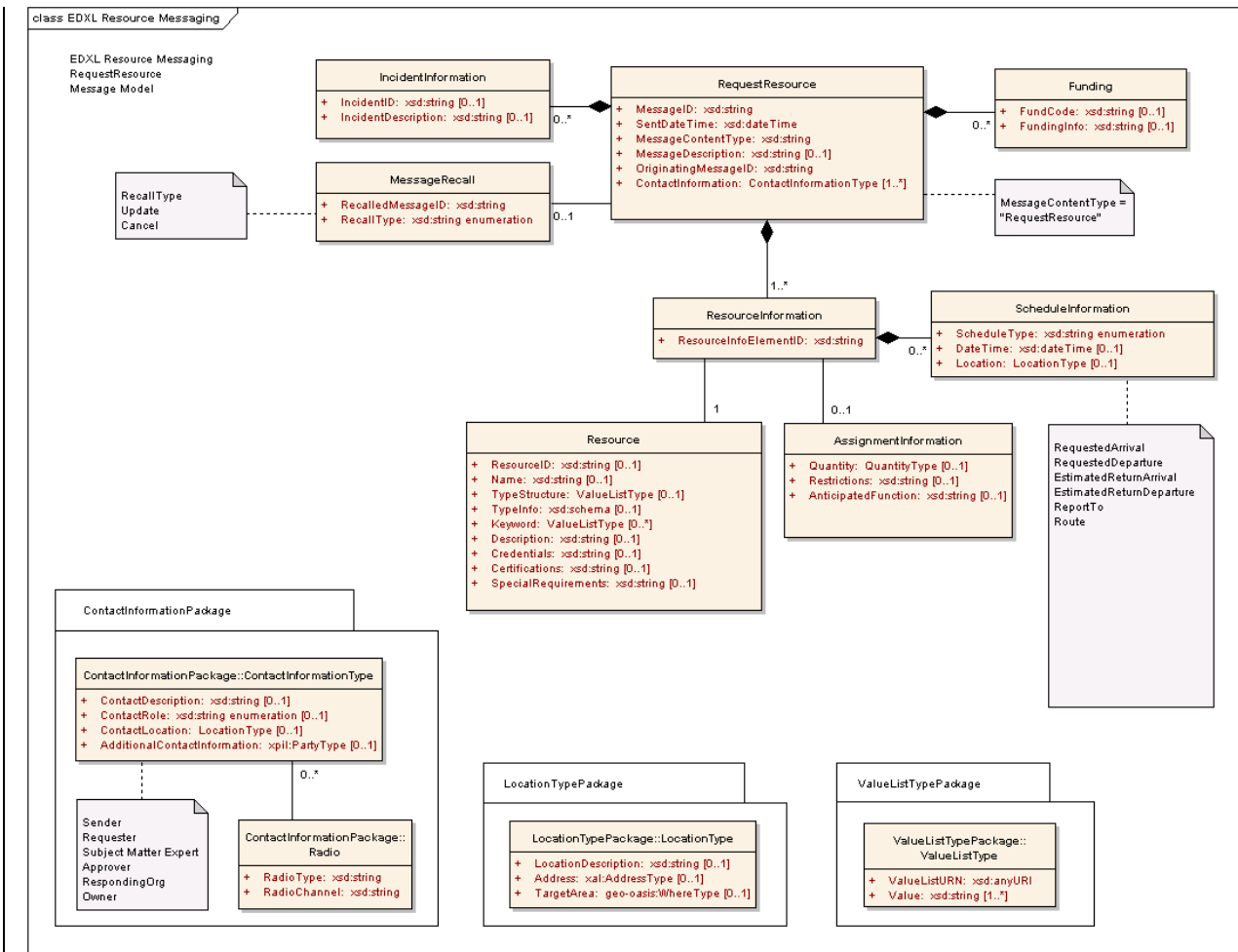
437 **3.4.1 Overview**

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

442 **3.4.2 Element Reference Model**

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

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Figure 4: EDXL-RM ERM for RequestResource Message

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

- **bold** indicates an element that is required
- *italics* indicate an element that is conditional (the applicable rules for these elements appear below the table)
- an asterisk (*) indicates that an element can appear multiple times
- a caret symbol (^) indicates that the values of an element are constrained, as per the rules shown below the table.

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

Table 4: RequestResource Message Elements

Parent Element	Sub-Elements
RequestResource	MessageID , SentDateTime , MessageContentType [^] , <i>MessageDescription</i> , OriginatingMessageID , <i>IncidentInformation</i> [*] , <i>MessageRecall</i> , <i>Funding</i> [*] , ContactInformation [*] , ResourceInformation [*]
IncidentInformation	<i>IncidentID</i> , <i>IncidentDescription</i>
MessageRecall	RecalledMessageID , RecallType

Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, Resource , AssignmentInformation, ScheduleInformation*
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*</i> , Description, Credentials, Certifications, SpecialRequirements
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction
ScheduleInformation	ScheduleType^ , DateTime, Location

459 3.4.3 RequestResource Message Rules

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

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

481
482 The schema for a RequestResource message can be found in Appendix A.3.

483 3.4.4 Message Flow

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

486 The potential responses to this message include:

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

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

490 3.4.5 Message Example

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

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

495

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

```

497 <?xml version="1.0" encoding="UTF-8"?>
498 <RequestResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
499   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
500     EDXL-RMRequestResource.xsd"
501   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
502   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
503   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
504   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
505   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
506   xmlns:gml="http://www.opengis.net/gml">
507 <MessageID>urn:au-qld-eoc:12332</MessageID>
508 <SentDateTime>2006-03-21T11:58:00+10:00</SentDateTime>
509 <MessageContentType>RequestResource</MessageContentType>
510 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
511 <IncidentInformation>
512   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
513 </IncidentInformation>
514 <ContactInformation>
515   <rm:ContactRole>Sender</rm:ContactRole>
516   <rm:AdditionalContactInformation>
517     <xpil:PartyName>
518       <xnl:PersonName>
519         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
520         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
521       </xnl:PersonName>
522       <xnl:OrganisationName>
523         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
524       </xnl:OrganisationName>
525     </xpil:PartyName>
526     <xpil:ContactNumbers>
527       <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
528         xpil:ContactHours="9:00AM - 5:00PM">
529         <xpil:ContactNumberElement
530           xpil:Type="CountryCode">61</xpil:ContactNumberElement>
531         <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
532         <xpil:ContactNumberElement xpil:Type="LocalNumber">
533           3000
534           1234
535         </xpil:ContactNumberElement>
536       </xpil:ContactNumber>
537     </xpil:ContactNumbers>
538     <xpil:ElectronicAddressIdentifiers>
539       <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
540     </xpil:ElectronicAddressIdentifier>
541     </xpil:ElectronicAddressIdentifiers>
542   </rm:AdditionalContactInformation>
543 </ContactInformation>
544 <ResourceInformation>
545   <ResourceInfoElementID>001</ResourceInfoElementID>
546   <Resource>
547     <TypeStructure>
548       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
549       <rm:Value>Small Animal Sheltering Team</rm:Value>
550     </TypeStructure>
551     <Description>
552       5-person response team to advise and support local efforts to set up a
553       small animal shelter
554     </Description>
555     <SpecialRequirements>A qualified veterinary surgeon</SpecialRequirements>
556   </Resource>
557   <AssignmentInformation>
558     <Quantity>

```

```

559     <rm:MeasuredQuantity>
560         <rm:Amount>1</rm:Amount>
561     </rm:MeasuredQuantity>
562 </Quantity>
563 </AssignmentInformation>
564 <ScheduleInformation>
565     <ScheduleType>RequestedArrival</ScheduleType>
566     <DateTime>2006-03-24T09:00:00+10:00</DateTime>
567     <Location>
568         <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
569         <rm:Address>
570             <xal:Country>
571                 <xal:NameElement>Australia</xal:NameElement>
572             </xal:Country>
573             <xal:AdministrativeArea>
574                 <xal:NameElement>QLD</xal:NameElement>
575             </xal:AdministrativeArea>
576             <xal:Locality>
577                 <xal:NameElement>Innisfail</xal:NameElement>
578             </xal:Locality>
579             <xal:Thoroughfare>
580                 <xal:NameElement>Downing St</xal:NameElement>
581                 <xal:Number>27</xal:Number>
582             </xal:Thoroughfare>
583             <xal:PostCode>
584                 <xal:Identifier>4860</xal:Identifier>
585             </xal:PostCode>
586         </rm:Address>
587     </Location>
588 </ScheduleInformation>
589 <ScheduleInformation>
590     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
591     <DateTime>2006-03-30T17:00:00+10:00</DateTime>
592 </ScheduleInformation>
593 </ResourceInformation>
594 <ResourceInformation>
595     <ResourceInfoElementID>002</ResourceInfoElementID>
596     <Resource>
597         <TypeStructure>
598             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
599             <rm:Value>Patrol and Surveillance Helicopters</rm:Value>
600         </TypeStructure>
601     </Resource>
602 <AssignmentInformation>
603     <Quantity>
604         <rm:MeasuredQuantity>
605             <rm:Amount>3</rm:Amount>
606         </rm:MeasuredQuantity>
607     </Quantity>
608     <AnticipatedFunction>
609         Aerial surveillance to determine extent of
610         flooding
611     </AnticipatedFunction>
612 </AssignmentInformation>
613 <ScheduleInformation>
614     <ScheduleType>RequestedArrival</ScheduleType>
615     <DateTime>2006-03-22T09:00:00+10:00</DateTime>
616     <Location>
617         <rm:LocationDescription>Innisfail airport</rm:LocationDescription>
618     </Location>
619 </ScheduleInformation>
620 </ResourceInformation>
621 <ResourceInformation>
622     <ResourceInfoElementID>003</ResourceInfoElementID>
623     <Resource>
624         <TypeStructure>
625             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
626             <rm:Value>Electrical Power Restoration Team</rm:Value>
627         </TypeStructure>
628     </Resource>
629 </AssignmentInformation>

```

```
630     <Quantity>
631         <rm:MeasuredQuantity>
632             <rm:Amount>2</rm:Amount>
633         </rm:MeasuredQuantity>
634     </Quantity>
635     <AnticipatedFunction>
636         Restore power to critical infrastructure in and around the
637         Innisfail area
638     </AnticipatedFunction>
639 </AssignmentInformation>
640 <ScheduleInformation>
641     <ScheduleType>RequestedArrival</ScheduleType>
642     <DateTime>2006-03-22T08:00:00+10:00</DateTime>
643     <Location>
644         <rm:TargetArea>
645             <gml:Point>
646                 <gml:pos> 146.03 -17.53 </gml:pos>
647             </gml:Point>
648         </rm:TargetArea>
649     </Location>
650 </ScheduleInformation>
651 </ResourceInformation>
652 </RequestResource>
```

653

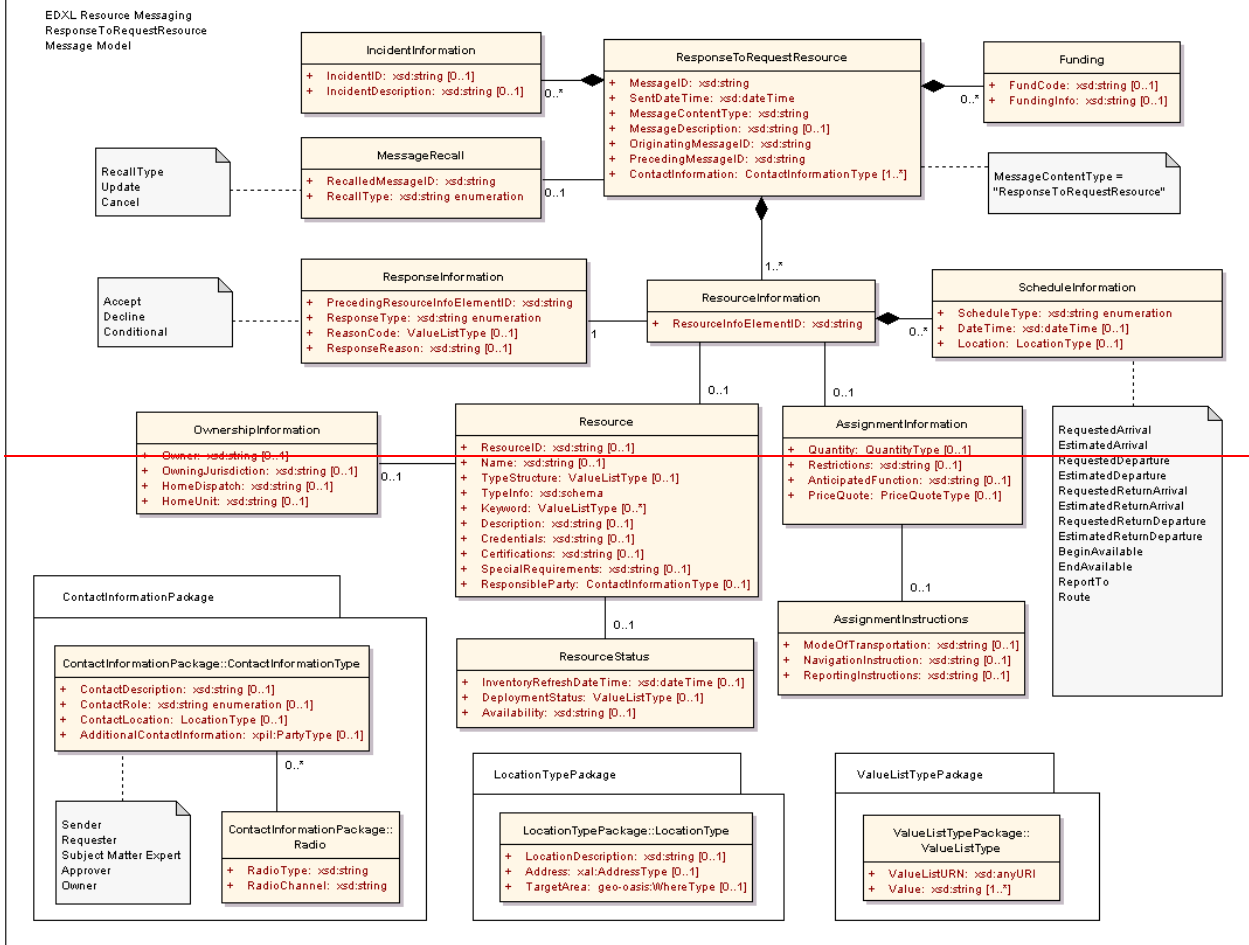
654 **3.5 ResponseToRequestResource Message**

655 **3.5.1 Overview**

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

661 **3.5.2 Element Reference Model**

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



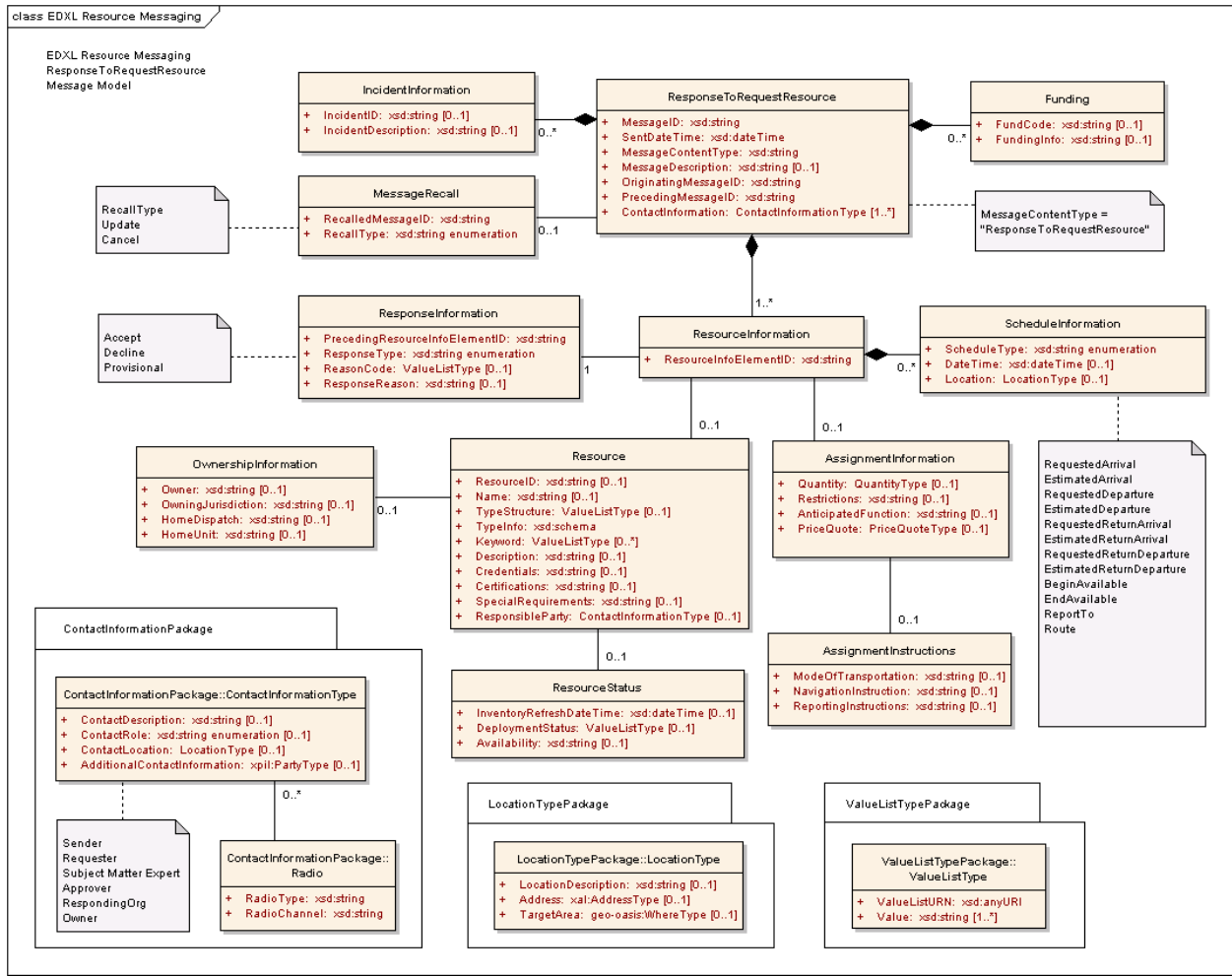


Figure 5: EDXL-RM ERM for ResponseToRequestResource Message

666
667
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669

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

671

672

Table 4: ResponseToRequestResource Message Elements

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

673

674 3.5.3 ResponseToRequestResource Message Rules

675 The following rules apply to the above elements:

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

- 690 • The ResourceInformation:ResourceInfoElementID and
691 ResourceInformation:ResponseInformation elements MUST be present.
- 692 • The ResponseInformation:PrecedingResourceInfoElementID and
693 ResponseInformation:ResponseType elements MUST be present.
- 694 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
695 MUST be present.
- 696 • If a ResourceInformation:Resource element is present, then at least one of
697 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element MUST be
698 present.
- 699 • If Resource:OwnershipInformation element is present, then at least one of
700 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction element MUST be
701 present.
- 702 • If the ResourceInformation:AssignmentInformation element is present and the
703 ResponseInformation:ResponseType contains a value of "Accept" or "Provisional", then the
704 AssignmentInformation:Quantity element MUST be present.
- 705 • If ResourceInformation:ScheduleInformation is present then ScheduleInformation:ScheduleType
706 MUST be present and contain one of the following values:
 - 707 • "EstimatedArrival", "EstimatedDeparture", "RequestedReturnDeparture",
708 "RequestedReturnArrival", "BeginAvailable", ~~and~~ "EndAvailable", "RequestedArrival",
709 "RequestedDeparture", "EstimatedReturnArrival", ~~or~~ "ReportTo" or, "Route".

710

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

712 3.5.4 Message Flow

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

715 The potential responses to this message include:

- 716 • RequisitionResource (See Section 3.6).

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

719 3.5.5 Message Example

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

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

726

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

```

728 <?xml version="1.0" encoding="UTF-8"?>
729 <ResponseToRequestResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
730 xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
731 EDXL-RMResponseToRequestResource.xsd"
732 xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
733 xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
734 xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
735 xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
736 xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"

```

```

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

```

808
809
810
811
812
813
814
815
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817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832

```
      <xal:NameElement>Downing St</xal:NameElement>  
      <xal:NameElement>27</xal:NameElement>  
    </xal:Thoroughfare>  
    <xal:PostCode>  
      <xal:Identifier>4860</xal:Identifier>  
    </xal:PostCode>  
  </rm:Address>  
</Location>  
</ScheduleInformation>  
</ResourceInformation>  
<ResourceInformation>  
  <ResourceInfoElementID>002</ResourceInfoElementID>  
  <ResponseInformation>  
    <rm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>  
    <rm:ResponseType>Accept</rm:ResponseType>  
  </ResponseInformation>  
</ResourceInformation>  
<ResourceInformation>  
  <ResourceInfoElementID>003</ResourceInfoElementID>  
  <ResponseInformation>  
    <rm:PrecedingResourceInfoElementID>003</rm:PrecedingResourceInfoElementID>  
    <rm:ResponseType>Decline</rm:ResponseType>  
  </ResponseInformation>  
</ResourceInformation>  
</ResponseToRequestResource>
```

833

834 **3.6 RequisitionResource Message**

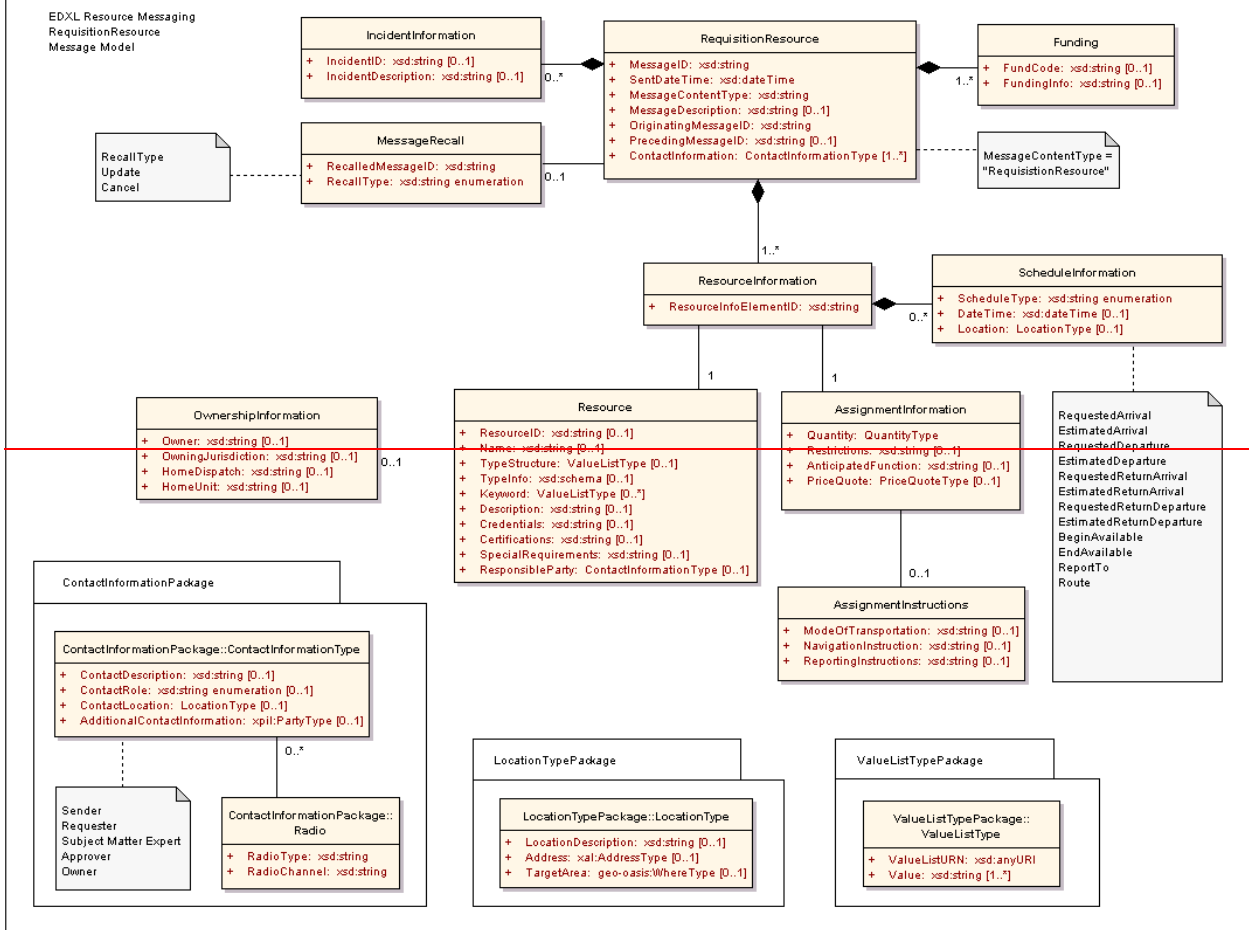
835 **3.6.1 Overview**

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

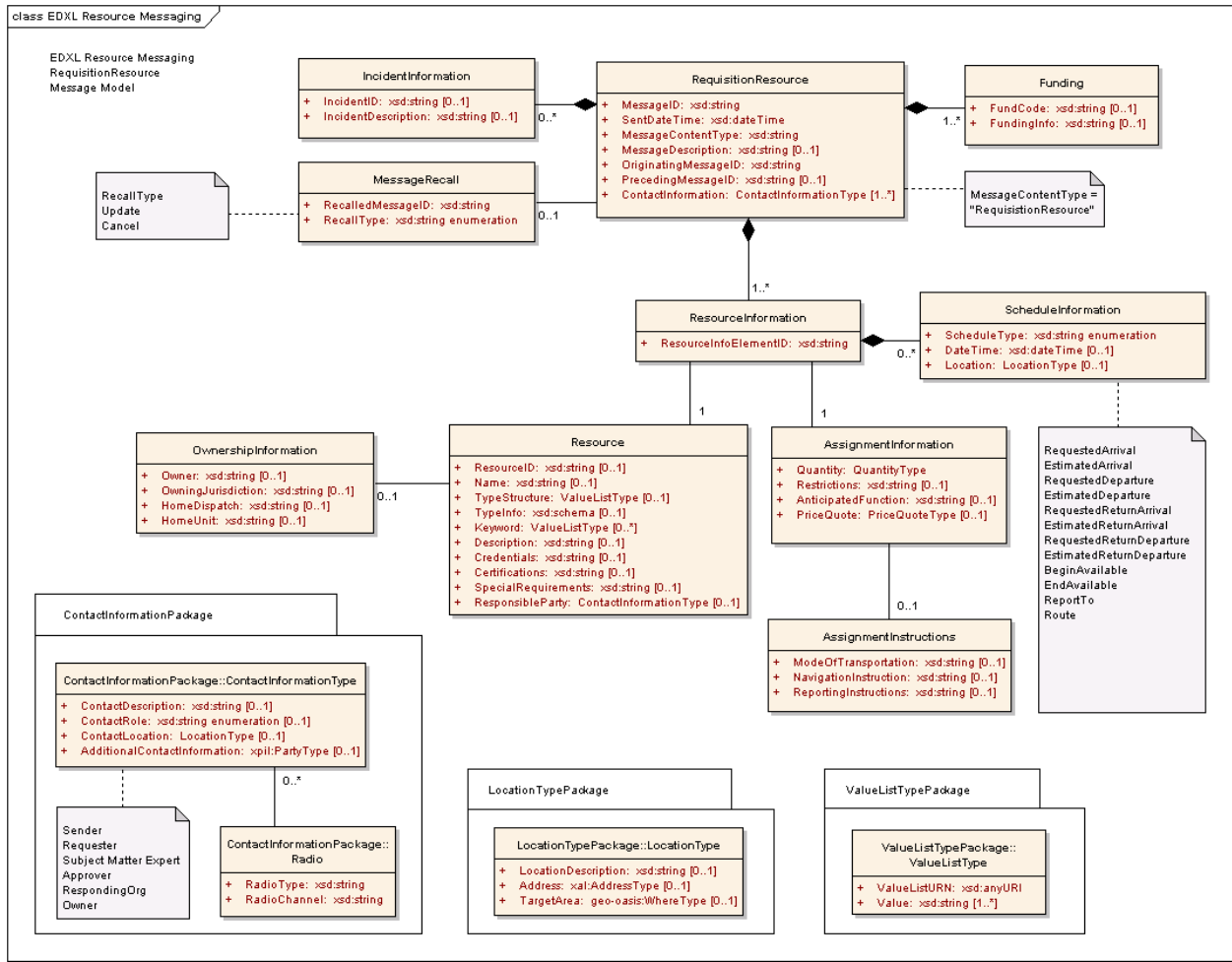
838 **3.6.2 Element Reference Model**

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

class EDXL Resource Messaging



841



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845

Figure 6: EDXL-RM ERM for RequisitionResource Message

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

847

848

Table 5: RequisitionResource Message Elements

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

849

850 3.6.3 RequisitionResource Message Rules

851 The following rules apply to the above elements:

- 852 • The RequisitionResource:MessageID, RequisitionResource:SentDateTime,
853 RequisitionResource:MessageContentType, RequisitionResource:OriginatingMessageID,
854 RequisitionResource:Funding, RequisitionResource:ContactInformation, and
855 RequisitionResource:ResourceInformation elements MUST be present.
- 856 • The value of RequisitionResource:MessageContentType MUST be "RequisitionResource".
- 857 • If a RequisitionResource:IncidentInformation element is present, then at least one of
858 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
859 present.
- 860 • If the RequisitionResource:MessageRecall element is present, then the
861 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 862 • If a RequisitionResource:Funding element is present, then at least one of Funding:FundCode
863 and/or Funding:FundingInfo elements MUST be present.
- 864 • The ResourceInformation:ResourceInfoElementID, ResourceInformation:Resource and
865 ResourceInformation:AssignmentInformation elements MUST be present.
- 866 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
867 MUST be present.

- 868 • If a Resource:OwnershipInformation element is present, then at least one of
869 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
870 be present.
 - 871 • The AssignmentInformation:Quantity element MUST be present.
 - 872 • If ResourceInformation:ScheduleInformation is present, then the
873 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
874 values:
 - 875 • "RequestedArrival", "RequestedDeparture", "EstimatedArrival", "EstimatedDeparture",
 - 876 "RequestedReturnArrival", "EstimatedReturnArrival", "RequestedReturnDeparture",
 - 877 "EstimatedReturnDeparture", "BeginAvailable", "EndAvailable", "ReportTo", or "Route"
- 878
- 879 The schema for a RequisitionResource message can be found in Appendix A.5.

880 3.6.4 Message Flow

- 881 The RequisitionResource message is a message created and sent by the Resource Consumer to any
882 number of Resource Suppliers.
- 883 The potential responses to this message include:
- 884 • CommitResource (See Section 3.7)
 - 885 • This includes Accept, Decline and Provisional responses.
- 886 The message may be canceled or updated through the RequisitionResource:MessageRecall element.

887 3.6.5 Message Example

- 888 Below is an example of a RequisitionResource Message, in which two resource requisitions are shown:
- 889 • Small Animal Sheltering Team (ResourceInfoElementID=001)
 - 890 • Patrol and Surveillance Helicopters (ResourceInfoElementID=002).
- 891
- 892 [Note: The XML example shown in this section is informative only.]

```

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

```

```

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

```

```

991     </Quantity>
992     <AssignmentInstructions>
993       <rm:ReportingInstructions>
994         Report to Mark Darcy, Innisfail Animal
995         Refuge
996       </rm:ReportingInstructions>
997     </AssignmentInstructions>
998   </AssignmentInformation>
999   <ScheduleInformation>
1000     <ScheduleType>EstimatedArrival</ScheduleType>
1001     <DateTime>2006-03-25T09:30:00+10:00</DateTime>
1002     <Location>
1003       <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
1004     </Location>
1005   </ScheduleInformation>
1006   <ScheduleInformation>
1007     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
1008     <DateTime>2006-03-30T17:00:00+10:00</DateTime>
1009   </ScheduleInformation>
1010 </ResourceInformation>
1011 <ResourceInformation>
1012   <ResourceInfoElementID>002</ResourceInfoElementID>
1013   <Resource>
1014     <TypeStructure>
1015       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1016       <rm:Value>Patrol and Surveillance Helicopters</rm:Value>
1017     </TypeStructure>
1018   </Resource>
1019 <AssignmentInformation>
1020   <Quantity>
1021     <rm:MeasuredQuantity>
1022       <rm:Amount>3</rm:Amount>
1023     </rm:MeasuredQuantity>
1024   </Quantity>
1025   <AnticipatedFunction>
1026     Aerial surveillance to determine extent of
1027     flooding
1028   </AnticipatedFunction>
1029 </AssignmentInformation>
1030 <ScheduleInformation>
1031   <ScheduleType>RequestedArrival</ScheduleType>
1032   <DateTime>2006-03-22T09:00:00+10:00</DateTime>
1033   <Location>
1034     <rm:LocationDescription>Innisfail airport</rm:LocationDescription>
1035   </Location>
1036 </ScheduleInformation>
1037 </ResourceInformation>
1038 </RequisitionResource>

```

1039

1040

1041 **3.7 CommitResource Message**

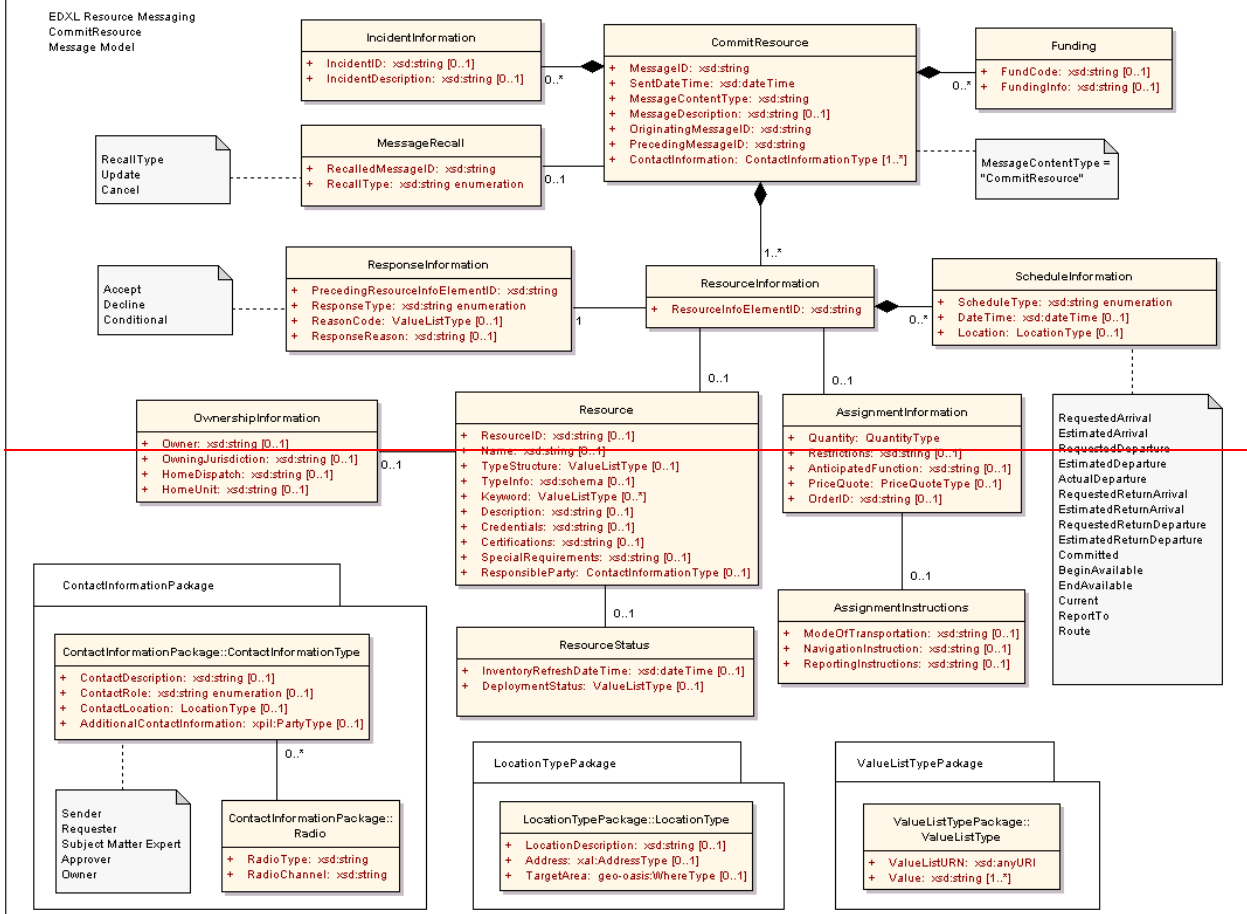
1042 **3.7.1 Overview**

1043 The “CommitResource” message is used by a Resource Supplier to confirm that resources have been
1044 committed to a Resource Consumer request. Usually, the CommitResource is in response to a
1045 RequisitionResource, or even a RequestResource. The CommitResource is the only message used to
1046 indicate the resources have been allocated to an assignment/incident.

1047 **3.7.2 Element Reference Model**

1048 Figure 7 below shows the EDXL–RM Element Reference Model (ERM) tailored for the CommitResource
1049 Message. The ERM shows the element-level details for the main entities in the RM.

class EDXL Resource Messaging



1050

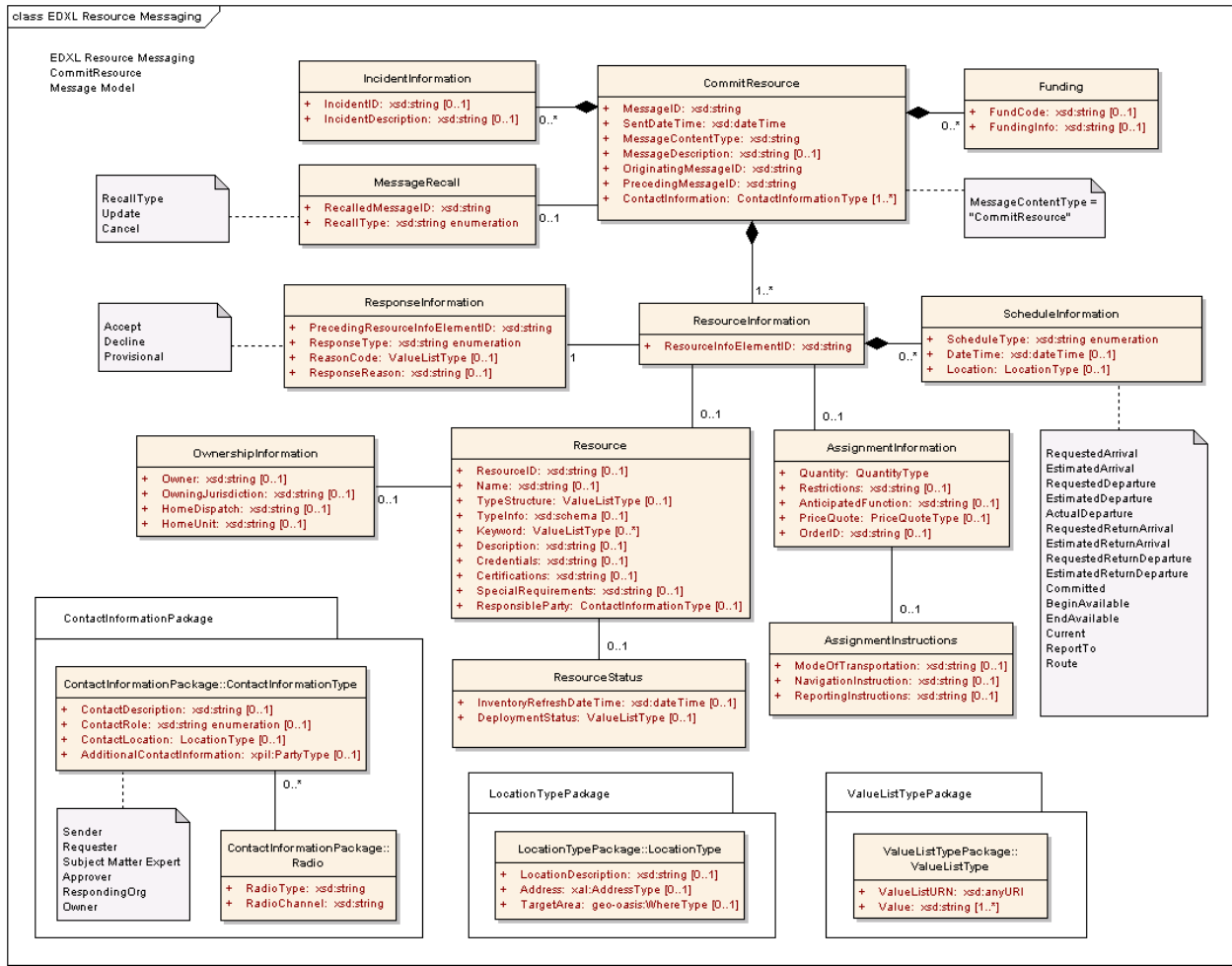


Figure 7: EDXL-RM ERM for CommitResource Message

1051
1052
1053
1054

1055 The following table outlines the element cardinalities for this message type.

1056

1057

Table 6: CommitResource Message Elements

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

1058

1059 3.7.3 CommitResource Message Rules

1060 The following rules apply to the above elements:

- 1061 • The CommitResource:MessageID, CommitResource:SentDateTime,
1062 CommitResource:MessageContentType, CommitResource:OriginatingMessageID,
1063 CommitResource:PrecedingMessageID, CommitResource:ContactInformation, and
1064 CommitResource:ResourceInformation elements MUST be present.
- 1065 • The value of CommitResource:MessageContentType MUST be "CommitResource".
- 1066 • If a CommitResource:IncidentInformation element is present, then at least one of
1067 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1068 present.
- 1069 • If the CommitResource:MessageRecall element is present, then the
1070 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1071 • If a CommitResource:Funding element is present, then at least one of Funding:FundCode and/or
1072 Funding:FundingInfo elements MUST be present.
- 1073 • The ResourceInformation:ResourceInfoElementID and
1074 ResourceInformation:ResponseInformation elements MUST be present.

- 1075 • If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the
1076 ResourceInformation:Resource element MUST be present.
- 1077 • If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the
1078 ResourceInformation:AssignmentInformation element MUST be present. If
1079 ResponseInformation:ResponseType has a value of “Decline”, then the
1080 ResourceInformation:AssignmentInformation is not applicable.
- 1081 • If ResponseInformation:ResponseType has a value of “Accept” or “Provisional”, then the
1082 ResourceInformation:ScheduleInformation element MUST be present. If
1083 ResponseInformation:ResponseType has a value of “Decline”, then the
1084 ResourceInformation:ScheduleInformation is not applicable.
- 1085 • The ResponseInformation:PrecedingResourceInfoElementID and
1086 ResponseInformation:ResponseType elements MUST be present.
- 1087 • If ResponseInformation:ResponseType has a value of “Provisional”, then at least one of
1088 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
1089 MUST be present.
- 1090 • If a ResourceInformation:Resource element is present, then at least one of
1091 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
1092 present.
- 1093 • If a Resource:OwnershipInformation is present, then at least one of OwnershipInformation:Owner
1094 and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- 1095 • If a ResourceInformation:AssignmentInformation element is present, then the
1096 AssignmentInformation:Quantity element MUST be present.
- 1097 • If the ResourceInformation:ScheduleInformation element is present, then the
1098 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
1099 values:
 - 1100 • “RequestedArrival”, “EstimatedArrival”, “EstimatedDeparture”, “RequestedDeparture”,
1101 “ActualDeparture”, “RequestedReturnArrival”, “EstimatedReturnArrival”,
1102 “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “Committed”, “BeginAvailable”,
1103 “EndAvailable”, “Current”, “ReportTo” or “Route”.

1104
1105 The schema for a CommitResource message can be found in Appendix A.6.

1106 3.7.4 Message Flow

1107 The CommitResource message is sent by a Resource Supplier in response to either a RequestResource
1108 or RequisitionResource message sent by the Resource Consumer.

1109 The message may be canceled or updated through the CommitResource:MessageRecall element.

1110 3.7.5 Message Example

1111 Below is an example of a CommitResource Message. This is an example Response to the original
1112 RequisitionResource shown in Section 3.6.5. In this example, the two requests have different responses:

- 1113 • The “Small Animal Sheltering Team” (ResourceInfoElementID=001) is Accepted. In this case the
1114 Schedule information is updated with Committed date.
- 1115 • The “Patrol and Surveillance Helicopters” (ResourceInfoElementID=002) is Declined.

1116
1117

1118 [Note: The XML example shown in this section is informative only.]

```
1119 <?xml version="1.0" encoding="UTF-8"?>
1120 <CommitResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1121   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1122     EDXL-RMCommitResource.xsd"
1123   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1124   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1125   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1126   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1127   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1128   xmlns:gml="http://www.opengis.net/gml">
1129 <MessageID>urn:au-qld-eoc:997754</MessageID>
1130 <SentDateTime>2006-03-21T12:46:00+10:00</SentDateTime>
1131 <MessageContentType>CommitResource</MessageContentType>
1132 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1133 <PrecedingMessageID>urn:au-qld-eoc:987654</PrecedingMessageID>
1134 <IncidentInformation>
1135   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1136 </IncidentInformation>
1137 <Funding>
1138   <rm:FundCode>HP4347</rm:FundCode>
1139 </Funding>
1140 <ContactInformation>
1141   <rm:ContactRole>Sender</rm:ContactRole>
1142   <rm:AdditionalContactInformation>
1143     <xpil:PartyName>
1144       <xnl:PersonName>
1145         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
1146         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
1147       </xnl:PersonName>
1148       <xnl:OrganisationName>
1149         <xnl:NameElement>EMA</xnl:NameElement>
1150       </xnl:OrganisationName>
1151     </xpil:PartyName>
1152   </rm:AdditionalContactInformation>
1153 </ContactInformation>
1154 <ResourceInformation>
1155   <ResourceInfoElementID>001</ResourceInfoElementID>
1156   <ResponseInformation>
1157     <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
1158     <rm:ResponseType>Accept</rm:ResponseType>
1159   </ResponseInformation>
1160   <Resource>
1161     <TypeStructure>
1162       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1163       <rm:Value>Small Animal Sheltering Team</rm:Value>
1164     </TypeStructure>
1165     <Description>
1166       5-person response team to advise and support local efforts to set up a
1167       small animal shelter
1168     </Description>
1169     <SpecialRequirements>A qualified veterinary surgeon</SpecialRequirements>
1170   </Resource>
1171   <AssignmentInformation>
1172     <Quantity>
1173       <rm:MeasuredQuantity>
1174         <rm:Amount>1</rm:Amount>
1175       </rm:MeasuredQuantity>
1176     </Quantity>
1177   </AssignmentInformation>
1178   <ScheduleInformation>
1179     <ScheduleType>Committed</ScheduleType>
1180     <DateTime>2006-03-21T12:46:00+10:00</DateTime>
1181   </ScheduleInformation>
1182 </ResourceInformation>
1183 <ResourceInformation>
1184   <ResourceInfoElementID>002</ResourceInfoElementID>
1185   <ResponseInformation>
1186     <rm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>
1187     <rm:ResponseType>Decline</rm:ResponseType>
```

1188
1189
1190

1191

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

1192 **3.8 RequestInformation Message**

1193 **3.8.1 Overview**

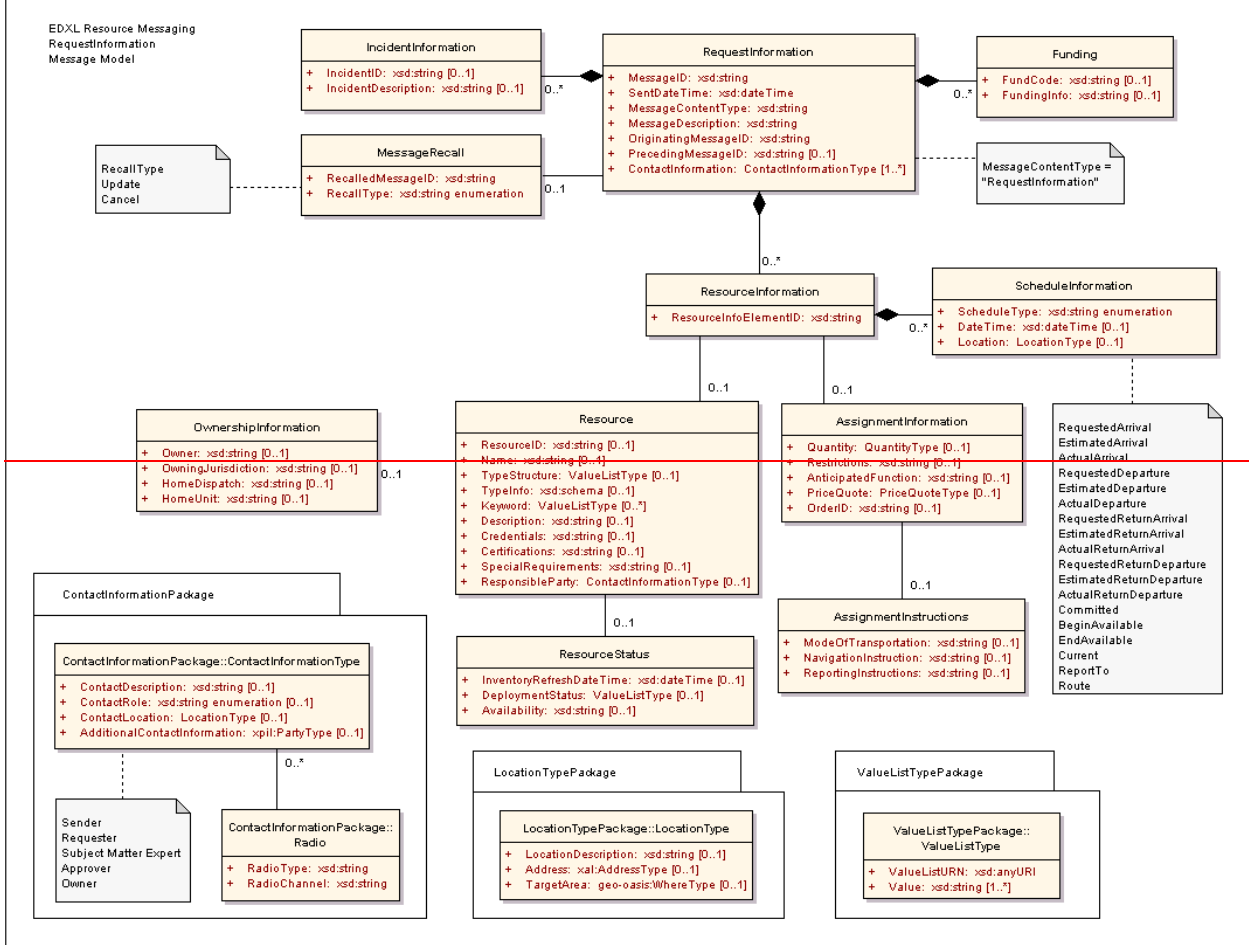
1194 One use of the “RequestInformation” message is to ask questions about specific resources. In this case,
1195 the message can be the initial message sent from the Resource Consumer to the Resource Suppliers, or
1196 it can be a follow up message seeking further information after the Resource Consumer has sent a
1197 RequestResource or other resource messages. A RequestInformation can be used in this manner even
1198 after a resource has been committed and/or deployed; however, if the request is related to the status of a
1199 deployed resource, the RequestResourceDeploymentStatus message **MUST** be used instead.

1200 A second use of this message type is to provide a general description of the sender’s situation and
1201 needs, with the expectation of receiving responses suggesting suitable resources. This is useful when the
1202 Resource Consumer is not able to issue a specific RequestResource message because of a lack of
1203 knowledge about the resources that would be most appropriate for the situation.

1204 **3.8.2 Element Reference Model**

1205 Figure 8 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
1206 RequestInformation Message. The ERM shows the element-level details for the main entities in the RM.

class EDXL Resource Messaging



1207

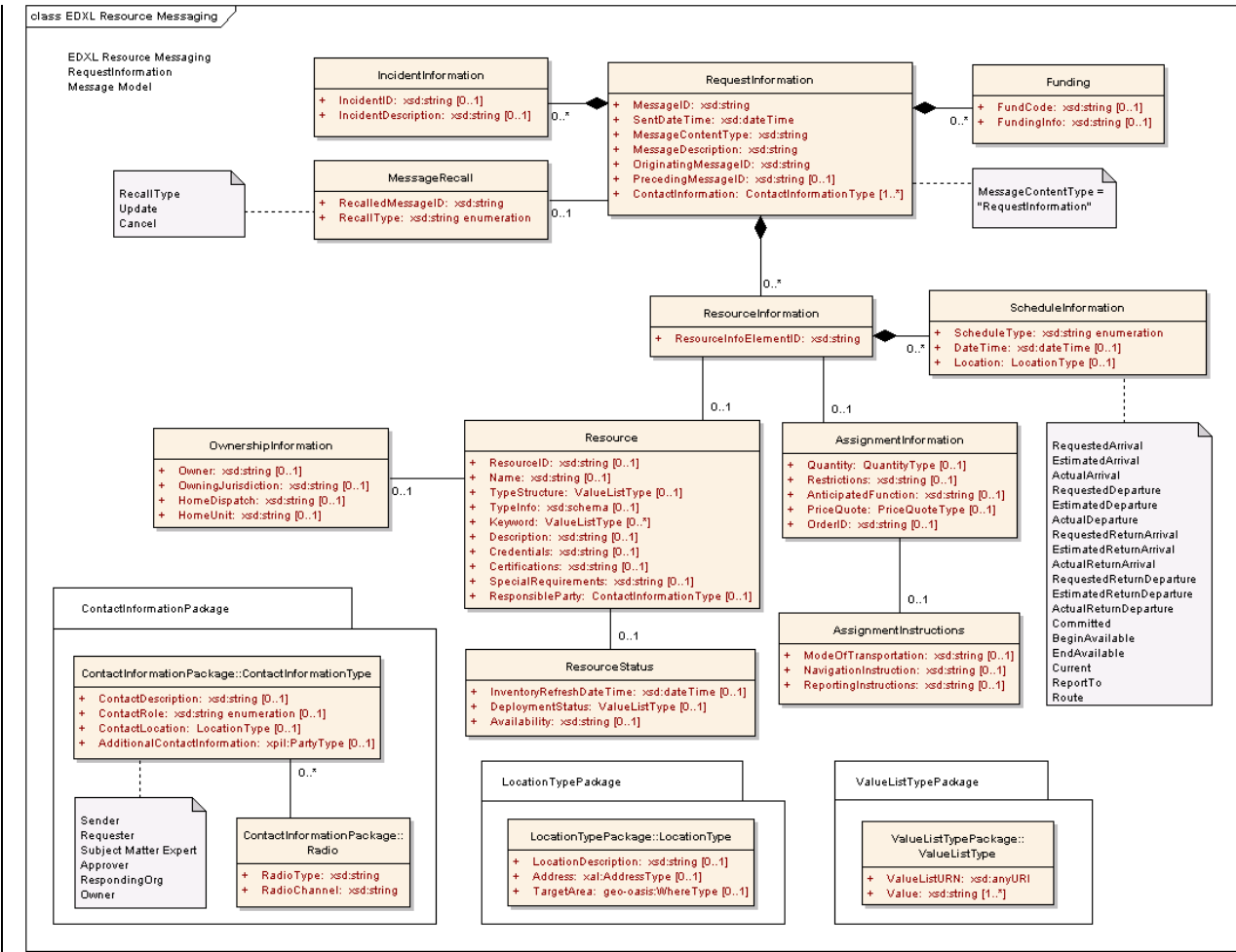


Figure 8: EDXL-RM ERM for RequestInformation Message

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

Table 7: RequestInformation Message Elements

Parent Element	Sub-Elements
RequestInformation	MessageID, SentDateTime, MessageContentType[^], MessageDescription, OriginatingMessageID, PrecedingMessageID, IncidentInformation*, MessageRecall, Funding*, ContactInformation*, ResourceInformation*
IncidentInformation	<i>IncidentID, IncidentDescription</i>
MessageRecall	RecalledMessageID, RecallType
Funding	<i>FundCode, FundingInfo</i>
ResourceInformation	ResourceInfoElementID, Resource, AssignmentInformation, ScheduleInformation*
Resource	<i>ResourceID, Name, TypeStructure, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty,</i>

	OwnershipInformation, ResourceStatus
OwnershipInformation	Owner, OwningJurisdiction, HomeDispatch, HomeUnit
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssignmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	ScheduleType [^] , DateTime, Location

1214

1215 3.8.3 RequestInformation Message rules

1216 The following rules apply to the above elements:

- 1217 • The RequestInformation:MessageID, ResourceMessage:SentDateTime
1218 ResourceMessage:MessageContentType, ResourceMessage:MessageDescription,
1219 ResourceMessage:OriginatingMessageID, and ResourceMessage:ContactInformation elements
1220 MUST be present.
- 1221 • The value of RequestInformation:MessageContentType MUST be "RequestInformation".
- 1222 • If a RequestInformation:IncidentInformation element is present, then at least one of
1223 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1224 present.
- 1225 • If the ResourceMessage:MessageRecall element is present, then the
1226 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1227 • If a RequestInformation:Funding element is present, then at least one of Funding:FundCode
1228 and/or Funding:FundingInfo elements MUST be present.
- 1229 • If a RequestInformation:ResourceInformation element is present, then the
1230 ResourceInformation:ResourceInfoElementID element MUST be present.
- 1231 • If a ResourceInformation:Resource element is present, then at least one of
1232 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
1233 present.
- 1234 • If a Resource:OwnershipInformation is present, then at least one of OwnershipInformation:Owner
1235 and/or OwnershipInformation:OwningJurisdiction elements MUST be present.
- 1236 • If the ResourceInformation:ScheduleInformation element is present, then the
1237 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
1238 values:
 - 1239 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
1240 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
1241 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
1242 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable",
1243 "Committed", "Current", "ReportTo" or "Route".

1244

1245 The schema for a RequestInformation message can be found in Appendix A.7.

1246 3.8.4 Message Flow

1247 The RequestInformation message may be sent by the Resource Consumer to any number of Resource
1248 Suppliers, or may it may be sent vice versa. The RequestInformation message may follow earlier
1249 resource messages.

1250 The potential responses to this message include:

- 1251 • ResponseToRequestInformation (See Section 3.9)
- 1252 • ReportResourceDeploymentStatus
- 1253 • This includes Accept, Decline, and Provisional responses.

1254 The message may be canceled or updated through the RequestInformation:MessageRecall element.

1255 3.8.5 Message Example

1256 Below is an example RequestInformation messages. The first is intended as a follow up message to the
1257 RequestResource and ResponseToRequestResource messages shown in Sections 3.4.5 and 3.5.5,
1258 requesting further information about the third resource that was requested (two electrical power
1259 restoration teams).

1260

1261 [Note: The XML examples shown in this section are informative only.]

```
1262 <?xml version="1.0" encoding="UTF-8"?>
1263 <RequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1264   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1265     EDXL-RMRequestInformation.xsd"
1266   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1267   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1268   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1269   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1270   xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
1271   xmlns:gml="http://www.opengis.net/gml">
1272   <MessageID>urn:au-qld-eoc:12338</MessageID>
1273   <SentDateTime>2006-03-21T12:35:00+10:00</SentDateTime>
1274   <MessageContentType>RequestInformation</MessageContentType>
1275   <MessageDescription>
1276     Could you please advise the size (personnel and equipment) of each power
1277     restoration team?
1278   </MessageDescription>
1279   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1280   <PrecedingMessageID>urn:au-qld-eoc:12332</PrecedingMessageID>
1281   <IncidentInformation>
1282     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1283   </IncidentInformation>
1284   <ContactInformation>
1285     <rm:ContactRole>Sender</rm:ContactRole>
1286     <rm:AdditionalContactInformation>
1287       <xpil:PartyName>
1288         <xnl:PersonName>
1289           <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
1290           <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
1291         </xnl:PersonName>
1292         <xnl:OrganisationName>
1293           <xnl:NameElement>EMA</xnl:NameElement>
1294         </xnl:OrganisationName>
1295       </xpil:PartyName>
1296     </rm:AdditionalContactInformation>
1297   </ContactInformation>
1298   <ResourceInformation>
1299     <ResourceInfoElementID>001</ResourceInfoElementID>
1300     <Resource>
1301       <TypeStructure>
1302         <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1303         <rm:Value>Electrical Power Restoration Team</rm:Value>
1304       </TypeStructure>
1305     </Resource>
1306     <AssignmentInformation>
1307       <Quantity>
1308         <rm:MeasuredQuantity>
1309           <rm:Amount>1</rm:Amount>
1310         </rm:MeasuredQuantity>
1311       </Quantity>
```

1312
1313
1314
1315
1316
1317
1318

```
<AnticipatedFunction>  
  Restore power to critical infrastructure in and around the  
  Innisfail area  
</AnticipatedFunction>  
</AssignmentInformation>  
</ResourceInformation>  
</RequestInformation>
```

1319

1320 **3.9 ResponseToRequestInformation Message**

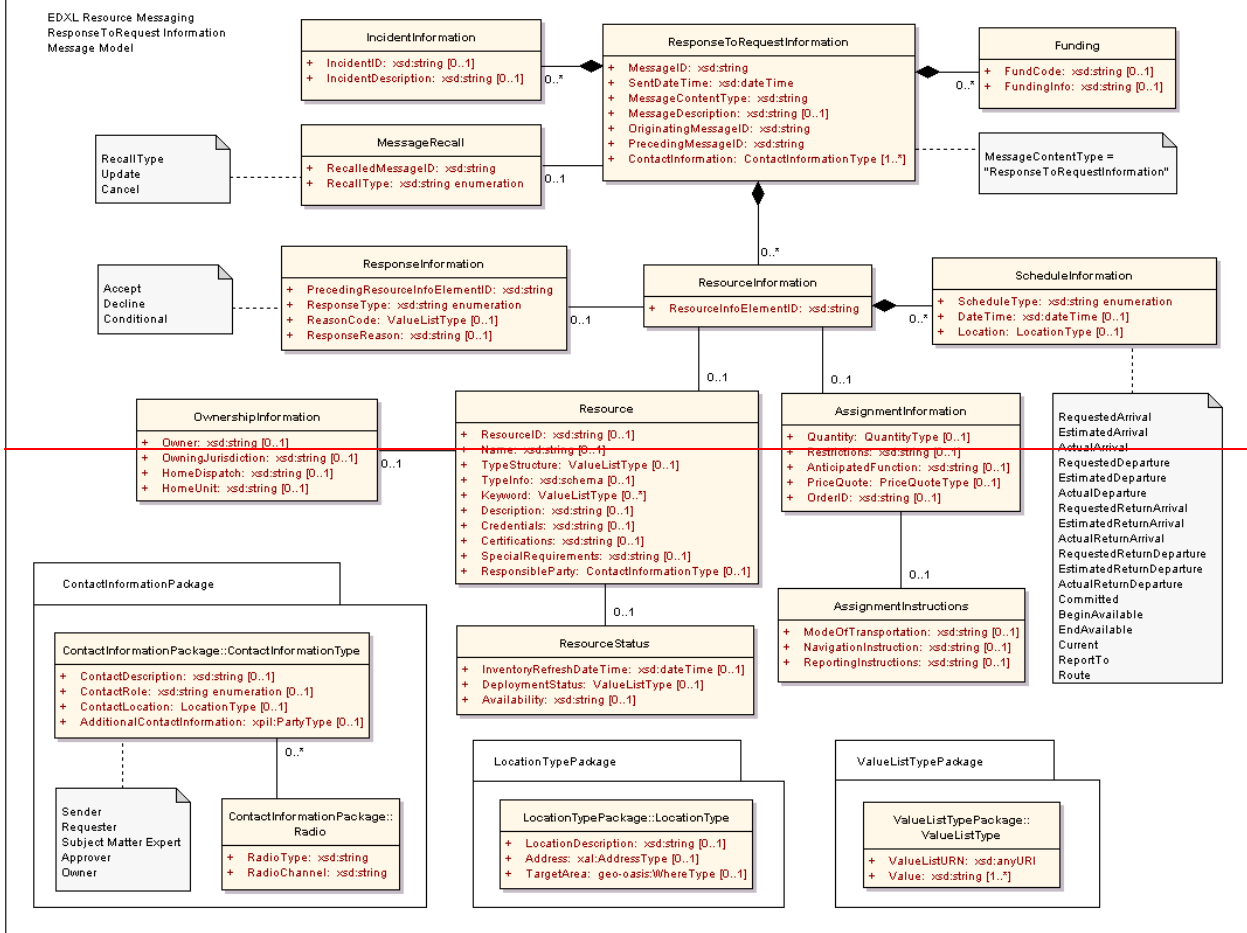
1321 **3.9.1 Overview**

1322 The “ResponseToRequestInformation” message is used by Resource Suppliers to respond to a
1323 RequestInformation message from Resource Consumers. If the RequestInformation message contained
1324 one or more ResourceInformation elements, the response MUST Accept or Decline for each
1325 ResourceInformation element with a separate ResponseInformation element. However, accepting here
1326 only entails agreeing to supply the requested information, not agreeing to supply resources. If the
1327 RequestInformation message did not contain any ResourceInformation elements, one or more
1328 ResponseInformation elements MAY be included in the response message.

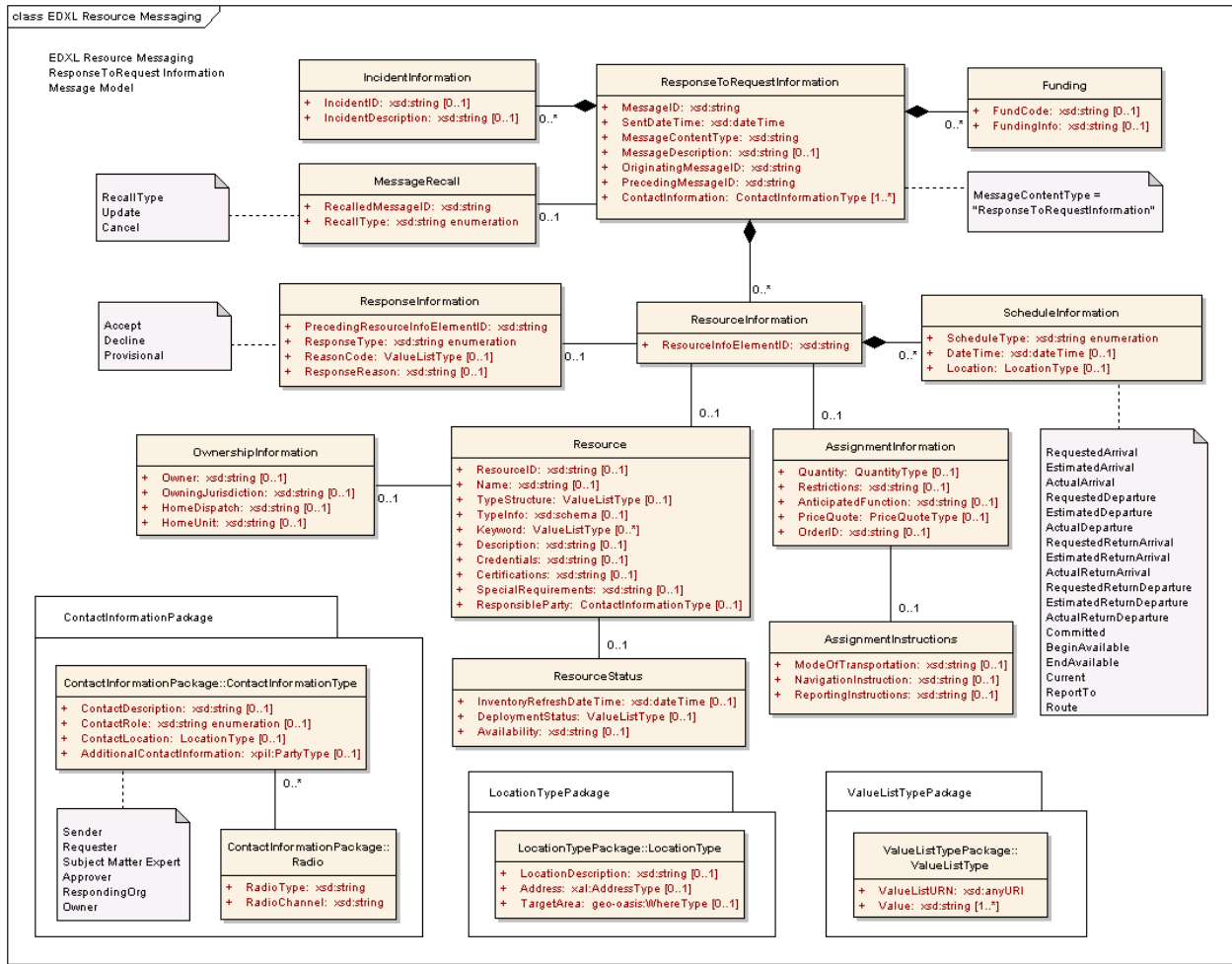
1329 **3.9.2 Element Reference Model**

1330 Figure 9 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
1331 ResponseToRequestInformation Message. The ERM shows the element-level details for the main entities
1332 in the RM.

class EDXL Resource Messaging



1333



1334

1335

1336

1337

Figure 9: EDXL-RM ERM for ResponseToRequestInformation Message

1338 The following table outlines the element cardinalities for this message type.

1339

1340

Table 8: ResponseToRequestInformation Message Elements

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

1341

1342 3.9.3 ResponseToRequestInformation Message Rules

1343 The following rules apply to the above elements:

- 1344 • The ResponseToRequestInformation:MessageID,
1345 ResponseToRequestInformation:SentDateTime
1346 ResponseToRequestInformation:MessageContentType,

¹ 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.

- 1347 ResponseToRequestInformation:OriginatingMessageID,
 1348 ResponseToRequestInformation:PrecedingMessageID, and
 1349 ResponseToRequestInformation:ContactInformation elements MUST be present.
- 1350 • The value of ResponseToRequestInformation:MessageContentType MUST be
 1351 "ResponseToRequestInformation".
 - 1352 • If a ResponseToRequestInformation:IncidentInformation element is present, then at least one of
 1353 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
 1354 present.
 - 1355 • If the ResponseToRequestInformation:MessageRecall element is present, then the
 1356 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
 - 1357 • If a ResponseToRequestInformation:Funding element is present, then at least one of
 1358 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
 - 1359 • If a ResponseToRequestInformation:ResourceInformation element is present, then the
 1360 ResourceInformation:ResourceInfoElementID element MUST be present.
 - 1361 • If the ResourceInformation:ResponseInformation element is present, then the
 1362 ResponseInformation:PrecedingResourceInfoElementID and
 1363 ResponseInformation:ResponseType elements MUST be present.
 - 1364 • If the ResourceInformation:ResponseInformation element is present and the
 1365 ResponseInformation:ResponseType element has a value of "Provisional", then at least one of
 1366 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
 1367 MUST be present.
 - 1368 • If a ResourceInformation:Resource element is present, then at least one of
 1369 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
 1370 present.
 - 1371 • If a Resource:OwnershipInformation element is present, then at least one of
 1372 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
 1373 be present.
 - 1374 • If the ResourceInformation:ScheduleInformation element is present, then the
 1375 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
 1376 values:
 - 1377 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
 1378 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
 1379 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
 1380 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable",
 1381 "Committed", "Current", "ReportTo" or "Route".

1382
 1383 The schema for a ResponseToRequestInformation message can be found in Appendix A.8.

1384 **3.9.4 Message Flow**

1385 The ResponseToRequestInformation message is sent by a Resource Supplier or Resource Consumer in
 1386 response to an original RequestInformation message.

1387 The potential responses to this message include:

- 1388 • RequisitionResource message from the Resource Consumer. (See Section 3.6)

1389 The message may be canceled or updated through the ResponseToRequestInformation:MessageRecall
 1390 element.

1391

1392 3.9.5 Message Example

1393 Below are two example ResponseToRequestInformation messages. These are example responses to the
1394 RequestInformation messages shown in Section 3.8.5.

1395

1396 [Note: The XML examples shown in this section are informative only.]

```
1397 <?xml version="1.0" encoding="UTF-8"?>
1398 <ResponseToRequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1399   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1400     EDXL-RMResponseToRequestInformation.xsd"
1401   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1402   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1403   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1404   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1405   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1406   xmlns:gml="http://www.opengis.net/gml">
1407 <MessageID>urn:au-qld-eoc:12346</MessageID>
1408 <SentDateTime>2006-03-21T12:37:00+10:00</SentDateTime>
1409 <MessageContentType>ResponseToRequestInformation</MessageContentType>
1410 <MessageDescription>
1411   Team consists of 5 overhead (2 person) crews with material handlers; 1
1412   overhead (2 person) crew; 2 designers; 1 team leader; 1 safety specialist and fleet
1413   services support. Each team is additionally equipped with digger derrick/pole
1414   trailer and auxiliary (material handler or 36' bucket).
1415 </MessageDescription>
1416 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1417 <PrecedingMessageID>urn:au-qld-eoc:12338</PrecedingMessageID>
1418 <IncidentInformation>
1419   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1420 </IncidentInformation>
1421 <ContactInformation>
1422   <rm:ContactRole>Sender</rm:ContactRole>
1423   <rm:AdditionalContactInformation>
1424     <xpil:PartyName>
1425       <xnl:PersonName>
1426         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1427         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1428       </xnl:PersonName>
1429       <xnl:OrganisationName>
1430         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1431       </xnl:OrganisationName>
1432     </xpil:PartyName>
1433     <xpil:ContactNumbers>
1434       <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
1435         xpil:ContactHours="9:00AM - 5:00PM">
1436         <xpil:ContactNumberElement
1437           xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1438         <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
1439         <xpil:ContactNumberElement xpil:Type="LocalNumber">
1440           3000
1441           1234
1442         </xpil:ContactNumberElement>
1443       </xpil:ContactNumber>
1444     </xpil:ContactNumbers>
1445     <xpil:ElectronicAddressIdentifiers>
1446       <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
1447     </xpil:ElectronicAddressIdentifier>
1448     </xpil:ElectronicAddressIdentifiers>
1449   </rm:AdditionalContactInformation>
1450 </ContactInformation>
1451 </ResponseToRequestInformation>
```

```

1452 <?xml version="1.0" encoding="UTF-8"?>
1453 <ResponseToRequestInformation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1454   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1455     EDXL-RMResponseToRequestInformation.xsd"
1456   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1457   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1458   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1459   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1460   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
1461   xmlns:gml="http://www.opengis.net/gml">
1462 <MessageID>urn:au-qld-eoc:77397</MessageID>
1463 <SentDateTime>2006-03-22T08:22:00+10:00</SentDateTime>
1464 <MessageContentType>ResponseToRequestInformation</MessageContentType>
1465 <MessageDescription>
1466   QBuild can send a damage assessment team from Cairns this afternoon.
1467 </MessageDescription>
1468 <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
1469 <PrecedingMessageID>urn:au-qld-eoc:77388</PrecedingMessageID>
1470 <IncidentInformation>
1471   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1472 </IncidentInformation>
1473 <ContactInformation>
1474   <rm:ContactRole>Sender</rm:ContactRole>
1475   <rm:AdditionalContactInformation>
1476     <xpil:PartyName>
1477       <xnl:PersonName>
1478         <xnl:NameElement xnl:ElementType="FirstName">Barnaby</xnl:NameElement>
1479         <xnl:NameElement xnl:ElementType="LastName">James</xnl:NameElement>
1480       </xnl:PersonName>
1481       <xnl:OrganisationName>
1482         <xnl:NameElement>EMA</xnl:NameElement>
1483       </xnl:OrganisationName>
1484     </xpil:PartyName>
1485     <xpil:ContactNumbers>
1486       <xpil:ContactNumber xpil:CommunicationMediaType="Telephone">
1487         <xpil:ContactNumberElement
1488           xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1489         <xpil:ContactNumberElement xpil:Type="AreaCode">2</xpil:ContactNumberElement>
1490         <xpil:ContactNumberElement xpil:Type="LocalNumber">
1491           9864
1492           4329
1493         </xpil:ContactNumberElement>
1494       </xpil:ContactNumber>
1495     </xpil:ContactNumbers>
1496   </rm:AdditionalContactInformation>
1497 </ContactInformation>
1498 <ContactInformation>
1499   <rm:ContactRole>Requester</rm:ContactRole>
1500   <rm:AdditionalContactInformation>
1501     <xpil:PartyName>
1502       <xnl:PersonName>
1503         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1504         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1505       </xnl:PersonName>
1506       <xnl:OrganisationName>
1507         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1508       </xnl:OrganisationName>
1509     </xpil:PartyName>
1510   </rm:AdditionalContactInformation>
1511 </ContactInformation>
1512 <ResourceInformation>
1513   <ResourceInfoElementID>001</ResourceInfoElementID>
1514   <Resource>
1515     <TypeStructure>
1516       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1517       <rm:Value>Engineering Services: Damage Assessment Team</rm:Value>
1518     </TypeStructure>
1519   </Resource>
1520 <AssignmentInformation>
1521   <Quantity>
1522     <rm:MeasuredQuantity>

```

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1539
1540
1541
1542
1543
1544
1545
1546

```
<rm:Amount>1</rm:Amount>
</rm:MeasuredQuantity>
</Quantity>
<AnticipatedFunction>
  Preliminary assessment of cracks in Centenary Bridge,
  Innisfail.
</AnticipatedFunction>
</AssignmentInformation>
<ScheduleInformation>
  <ScheduleType>EstimatedDeparture</ScheduleType>
  <DateTime>2006-03-22T15:00:00</DateTime>
  <Location>
    <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
  </Location>
</ScheduleInformation>
<ScheduleInformation>
  <ScheduleType>EstimatedArrival</ScheduleType>
  <DateTime>2006-03-25T16:00:00+10:00</DateTime>
  <Location>
    <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
  </Location>
</ScheduleInformation>
</ResourceInformation>
</ResponseToRequestInformation>
```

1547
1548

1549 **3.10 OfferUnsolicitedResource Message**

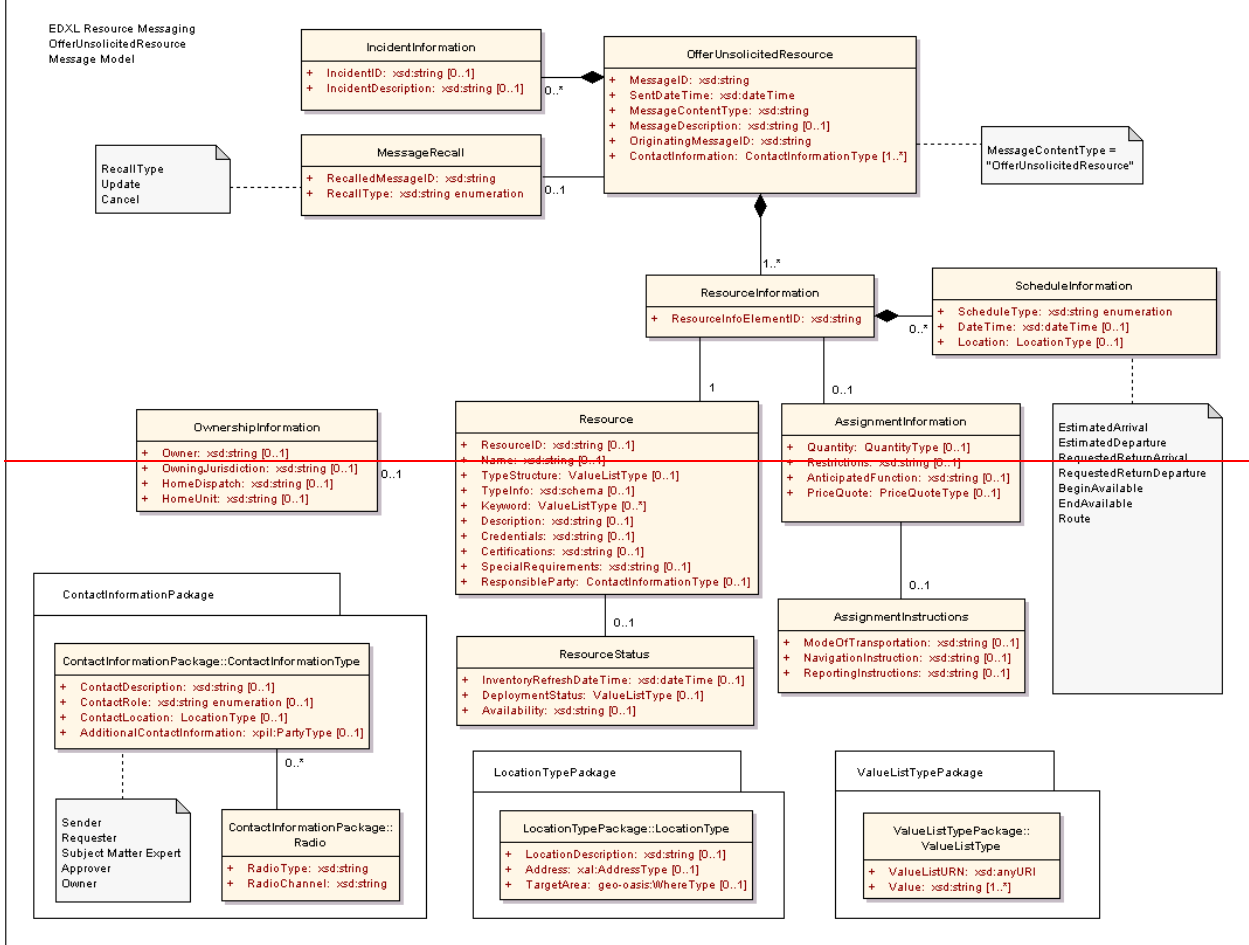
1550 **3.10.1 Overview**

1551 The “OfferUnsolicitedResource” message is used to offer available resources (that have not been
1552 requested) to assist with an emergency response.

1553 **3.10.2 Element Reference Model**

1554 Figure 10 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
1555 OfferUnsolicitedResource Message. The ERM shows the element-level details for the main entities in the
1556 RM.

class EDXL Resource Messaging



1557

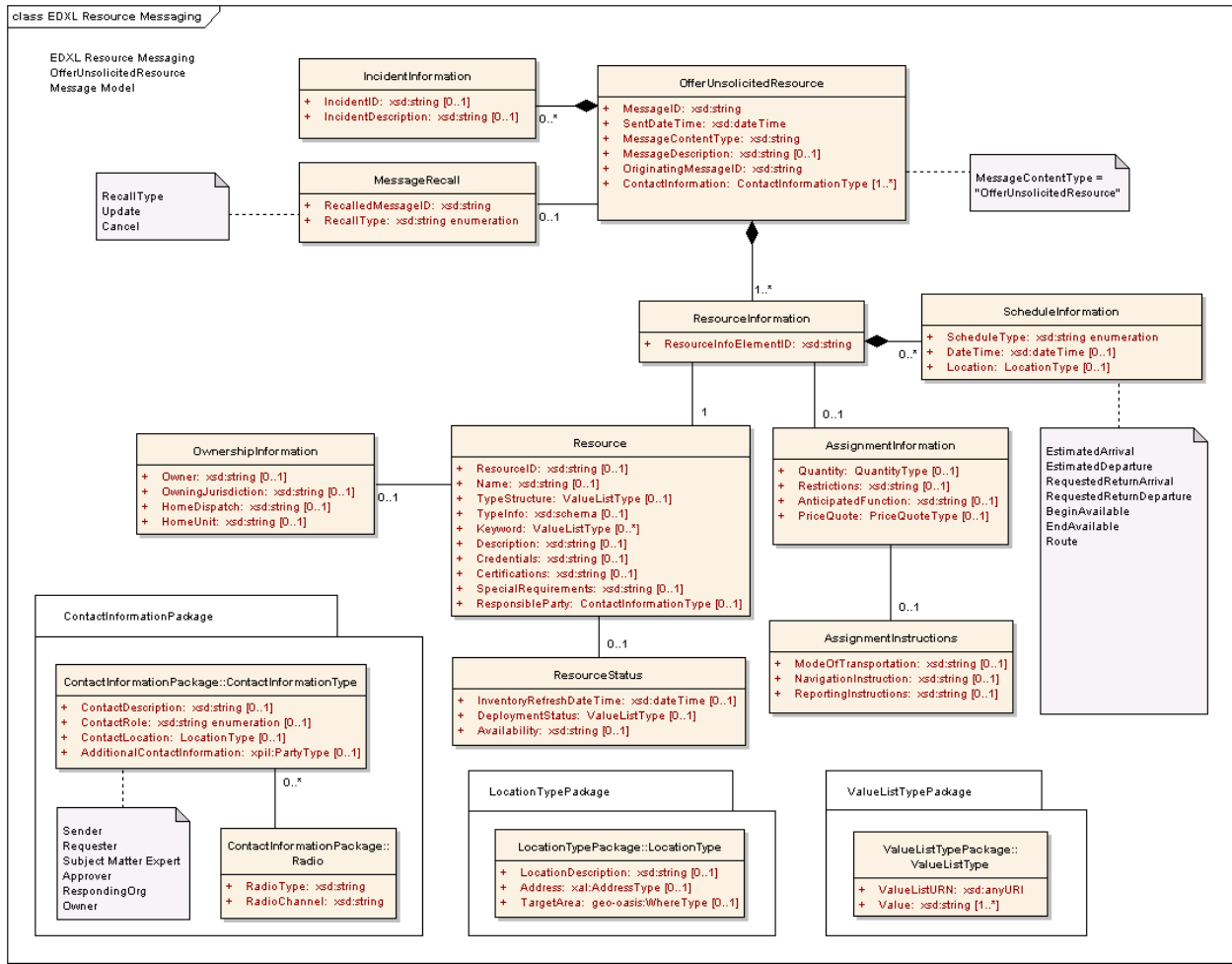


Figure 10: EDXL-RM ERM for OfferUnsolicitedResource Message

1558

1559

1560

1561

1562 The following table outlines the element cardinalities for this message type.

1563

1564

Table 9: OfferUnsolicitedResource Message Elements

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

1565

1566 3.10.3 OfferUnsolicitedResource Message Rules

1567 The following rules apply to the above elements:

- 1568 • The OfferUnsolicitedResource:MessageID, OfferUnsolicitedResource:SentDateTime
1569 OfferUnsolicitedResource:MessageContentType,
1570 OfferUnsolicitedResource:OriginatingMessageID, OfferUnsolicitedResource:ContactInformation,
1571 and OfferUnsolicitedResource:ResourceInformation elements MUST be present.
- 1572 • The value of OfferUnsolicitedResource:MessageContentType MUST be
1573 "OfferUnsolicitedResource".
- 1574 • If an OfferUnsolicitedResource:IncidentInformation element is present, then at least one of
1575 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1576 present.
- 1577 • If the OfferUnsolicitedResource:MessageRecall element is present, then the
1578 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1579 • For each OfferUnsolicitedResource:ResourceInformation element, the
1580 ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
1581 MUST be present.
- 1582 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
1583 MUST be present.

- 1584 • If a Resource:OwnershipInformation element is present, then at least one of
1585 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
1586 be present.
- 1587 • If the ResourceInformation:ScheduleInformation element is present, then the
1588 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
1589 values:
 - 1590 • “EstimatedArrival”, “EstimatedDeparture”, “RequestedReturnDeparture”,
1591 “RequestedReturnArrival”, “BeginAvailable”, “EndAvailable”, or “Route”.

1592

1593 The schema for an OfferUnsolicitedResource message can be found in Appendix A.9.

1594 3.10.4 Message Flow

1595 The OfferUnsolicitedResource message is an initial message created and sent by the Resource Supplier
1596 to any number of Resource Consumers.

1597 The potential responses to this message include:

- 1598 • RequestInformation (See Section 3.8)
- 1599 • RequisitionResource (See Section 3.6)

1600 The message may be canceled or updated through the OfferUnsolicitedResource:MessageRecall
1601 element.

1602

1603 3.10.5 Message Example

1604 Below is an example OfferUnsolicitedResource message. This message offers a donation of 100 large
1605 and 100 small tarpaulins.

1606

1607 [Note: The XML example shown in this section is informative only.]

```

1608 <?xml version="1.0" encoding="UTF-8"?>
1609 <OfferUnsolicitedResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1610   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
1611     EDXL-RMOfferUnsolicitedResource.xsd"
1612   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1613   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1614   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1615   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3">
1616 <MessageID>urn:au-qld-eoc:84313</MessageID>
1617 <SentDateTime>2006-03-22T10:34:00+10:00</SentDateTime>
1618 <MessageContentType>OfferUnsolicitedResource</MessageContentType>
1619 <MessageDescription>
1620   We would like to donate 100 small and 100 large tarps for use by residents
1621   whose homes have been damaged by the cyclone.
1622 </MessageDescription>
1623 <OriginatingMessageID>urn:au-qld-eoc:84313</OriginatingMessageID>
1624 <IncidentInformation>
1625   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1626 </IncidentInformation>
1627 <ContactInformation>
1628   <rm:ContactRole>Owner</rm:ContactRole>
1629   <rm:AdditionalContactInformation>
1630     <xpil:PartyName>
1631       <xnl:PersonName>
1632         <xnl:NameElement xnl:ElementType="FirstName">Joe</xnl:NameElement>
1633         <xnl:NameElement xnl:ElementType="LastName">Williams</xnl:NameElement>
1634       </xnl:PersonName>
1635       <xnl:OrganisationName>
1636         <xnl:NameElement>Hardware Megastore Cairns</xnl:NameElement>
1637       </xnl:OrganisationName>

```

```

1638     </xpil:PartyName>
1639 <xpil:Addresses>
1640   <xpil:Address>
1641     <xal:Country>
1642       <xal:NameElement>Australia</xal:NameElement>
1643     </xal:Country>
1644     <xal:AdministrativeArea>
1645       <xal:NameElement>QLD</xal:NameElement>
1646     </xal:AdministrativeArea>
1647     <xal:Locality>
1648       <xal:NameElement>Cairns</xal:NameElement>
1649     </xal:Locality>
1650     <xal:Thoroughfare>
1651       <xal:NameElement>Spence St</xal:NameElement>
1652     </xal:Thoroughfare>
1653     <xal:PostCode>
1654       <xal:Identifier>4870</xal:Identifier>
1655     </xal:PostCode>
1656   </xpil:Address>
1657 </xpil:Addresses>
1658 <xpil:ContactNumbers>
1659   <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
1660     xpil:ContactHours="8:00AM - 6:00PM">
1661     <xpil:ContactNumberElement
1662       xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1663     <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
1664     <xpil:ContactNumberElement xpil:Type="LocalNumber">
1665       4052
1666       0378
1667     </xpil:ContactNumberElement>
1668   </xpil:ContactNumber>
1669 </xpil:ContactNumbers>
1670 </rm:AdditionalContactInformation>
1671 </ContactInformation>
1672 <ResourceInformation>
1673   <ResourceInfoElementID>001</ResourceInfoElementID>
1674   <Resource>
1675     <TypeStructure>
1676       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1677       <rm:Value>Large tarpaulin</rm:Value>
1678     </TypeStructure>
1679     <Description> 30 x 40 ft, 800 denier blue tarp </Description>
1680   </Resource>
1681 <AssignmentInformation>
1682   <Quantity>
1683     <rm:MeasuredQuantity>
1684       <rm:Amount>100</rm:Amount>
1685     </rm:MeasuredQuantity>
1686   </Quantity>
1687   <AssignmentInstructions>
1688     <rm:ModeOfTransportation>
1689       We have a truck available to deliver to Innisfail (or other
1690       preferred location).
1691     </rm:ModeOfTransportation>
1692   </AssignmentInstructions>
1693 </AssignmentInformation>
1694 <ScheduleInformation>
1695   <ScheduleType>BeginAvailable</ScheduleType>
1696   <DateTime>2006-03-22T12:00:00+10:00</DateTime>
1697   <Location>
1698     <rm:LocationDescription>Hardware Megastore Cairns</rm:LocationDescription>
1699     <rm:Address>
1700       <xal:Country>
1701         <xal:NameElement>Australia</xal:NameElement>
1702       </xal:Country>
1703       <xal:AdministrativeArea>
1704         <xal:NameElement>QLD</xal:NameElement>
1705       </xal:AdministrativeArea>
1706       <xal:Locality>
1707         <xal:NameElement>Cairns</xal:NameElement>
1708       </xal:Locality>

```

```

1709     <xal:Thoroughfare>
1710         <xal:NameElement>Spence St</xal:NameElement>
1711     </xal:Thoroughfare>
1712     <xal:PostCode>
1713         <xal:Identifier>4870</xal:Identifier>
1714     </xal:PostCode>
1715     </rm:Address>
1716 </Location>
1717 </ScheduleInformation>
1718 </ResourceInformation>
1719 <ResourceInformation>
1720     <ResourceInfoElementID>002</ResourceInfoElementID>
1721     <Resource>
1722         <TypeStructure>
1723             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1724             <rm:Value>Small tarpaulin</rm:Value>
1725         </TypeStructure>
1726         <Description> 8 x 10 ft, 800 denier blue tarp </Description>
1727     </Resource>
1728     <AssignmentInformation>
1729         <Quantity>
1730             <rm:MeasuredQuantity>
1731                 <rm:Amount>100</rm:Amount>
1732             </rm:MeasuredQuantity>
1733         </Quantity>
1734         <AssignmentInstructions>
1735             <rm:ModeOfTransportation>
1736                 We have a truck available to deliver to Innisfail (or other
1737                 preferred location).
1738             </rm:ModeOfTransportation>
1739         </AssignmentInstructions>
1740     </AssignmentInformation>
1741     <ScheduleInformation>
1742         <ScheduleType>BeginAvailable</ScheduleType>
1743         <DateTime>2006-03-22T12:00:00+10:00</DateTime>
1744     <Location>
1745         <rm:LocationDescription>Hardware Megastore Cairns</rm:LocationDescription>
1746         <rm:Address>
1747             <xal:Country>
1748                 <xal:NameElement>Australia</xal:NameElement>
1749             </xal:Country>
1750             <xal:AdministrativeArea>
1751                 <xal:NameElement>QLD</xal:NameElement>
1752             </xal:AdministrativeArea>
1753             <xal:Locality>
1754                 <xal:NameElement>Cairns</xal:NameElement>
1755             </xal:Locality>
1756             <xal:Thoroughfare>
1757                 <xal:NameElement>Spence St</xal:NameElement>
1758             </xal:Thoroughfare>
1759             <xal:PostCode>
1760                 <xal:Identifier>4870</xal:Identifier>
1761             </xal:PostCode>
1762         </rm:Address>
1763     </Location>
1764 </ScheduleInformation>
1765 </ResourceInformation>
1766 </OfferUnsolicitedResource>

```

1767

1768 **3.11 ReleaseResource Message**

1769 **3.11.1 Overview**

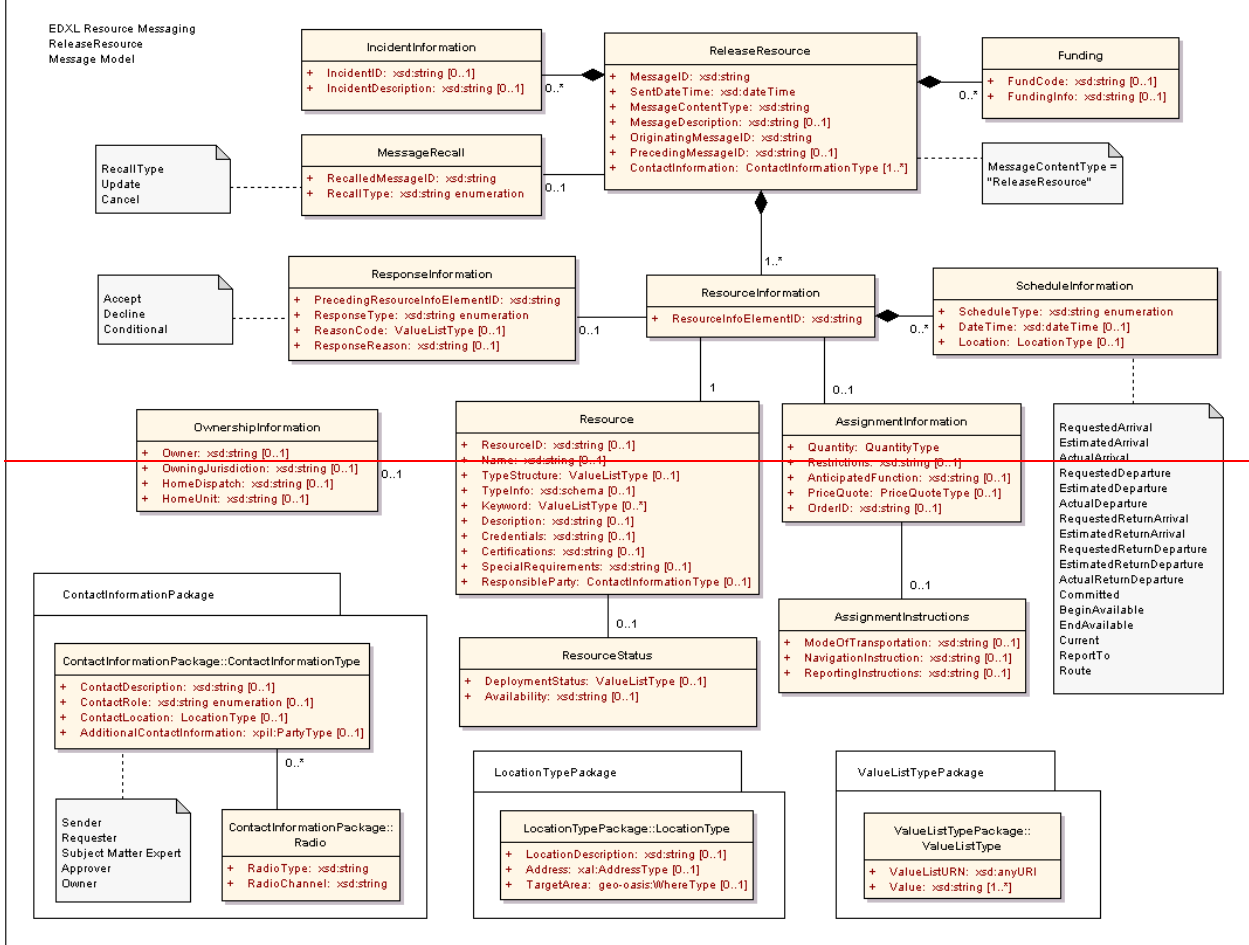
1770 The “ReleaseResource” message is used by authorities at the incident to “release” (demobilize) a
1771 resource back to its original point of assignment or to another location / assignment.

1772 **3.11.2 Element Reference Model**

1773 Figure 11 below shows the EDXL–RM Element Reference Model (ERM) tailored for the ReleaseResource
1774 Message. The ERM shows the element-level details for the main entities in the RM.

1775

class EDXL Resource Messaging



1776

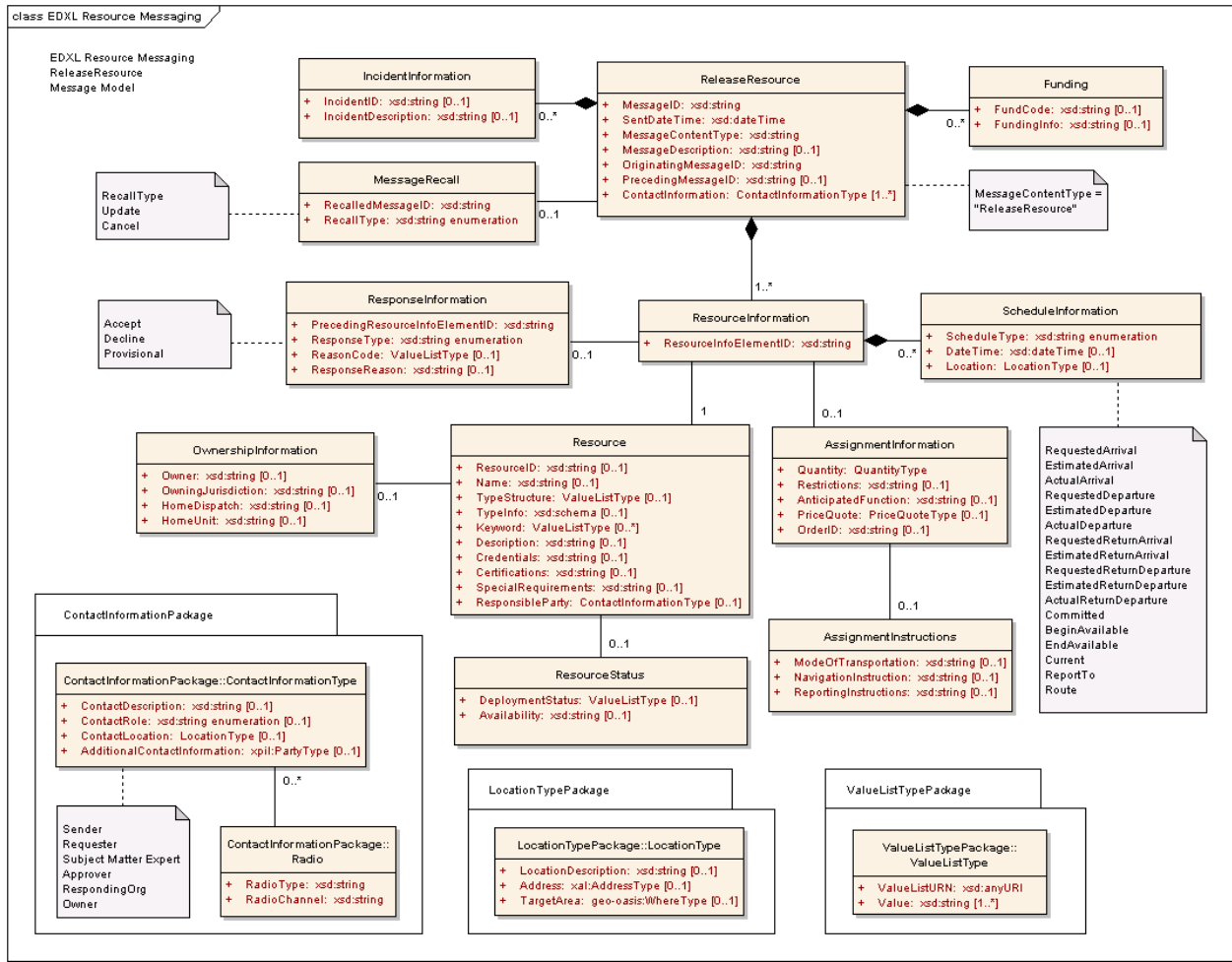


Figure 11: EDXL-RM ERM for ReleaseResource Message

1777
1778
1779
1780

1781 The following table outlines the element cardinalities for this message type.

1782

1783

Table 11: ReleaseResource Message Elements

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

1784

1785 3.11.3 ReleaseResource Message Rules

1786 The following rules apply to the above elements:

- 1787 • The ReleaseResource:MessageID, ReleaseResource~~Message~~:SentDateTime, ReleaseResource
1788 Message:MessageContentType, ReleaseResource~~Message~~:OriginatingMessageID,
1789 ReleaseResource~~Message~~:ContactInformation, and ReleaseResource
1790 ~~Message~~:ResourceInformation elements MUST be present.
- 1791 • The value of ReleaseResource~~Message~~:MessageContentType MUST be "ReleaseResource".
- 1792 • If a ReleaseResource~~Message~~:IncidentInformation element is present, then at least one of
1793 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1794 present.
- 1795 • If the ReleaseResource~~Message~~:MessageRecall element is present, then the
1796 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1797 • If a ReleaseResource~~Message~~:Funding element is present, then at least one of
1798 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.

- 1799 | • For each ReleaseResource-~~Message~~:ResourceInformation element, the
1800 ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
1801 MUST be present.
- 1802 • If a ResourceInformation:ResponseInformation element is present, then the
1803 ResponseInformation:PrecedingResourceInfoElementID and
1804 ResponseInformation:ResponseType elements MUST be present.
- 1805 • If a ResourceInformation:ResponseInformation element is present and the
1806 ResponseInformation:ResponseType has a value of "Provisional", then at least one of
1807 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
1808 MUST be present.
- 1809 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
1810 MUST be present.
- 1811 • If a Resource:OwnershipInformation element is present, then at least one of
1812 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
1813 be present.
- 1814 • If the ResourceInformation:AssignmentInformation element is present, then the
1815 AssignmentInformation:Quantity element MUST be present.
- 1816 • If the ResourceInformation:ScheduleInformation element is present, then the
1817 ScheduleInformation:ScheduleType element MUST be present and contain one of the
1818 following values:
 - 1819 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
1820 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
1821 "EstimatedReturnDeparture", "ActualReturnDeparture" "RequestedReturnArrival",
1822 "EstimatedReturnArrival", "BeginAvailable", "EndAvailable", "Committed", "ReportTo",
1823 "Current" or "Route".
- 1824
- 1825 The schema for a ReleaseResource message can be found in Appendix A.10.

1826 3.11.4 Message Flow

1827 The ReleaseResource message is sent by the Resource Consumer to the Resource Supplier, and
1828 typically follows an earlier sequence of messages (e.g., RequisitionResource and CommitResource
1829 messages).

1830 The potential responses to this message include:

- 1831 • RequestInformation (See Section 3.8)
- 1832 • RequisitionResource (See Section 3.6)
- 1833 • Consumers waiting on the release of resources may send to a RequisitionResource Message
1834 after receipt of a ReleaseResource Message.

1835 The message may be canceled or updated through the ReleaseResource:MessageRecall element.
1836

1837 3.11.5 Message Example

1838 Below is an example ReleaseResource message. This message releases the Small Animal Sheltering
1839 Team committed in the example in Section 3.7.5.

1840
1841 [Note: The XML example shown in this section is informative only.]

```
1842 <?xml version="1.0" encoding="UTF-8"?>
1843 <ReleaseResource xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1844     xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
```

```

1845     EDXL-RMReleaseResource.xsd"
1846     xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
1847     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1848     xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1849     xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1850     xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
1851     <MessageID>urn:au-qld-eoc:997985</MessageID>
1852     <SentDateTime>2006-03-29T10:17:00+10:00</SentDateTime>
1853     <MessageContentType>ReleaseResource</MessageContentType>
1854     <MessageDescription>
1855     Small Animal Sheltering Team will be flying back to Cairns this evening.
1856     </MessageDescription>
1857     <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1858     <IncidentInformation>
1859     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1860     </IncidentInformation>
1861     <ContactInformation>
1862     <rm:ContactRole>Sender</rm:ContactRole>
1863     <rm:AdditionalContactInformation>
1864     <xpil:PartyName>
1865     <xnl:PersonName>
1866     <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1867     <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1868     </xnl:PersonName>
1869     <xnl:OrganisationName>
1870     <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1871     </xnl:OrganisationName>
1872     </xpil:PartyName>
1873     <xpil:ContactNumbers>
1874     <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
1875     xpil:ContactHours="9:00AM - 5:00PM">
1876     <xpil:ContactNumberElement
1877     xpil:Type="CountryCode">61</xpil:ContactNumberElement>
1878     <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
1879     <xpil:ContactNumberElement xpil:Type="LocalNumber">
1880     3000
1881     1234
1882     </xpil:ContactNumberElement>
1883     </xpil:ContactNumber>
1884     </xpil:ContactNumbers>
1885     <xpil:ElectronicAddressIdentifiers>
1886     <xpil:ElectronicAddressIdentifier>
1887     alexj@emergencyservices.gov.au
1888     </xpil:ElectronicAddressIdentifier>
1889     </xpil:ElectronicAddressIdentifiers>
1890     </rm:AdditionalContactInformation>
1891     </ContactInformation>
1892     <ResourceInformation>
1893     <ResourceInfoElementID>001</ResourceInfoElementID>
1894     <Resource>
1895     <TypeStructure>
1896     <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
1897     <rm:Value>Small Animal Sheltering Team</rm:Value>
1898     </TypeStructure>
1899     </Resource>
1900     <AssignmentInformation>
1901     <Quantity>
1902     <rm:MeasuredQuantity>
1903     <rm:Amount>1</rm:Amount>
1904     </rm:MeasuredQuantity>
1905     </Quantity>
1906     </AssignmentInformation>
1907     <ScheduleInformation>
1908     <ScheduleType>Current</ScheduleType>
1909     <Location>
1910     <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
1911     <rm:Address>
1912     <xal:Country>
1913     <xal:NameElement>Australia</xal:NameElement>
1914     </xal:Country>
1915     <xal:AdministrativeArea>

```

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```
    <xal:NameElement>QLD</xal:NameElement>
  </xal:AdministrativeArea>
  <xal:Locality>
    <xal:NameElement>Innisfail</xal:NameElement>
  </xal:Locality>
  <xal:Thoroughfare>
    <xal:NameElement>Downing St</xal:NameElement>
    <xal:Number>27</xal:Number>
  </xal:Thoroughfare>
  <xal:PostCode>
    <xal:Identifier>4860</xal:Identifier>
  </xal:PostCode>
</rm:Address>
</Location>
</ScheduleInformation>
<ScheduleInformation>
  <ScheduleType>EstimatedReturnDeparture</ScheduleType>
  <DateTime>2006-03-29T19:05:00+10:00</DateTime>
  <Location>
    <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
  </Location>
</ScheduleInformation>
<ScheduleInformation>
  <ScheduleType>EstimatedReturnArrival</ScheduleType>
  <DateTime>2006-03-29T19:55:00+10:00</DateTime>
  <Location>
    <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
  </Location>
</ScheduleInformation>
</ResourceInformation>
</ReleaseResource>
```

1947

1948 **3.12 RequestReturn Message**

1949 **3.12.1 Overview**

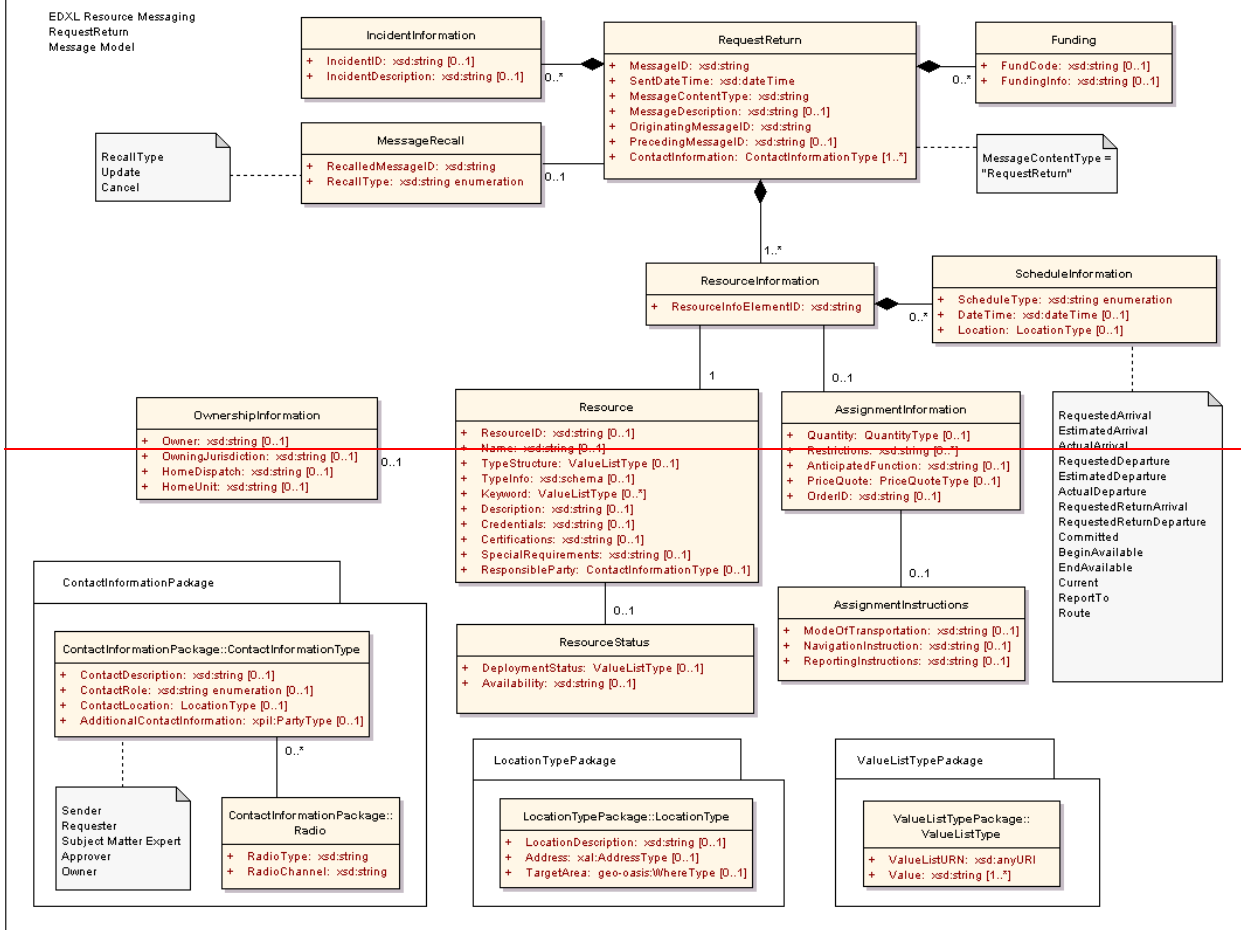
1950 The “RequestReturn” message is used to request release (demobilization) of resource(s) back to its
1951 original owning jurisdiction and location or to another location / assignment.

1952 **3.12.2 Element Reference Model**

1953 Figure 12 below shows the EDXL–RM Element Reference Model (ERM) tailored for the RequestReturn
1954 Message. The ERM shows the element-level details for the main entities in the RM.

1955

class EDXL Resource Messaging



1956

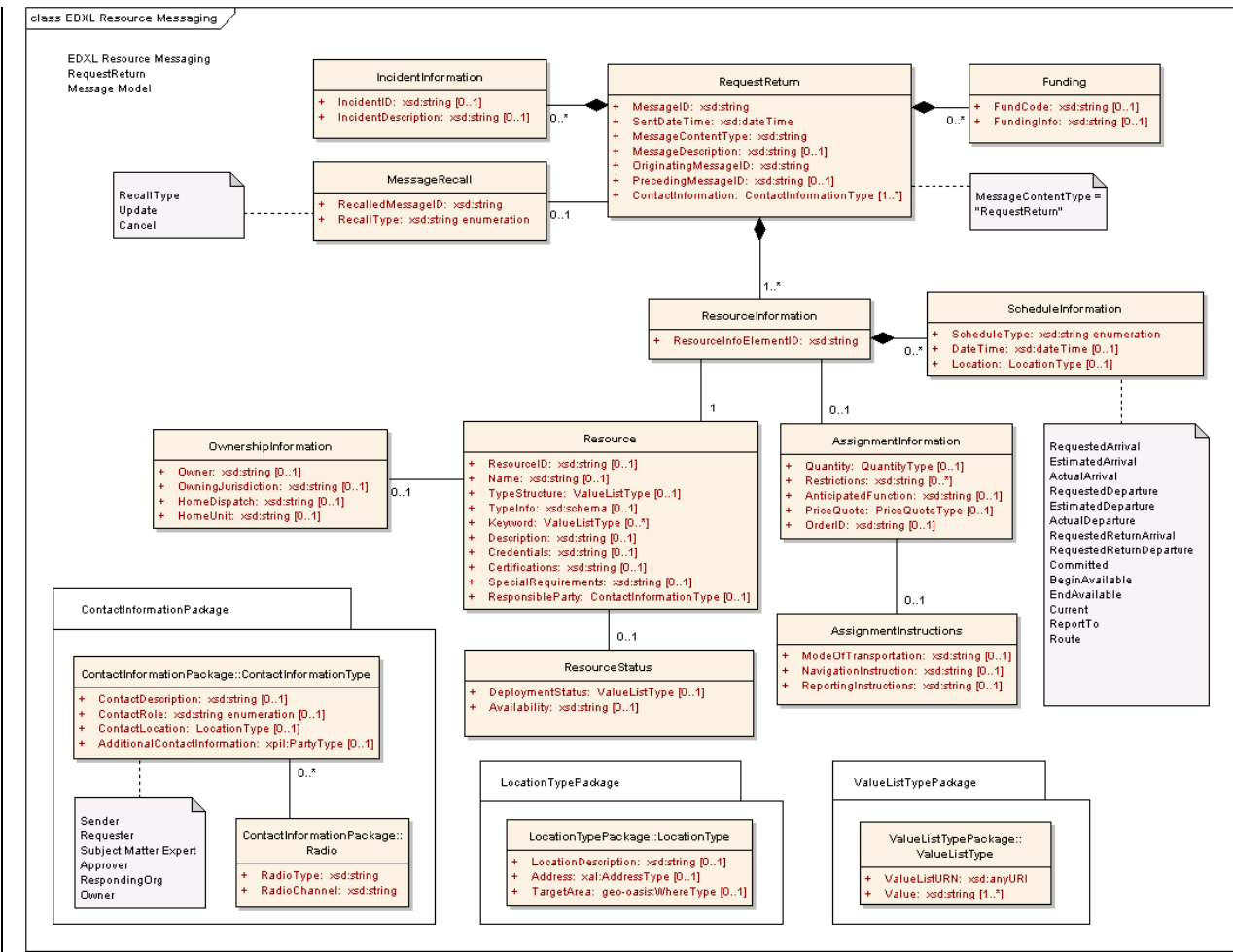


Figure 12: EDXL-RM ERM for RequestReturn Message

1957
1958
1959
1960

1961 The following table outlines the element cardinalities for this message type.

1962

1963

Table 12: RequestReturn Message Elements

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

1964

1965 3.12.3 RequestReturn Message Rules

1966 The following rules apply to the above elements:

- 1967 • The RequestReturn:MessageID, ResourceMessage:SentDateTime,
1968 RequestReturn:MessageContentType, RequestReturn:OriginatingMessageID,
1969 RequestReturn:ContactInformation, and RequestReturn:ResourceInformation elements MUST be
1970 present.
- 1971 • The value of RequestReturn:MessageContentType MUST be "RequestReturn".
- 1972 • If a RequestReturn:IncidentInformation element is present, then at least one of
1973 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
1974 present.
- 1975 • If the RequestReturn:MessageRecall element is present, then the
1976 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 1977 • If a RequestReturn:Funding element is present, then at least one of Funding:FundCode and/or
1978 Funding:FundingInfo elements MUST be present.
- 1979 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
1980 MUST be present.
- 1981 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
1982 MUST be present for each ResourceInformation:Resource element present.

- 1983 • If a Resource:OwnershipInformation element is present, then at least one of
- 1984 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
- 1985 be present.
- 1986 • If the ResourceInformation:ScheduleInformation element is present, then the
- 1987 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
- 1988 values:
- 1989 • “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”,
- 1990 “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnDeparture”,
- 1991 “RequestedReturnArrival”, “BeginAvailable”, “Committed”, “EndAvailable”, “Current”,
- 1992 “ReportTo” or “Route”.
- 1993
- 1994 The schema for a RequestReturn message can be found in Appendix A.11.

3.12.4 Message Flow

- 1996 The RequestReturn message is sent by the Resource Supplier to the Resource Consumer, and typically
- 1997 follows an earlier sequence of messages (e.g., RequisitionResource and CommitResource messages).
- 1998 The potential responses to this message include:
- 1999 • ResponseToRequestReturn (See Section 3.13)
- 2000 • ReleaseResource (See Section 3.11)
- 2001 • This includes Accept, Decline, and Provisional responses.
- 2002 The message may be canceled or updated through the RequestReturn:MessageRecall element.
- 2003

3.12.5 Message Example

- 2004 Below is an example of a RequestReturn Message, in which one request return is shown:
- 2005
- 2006 • Small Animal Sheltering Team (ResourceInfoElementID=001).
- 2007

2008 [Note: The XML example shown in this section is informative only.]

```

2009 <?xml version="1.0" encoding="UTF-8"?>
2010 <RequestReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2011   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2012     EDXL-RMRequestReturn.xsd"
2013   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2014   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2015   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2016   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2017   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2018 <MessageID>urn:au-qld-eoc:997821</MessageID>
2019 <SentDateTime>2006-03-28T14:48:00+10:00</SentDateTime>
2020 <MessageContentType>RequestReturn</MessageContentType>
2021 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2022 <IncidentInformation>
2023   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2024 </IncidentInformation>
2025 <ContactInformation>
2026   <rm:ContactRole>Sender</rm:ContactRole>
2027   <rm:AdditionalContactInformation>
2028     <xpil:PartyName>
2029       <xnl:PersonName>
2030         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
2031         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
2032       </xnl:PersonName>
2033       <xnl:OrganisationName>
2034         <xnl:NameElement>EMA</xnl:NameElement>

```

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```
</xnl:OrganisationName>  
</xpil:PartyName>  
</rm:AdditionalContactInformation>  
</ContactInformation>  
<ResourceInformation>  
  <ResourceInfoElementID>001</ResourceInfoElementID>  
  <Resource>  
    <TypeStructure>  
      <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>  
      <rm:Value>Small Animal Sheltering Team</rm:Value>  
    </TypeStructure>  
  </Resource>  
<AssignmentInformation>  
  <Quantity>  
    <rm:MeasuredQuantity>  
      <rm:Amount>1</rm:Amount>  
    </rm:MeasuredQuantity>  
  </Quantity>  
</AssignmentInformation>  
<ScheduleInformation>  
  <ScheduleType>RequestedReturnArrival</ScheduleType>  
  <DateTime>2006-03-29T20:00:00+10:00</DateTime>  
  <Location>  
    <rm:LocationDescription>Cairns Airport</rm:LocationDescription>  
  </Location>  
</ScheduleInformation>  
</ResourceInformation>  
</RequestReturn>
```

2063

2064 **3.13 ResponseToRequestReturn Message**

2065 **3.13.1 Overview**

2066 The “ResponseToRequestReturn” message is used by Resource Consumers to respond to a
2067 RequestReturn message from Resource Suppliers. The response identifies the resources in the original
2068 request message and how the Resource Consumer has responded.

2069 **3.13.2 Element Reference Model**

2070 Figure 13 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
2071 ResponseToRequestReturn Message. The ERM shows the element-level details for the main entities in
2072 the RM.

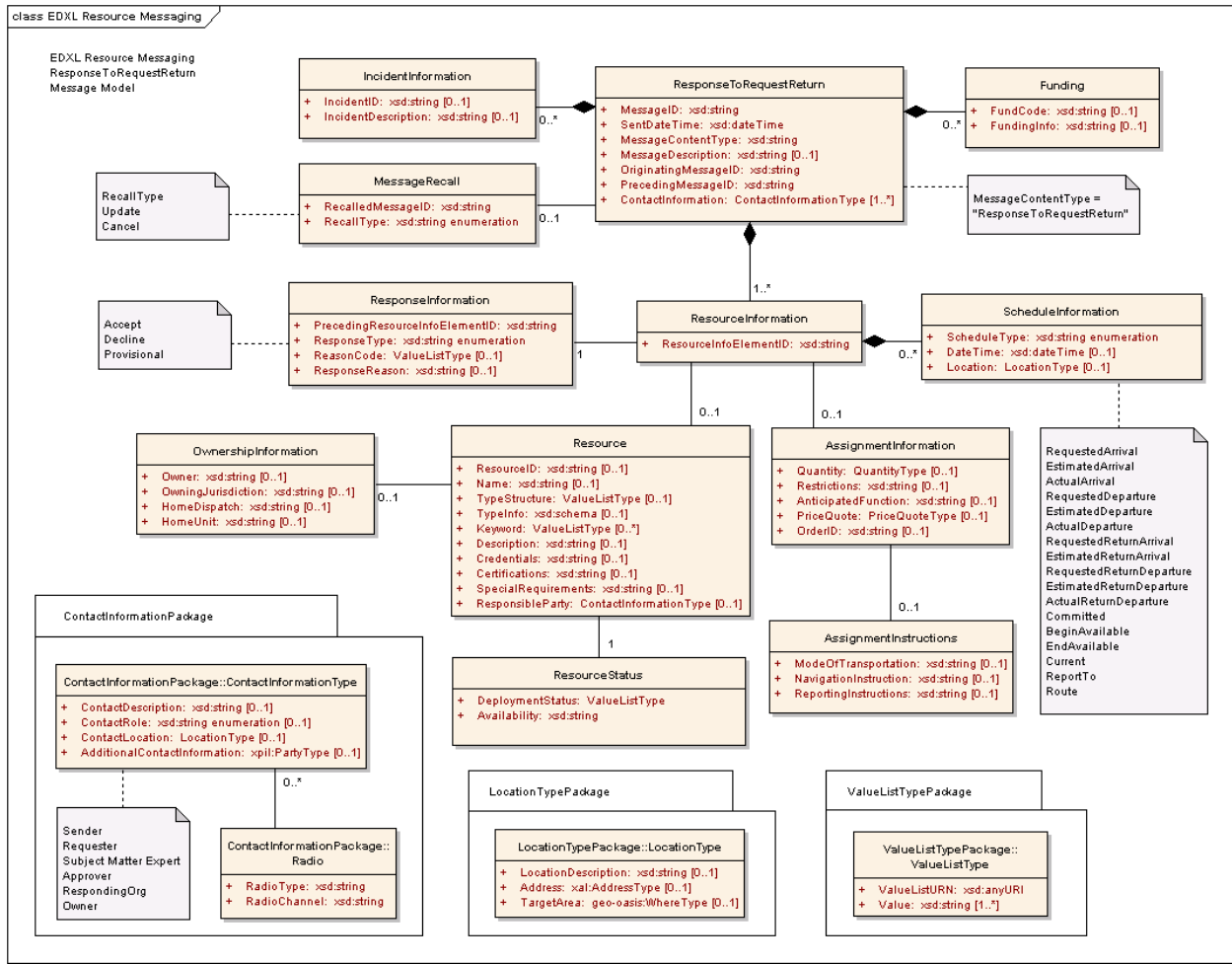


Figure 13: EDXL-RM ERM for ResponseToRequestReturn Message

2074
2075
2076
2077

2078 The following table outlines the element cardinalities for this message type.

2079

2080

Table 13: ResponseToRequestReturn Message Elements

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

2081

2082 3.13.3 ResponseToRequestReturn Message Rules

2083 The following rules apply to the above elements:

- 2084 • The ResponseToRequestReturn:MessageID, ResponseToRequestReturn:SentDateTime,
2085 ResponseToRequestReturn:MessageContentType,
2086 ResponseToRequestReturn:OriginatingMessageID,
2087 ResponseToRequestReturn:PrecedingMessageID,
2088 ResponseToRequestReturn:ContactInformation, and
2089 ResponseToRequestReturn:ResourceInformation elements MUST be present.
- 2090 • The value of ResponseToRequestReturn:MessageContentType MUST be
2091 "ResponseToRequestReturn".
- 2092 • If a ResponseToRequestReturn:IncidentInformation element is present, then at least one of
2093 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
2094 present.
- 2095 • If the ResponseToRequestReturn:MessageRecall element is present, then the
2096 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- 2097 • If a ResponseToRequestReturn:Funding element is present, then at least one of
2098 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2099 • The ResourceInformation:ResourceInfoElementID and
2100 ResourceInformation:ResponseInformation elements MUST be present.
- 2101 • The ResponseInformation:PrecedingResourceInfoElementID and
2102 ResponseInformation:ResponseType elements MUST be present.
- 2103 • If the ResponseInformation:ResponseType element has a value of “Provisional”, then at least one
2104 of ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2105 MUST be present.
- 2106 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
2107 MUST be present for each ResourceInformation:Resource element present.
- 2108 • The Resource:ResourceStatus element MUST be present for each
2109 ResourceInformation:Resource element present.
- 2110 • If a Resource:OwnershipInformation element is present, then at least one of
2111 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2112 be present.
- 2113 • The ResourceStatus:DeploymentStatus and ResourceStatus:Availability elements MUST be
2114 present.
- 2115 • If the ResourceInformation:ScheduleInformation element is present, then the
2116 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2117 values:
 - 2118 • “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”,
2119 “EstimatedDeparture”, “ActualDeparture”, RequestedReturnArrival”,
2120 “EstimatedReturnArrival”, “BeginAvailable”, “RequestedReturnDeparture”,
2121 “EstimatedReturnDeparture”, “ActualReturnDeparture”, “EndAvailable”, “Committed”,
2122 “Current”, “ReportTo” or “Route.”

2123

2124 The schema for a ResponseToRequestReturn message can be found in Appendix A.12.

2125 **3.13.4 Message Flow**

2126 The ResponseToRequestReturn message is sent by a Resource Consumer in response to an original
2127 RequestReturn message sent by the Resource Supplier.

2128 The potential responses to this message include:

- 2129 • RequestReturn (See Section 3.12)
- 2130 • The Supplier may send this response when the Consumer has specified return conditions with
2131 which the Supplier is not in agreement.

2132 The message will typically be followed by a ReleaseResource message (See Section 3.11) when the
2133 Resource Consumer is ready to return the resource to the Resource Supplier.

2134 The message may be canceled or updated through the ResponseToRequestReturn:MessageRecall
2135 element.

2136

2137 **3.13.5 Message Example**

2138 Below is an example of a ResponseToRequestReturn message. This is an example response to the
2139 RequestReturn message shown in Section.3.12.5 The sender of the message is the original resource
2140 requester (Resource Consumer). The response is an “Accept” (i.e., the Resource Consumer agrees to
2141 return the resource according to the specified schedule).

2142

2143 [Note: The XML example shown in this section is informative only.]

```
2144 <?xml version="1.0" encoding="UTF-8"?>
2145 <ResponseToRequestReturn xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2146   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2147     EDXL-RMResponseToRequestReturn.xsd"
2148   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2149   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2150   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2151   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2152   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2153   <MessageID>urn:au-qld-eoc:997981</MessageID>
2154   <SentDateTime>2006-03-28T16:17:00+10:00</SentDateTime>
2155   <MessageContentType>ResponseToRequestReturn</MessageContentType>
2156   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2157   <PrecedingMessageID>urn:au-qld-eoc:997821</PrecedingMessageID>
2158   <IncidentInformation>
2159     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2160   </IncidentInformation>
2161   <ContactInformation>
2162     <rm:ContactRole>Sender</rm:ContactRole>
2163     <rm:AdditionalContactInformation>
2164       <xpil:PartyName>
2165         <xnl:PersonName>
2166           <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2167           <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2168         </xnl:PersonName>
2169         <xnl:OrganisationName>
2170           <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2171         </xnl:OrganisationName>
2172       </xpil:PartyName>
2173     </rm:AdditionalContactInformation>
2174   </ContactInformation>
2175   <ResourceInformation>
2176     <ResourceInfoElementID>001</ResourceInfoElementID>
2177     <ResponseInformation>
2178       <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2179       <rm:ResponseType>Accept</rm:ResponseType>
2180     </ResponseInformation>
2181   </ResourceInformation>
2182 </ResponseToRequestReturn>
```

2183

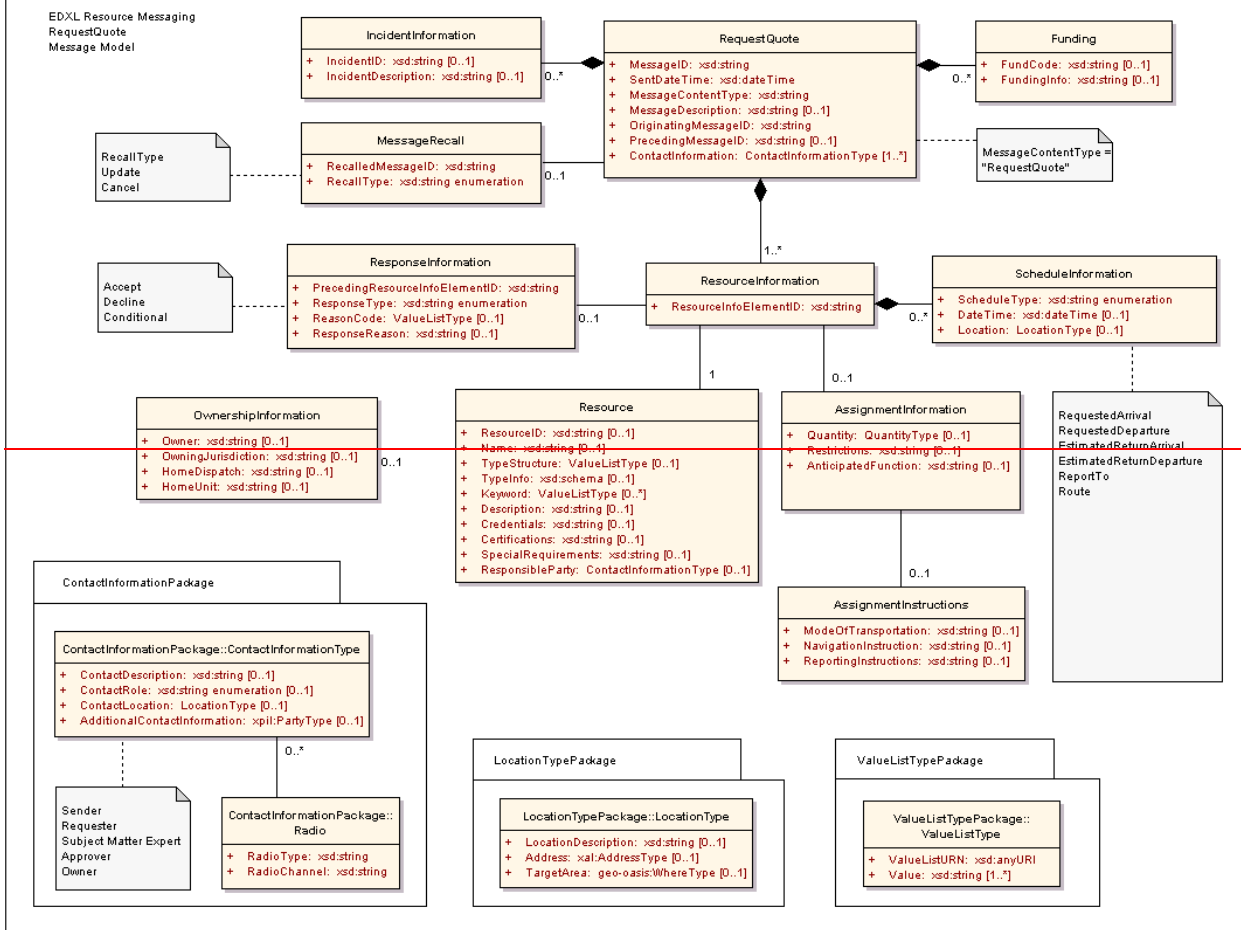
2184 **3.14 RequestQuote Message**

2185 **3.14.1 Overview**

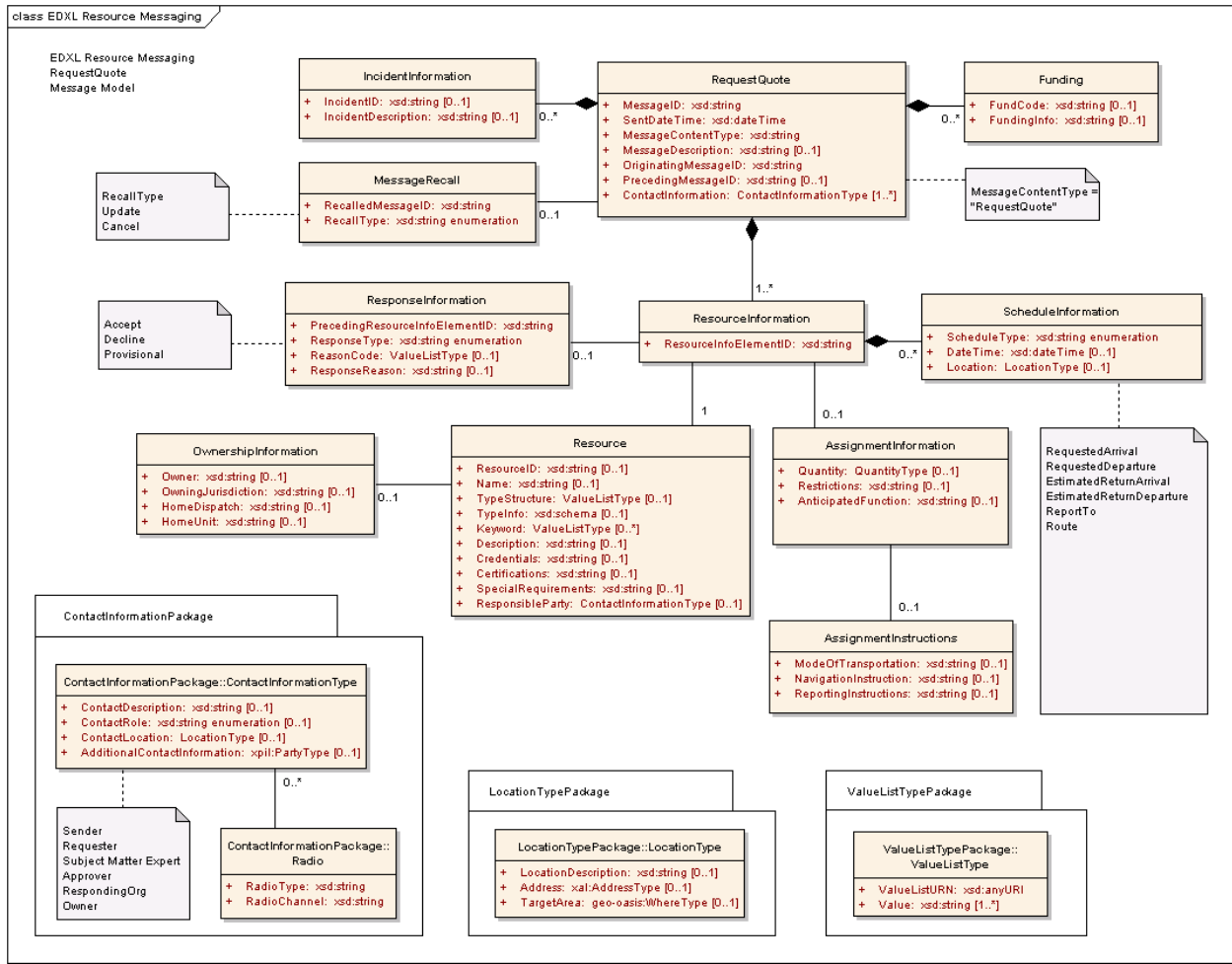
2186 The “RequestQuote” message is used by the Resource Consumer to request a price quote from the
2187 Resource Supplier.

2188 **3.14.2 Element Reference Model**

2189 Figure 14 below shows the EDXL–RM Element Reference Model (ERM) tailored for the RequestQuote
2190 Message. The ERM shows the element-level details for the main entities in the RM.



2191



2192
2193
2194
2195

Figure 14: EDXL-RM ERM for RequestQuote Message

2196 The following table outlines the element cardinalities for this message type.

2197

2198

Table 14: RequestQuote Message Elements

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

2199

2200 3.14.3 RequestQuote Message Rules

2201 The following rules apply to the above elements:

- 2202 • The RequestQuote:MessageID, RequestQuote:SentDateTime,
2203 RequestQuote:MessageContentType, RequestQuote:OriginatingMessageID,
2204 RequestQuote:ContactInformation, and RequestQuote:ResourceInformation elements MUST be
2205 present.
- 2206 • The value of RequestQuote:MessageContentType MUST be "RequestQuote".
- 2207 • If a RequestQuote:IncidentInformation element is present, then at least one of
2208 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
2209 present.
- 2210 • If the RequestQuote:MessageRecall element is present, then the
2211 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2212 • If a RequestQuote:Funding element is present, then at least one of Funding:FundCode and/or
2213 Funding:FundingInfo elements MUST be present.
- 2214 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2215 MUST be present.

- 2216 • If the ResourceInformation:ResponseInformation element is present, then the
2217 ResponseInformation:PrecedingResourceInfoElementID" and
2218 "ResponseInformation:ResponseType MUST be present.
- 2219 • If ResponseInformation:ResponseType has a value of "Conditional", then at least one of
2220 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2221 MUST be present.
- 2222 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
2223 MUST be present for each ResourceInformation:Resource element present.
- 2224 • If a Resource:OwnershipInformation element is present, then at least one of
2225 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2226 be present.
- 2227 • If the ResourceInformation:ScheduleInformation element is present, then the
2228 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2229 values:
 - 2230 • "RequestedArrival", "RequestedDeparture", "EstimatedReturnDeparture",
2231 "EstimatedReturnArrival", "ReportTo" or "Route".

2232

2233 The schema for a RequestQuote message can be found in Appendix A.13.

2234 3.14.4 Message Flow

2235 The RequestQuote message is usually an initial message created and sent by the Resource Consumer to
2236 any number of Resource Suppliers.

2237 The potential responses to this message include:

- 2238 • ResponseToRequestQuote (See [3.153-3.142](#))
- 2239 • This includes Accept, Decline, and Provisional responses.

2240 The message may be canceled or updated through the RequestQuote:MessageRecall element.

2241

2242 3.14.5 Message Example

2243 Below is an example RequestQuote message. This message requests quotes for a "Debris Management
2244 Team" (ResourceInfoElementID=001) and two "All Terrain Cranes" (ResourceInfoElementID=002).

2245

2246 [Note: The XML example shown in this section is informative only.]

```

2247 <?xml version="1.0" encoding="UTF-8"??>
2248 <RequestQuote xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2249   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2250     EDXL-RMRequestQuote.xsd"
2251   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2252   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2253   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2254   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2255   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2256 <MessageID>urn:au-qld-eoc:77388</MessageID>
2257 <SentDateTime>2006-03-30T10:45:00+10:00</SentDateTime>
2258 <MessageContentType>RequestQuote</MessageContentType>
2259 <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
2260 <IncidentInformation>
2261   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2262 </IncidentInformation>
2263 <ContactInformation>
2264   <rm:ContactRole>Sender</rm:ContactRole>
2265   <rm:AdditionalContactInformation>

```

```

2266 <xpil:PartyName>
2267   <xnl:PersonName>
2268     <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2269     <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2270   </xnl:PersonName>
2271   <xnl:OrganisationName>
2272     <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2273   </xnl:OrganisationName>
2274 </xpil:PartyName>
2275 <xpil:ContactNumbers>
2276   <xpil:ContactNumber xpil:CommunicationMediaType="Telephone"
2277     xpil:ContactHours="9:00AM - 5:00PM">
2278     <xpil:ContactNumberElement
2279       xpil:Type="CountryCode">61</xpil:ContactNumberElement>
2280     <xpil:ContactNumberElement xpil:Type="AreaCode">7</xpil:ContactNumberElement>
2281     <xpil:ContactNumberElement xpil:Type="LocalNumber">
2282       3000
2283       1234
2284     </xpil:ContactNumberElement>
2285   </xpil:ContactNumber>
2286 </xpil:ContactNumbers>
2287 <xpil:ElectronicAddressIdentifiers>
2288   <xpil:ElectronicAddressIdentifier>alexj@emergencyservices.gov.au
2289   </xpil:ElectronicAddressIdentifier>
2290 </xpil:ElectronicAddressIdentifiers>
2291 </rm:AdditionalContactInformation>
2292 </ContactInformation>
2293 <ResourceInformation>
2294   <ResourceInfoElementID>001</ResourceInfoElementID>
2295 <Resource>
2296   <TypeStructure>
2297     <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2298     <rm:Value>Debris Management Team</rm:Value>
2299   </TypeStructure>
2300   <Description>
2301     5 person team to clear roads of debris incl. fallen trees. </Description>
2302   <SpecialRequirements>
2303     Team to supply own equipment, such as trucks and chainsaws
2304   </SpecialRequirements>
2305 </Resource>
2306 <AssignmentInformation>
2307   <Quantity>
2308     <rm:MeasuredQuantity>
2309       <rm:Amount>1</rm:Amount>
2310     </rm:MeasuredQuantity>
2311   </Quantity>
2312 <AssignmentInstructions>
2313   <rm:ModeOfTransportation>Team's own trucks</rm:ModeOfTransportation>
2314 </AssignmentInstructions>
2315 </AssignmentInformation>
2316 <ScheduleInformation>
2317   <ScheduleType>ReportTo</ScheduleType>
2318   <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2319 <Location>
2320   <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2321   <rm:Address>
2322     <xal:Country>
2323       <xal:NameElement>Australia</xal:NameElement>
2324     </xal:Country>
2325     <xal:AdministrativeArea>
2326       <xal:NameElement>QLD</xal:NameElement>
2327     </xal:AdministrativeArea>
2328     <xal:Locality>
2329       <xal:NameElement>Innisfail</xal:NameElement>
2330     </xal:Locality>
2331     <xal:Thoroughfare>
2332       <xal:NameElement>Rankin St</xal:NameElement>
2333       <xal:Number>70</xal:Number>
2334     </xal:Thoroughfare>
2335   </rm:Address>
2336 </Location>

```

```

2337     </ScheduleInformation>
2338     <ScheduleInformation>
2339         <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2340         <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2341     </ScheduleInformation>
2342 </ResourceInformation>
2343 <ResourceInformation>
2344     <ResourceInfoElementID>002</ResourceInfoElementID>
2345     <Resource>
2346         <TypeStructure>
2347             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2348             <rm:Value>All Terrain Crane</rm:Value>
2349         </TypeStructure>
2350         <Description> Crane with minimum boom reach of 150 feet. </Description>
2351     </Resource>
2352     <AssignmentInformation>
2353         <Quantity>
2354             <rm:MeasuredQuantity>
2355                 <rm:Amount>2</rm:Amount>
2356             </rm:MeasuredQuantity>
2357         </Quantity>
2358     </AssignmentInformation>
2359     <ScheduleInformation>
2360         <ScheduleType>ReportTo</ScheduleType>
2361         <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2362         <Location>
2363             <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2364             <rm:Address>
2365                 <xal:Country>
2366                     <xal:NameElement>Australia</xal:NameElement>
2367                 </xal:Country>
2368                 <xal:AdministrativeArea>
2369                     <xal:NameElement>QLD</xal:NameElement>
2370                 </xal:AdministrativeArea>
2371                 <xal:Locality>
2372                     <xal:NameElement>Innisfail</xal:NameElement>
2373                 </xal:Locality>
2374                 <xal:Thoroughfare>
2375                     <xal:NameElement>Rankin St</xal:NameElement>
2376                     <xal:Number>70</xal:Number>
2377                 </xal:Thoroughfare>
2378             </rm:Address>
2379         </Location>
2380     </ScheduleInformation>
2381     <ScheduleInformation>
2382         <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2383         <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2384     </ScheduleInformation>
2385 </ResourceInformation>
2386 </RequestQuote>

```

2387

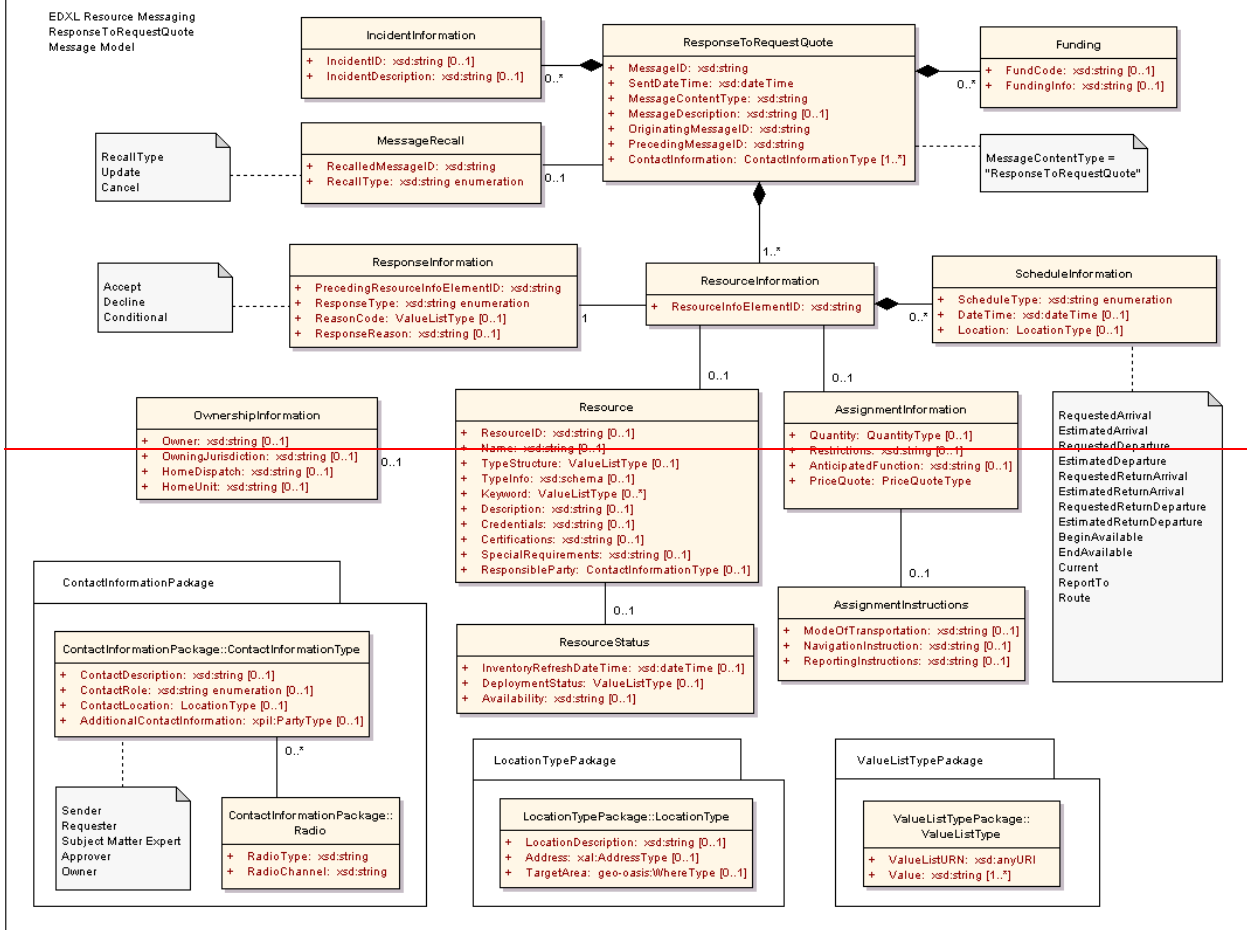
2388 **3.15 ResponseToRequestQuote Message**

2389 **3.15.1 Overview**

2390 The “ResponseToRequestQuote” message is used by the Resource Supplier to respond to a
2391 RequestQuote Message. The supplier may respond with pricing or decline to respond with pricing (i.e. a
2392 response that says that the Resource Supplier is unable to supply a requested quote). The Resource
2393 Supplier may provide quotes for several alternative resources that match a single resource request.

2394 **3.15.2 Element Reference Model**

2395 Figure 15 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
2396 ResponseToRequestQuote Message. The ERM shows the element-level details for the main entities in
2397 the RM.



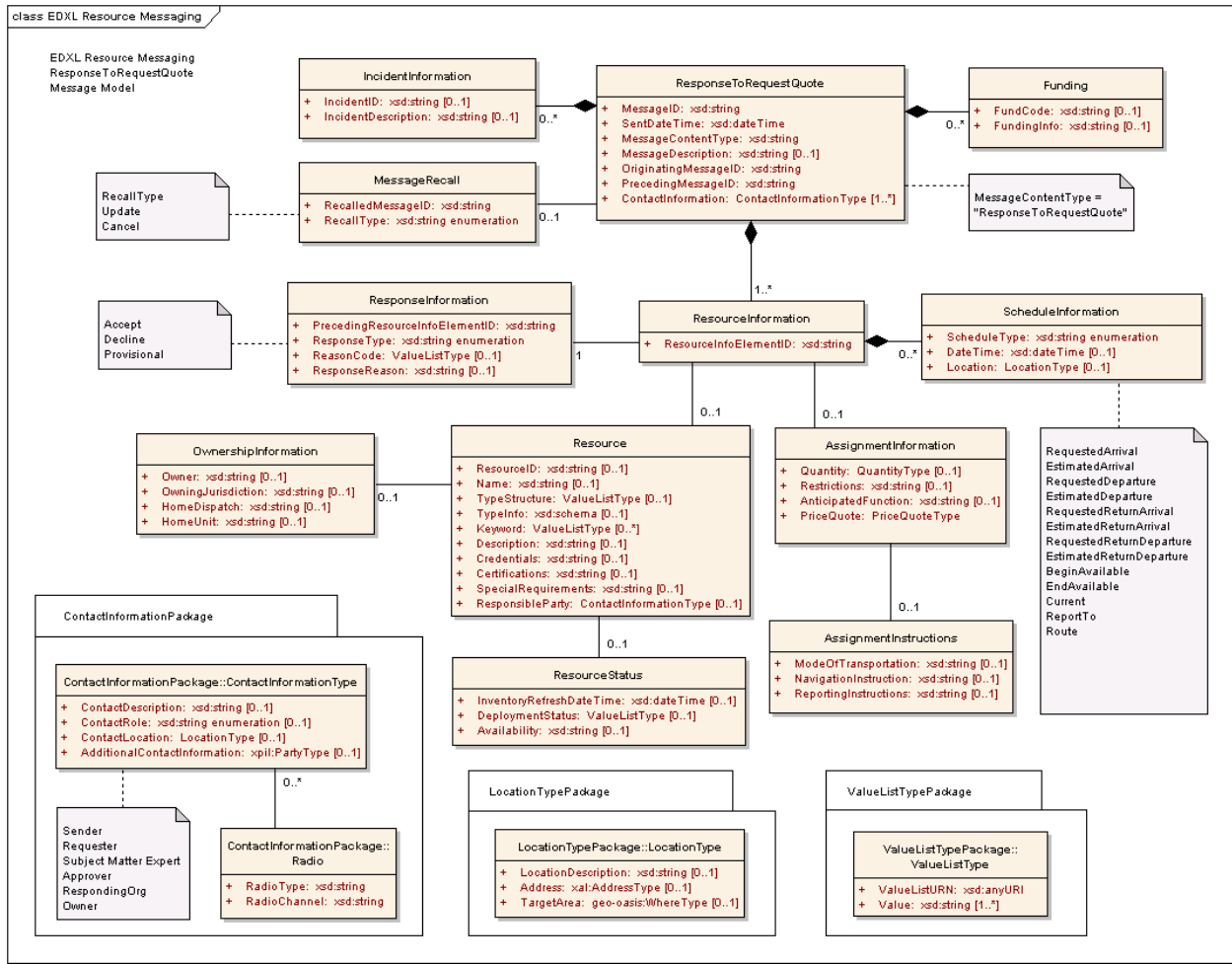


Figure 15: EDXL-RM ERM for ResponseToRequestQuote Message

2399

2400

2401

2402

2403 The following table outlines the element cardinalities for this message type.

2404

2405

Table 15: ResponseToRequestQuote Message Elements

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

2406

2407 3.15.3 ResponseToRequestQuote Message Rules

2408 The following rules apply to the above elements:

- 2409 • The ResponseToRequestQuote:MessageID, ResponseToRequestQuote:SentDateTime,
2410 ResponseToRequestQuote:MessageContentType,
2411 ResponseToRequestQuote:OriginatingMessageID,
2412 ResponseToRequestQuote:PrecedingMessageID,
2413 ResponseToRequestQuote:ContactInformation, and
2414 ResponseToRequestQuote:ResourceInformation elements MUST be present.
- 2415 • The value of ResponseToRequestQuote:MessageContentType MUST be "ResponseToRequest
2416 Quote".
- 2417 • If a ResponseToRequestQuote:IncidentInformation element is present, then at least one of
2418 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
2419 present.
- 2420 • If the ResponseToRequestQuote:MessageRecall element is present, then the
2421 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- 2422 • If a ResponseToRequestQuote:Funding element is present, then at least one of
2423 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2424 • The ResourceInformation:ResourceInfoElementID and
2425 ResourceInformation:ResponseInformation elements MUST be present.
- 2426 • If the ResponseInformation:ResponseType element has a value of “Accept” or “Provisional”, then
2427 the ResourceInformation:Resource element MUST be present.
- 2428 • The ResponseInformation:PrecedingResourceInfoElementID and
2429 ResponseInformation:ResponseType elements MUST be present.
- 2430 • If ResponseInformation:ResponseType has a value of “Provisional”, at least one of
2431 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2432 MUST be present.
- 2433 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements
2434 MUST be present for each ResourceInformation:Resource element present.
- 2435 • If a Resource:OwnershipInformation element is present, then at least one of
2436 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction element MUST be
2437 present.
- 2438 • If a ResourceInformation:AssignmentInformation element is present, then the
2439 AssignmentInformation:PriceQuote element MUST be present.
- 2440 • If the ResourceInformation:ScheduleInformation element is present, then the
2441 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2442 values:
 - 2443 • “EstimatedArrival”, “RequestedArrival”, “RequestedDeparture”, “EstimatedDeparture”,
2444 “RequestedReturnDeparture”, “EstimatedReturnDeparture”, “RequestedReturnArrival”,
2445 “EstimatedReturnArrival”, “BeginAvailable”, “EndAvailable”, “Current”, “ReportTo” or “Route”.
- 2446
- 2447 The schema for a ResponseToRequestQuote message can be found in Appendix A.14.

2448 3.15.4 Message Flow

2449 The ResponseToRequestQuote message is sent by the Resource Supplier to the Resource Consumer in
2450 response to a RequestQuote message.

2451 The potential responses to this message include:

- 2452 • Request Information (See Section 3.8)
- 2453 • RequisitionResource (See Section 3.6).

2454 The message may be canceled or updated through the ResponseToRequestQuote:MessageRecall
2455 element.

2456

2457 3.15.5 Message Example

2458 Below is an example ResponseToRequestQuote message. The message is a possible response to the
2459 RequestQuote message shown in Section 3.14.5. The first quote request (“Debris Management Team”,
2460 ResourceInfoElementID=001) is accepted, while the second (“All Terrain Crane”,
2461 ResourceInfoElementID=002) is declined.

2462

2463 [Note: The XML example shown in this section is informative only.]

```
2464 <?xml version="1.0" encoding="UTF-8"?>
2465 <ResponseToRequestQuote xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2466     xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
```

```

2467     EDXL-RMResponseToRequestQuote.xsd"
2468     xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2469     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2470     xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2471     xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2472     xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2473     <MessageID>urn:au-qld-eoc:77396</MessageID>
2474     <SentDateTime>2006-03-28T14:48:00+10:00</SentDateTime>
2475     <MessageContentType>ResponseToRequestQuote</MessageContentType>
2476     <MessageDescription>
2477         This message provides a quote for the services of a debris management team
2478         for the requested period of 3 weeks. We do not have any all-terrain cranes, and
2479         therefore unable to quote on this element of the request.
2480     </MessageDescription>
2481     <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
2482     <PrecedingMessageID>urn:au-qld-eoc:77388</PrecedingMessageID>
2483     <IncidentInformation>
2484         <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2485     </IncidentInformation>
2486     <ContactInformation>
2487         <rm:ContactRole>Sender</rm:ContactRole>
2488         <rm:AdditionalContactInformation>
2489             <xpil:PartyName>
2490                 <xnl:PersonName>
2491                     <xnl:NameElement xnl:ElementType="FirstName">Alison</xnl:NameElement>
2492                     <xnl:NameElement xnl:ElementType="LastName">Smith</xnl:NameElement>
2493                 </xnl:PersonName>
2494                 <xnl:OrganisationName>
2495                     <xnl:NameElement>QBuild</xnl:NameElement>
2496                 </xnl:OrganisationName>
2497             </xpil:PartyName>
2498         </rm:AdditionalContactInformation>
2499     </ContactInformation>
2500     <ContactInformation>
2501         <rm:ContactRole>Requester</rm:ContactRole>
2502         <rm:AdditionalContactInformation>
2503             <xpil:PartyName>
2504                 <xnl:PersonName>
2505                     <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2506                     <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2507                 </xnl:PersonName>
2508                 <xnl:OrganisationName>
2509                     <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2510                 </xnl:OrganisationName>
2511             </xpil:PartyName>
2512         </rm:AdditionalContactInformation>
2513     </ContactInformation>
2514     <ResourceInformation>
2515         <ResourceInfoElementID>001</ResourceInfoElementID>
2516         <ResponseInformation>
2517             <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2518             <rm:ResponseType>Accept</rm:ResponseType>
2519         </ResponseInformation>
2520         <Resource>
2521             <TypeStructure>
2522                 <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2523                 <rm:Value>Debris Management Team</rm:Value>
2524             </TypeStructure>
2525             <Description>
2526                 5 person team to clear roads of debris incl. fallen trees. </Description>
2527             <SpecialRequirements>
2528                 Team to supply own equipment, such as trucks and chainsaws
2529             </SpecialRequirements>
2530         </Resource>
2531         <AssignmentInformation>
2532             <Quantity>
2533                 <rm:MeasuredQuantity>
2534                     <rm:Amount>1</rm:Amount>
2535                 </rm:MeasuredQuantity>
2536             </Quantity>
2537             <PriceQuote>

```

2538 <rm:QuantityText>Daily rate: \$2100</rm:QuantityText>
2539 <rm:QuantityText>Total before tax: \$31500</rm:QuantityText>
2540 <rm:QuantityText>Tax: \$3150</rm:QuantityText>
2541 <rm:QuantityText>Total including tax: \$34650</rm:QuantityText>
2542 <rm:QuantityText>
2543 NOTES: Accommodation for the team will be organised and paid by us. Team will
2544 work Mon-Fri for 3 weeks.Total including tax: \$34650</rm:QuantityText>
2545 </PriceQuote>
2546 </AssignmentInformation>
2547 <ScheduleInformation>
2548 <ScheduleType>BeginAvailable</ScheduleType>
2549 <DateTime>2006-03-31T15:00:00+10:00</DateTime>
2550 </ScheduleInformation>
2551 <ScheduleInformation>
2552 <ScheduleType>ReportTo</ScheduleType>
2553 <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2554 <Location>
2555 <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2556 <rm:Address>
2557 <xal:Country>
2558 <xal:NameElement>Australia</xal:NameElement>
2559 </xal:Country>
2560 <xal:AdministrativeArea>
2561 <xal:NameElement>QLD</xal:NameElement>
2562 </xal:AdministrativeArea>
2563 <xal:Locality>
2564 <xal:NameElement>Innisfail</xal:NameElement>
2565 </xal:Locality>
2566 <xal:Thoroughfare>
2567 <xal:NameElement>Rankin St</xal:NameElement>
2568 <xal:Number>70</xal:Number>
2569 </xal:Thoroughfare>
2570 </rm:Address>
2571 </Location>
2572 </ScheduleInformation>
2573 <ScheduleInformation>
2574 <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2575 <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2576 </ScheduleInformation>
2577 </ResourceInformation>
2578 <ResourceInformation>
2579 <ResourceInfoElementID>002</ResourceInfoElementID>
2580 <ResponseInformation>
2581 <rm:PrecedingResourceInfoElementID>002</rm:PrecedingResourceInfoElementID>
2582 <rm:ResponseType>Decline</rm:ResponseType>
2583 </ResponseInformation>
2584 </ResourceInformation>
2585 </ResponseToRequestQuote>

2586

2587 **3.16 RequestResourceDeploymentStatus Message**

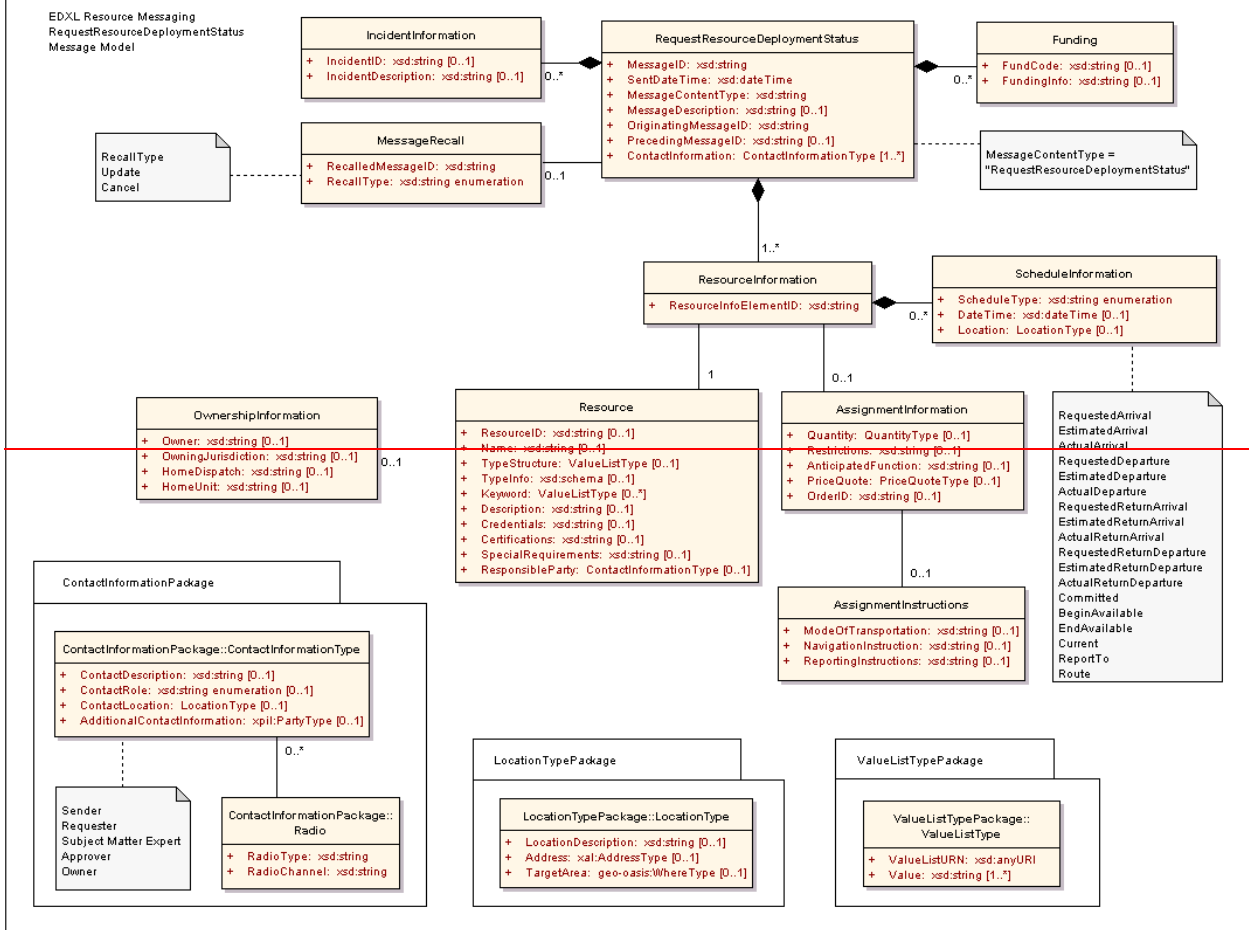
2588 **3.16.1 Overview**

2589 The “RequestResourceDeploymentStatus” message is used to request the current status of one or more
2590 deployed resources. It can be sent by the Resource Supplier to the Resource Consumer (e.g., to check
2591 the status of the resource after a “ReleaseResource” message) or by the Resource Consumer to the
2592 Resource Supplier (e.g., to track the progress of a resource after a “RequisitionResource” message).

2593 **3.16.2 Element Reference Model**

2594 Figure 16 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
2595 RequestResourceDeploymentStatus Message. The ERM shows the element-level details for the main
2596 entities in the RM.

class EDXL Resource Messaging



2597

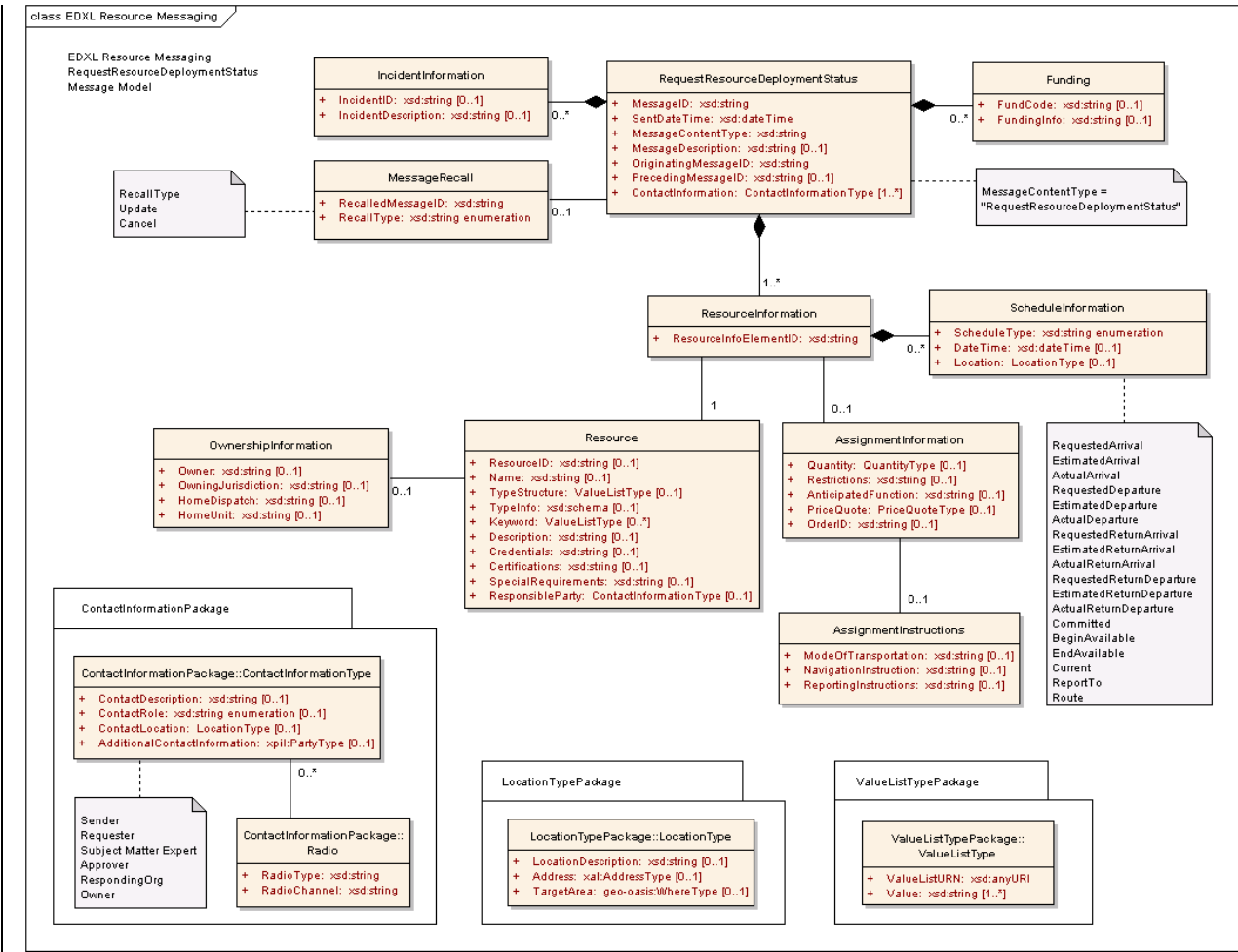


Figure 16: EDXL-RM ERM for RequestResourceDeploymentStatus Message

2598

2599

2600

2601

2602 The following table outlines the element cardinalities for this message type.

2603

2604

Table 16: RequestResourceDeploymentStatus Message Elements

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

2605

2606 3.16.3 RequestResourceDeploymentStatus Message Rules

2607 The following rules apply to the above elements:

- 2608 • The RequestResourceDeploymentStatus:MessageID,
2609 RequestResourceDeploymentStatus:SentDateTime,
2610 RequestResourceDeploymentStatus:MessageContentType,
2611 RequestResourceDeploymentStatus:OriginatingMessageID,
2612 RequestResourceDeploymentStatus:ContactInformation, and
2613 RequestResourceDeploymentStatus:ResourceInformation elements MUST be present.
- 2614 • The value of RequestResourceDeploymentStatus:MessageContentType MUST be
2615 "RequestResourceDeploymentStatus".
- 2616 • If a RequestResourceDeploymentStatus:IncidentInformation element is present, then at least one
2617 of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST
2618 be present.
- 2619 • If the RequestResourceDeploymentStatus:MessageRecall element is present, then the
2620 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2621 • If a RequestResourceDeploymentStatus:Funding element is present, then at least one of
2622 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2623 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2624 MUST be present.

- 2625 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element
2626 MUST be present for each ResourceInformation:Resource element present.
- 2627 • If a Resource:OwnershipInformation element is present, then at least one of
2628 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2629 be present.
- 2630 • If the ResourceInformation:ScheduleInformation element is present, then the
2631 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2632 values:
 - 2633 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
2634 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
2635 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
2636 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable", "Committed",
2637 "Current", "ReportTo" or "Route".
- 2638
- 2639 The schema for a RequestResourceDeploymentStatus message can be found in Appendix A.15.

2640 3.16.4 Message Flow

- 2641 The RequestResourceDeploymentStatus message can be sent from the Resource Supplier to the
2642 Resource Consumer, or from the Resource Consumer to the Resource Supplier, any time after a
2643 resource is requisitioned or committed.
- 2644 The potential responses to this message include:
 - 2645 • ReportResourceDeploymentStatus (See Section 3.17)
 - 2646 • This may include Accept, Decline, and Provisional responses.
- 2647 The message may be canceled or updated through the
2648 RequestResourceDeploymentStatus:MessageRecall element.
- 2649

2650 3.16.5 Message Example

- 2651 Below is an example RequestResourceDeploymentStatus message. This message requests the
2652 deployment status of the "Small Animal Sheltering Team"; it follows on from the example
2653 CommitResource message in Section 3.7.5, and precedes the ReleaseResource message in Section
2654 3.11.5 .

2655
2656 [Note: The XML example shown in this section is informative only.]

```

2657 <?xml version="1.0" encoding="UTF-8"??>
2658 <RequestResourceDeploymentStatus xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2659   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2660     EDXL-RMRequestResourceDeploymentStatus.xsd"
2661   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2662   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2663   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2664   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2665   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2666   <MessageID>urn:au-qld-eoc:997958</MessageID>
2667   <SentDateTime>2006-03-25T09:05:00+10:00</SentDateTime>
2668   <MessageContentType>RequestResourceDeploymentStatus</MessageContentType>
2669   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2670   <IncidentInformation>
2671     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2672   </IncidentInformation>
2673   <ContactInformation>
2674     <rm:ContactRole>Sender</rm:ContactRole>
2675     <rm:AdditionalContactInformation>

```

```

2676     <xpil:PartyName>
2677         <xnl:PersonName>
2678             <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2679             <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2680         </xnl:PersonName>
2681         <xnl:OrganisationName>
2682             <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2683         </xnl:OrganisationName>
2684     </xpil:PartyName>
2685 </rm:AdditionalContactInformation>
2686 </ContactInformation>
2687 <ResourceInformation>
2688     <ResourceInfoElementID>001</ResourceInfoElementID>
2689     <Resource>
2690         <TypeStructure>
2691             <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2692             <rm:Value>Small Animal Sheltering Team</rm:Value>
2693         </TypeStructure>
2694     </Resource>
2695 </AssignmentInformation>
2696     <Quantity>
2697         <rm:MeasuredQuantity>
2698             <rm:Amount>1</rm:Amount>
2699         </rm:MeasuredQuantity>
2700     </Quantity>
2701 </AssignmentInformation>
2702 <ScheduleInformation>
2703     <ScheduleType>EstimatedArrival</ScheduleType>
2704     <DateTime>2006-03-25T09:30:00+10:00</DateTime>
2705     <Location>
2706         <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
2707     </Location>
2708 </ScheduleInformation>
2709 <ScheduleInformation>
2710     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2711     <DateTime>2006-03-30T17:00:00+10:00</DateTime>
2712 </ScheduleInformation>
2713 <ScheduleInformation>
2714     <ScheduleType>Committed</ScheduleType>
2715     <DateTime>2006-03-21T12:46:00+10:00</DateTime>
2716 </ScheduleInformation>
2717 </ResourceInformation>
2718 </RequestResourceDeploymentStatus>

```

2719

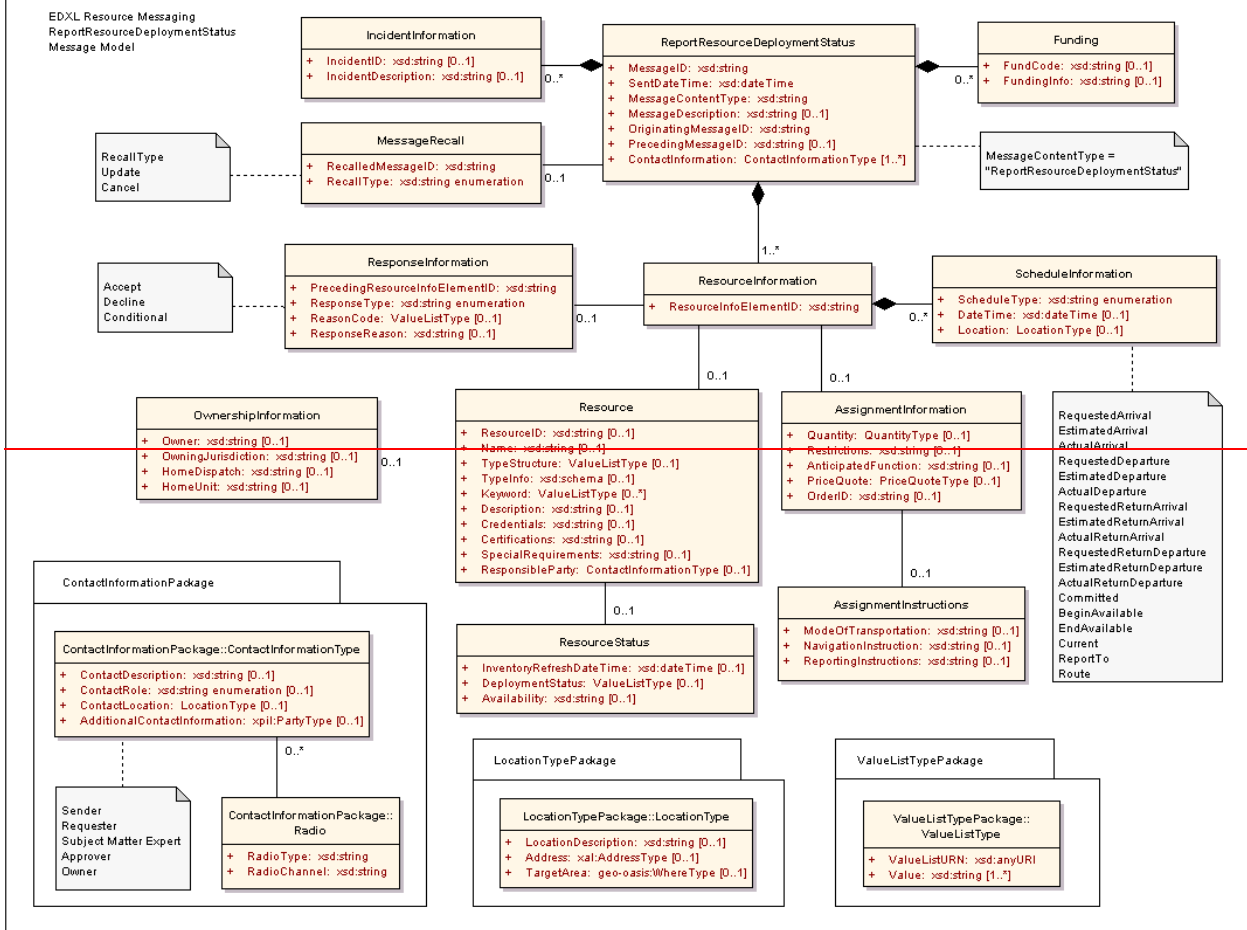
2720 **3.17 ReportResourceDeploymentStatus Message**

2721 **3.17.1 Overview**

2722 The “ReportResourceDeploymentStatus” message is used to report on the current status of any deployed
2723 resource. The message can be sent from the Resource Supplier to the Resource Consumer, or from the
2724 Resource Consumer to the Resource Supplier.

2725 **3.17.2 Element Reference Model**

2726 Figure 17 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
2727 ReportResourceDeploymentStatus Message. The ERM shows the element-level details for the main
2728 entities in the RM.



2729

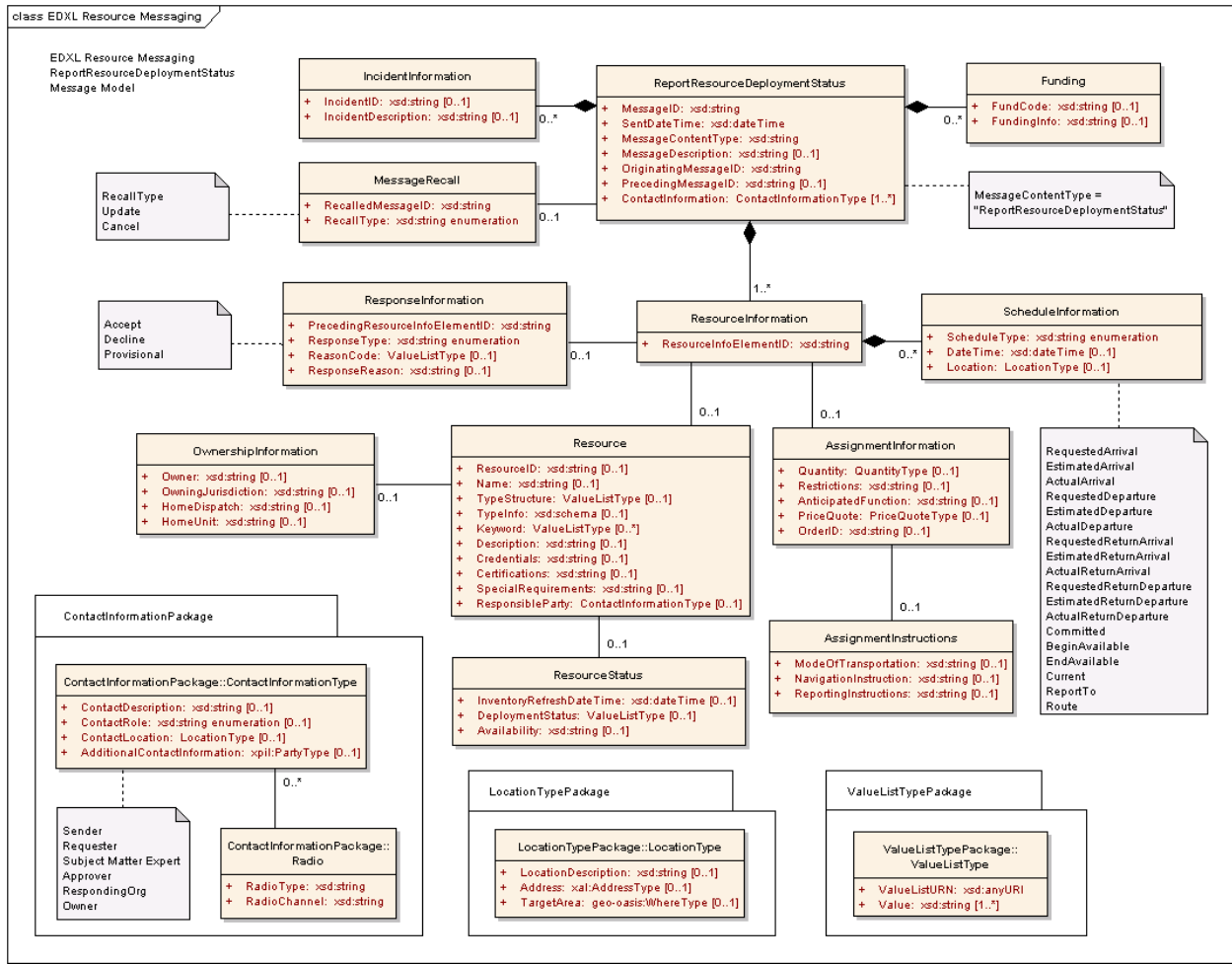


Figure 17: EDXL-RM ERM for ReportResourceDeploymentStatus Message

2730

2731

2732

2733

2734 The following table outlines the element cardinalities for this message type.

2735

2736

Table 17: ReportResourceDeploymentStatus Message Elements

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

2737

2738 3.17.3 ReportResourceDeploymentStatus Message Rules

2739 The following rules apply to the above elements:

- 2740 • The ReportResourceDeploymentStatus:MessageID,
2741 ReportResourceDeploymentStatus:SentDateTime,
2742 ReportResourceDeploymentStatus:MessageContentType,
2743 ReportResourceDeploymentStatus:OriginatingMessageID,
2744 ReportResourceDeploymentStatus:ContactInformation, and
2745 ReportResourceDeploymentStatus:ResourceInformation elements MUST be present.
- 2746 • The value of ReportResourceDeploymentStatus:MessageContentType MUST be
2747 "ReportResourceDeploymentStatus".
- 2748 • If a ReportResourceDeploymentStatus:IncidentInformation element is present, then at least one
2749 of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST
2750 be present.
- 2751 • If the ReportResourceDeploymentStatus:MessageRecall element is present, then the
2752 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

- 2753 • If a ReportResourceDeploymentStatus:Funding element is present, then at least one of
2754 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2755 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2756 MUST be present.
- 2757 • If the ResourceInformation:ResponseInformation element is present, then the
2758 ResponseInformation:PrecedingResourceInfoElementID and
2759 ResponseInformation:ResponseType elements MUST be present.
- 2760 • If the ResponseInformation:ResponseType element has a value of "Provisional", at least one of
2761 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
2762 MUST be present.
- 2763 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element
2764 MUST be present for each ResourceInformation:Resource element present.
- 2765 • If a Resource:OwnershipInformation element is present, then at least one of
2766 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2767 be present.
- 2768 • If the ResourceInformation:ScheduleInformation element is present, then the
2769 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2770 values:
 - 2771 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
 - 2772 "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
 - 2773 "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
 - 2774 "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", "EndAvailable", "Committed",
 - 2775 "Current", "ReportTo" or "Route".
- 2776
- 2777 The schema for a ReportResourceDeploymentStatus message can be found in Appendix A.16.

2778 3.17.4 Message Flow

- 2779 The ReportResourceDeploymentStatus message can be sent from the Resource Supplier to the
2780 Resource Consumer, or from the Resource Consumer to the Resource Supplier, any time after a
2781 resource is requisitioned or committed. The message MAY be sent in response to an earlier
2782 RequestResourceDeploymentStatus message. (See Section 3.16)
- 2783 The message may be canceled or updated through the EDXLResourceMessage:MessageRecall element.
2784

2785 3.17.5 Message Example

2786 Below is an example ReportResourceDeploymentStatus message. This message shows a possible
2787 response to the RequestResourceDeploymentStatus message in Section 3.16.

2788 [Note: The XML example shown in this section is informative only.]

```

2789 <?xml version="1.0" encoding="UTF-8"?>
2790 <ReportResourceDeploymentStatus xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2791   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2792     EDXL-RMReportResourceDeploymentStatus.xsd"
2793   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2794   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2795   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2796   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2797   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2798   <MessageID>urn:au-qld-eoc:997967</MessageID>
2799   <SentDateTime>2006-03-25T09:16:00+10:00</SentDateTime>
2800   <MessageContentType>ReportResourceDeploymentStatus</MessageContentType>
2801   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2802   <PrecedingMessageID>urn:au-qld-eoc:997958</PrecedingMessageID>

```

```

2803 <IncidentInformation>
2804   <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2805 </IncidentInformation>
2806 <ContactInformation>
2807   <rm:ContactRole>Sender</rm:ContactRole>
2808   <rm:AdditionalContactInformation>
2809     <xpil:PartyName>
2810       <xnl:PersonName>
2811         <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
2812         <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
2813       </xnl:PersonName>
2814       <xnl:OrganisationName>
2815         <xnl:NameElement>EMA</xnl:NameElement>
2816       </xnl:OrganisationName>
2817     </xpil:PartyName>
2818   </rm:AdditionalContactInformation>
2819 </ContactInformation>
2820 <ContactInformation>
2821   <rm:ContactRole>Requester</rm:ContactRole>
2822   <rm:AdditionalContactInformation>
2823     <xpil:PartyName>
2824       <xnl:PersonName>
2825         <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2826         <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2827       </xnl:PersonName>
2828       <xnl:OrganisationName>
2829         <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2830       </xnl:OrganisationName>
2831     </xpil:PartyName>
2832   </rm:AdditionalContactInformation>
2833 </ContactInformation>
2834 <ResourceInformation>
2835   <ResourceInfoElementID>001</ResourceInfoElementID>
2836   <ResponseInformation>
2837     <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
2838     <rm:ResponseType>Accept</rm:ResponseType>
2839   </ResponseInformation>
2840   <Resource>
2841     <TypeStructure>
2842       <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2843       <rm:Value>Small Animal Sheltering Team</rm:Value>
2844     </TypeStructure>
2845     <ResourceStatus>
2846       <DeploymentStatus>
2847         <rm:ValueListURN>urn:x-hazard:vocab:deploymentStatusTypes</rm:ValueListURN>
2848         <rm:Value>In Transit</rm:Value>
2849       </DeploymentStatus>
2850     </ResourceStatus>
2851   </Resource>
2852   <AssignmentInformation>
2853     <Quantity>
2854       <rm:MeasuredQuantity>
2855         <rm:Amount>1</rm:Amount>
2856       </rm:MeasuredQuantity>
2857     </Quantity>
2858   </AssignmentInformation>
2859   <ScheduleInformation>
2860     <ScheduleType>ActualDeparture</ScheduleType>
2861     <DateTime>2006-03-25T08:20:00+10:00</DateTime>
2862     <Location>
2863       <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2864     </Location>
2865   </ScheduleInformation>
2866   <ScheduleInformation>
2867     <ScheduleType>ActualArrival</ScheduleType>
2868     <DateTime>2006-03-25T09:00:00+10:00</DateTime>
2869     <Location>
2870       <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
2871     </Location>
2872   </ScheduleInformation>
2873 </ScheduleInformation>

```

2874
2875
2876
2877
2878
2879
2880
2881

```
<ScheduleType>EstimatedArrival</ScheduleType>  
<DateTime>2006-03-25T09:40:00+10:00</DateTime>  
<Location>  
  <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>  
</Location>  
</ScheduleInformation>  
</ResourceInformation>  
</ReportResourceDeploymentStatus>
```

2882

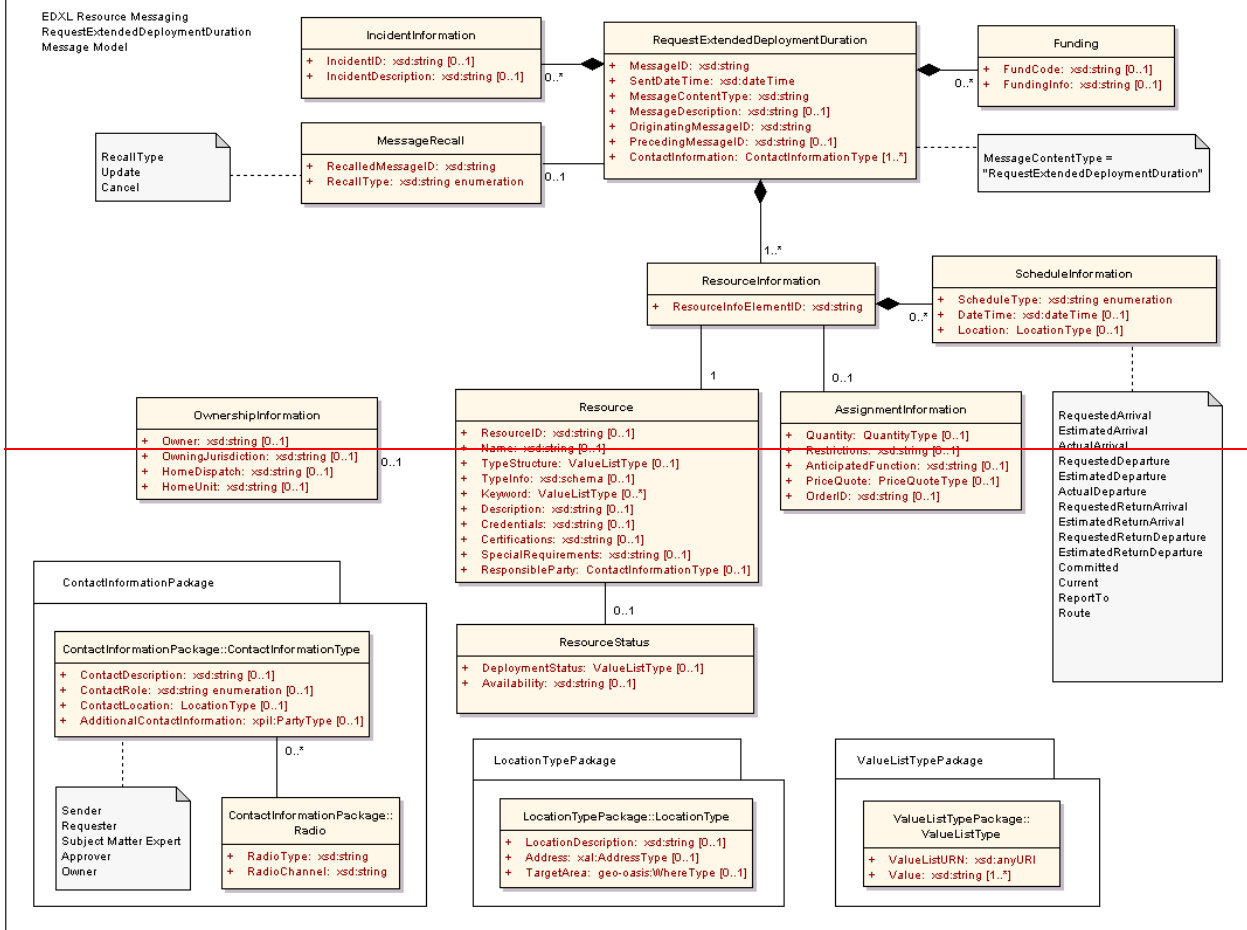
2883 **3.18 RequestExtendedDeploymentDuration**

2884 **3.18.1 Overview**

2885 The “RequestExtendedDeploymentDuration” message is sent by the Resource Consumer to the
2886 Resource Supplier when the Consumer wishes to retain one or more resources longer than previously
2887 agreed (e.g., in the original RequisitionResource and CommitResource messages).

2888 **3.18.2 Element Reference Model**

2889 Figure 18 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
2890 RequestExtendedDeploymentDuration Message. The ERM shows the element-level details for the main
2891 entities in the RM.



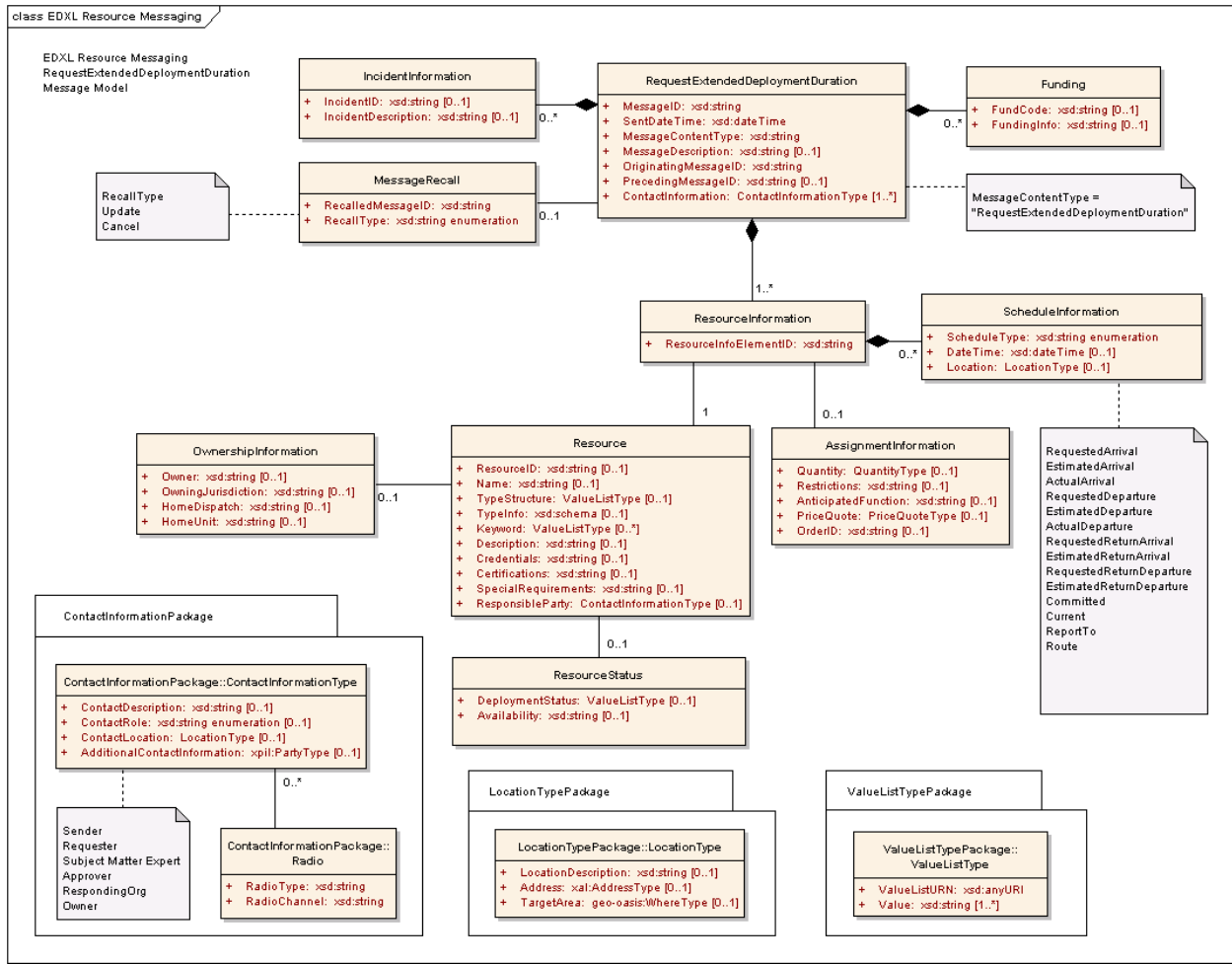


Figure 18: EDXL-RM ERM for RequestExtendedDeploymentDuration Message

2893

2894

2895

2896

2897 The following table outlines the element cardinalities for this message type.

2898

2899

Table 18: RequestExtendedDeploymentDuration Message Elements

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

2900

2901 3.18.3 RequestExtendedDeploymentDuration Message Rules

2902 The following rules apply to the above elements:

- 2903 • The RequestExtendedDeploymentDuration:MessageID,
2904 RequestExtendedDeploymentDuration:SentDateTime,
2905 RequestExtendedDeploymentDuration:MessageContentType,
2906 RequestExtendedDeploymentDuration:OriginatingMessageID,
2907 RequestExtendedDeploymentDuration:ContactInformation, and
2908 RequestExtendedDeploymentDuration:ResourceInformation elements MUST be present.
- 2909 • The value of RequestExtendedDeploymentDuration:MessageContentType MUST be
2910 "RequestExtendedDeploymentDuration".
- 2911 • If a RequestExtendedDeploymentDuration:IncidentInformation element is present, then at least
2912 one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements
2913 MUST be present.
- 2914 • If the RequestExtendedDeploymentDuration:MessageRecall element is present, then the
2915 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.
- 2916 • If a RequestExtendedDeploymentDuration:Funding element is present, then at least one of
2917 Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 2918 • The ResourceInformation:ResourceInfoElementID and ResourceInformation:Resource elements
2919 MUST be present.

- 2920 • At least one of Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure element
2921 MUST be present for each ResourceInformation:Resource element present.
- 2922 • If a Resource:OwnershipInformation element is present, then at least one of
2923 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
2924 be present.
- 2925 • If a ResourceInformation:ScheduleInformation element is present, then the
2926 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2927 values:
 - 2928 • "RequestedArrival", "EstimatedArrival", "ActualArrival", "RequestedDeparture",
2929 "EstimatedDeparture", "ActualDeparture", "RequestedReturnArrival",
2930 "EstimatedReturnArrival", "RequestedReturnDeparture", "EstimatedReturnDeparture",
2931 "Committed", "Current", "ReportTo"
2932 or "Route".
- 2933
- 2934 The schema for a RequestExtendedDeploymentDuration message can be found in Appendix A.17.

2935 3.18.4 Message Flow

- 2936 The RequestExtendedDeploymentDuration message is sent from the Resource Consumer to the
2937 Resource Supplier after the Commit Resource message and prior to the Release Resource message.
- 2938 The potential responses to this message include:
- 2939 • ResponseToRequestExtendedDeploymentDuration (See Section 3.19)
 - 2940 • This includes Accept, Decline and Provisional responses.
- 2941 The message may be canceled or updated through the
2942 RequestExtendedDeploymentDuration:MessageRecall element.
- 2943

2944 3.18.5 Message Example

- 2945 Below is an example RequestExtendedDeploymentDuration message. This message follows on from the
2946 CommitResource message in Section 3.7.5 and precedes the RequestReturn and ReleaseResource
2947 messages in Sections 3.12.5 and 3.11.5 respectively.
- 2948
- 2949 [Note: The XML example shown in this section is informative only.]

```

2950 <?xml version="1.0" encoding="UTF-8"?>
2951 <RequestExtendedDeploymentDuration xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2952   xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
2953     EDXL-RMRequestExtendedDeploymentDuration.xsd"
2954   xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
2955   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2956   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2957   xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2958   xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
2959   <MessageID>urn:au-qld-eoc:997814</MessageID>
2960   <SentDateTime>2006-03-22T16:38:00+10:00</SentDateTime>
2961   <MessageContentType>RequestExtendedDeploymentDuration</MessageContentType>
2962   <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2963   <IncidentInformation>
2964     <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2965   </IncidentInformation>
2966   <ContactInformation>
2967     <rm:ContactRole>Sender</rm:ContactRole>
2968     <rm:AdditionalContactInformation>
2969       <xpil:PartyName>
2970         <xnl:PersonName>
2971           <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>

```

2972 <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2973 </xnl:PersonName>
2974 <xnl:OrganisationName>
2975 <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2976 </xnl:OrganisationName>
2977 </xpil:PartyName>
2978 </rm:AdditionalContactInformation>
2979 </ContactInformation>
2980 <ResourceInformation>
2981 <ResourceInfoElementID>001</ResourceInfoElementID>
2982 <Resource>
2983 <TypeStructure>
2984 <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
2985 <rm:Value>Small Animal Sheltering Team</rm:Value>
2986 </TypeStructure>
2987 </Resource>
2988 <AssignmentInformation>
2989 <Quantity>
2990 <rm:MeasuredQuantity>
2991 <rm:Amount>1</rm:Amount>
2992 </rm:MeasuredQuantity>
2993 </Quantity>
2994 </AssignmentInformation>
2995 <ScheduleInformation>
2996 <ScheduleType>RequestedReturnArrival</ScheduleType>
2997 <DateTime>2006-04-07T17:00:00+10:00</DateTime>
2998 <Location>
2999 <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
3000 </Location>
3001 </ScheduleInformation>
3002 </ResourceInformation>
3003 </RequestExtendedDeploymentDuration>

3004

3005

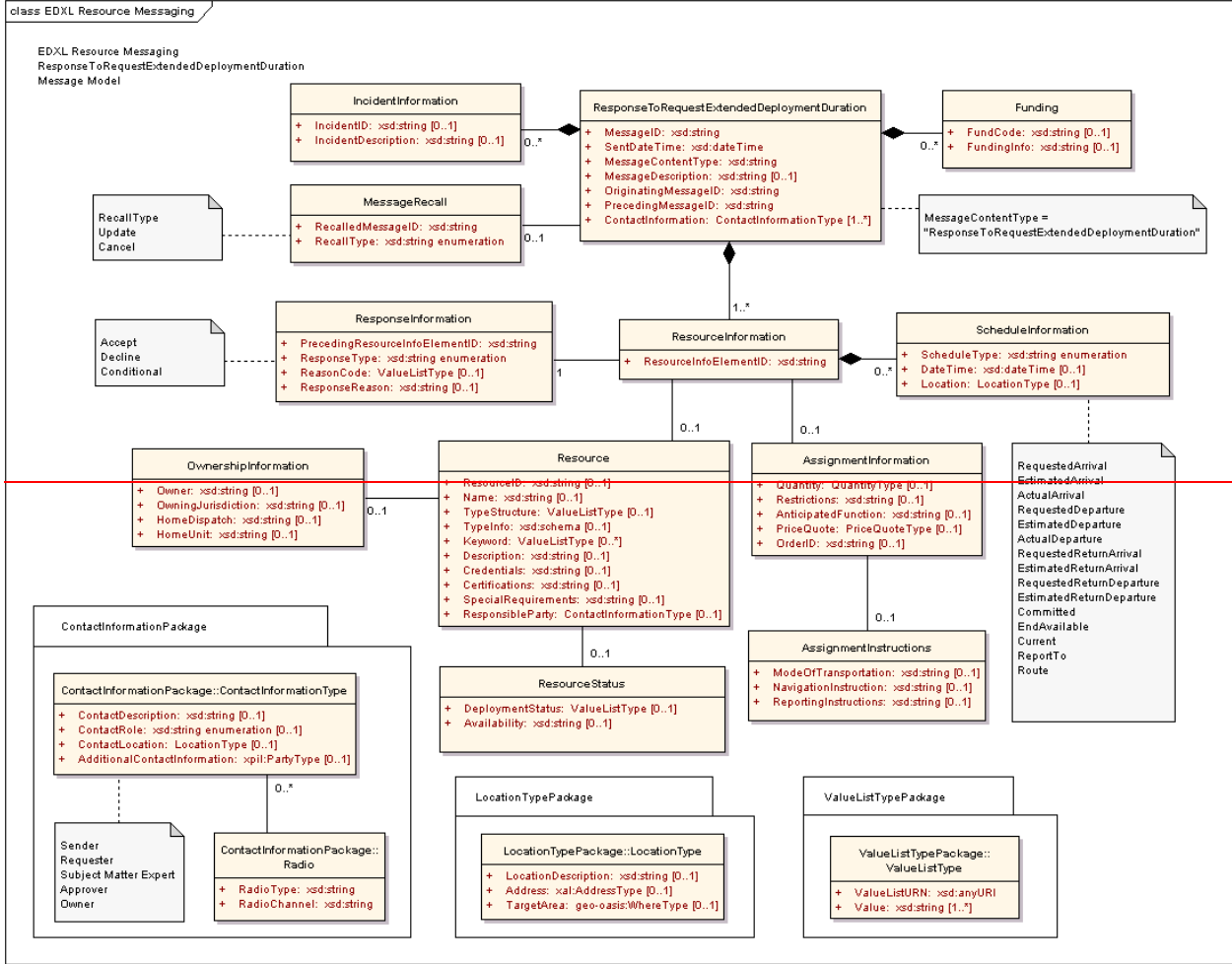
3006 **3.19 ResponseToRequestExtendedDeploymentDuration Message**

3007 **3.19.1 Overview**

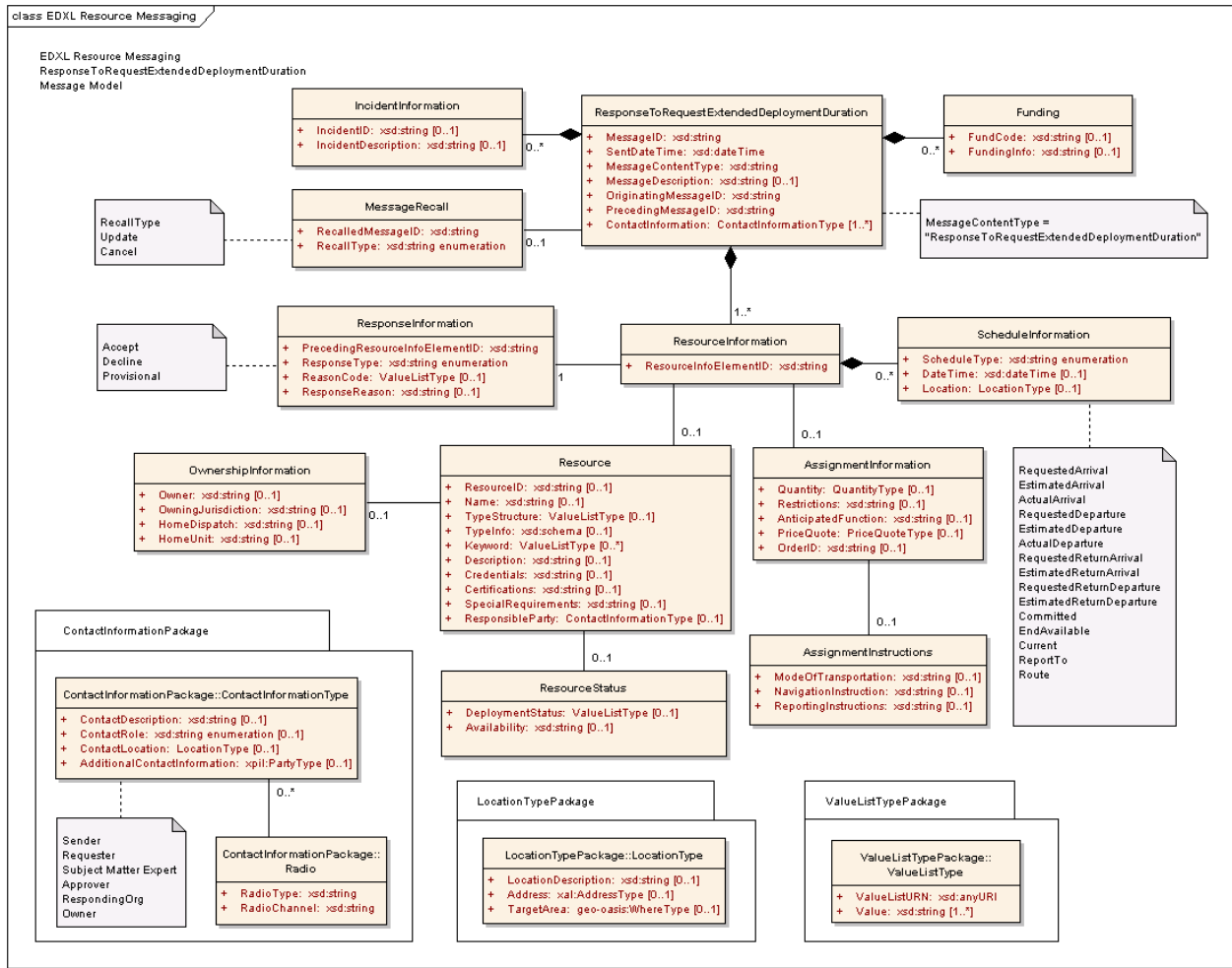
3008 The “ResponseToRequestExtendedDeploymentDuration” message is used as the response to a
3009 “RequestExtendedDeploymentDuration” message. It allows the sender to accept, decline, or offer
3010 conditions upon which deployment duration of resources may be extended.

3011 **3.19.2 Element Reference Model**

3012 Figure 19 below shows the EDXL–RM Element Reference Model (ERM) tailored for the
3013 ResponseToRequestExtendedDeploymentDuration message. The ERM shows the element-level details
3014 for the main entities in the RM.



3015



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3017
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3019

Figure 19: EDXL-RM ERM for ResponseToRequestExtendedDeploymentDuration Message

3020 The following table outlines the element cardinalities for this message type.

3021

3022 *Table 19: Response to RequestExtendedDeploymentDuration Message Elements*

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

3023

3.19.3 ResponseToRequestExtendedDeploymentDuration Message Rules

3025 The following rules apply to the above elements:

- 3026 • The ResponseToRequestExtendedDeploymentDuration:MessageID,
3027 ResponseToRequestExtendedDeploymentDuration:SentDateTime,
3028 ResponseToRequestExtendedDeploymentDuration:MessageContentType,
3029 ResponseToRequestExtendedDeploymentDuration:OriginatingMessageID,
3030 ResponseToRequestExtendedDeploymentDuration:PrecedingMessageID,
3031 ResponseToRequestExtendedDeploymentDuration:ContactInformation, and
3032 ResponseToRequestExtendedDeploymentDuration:ResourceInformation elements MUST be
3033 present.
- 3034 • The value of ResponseToRequestExtendedDeploymentDuration:MessageContentType MUST be
3035 "ResponseToRequestExtendedDeploymentDuration".

- 3036 • If a ResponseToRequestExtendedDeploymentDuration:IncidentInformation element is present,
3037 then at least one of IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription
3038 elements MUST be present.
- 3039 • If the ResponseToRequestExtendedDeploymentDuration:MessageRecall element is present,
3040 then the MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be
3041 present.
- 3042 • If a ResponseToRequestExtendedDeploymentDuration:Funding element is present, then at least
3043 one of Funding:FundCode and/or Funding:FundingInfo elements MUST be present.
- 3044 • The ResourceInformation:ResourceInfoElementID and
3045 ResourceInformation:ResponseInformation elements MUST be present.
- 3046 • The ResponseInformation:PrecedingResourceInfoElementID and
3047 ResponseInformation:ResponseType elements MUST be present.
- 3048 • If the ResponseInformation:ResponseType element has a value of “Accept” or “Provisional”, then
3049 ResourceInformation:Resource element MUST be present. Otherwise, the
3050 ResourceInformation:Resource element is optional.
- 3051 • If ResponseInformation:ResponseType has a value of “Provisional”, at least one of
3052 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements
3053 MUST be present.
- 3054 • If a ResourceInformation:Resource element is present, then at least one of
3055 Resource:ResourceID, Resource:Name, and/or Resource:TypeStructure elements MUST be
3056 present.
- 3057 • If a Resource:OwnershipInformation element is present, then at least one of
3058 OwnershipInformation:Owner and/or OwnershipInformation:OwningJurisdiction elements MUST
3059 be present.
- 3060 • If the ResourceInformation:ScheduleInformation element is present, then the
3061 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
3062 values:
 - 3063 • “RequestedArrival”, “EstimatedArrival”, “ActualArrival”, “RequestedDeparture”,
3064 “EstimatedDeparture”, “ActualDeparture”, “RequestedReturnArrival”,
3065 “EstimatedReturnArrival”, “RequestedReturnDeparture”, “EstimatedReturnDeparture”,
3066 “Committed”, “EndAvailable”, “Current”, “ReportTo” or “Route”.
- 3067
- 3068 The schema for a ResponseToRequestExtendedDeploymentDuration message can be found in Appendix
3069 A.18.

3070 **3.19.4 Message Flow**

- 3071 The ResponseToRequestExtendedDeploymentDuration message is sent from the Resource Supplier to
3072 the Resource Consumer in response to a RequestExtendedDeploymentDuration message.
- 3073 The message may be canceled or updated through the
3074 ResponseToRequestExtendedDeploymentDuration:MessageRecall element.
- 3075

3076 **3.19.5 Message Example**

- 3077 Below is an example ResponseToRequestExtendedDeploymentDuration message. This message follows
3078 on from the example RequestExtendedDeploymentDuration message shown in Section 3.18.5 (declining
3079 the request).

3080

3081 [Note: The XML example shown in this section is informative only.]

```

3082 <?xml version="1.0" encoding="UTF-8"?>
3083 <ResponseToRequestExtendedDeploymentDuration
3084 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3085 xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg
3086 EDXL-RMResponseToRequestExtendedDeploymentDuration.xsd"
3087 xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3088 xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3089 xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
3090 xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
3091 xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis">
3092 <MessageID>urn:au-qld-eoc:997816</MessageID>
3093 <SentDateTime>2006-03-22T17:02:00+10:00</SentDateTime>
3094 <MessageContentType>ResponseToRequestExtendedDeploymentDuration</MessageContentType>
3095 <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
3096 <PrecedingMessageID>urn:au-qld-eoc:997814</PrecedingMessageID>
3097 <IncidentInformation>
3098 <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
3099 </IncidentInformation>
3100 <ContactInformation>
3101 <rm:ContactRole>Sender</rm:ContactRole>
3102 <rm:AdditionalContactInformation>
3103 <xpil:PartyName>
3104 <xnl:PersonName>
3105 <xnl:NameElement xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
3106 <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
3107 </xnl:PersonName>
3108 <xnl:OrganisationName>
3109 <xnl:NameElement>EMA</xnl:NameElement>
3110 </xnl:OrganisationName>
3111 </xpil:PartyName>
3112 </rm:AdditionalContactInformation>
3113 </ContactInformation>
3114 <ContactInformation>
3115 <rm:ContactRole>Requester</rm:ContactRole>
3116 <rm:AdditionalContactInformation>
3117 <xpil:PartyName>
3118 <xnl:PersonName>
3119 <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
3120 <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
3121 </xnl:PersonName>
3122 <xnl:OrganisationName>
3123 <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
3124 </xnl:OrganisationName>
3125 </xpil:PartyName>
3126 </rm:AdditionalContactInformation>
3127 </ContactInformation>
3128 <ResourceInformation>
3129 <ResourceInfoElementID>001</ResourceInfoElementID>
3130 <ResponseInformation>
3131 <rm:PrecedingResourceInfoElementID>001</rm:PrecedingResourceInfoElementID>
3132 <rm:ResponseType>Decline</rm:ResponseType>
3133 <rm:ResponseReason>
3134 Team is already committed elsewhere for the period of 4 to April.
3135 </rm:ResponseReason>
3136 </ResponseInformation>
3137 <Resource>
3138 <TypeStructure>
3139 <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN>
3140 <rm:Value>Small Animal Sheltering Team</rm:Value>
3141 </TypeStructure>
3142 </Resource>
3143 <AssignmentInformation>
3144 <Quantity>
3145 <rm:MeasuredQuantity>
3146 <rm:Amount>1</rm:Amount>
3147 </rm:MeasuredQuantity>
3148 </Quantity>
3149 </AssignmentInformation>
3150 <ScheduleInformation>
3151 <ScheduleType>RequestedReturnArrival</ScheduleType>
3152 <DateTime>2006-04-07T17:00:00+10:00</DateTime>

```

3153
3154
3155
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3158

```
<Location>  
  <rm:LocationDescription>Cairns Airport</rm:LocationDescription>  
</Location>  
</ScheduleInformation>  
</ResourceInformation>  
</ResponseToRequestExtendedDeploymentDuration>
```

3159

4 Data Dictionary (NORMATIVE)

3160

4.1.1 EDXLResourceMessage ElementReferenceType Type

Element	MessageID
Type	MessageIDType [xsd:string]
Usage	REQUIRED , 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"> The EDXL Distribution Element contains the "Distribution ID", which identifies the "container" for the distribution message information.
Requirements Supported	20

3161

Element	SentDateTime
Type	DateTimeType [xsd:dateTime]
Usage	REQUIRED , 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 [dateTime] 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"> Original requirement = ICS "Request Date/Time"
Requirements Supported	21

3162

Element	MessageContentType
Type	MessageContentTypeType [xsd:string]
Usage	REQUIRED , 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"> • Value MUST be one of the following: <ol style="list-style-type: none"> 1. RequestResource 2. ResponseToRequestResource 3. RequisitionResource 4. CommitResource 5. RequestInformation 6. ResponseToRequestInformation 7. OfferUnsolicitedResource 8. ReleaseResource 9. RequestReturn 10. ResponseToRequestReturn 11. RequestQuote 12. ResponseToRequestQuote 13. RequestResourceDeploymentStatus 14. ReportResourceDeploymentStatus 15. RequestExtendedDeploymentDuration 16. ResponseToRequestExtendedDeploymentDuration
Requirements Supported	2,3,4,5,6,7,8,9,10,11,12,17

3163

Element	MessageDescription
Type	MessageDescriptionType [xsd:string]
Usage	CONDITIONAL , 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"> • Conditional Usage: <ul style="list-style-type: none"> ○ Required: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestInformation" ○ Optional: <ul style="list-style-type: none"> ▪ Otherwise
Requirements	20

Supported	
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3164

Element	OriginatingMessageID
Type	MessageIDType [xsd:string]
Usage	REQUIRED , 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">• This MessageID is an EDXL-RM MessageID, not an EDXL-Distribution Element MessageID.
Requirements Supported	20

3165

Element	PrecedingMessageID
Type	MessageIDType [xsd:string]
Usage	CONDITIONAL , 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 and EDXL-Distribution Element MessageID.
Constraints	<ul style="list-style-type: none">• Conditional Usage:<ul style="list-style-type: none">○ Required:<ul style="list-style-type: none">▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestResource"▪ <i>EDXLResourceMessage:MessageContentType</i> = "CommitResource"▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation"▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestReturn"

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

3166

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

3167

4.1.2 IncidentInformation Element

Element	IncidentID
Type	IncidentIDType [xsd:string]
Usage	CONDITIONAL , 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"> • If an IncidentInformation element is present, then at least one of IncidentInformation:IncidentID or IncidentInformation:IncidentDescription

	MUST be present
Requirements Supported	19

3168

Element	IncidentDescription
Type	IncidentDescriptionType [xsd:string]
Usage	CONDITIONAL , 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"> If an IncidentInformation element is present, then at least one of IncidentInformation:IncidentID or IncidentInformation:IncidentDescription MUST be present
Requirements Supported	19

3169

4.1.3 MessageRecall Element

Element	RecalledMessageID
Type	MessageIDType [xsd:string]
Usage	REQUIRED , 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"> The MessageRecall element is Optional.
Requirements Supported	14, 15

3170

Element	RecallType
Type	RecallTypeType [xsd:string]
Usage	REQUIRED , 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"> ▪ Value MUST be one of the following: <ol style="list-style-type: none"> 1. Update 2. Cancel
Comments	<ul style="list-style-type: none"> • The MessageRecall element is Optional.
Requirements Supported	14,15

3171 **4.1.4 Funding Element**

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

3172

Element	FundingInfo
Type	FundingInfoType [xsd:string]
Usage	CONDITIONAL , 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"> • A textual description of funding sources or distribution • The Funding element MUST be present in a Requisition Resource message. • If a Funding element is present, then at least one of Funding:FundCode or Funding:FundingInfo MUST be present

Requirements Supported	18, 24
------------------------	--------

3173 4.1.5 ResourceInformation Element

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

3174 4.1.6 ResponseInformation Element

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

3175

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

	"Decline" value.
Requirements Supported	6,29

3176

Element	ReasonCode
Type	ValueListType[XML structure]
Usage	CONDITIONAL , 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"> 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.
Requirements Supported	6,29

3177

Element	ResponseReason
Type	ResponseReasonType [xsd:string]
Usage	CONDITIONAL , 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"> 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.
Requirements Supported	6,29

3178

4.1.7 Resource Element

Element	ResourceID
Type	ResourceIDType [xsd:string]
Usage	CONDITIONAL , 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"> At least one of Resource:ResourceID, Resource:Name or Resource: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.
Requirements Supported	3,16,26

3179

Element	Name
Type	ResourceNameType [xsd:string]
Usage	CONDITIONAL , 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"> At least one of Resource:ResourceID, Resource:Name or Resource: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.
Requirements Supported	3,16,18,26

3180

Element	TypeStructure
Type	ValueListType [XML structure]
Usage	CONDITIONAL , MAY be used once and only once.
Definition	<p>Uniform Resource Name (URN) paired with a string “keyword” value such as</p> <pre style="border: 1px solid black; padding: 5px;"> <TypeStructure> <rm:ValueListURN>urn:x-hazard:vocab:resourceTypes</rm:ValueListURN> <rm:Value>Debris Management Team</rm:Value> </TypeStructure> </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"> At least one of Resource:ResourceID, Resource:Name or Resource: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.

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

3181

Element	TypeInfo
Type	TypeInfoType [sequence of xsd:any]
Usage	OPTIONAL , 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"> This element contains one or more child elements whose names and types depend on the value of the TypeStructure element.
Requirements Supported	3,16,25,26

3182

Element	Keyword
Type	ValueListType [XML structure]
Usage	OPTIONAL , 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"> 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" A Type Structure is assumed to have an enumerated, allowed list. A Keyword is not restricted to a particular enumeration, a Keyword can be any word or string.
Requirements Supported	3,16,25,26

3183

Element	Description
Type	DescriptionType [xsd:string]

Usage	OPTIONAL , 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

3184

Element	Credentials
Type	CredentialsType [xsd:string]
Usage	OPTIONAL , 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"> 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."

3185

Element	Certifications
Type	CertificationsType [xsd:string]
Usage	OPTIONAL , 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"> Multiple certifications may be included as a comma-separated list. Example 1: "ALS; Advanced First Aid & CPR, BLS; Advanced First Aid & CPR" Example 2: "Pilot – Commercial (instrument) or higher certificate and complete unit certification program", "Pilot – 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"

3186

Element	SpecialRequirements
Type	SpecialRequirementsType [xsd:string]

Usage	OPTIONAL , 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"> • Not intended to carry certifications or capabilities.
Requirements Supported	3,7,16,27

3187

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

3188 **4.1.8 OwnershipInformation Element**

Element	Owner
Type	OwnerType [xsd:string]
Usage	CONDITIONAL , 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"> ▪ At least one of OwnershipInformation:Owner or OwnershipInformation:OwningJurisdiction MUST be present for each OwnershipInformation element.
Requirements	3,16,18

Supported	
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3189

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

3190

Element	HomeDispatch
Type	HomeDispatchType [xsd:string]
Usage	CONDITIONAL , MAY be used once and only once
Definition	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).
Comments	<ul style="list-style-type: none"> Conditional Usage: <ul style="list-style-type: none"> Not Applicable: <ul style="list-style-type: none"> <i>EDXLResourceMessage:MessageContentType</i> = "RequestResource" Optional, otherwise
Requirements Supported	18

3191

Element	HomeUnit
Type	HomeUnitType [xsd:string]

Usage	CONDITIONAL , 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"> ▪ Conditional Usage: <ul style="list-style-type: none"> ○ Not Applicable: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestResource" ○ Optional, otherwise
Requirements Supported	18

3192 4.1.9 ResourceStatus Element

Element	InventoryRefreshDateTime
Type	DateTimeType[xsd:dateTime]
Usage	CONDITIONAL , 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"> ▪ Conditional Usage: <ul style="list-style-type: none"> ○ Optional: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "CommitResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "OfferUnsolicitedResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestQuote" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReportResourceDeploymentStatus" ○ Not Applicable, otherwise
Requirements Supported	2,12

3193

Element	DeploymentStatus
Type	ValueListType [XML structure]
Usage	CONDITIONAL , 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"> ▪ Conditional Usage: <ul style="list-style-type: none"> ○ Required <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestReturn" ○ Optional: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "CommitResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "OfferUnsolicitedResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReleaseResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestReturn" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestQuote" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReportResourceDeploymentStatus" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestExtendedDeploymentDuration" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestExtendedDeploymentDuration" ○ Not Applicable, otherwise • 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"> ○ atBase-Available ○ enroute-Unavailable ○ on-scene-Unavailable ○ returning-Unavailable ○ Resource Maintenance ○ Out of Service

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

3194

Element	Availability
Type	AvailabilityType [xsd:string]
Usage	CONDITIONAL , 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"> ▪ Conditional Usage: <ul style="list-style-type: none"> ○ Required <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestReturn" ○ Optional: <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "OfferUnsolicitedResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReleaseResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestReturn" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestQuote"

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

3195

3196 4.1.10 AssignmentInformation Element

Element	Quantity
Type	QuantityType [XML structure]
Usage	CONDITIONAL , 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"> • This element carries quantity information expressed in one of two ways: <ul style="list-style-type: none"> ○ informally, as one or more lines of text (the QuantityText element); or ○ formally, as an element (the MeasuredQuantity element) containing an amount (required) and a unit of measure (optional). <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 QuantityText element) is not recommended when the second alternative (the MeasuredQuantity element) can be used. For example, in a RequestResource message requesting 10000 liters of water, the second alternative (the MeasuredQuantity 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="text-align: center;">urn:oasis:names:tc:emergency:EDXL:RM:1.0:ucum:1.6:cs urn:oasis:names:tc:emergency:EDXL:RM:1.0:ucum:1.6:ci</p>
Constraints	<ul style="list-style-type: none"> • Value MUST be non-negative. • Conditional Usage:

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

3197

Element	Restrictions
Type	RestrictionsType [xsd:string]
Usage	OPTIONAL , 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

3198

Element	AnticipatedFunction
Type	AnticipatedFunctionType [xsd:string]
Usage	OPTIONAL , 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

3199

Element	PriceQuote
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Type	PriceQuoteType [XML structure]
Usage	CONDITIONAL , 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"> • This element carries price information expressed in one of two ways: <ul style="list-style-type: none"> ○ informally, as one or more lines of text (element QuantityText); or ○ formally, as an element (element MeasuredQuantity) containing an amount (required) and a unit of measure (optional). <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;">urn:oasis:names:tc:emergency:EDXL:RM:1.0:iso4217:a</p> <ul style="list-style-type: none"> • Completed in response to a “RequestQuote” • Conditional Usage: <ul style="list-style-type: none"> ○ Required <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = “ResponseToRequestQuote” ▪ May be indeterminate, i.e. “current market value.” ○ Not Applicable <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestResource” ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestQuote” ○ Optional, otherwise
Requirements Supported	10,30

3200

Element	OrderID
Type	OrderIDType [xsd:string]
Usage	CONDITIONAL , 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"> • There is no assurance of uniqueness between various external systems. • Conditional Usage: <ul style="list-style-type: none"> ○ Optional <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "CommitResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestInformation" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReleaseResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestReturn" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestReturn" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestResourceDeploymentStatus" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ReportResourceDeploymentStatus" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestExtendedDeploymentDuration" ▪ <i>EDXLResourceMessage:MessageContentType</i> = "ResponseToRequestExtendedDeploymentDuration" ○ Not Applicable, otherwise
Requirements Supported	18,30

3201 4.1.11 AssignmentInstructions Element

Element	ModeOfTransportation
Type	ModeOfTransportationType [xsd:string]
Usage	CONDITIONAL , 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"> • Conditional Usage: <ul style="list-style-type: none"> ○ Not Applicable <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = "RequestResource" ▪ <i>EDXLResourceMessage:MessageContentType</i> =

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

3202

Element	NavigationInstructions
Type	NavigationInstructionsType [xsd:string]
Usage	CONDITIONAL , 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"> • Conditional Usage: <ul style="list-style-type: none"> ○ Not Applicable <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestResource” ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestExtendedDeploymentDuration” ○ Optional, otherwise
Requirements Supported	28

3203

Element	ReportingInstructions
Type	ReportingInstructionsType [xsd:string]
Usage	CONDITIONAL , 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"> • Conditional Usage: <ul style="list-style-type: none"> ○ Not Applicable <ul style="list-style-type: none"> ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestResource” ▪ <i>EDXLResourceMessage:MessageContentType</i> = “RequestExtendedDeploymentDuration” ○ Optional, otherwise

Requirements Supported	30
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3204 **4.1.12 ScheduleInformation Element**

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

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

3205

Element	DateTime
Type	DateTimeType [xsd:dateTime]
Usage	OPTIONAL , 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

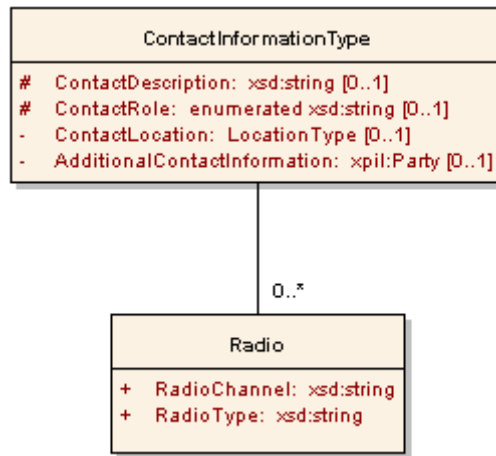
3206

Element	Location
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Type	LocationType [XML structure]
Usage	OPTIONAL , 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.

3207 **4.1.13 Supporting Element Types**

3208 **4.1.13.1 ContactInformationType**



3209
3210
3211

Figure 20: ContactInformationType Structure

Element	ContactDescription
Type	ContactDescriptionType [xsd:string]
Usage	CONDITIONAL , 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"> If a ContactInformation element is present, then at least one of ContactInformation:ContactDescription or ContactInformation:ContactRole MUST be present.
Comments	<ul style="list-style-type: none"> 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"). The element contains information associated with the contact role that is easily understood by humans but that is not necessarily usable by automation

	systems.
Requirements Supported	18,23,24

3212

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

3213

Element	ContactLocation
Type	LocationType [XML Structure]
Usage	OPTIONAL , MAY be used once and only once.
Definition	The geophysical location of the contact.
Constraints	<ul style="list-style-type: none"> • 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.
Comments	<ul style="list-style-type: none"> • Information on the structure of LocationType can be found in Section 4.1.13.2.
Requirements	18,23,24

Supported	
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3214

Element	AdditionalContactInformation
Type	AdditionalContactInformationType [xpil:PartyType]
Usage	OPTIONAL , MAY be used once and only once.
Definition	Any other contact information including name and other Party information.
Comments	<ul style="list-style-type: none"> • The AdditionalContactInformation element is an xpil:PartyType structure that includes an xal:AddressType. • 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. • 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. • Example: <pre> <rm:AdditionalContactInformation> <xnl:PartyName> <xnl:PersonName> <xnl:NameElement xnl:ElementType="FirstName">Joe </xnl:NameElement> <xnl:NameElement xnl:ElementType="LastName">Williams </xnl:NameElement> </xnl:PersonName> <xnl:OrganizationName> <xnl:NameElement>Hardware Megastore Cairns </xnl:NameElement> </xnl:OrganizationName> </xnl:PartyName> <xpil:Addresses> <xal:Address> <xal:Country> <xal:Name>Australia</xal:Name> </xal:Country> <xal:AdministrativeArea> <xal:Name>QLD</xal:Name> </xal:AdministrativeArea> <xal:Locality> <xal:Name>Cairns</xal:Name> </xal:Locality> <xal:Thoroughfare> <xal:NameElement>Spence St</xal:NameElement> </xal:Thoroughfare> <xal:PostCode> <xal:Identifier>4870</xal:Identifier> </xal:PostCode> </xal:Address> </xpil:Addresses> <xpil:ContactNumbers> <xpil:ContactNumber xpil:MediaType="Telephone" xpil:ContactHours="8:00AM - 6:00PM"> <xpil:ContactNumberElement xpil:ElementType="CountryCode">61 </pre>

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

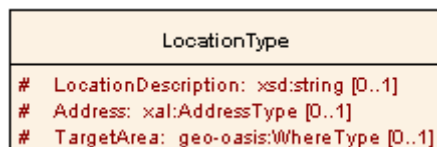
3215 **4.1.13.1.1 Radio Element**

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

3216

Element	RadioChannel
Type	RadioChannelType [xsd:string]]
Usage	REQUIRED , 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"> • “Channel” and “Frequency” are synonyms for purposes of this standard
Requirements Supported	18,23

3217 **4.1.13.2 LocationType**



3218

3219

Figure 21: LocationType Structure

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

3220

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

3221

Element	TargetArea
Type	geo-oasis:WhereType
Usage	CONDITIONAL , 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"> At least one of the LocationDescription, Address or TargetArea elements MUST be present.
Comments	<ul style="list-style-type: none"> 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.

3222 **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"> • gml:Point – WGS84 latitude and longitude • gml:LineString – a series of points • gml:CircleByCenterPoint – a point and radius • gml:Polygon – a set of connected non-crossing lines • gml:Envelope – two points used to define a bounding rectangle <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"> • 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.

3223

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> <gml:Point> <gml:pos>45.256 -71.92</gml:pos> </gml:Point> </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"> • WGS84 MUST be used for EDXL-RM.
Requirements Supported	

3224

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> <gml:LineString> <gml:posList> 45.256 -110.45 46.46 -109.48 43.84 -109.86 </gml:posList> </gml:LineString> </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"> WGS84 MUST be used for EDXL-RM.
Requirements Supported	

3225

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> <gml:CircleByCenterPoint> <gml:pos> 45.256 -110.45 </gml:pos> <gml:radius> 10 </gml:radius> </gml:CircleByCenterPoint> </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"> WGS84 MUST be used for EDXL-RM. For EDXL-RM the unit of measure MUST be kilometers.

3226

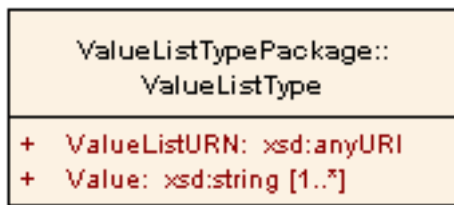
Type	geo-oasis:WhereType using gml:Polygon
Usage	Where TargetAreaType is best represented as a connected group of WGS84 points representing an actual area of concern.
Definition	<p>The use of gml:Polygon within TargetArea provides a ring of points (first and last point are the same) represented by a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

	<pre> <gml:Polygon> <gml:exterior> <gml:LinearRing> <gml:posList> 45.256 -110.45 46.46 -109.48 43.84 -109.86 45.256 -110.45 </gml:posList> </gml:LinearRing> </gml:exterior> </gml:Polygon> </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"> ▪ WGS84 MUST be used for EDXL-RM. ▪ For EDXL-RM gml:posList layout MUST be used.
Requirements Supported	

3227

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> <gml:Envelope> <gml:lowerCorner>42.943 -71.032</gml:lowerCorner> <gml:upperCorner>43.039 -69.856</gml:upperCorner> </gml:Envelope> </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"> • WGS84 MUST be used for EDXL-RM.

3228 **4.1.13.3 ValueListType**



3229

3230

Figure 22: ValueListType Structure

Element	ValueListURN
Type	ValueListURNTYPE[xsd:anyURI]
sage	REQUIRED , 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

3231

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

3232

5 Conformance

3233

5.1 Conformance Targets

3234

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

3235

- EDXL-RM Message; and

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3237

3238

- EDXL-RM Message Producer.

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3240

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

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

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5.2 Conformance Levels

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

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- Level-1 EDXL-RM Message; and

3252

- Level-2 EDXL-RM Message.

3253

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

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

3262

- Level-1 EDXL-RM Message Producer; and

3263

- Level-2 EDXL-RM Message Producer.

3264

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

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3271 **5.3 Conformance as an EDXL-RM Message**

3272 **5.3.1 Level-1 EDXL-RM Message**

3273 An XML 1.0 element is a conforming Level-1 EDXL-RM Message if and only if:

- 3274 a) it meets the general requirements specified in Section 3.3;
- 3275
- 3276 b) if its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its local name
- 3277 is one of the 16 resource message type names specified in sections 3.4 to 3.19 (also listed in
- 3278 Table 1), and the element is valid according to the schema located at
- 3279 <http://docs.oasis-open.org/emergency/EDXL-RM/EDXL-RM.xsd>, where
- 3280 validation is performed against the global element declaration with the same local name;
- 3281
- 3282 c) if its namespace name is not "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then the
- 3283 element is valid according to the schema located at
- 3284 <http://docs.oasis-open.org/emergency/EDXL-RM/EDXL-RM.xsd>, where
- 3285 validation is performed against the complex type definition
- 3286 "EDXLResourceMessageReferenceType";
- 3287
- 3288 d) if its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its content
- 3289 (which includes the content of each of its descendants) meets all the additional mandatory
- 3290 requirements provided in the specific subsection of Section 3 (sections 3.4 to 3.19) corresponding
- 3291 to the element's name, *with the exception of the Message Flow*; such requirements include:
- 3292
- 3293 • the content of the Element Reference Model;
 - 3294 • each of the Message Rules; and
 - 3295 • the normative parts (element name, usage, and constraints) of any dictionary data entries
 - 3296 (in Section [Error! Reference source not found.4](#)) corresponding to the elements that
 - 3297 actually occur in the content of the element;
 - 3298
- 3299 e) if its namespace name is not "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg", then its content
- 3300 (which includes the content of each of its descendants) meets all the additional mandatory
- 3301 requirements provided in the normative parts (element name, usage, and constraints) of all the
- 3302 dictionary data entries (in Section 4) corresponding to the elements that actually occur in the
- 3303 content of the element.

3304 NOTE The Information Exchange Package Documentation (IEPD) process, specified

3305 within the United States National Information Exchange Model (available on

3306 www.niem.gov), can be used by a Community of Interest when specifying new types of

3307 resource messages conforming to Level 1.

3308

3309 **5.3.2 Level-2 EDXL-RM Message**

3310 An XML 1.0 element is a conforming Level-2 EDXL-RM Message if and only if:

- 3311 a) it meets all the requirements for a Level-1 EDXL-RM Message specified in Section 5.3.1; and
- 3312
- 3313 b) its namespace name is "urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"; and
- 3314
- 3315 c) its content meets all the requirements provided in the specific subsection of Section 3 (sections
- 3316 [Error! Reference source not found.3-4](#) to [Error! Reference source not found.3-19](#))
- 3317 corresponding to the element's name (see also Section 5.3.1 item (d)), *including the Message*
- 3318 *Flow*.

3319 NOTE The conditions in (a) and (b) above imply that the local name of the element is
3320 one of the 16 resource message type names specified in sections 3.4 to 3.19 (see
3321 Section 5.3.1 item (b)).

3322 5.4 Conformance as an EDXL-RM Message Producer

3323 5.4.1 Level-1 EDXL-RM Message Producer

3324 A software entity is a conforming Level-1 EDXL-RM Message Producer if and only if it is constructed in
3325 such a way that any XML 1.0 element produced by it and present in a place in which a conforming Level-
3326 1 EDXL-RM message is expected (based on contextual information) is indeed a conforming Level-1
3327 EDXL-RM message according to this standard.

3328 NOTE The condition above can be satisfied in many different ways. Here are some
3329 examples of possible scenarios:

- 3330 – a standard distribution protocol (say, EDXL-DE) transfers EDXL-RM messages; a resource
3331 consumer has sent an EDXL-RM request message to a resource supplier which claims to be
3332 a conforming EDXL-RM Message Producer, and has received an EDXL-DE message which
3333 is therefore expected to carry a conforming EDXL-RM Message;
- 3334 – a local test environment has been set up, and the application under test (which claims to be a
3335 conforming EDXL-RM Message Producer) has the ability to produce an EDXL-RM message
3336 and write it to a file in a directory in response to a request coming from the testing tool; the
3337 testing tool has sent many requests to the application under test and is now verifying all the
3338 files present in the directory, which is expected to contain only conforming EDXL-
3339 RM Messages.

3340 5.4.2 Level-2 EDXL-RM Message Producer

3341 A software entity is a conforming Level-2 EDXL-RM Message Producer if and only if:

- 3342 a) it meets all the requirements for a Level-1 EDXL-RM Producer Message specified in Section
3343 5.4.1; and
- 3344 b) it produces a conforming Level-2 EDXL-RM Message when such a message is expected.

3345 NOTE There is no requirement for a Level-2 EDXL-RM Message Producer to be able to
3346 produce resource messages of all 16 resource message types specified in sections
3347 **Error! Reference source not found.3-4** to **Error! Reference source not found.3-19**.

3348

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

3349

3350

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

3351

3352

A.1 Resource Messaging Common Types

3353

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3354           xmlns:xnal="urn:oasis:names:tc:ciq:xnal:3"
3355           xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3"
3356           xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
3357           xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
3358           xmlns:geo-oasis="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
3359           xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3360 targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3361 elementFormDefault="qualified"
3362 attributeFormDefault="unqualified">
3363
3364 <!-- All elements that have unchanged internal content across the entire matrix of
3365      RM messages are typed here.
3366      Where internal content differs between messages, please see the appropriate
3367      schemas. -->
3368 <xsd:import namespace="urn:oasis:names:tc:ciq:xpil:3" schemaLocation="xpil.xsd"/>
3369 <xsd:import namespace="urn:oasis:names:tc:ciq:xal:3" schemaLocation="xal.xsd"/>
3370 <xsd:import namespace="urn:oasis:names:tc:ciq:xnl:3" schemaLocation="xnl.xsd"/>
3371
3372 <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:HAVE:1.0:geo-oasis"
3373           schemaLocation="geo-oasis.xsd"/>
3374 <xsd:simpleType name="MessageIDType">
3375   <xsd:restriction base="xsd:string"/>
3376 </xsd:simpleType>
3377 <xsd:simpleType name="DateTimeType">
3378   <xsd:restriction base="xsd:dateTime"/>
3379 </xsd:simpleType>
3380 <xsd:simpleType name="MessageContentTypeType">
3381   <xsd:restriction base="xsd:string">
3382     <xsd:annotation>
3383       <xsd:documentation>
3384         The following strings values for MessageContentType
3385         are reserved for Level 2 Conformant Message types (New
3386         level 1 conformant messagetypes should use other name strings):
3387
3388         RequestResource
3389         ResponseToRequestResource
3390         RequisitionResource
3391         CommitResource
3392         RequestInformation
3393         ResponseToRequestInformation
3394         OfferUnsolicitedResource
3395         ReleaseResource
3396         RequestReturn
3397         ResponseToRequestReturn
3398         RequestQuote
3399         ResponseToRequestQuote
3400         RequestResourceDeploymentStatus
3401         ReportResourceDeploymentStatus
3402         RequestExtendedDeploymentDuration
3403         ResponseToRequestExtendedDeploymentDuration
3404       </xsd:documentation>
3405     </xsd:annotation>
3406
3407   </xsd:restriction>
3408 </xsd:simpleType>
```

```

3409 <xsd:simpleType name="MessageDescriptionType">
3410   <xsd:restriction base="xsd:string"/>
3411 </xsd:simpleType>
3412 <xsd:complexType name="IncidentInformationType">
3413   <!-- One(or both) of the IncidentID and IncidentDescription elements is required -->
3414   <xsd:sequence>
3415     <xsd:element name="IncidentID" type="IncidentIDType" minOccurs="0"/>
3416     <xsd:element name="IncidentDescription" type="IncidentDescriptionType"
3417       minOccurs="0"/>
3418   </xsd:sequence>
3419 </xsd:complexType>
3420 <xsd:simpleType name="IncidentIDType">
3421   <xsd:restriction base="xsd:string"/>
3422 </xsd:simpleType>
3423 <xsd:simpleType name="IncidentDescriptionType">
3424   <xsd:restriction base="xsd:string"/>
3425 </xsd:simpleType>
3426 <xsd:complexType name="MessageRecallType">
3427   <xsd:sequence>
3428     <xsd:element name="RecallMessageID" type="MessageIDType"/>
3429     <xsd:element name="RecallType" type="RecallTypeType"/>
3430   </xsd:sequence>
3431 </xsd:complexType>
3432 <xsd:simpleType name="RecallTypeType">
3433   <xsd:restriction base="xsd:string">
3434     <xsd:enumeration value="Update"/>
3435     <xsd:enumeration value="Cancel"/>
3436   </xsd:restriction>
3437 </xsd:simpleType>
3438 <xsd:complexType name="FundingType">
3439   <!-- One (or both) of the FundCode and FundingInfo elements is required -->
3440   <xsd:sequence>
3441     <xsd:element name="FundCode" type="FundCodeType" minOccurs="0" maxOccurs="1"/>
3442     <xsd:element name="FundingInfo" type="FundingInfoType" minOccurs="0"
3443       maxOccurs="1"/>
3444   </xsd:sequence>
3445 </xsd:complexType>
3446 <xsd:simpleType name="FundCodeType">
3447   <xsd:restriction base="xsd:string"/>
3448 </xsd:simpleType>
3449 <xsd:simpleType name="FundingInfoType">
3450   <xsd:restriction base="xsd:string"/>
3451 </xsd:simpleType>
3452 <xsd:complexType name="ContactInformationType">
3453   <xsd:sequence>
3454     <!-- At least one of ContactDescription and ContextRole is required -->
3455     <xsd:element name="ContactDescription" type="ContactDescriptionType" minOccurs="0"
3456       maxOccurs="1"/>
3457     <xsd:element name="ContactRole" type="ContactRoleType" minOccurs="0"
3458       maxOccurs="1"/>
3459     <xsd:element name="Radio" type="RadioInformationType" minOccurs="0"
3460       maxOccurs="unbounded"/>
3461     <xsd:element name="ContactLocation" type="LocationType" minOccurs="0"
3462       maxOccurs="1"/>
3463     <xsd:element name="AdditionalContactInformation" type="xpil:PartyType"
3464       minOccurs="0" maxOccurs="1"/>
3465   </xsd:sequence>
3466 </xsd:complexType>
3467 <xsd:simpleType name="ContactDescriptionType">
3468   <xsd:restriction base="xsd:string"/>
3469 </xsd:simpleType>
3470 <xsd:simpleType name="ContactRoleType">
3471   <xsd:restriction base="xsd:string">
3472     <xsd:enumeration value="Sender"/>
3473     <xsd:enumeration value="Requester"/>
3474     <xsd:enumeration value="SubjectMatterExpert"/>
3475     <xsd:enumeration value="Approver"/>
3476     <xsd:enumeration value="RespondingOrg"/>
3477     <xsd:enumeration value="Owner"/>
3478   </xsd:restriction>
3479 </xsd:simpleType>

```

```

3480 <xsd:complexType name="RadioInformationType">
3481   <xsd:sequence>
3482     <xsd:element name="RadioType" type="ValueListType"/>
3483     <xsd:element name="RadioChannel" type="RadioChannelType"/>
3484   </xsd:sequence>
3485 </xsd:complexType>
3486 <xsd:simpleType name="RadioTypeType">
3487   <xsd:restriction base="xsd:string"/>
3488 </xsd:simpleType>
3489 <xsd:simpleType name="RadioChannelType">
3490   <xsd:restriction base="xsd:string"/>
3491 </xsd:simpleType>
3492 <xsd:complexType name="ResponseInformationType">
3493   <xsd:sequence>
3494     <xsd:element name="PrecedingResourceInfoElementID"
3495       type="ResourceInfoElementIDType"/>
3496     <xsd:element name="ResponseType" type="ResponseTypeType"/>
3497     <!-- If the ResponseType element has the value "Provisional", one (or both) of
3498       ReasonCode and ResponseReason must be present -->
3499     <xsd:element name="ReasonCode" type="ValueListType" minOccurs="0" maxOccurs="1"/>
3500     <xsd:element name="ResponseReason" type="ResponseReasonType" minOccurs="0"
3501       maxOccurs="1"/>
3502   </xsd:sequence>
3503 </xsd:complexType>
3504 <xsd:simpleType name="ResourceInfoElementIDType">
3505   <xsd:restriction base="xsd:string"/>
3506 </xsd:simpleType>
3507 <xsd:simpleType name="ResponseTypeType">
3508   <xsd:restriction base="xsd:string">
3509     <xsd:enumeration value="Accept"/>
3510     <xsd:enumeration value="Decline"/>
3511     <xsd:enumeration value="Provisional"/>
3512   </xsd:restriction>
3513 </xsd:simpleType>
3514 <xsd:simpleType name="ResponseReasonType">
3515   <xsd:restriction base="xsd:string"/>
3516 </xsd:simpleType>
3517 <xsd:simpleType name="ResourceIDType">
3518   <xsd:restriction base="xsd:string"/>
3519 </xsd:simpleType>
3520 <xsd:simpleType name="ResourceNameType">
3521   <xsd:restriction base="xsd:string"/>
3522 </xsd:simpleType>
3523 <xsd:complexType name="TypeInfoType">
3524   <xsd:sequence>
3525     <xsd:any processContents="skip" maxOccurs="unbounded"/>
3526   </xsd:sequence>
3527   <xsd:anyAttribute/>
3528 </xsd:complexType>
3529 <xsd:simpleType name="DescriptionType">
3530   <xsd:restriction base="xsd:string"/>
3531 </xsd:simpleType>
3532 <xsd:simpleType name="CredentialsType">
3533   <xsd:restriction base="xsd:string"/>
3534 </xsd:simpleType>
3535 <xsd:simpleType name="CertificationsType">
3536   <xsd:restriction base="xsd:string"/>
3537 </xsd:simpleType>
3538 <xsd:simpleType name="SpecialRequirementsType">
3539   <xsd:restriction base="xsd:string"/>
3540 </xsd:simpleType>
3541 <xsd:complexType name="OwnershipInformationType">
3542   <!-- One (or both) of the Owner and OwningJurisdiction elements is required -->
3543   <xsd:sequence>
3544     <xsd:element name="Owner" type="OwnerType" minOccurs="0" maxOccurs="1"/>
3545     <xsd:element name="OwningJurisdiction" type="OwningJurisdictionType" minOccurs="0"
3546       maxOccurs="1"/>
3547     <xsd:element name="HomeDispatch" type="HomeDispatchType" minOccurs="0"
3548       maxOccurs="1"/>
3549     <xsd:element name="HomeUnit" type="HomeUnitType" minOccurs="0" maxOccurs="1"/>
3550   </xsd:sequence>

```

```

3551 </xsd:complexType>
3552 <xsd:simpleType name="OwnerType">
3553   <xsd:restriction base="xsd:string"/>
3554 </xsd:simpleType>
3555 <xsd:simpleType name="OwningJurisdictionType">
3556   <xsd:restriction base="xsd:string"/>
3557 </xsd:simpleType>
3558 <xsd:simpleType name="HomeDispatchType">
3559   <xsd:restriction base="xsd:string"/>
3560 </xsd:simpleType>
3561 <xsd:simpleType name="HomeUnitType">
3562   <xsd:restriction base="xsd:string"/>
3563 </xsd:simpleType>
3564 <xsd:simpleType name="AvailabilityType">
3565   <xsd:restriction base="xsd:string"/>
3566 </xsd:simpleType>
3567 <xsd:simpleType name="QuantityTypeOld">
3568   <xsd:restriction base="xsd:string"/>
3569 </xsd:simpleType>
3570 <xsd:complexType name="QuantityType">
3571   <xsd:choice>
3572     <xsd:element name="QuantityText" type="xsd:string" maxOccurs="unbounded"/>
3573     <xsd:element name="MeasuredQuantity">
3574       <xsd:complexType>
3575         <xsd:sequence>
3576           <xsd:element name="Amount" type="xsd:double"/>
3577           <xsd:element name="UnitOfMeasure" type="ValueListType" minOccurs="0"/>
3578         </xsd:sequence>
3579       </xsd:complexType>
3580     </xsd:element>
3581   </xsd:choice>
3582 </xsd:complexType>
3583 <xsd:simpleType name="RestrictionsType">
3584   <xsd:restriction base="xsd:string"/>
3585 </xsd:simpleType>
3586 <xsd:simpleType name="AnticipatedFunctionType">
3587   <xsd:restriction base="xsd:string"/>
3588 </xsd:simpleType>
3589 <xsd:complexType name="PriceQuoteType">
3590   <xsd:complexContent>
3591     <xsd:extension base="QuantityType"/>
3592   </xsd:complexContent>
3593 </xsd:complexType>
3594 <xsd:simpleType name="OrderIDType">
3595   <xsd:restriction base="xsd:string"/>
3596 </xsd:simpleType>
3597 <xsd:complexType name="AssignmentInstructionsType">
3598   <xsd:sequence>
3599     <xsd:element name="ModeOfTransportation" type="ModeOfTransportationType"
3600       minOccurs="0"
3601       maxOccurs="1"/>
3602     <xsd:element name="NavigationInstructions" type="NavigationInstructionsType"
3603       minOccurs="0" maxOccurs="1"/>
3604     <xsd:element name="ReportingInstructions" type="ReportingInstructionsType"
3605       minOccurs="0"
3606       maxOccurs="1"/>
3607   </xsd:sequence>
3608 </xsd:complexType>
3609 <xsd:simpleType name="ModeOfTransportationType">
3610   <xsd:restriction base="xsd:string"/>
3611 </xsd:simpleType>
3612 <xsd:simpleType name="NavigationInstructionsType">
3613   <xsd:restriction base="xsd:string"/>
3614 </xsd:simpleType>
3615 <xsd:simpleType name="ReportingInstructionsType">
3616   <xsd:restriction base="xsd:string"/>
3617 </xsd:simpleType>
3618 <xsd:simpleType name="ScheduleTypeType">
3619   <xsd:restriction base="xsd:string">
3620     <xsd:enumeration value="RequestedArrival"/>
3621     <xsd:enumeration value="EstimatedArrival"/>

```

```

3622     <xsd:enumeration value="ActualArrival"/>
3623     <xsd:enumeration value="RequestedDeparture"/>
3624     <xsd:enumeration value="EstimatedDeparture"/>
3625     <xsd:enumeration value="ActualDeparture"/>
3626     <xsd:enumeration value="EstimatedReturnDeparture"/>
3627     <xsd:enumeration value="EstimatedReturnArrival"/>
3628     <xsd:enumeration value="ActualReturnArrival"/>
3629     <xsd:enumeration value="RequestedReturnDeparture"/>
3630     <xsd:enumeration value="RequestedReturnArrival"/>
3631     <xsd:enumeration value="ActualReturnDeparture"/>
3632     <xsd:enumeration value="BeginAvailable"/>
3633     <xsd:enumeration value="EndAvailable"/>
3634     <xsd:enumeration value="Committed"/>
3635     <xsd:enumeration value="Current"/>
3636     <xsd:enumeration value="ReportTo"/>
3637     <xsd:enumeration value="Route"/>
3638   </xsd:restriction>
3639 </xsd:simpleType>
3640 <xsd:complexType name="LocationType">
3641   <xsd:sequence>
3642     <!-- One (or more) of the LocationDescription, Address and TargetArea elements is
3643       required -->
3644     <xsd:element name="LocationDescription" type="LocationDescriptionType"
3645       minOccurs="0"
3646       maxOccurs="1"/>
3647     <xsd:element name="Address" type="xal:AddressType" minOccurs="0" maxOccurs="1"/>
3648     <xsd:element name="TargetArea" type="geo-oasis:WhereType" minOccurs="0"
3649       maxOccurs="1"/>
3650   </xsd:sequence>
3651 </xsd:complexType>
3652 <xsd:simpleType name="LocationDescriptionType">
3653   <xsd:restriction base="xsd:string"/>
3654 </xsd:simpleType>
3655 <xsd:complexType name="ValueListType">
3656   <xsd:sequence>
3657     <xsd:element name="ValueListURN" type="ValueListURNTYPE"/>
3658     <xsd:element name="Value" type="ValueType" maxOccurs="unbounded"/>
3659   </xsd:sequence>
3660 </xsd:complexType>
3661 <xsd:simpleType name="ValueListURNTYPE">
3662   <xsd:restriction base="xsd:anyURI"/>
3663 </xsd:simpleType>
3664 <xsd:simpleType name="ValueType">
3665   <xsd:restriction base="xsd:string"/>
3666 </xsd:simpleType>
3667 </xsd:schema>
3668

```

3669 A.2 Resource Messaging Reference Schema

```

3670 <schema xmlns="http://www.w3.org/2001/XMLSchema"
3671   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3672   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3673   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3674   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3675   elementFormDefault="qualified"
3676   attributeFormDefault="unqualified">
3677 <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3678   schemaLocation="EDXL-RMCommonTypes.xsd"/>
3679 <!-- This schema is the base reference schema for all EDXL-RM messages.
3680   All resource messages will conform to this schema and to the elementicular
3681   sub-schema corresponding to the message type.-->
3682 <complexType name="EDXLResourceMessageReferenceType">
3683   <sequence>
3684     <element name="MessageID" type="rm:MessageIDType"/>
3685     <element name="SentDateTime" type="rm:DateTimeType"/>
3686     <element name="MessageContentType" type="rm:MessageContentTypeType"/>
3687     <element name="MessageDescription" type="rm:MessageDescriptionType"
3688       minOccurs="0" maxOccurs="1"/>

```

```

3689 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3690 <element name="PrecedingMessageID" type="rm:MessageIDType"
3691   minOccurs="0" maxOccurs="1"/>
3692 <element name="IncidentInformation" type="rm:IncidentInformationType"
3693   minOccurs="0" maxOccurs="unbounded"/>
3694 <element name="MessageRecall" type="rm:MessageRecallType"
3695   minOccurs="0" maxOccurs="1"/>
3696 <element name="Funding" type="rm:FundingType" minOccurs="0"
3697   maxOccurs="unbounded"/>
3698 <element name="ContactInformation" type="rm:ContactInformationType"
3699   minOccurs="1" maxOccurs="unbounded"/>
3700 <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
3701   <complexType>
3702     <sequence>
3703       <element name="ResourceInfoElementID"
3704         type="rm:ResourceInfoElementIDType"/>
3705       <element name="ResponseInformation" type="rm:ResponseInformationType"
3706         minOccurs="0" maxOccurs="1"/>
3707       <element name="Resource" minOccurs="0" maxOccurs="1">
3708         <complexType>
3709           <sequence>
3710             <!-- One (or more) of first three elements is required -->
3711             <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
3712               maxOccurs="1"/>
3713             <element name="Name" type="rm:ResourceNameType" minOccurs="0"
3714               maxOccurs="1"/>
3715             <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
3716               maxOccurs="1"/>
3717             <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
3718               maxOccurs="1"/>
3719             <element name="Keyword" type="rm:ValueListType" minOccurs="0"
3720               maxOccurs="unbounded"/>
3721             <element name="Description" type="rm:DescriptionType" minOccurs="0"
3722               maxOccurs="1"/>
3723             <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
3724               maxOccurs="1"/>
3725             <element name="Certifications" type="rm:CertificationsType"
3726               minOccurs="0" maxOccurs="1"/>
3727             <element name="SpecialRequirements"
3728               type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
3729             <element name="ResponsibleParty" type="rm:ContactInformationType"
3730               minOccurs="0" maxOccurs="1"/>
3731             <element name="OwnershipInformation"
3732               type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3733             <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
3734               <complexType>
3735                 <sequence>
3736                   <element name="InventoryRefreshDateTime"
3737                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3738                   <element name="DeploymentStatus" type="rm:ValueListType"
3739                     minOccurs="0" maxOccurs="1"/>
3740                   <element name="Availability" type="rm:AvailabilityType"
3741                     minOccurs="0" maxOccurs="1"/>
3742                 </sequence>
3743               </complexType>
3744             </element>
3745           </sequence>
3746         </complexType>
3747       </element>
3748     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3749       <complexType>
3750         <sequence>
3751           <element name="Quantity" type="rm:QuantityType" minOccurs="0"
3752             maxOccurs="1"/>
3753           <element name="Restrictions" type="rm:RestrictionsType"
3754             minOccurs="0" maxOccurs="1"/>
3755           <element name="AnticipatedFunction"
3756             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3757           <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
3758             maxOccurs="1"/>
3759           <element name="OrderID" type="rm:OrderIDType" minOccurs="0"

```

```

3760         maxOccurs="1"/>
3761         <element name="AssignmentInstructions"
3762             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
3763     </sequence>
3764 </complexType>
3765 </element>
3766 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3767     <complexType>
3768         <sequence>
3769             <element name="ScheduleType" type="rm:ScheduleTypeType"/>
3770             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
3771                 maxOccurs="1"/>
3772             <element name="Location" type="rm:LocationType" minOccurs="0"
3773                 maxOccurs="1"/>
3774         </sequence>
3775     </complexType>
3776 </element>
3777 </sequence>
3778 </complexType>
3779 </element>
3780 </sequence>
3781 </complexType>
3782 </schema>

```

3783 A.3 RequestResource Message Schema

```

3784 <schema xmlns="http://www.w3.org/2001/XMLSchema"
3785     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3786     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
3787     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3788     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3789     elementFormDefault="qualified" attributeFormDefault="unqualified">
3790 <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3791     schemaLocation="EDXL-RMCommonTypes.xsd"/>
3792 <!-- This schema describes the structure of
3793     EDXL-RM "RequestResource" messages.-->
3794 <element name="RequestResource">
3795     <complexType>
3796         <sequence>
3797             <element name="MessageID" type="rm:MessageIDType"/>
3798             <element name="SentDateTime" type="rm:DateTimeType"/>
3799             <element name="MessageContentType">
3800                 <simpleType>
3801                     <restriction base="rm:MessageContentTypeType">
3802                         <enumeration value="RequestResource"/>
3803                     </restriction>
3804                 </simpleType>
3805             </element>
3806
3807             <element name="MessageDescription" type="rm:MessageDescriptionType" minOccurs="0"
3808                 maxOccurs="1"/>
3809             <element name="OriginatingMessageID" type="rm:MessageIDType"/>
3810             <element name="IncidentInformation" type="rm:IncidentInformationType"
3811                 minOccurs="0" maxOccurs="unbounded"/>
3812             <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
3813                 maxOccurs="1"/>
3814             <element name="Funding" minOccurs="0" maxOccurs="unbounded">
3815                 <complexType>
3816                     <sequence>
3817                         <!-- One(or both) of the FundCode and FundingInfo elements is required -->
3818                         <element name="FundCode" type="rm:FundCodeType" minOccurs="0"
3819                             maxOccurs="1"/>
3820                         <element name="FundingInfo" type="rm:FundingInfoType" minOccurs="0"
3821                             maxOccurs="1"/>
3822                     </sequence>
3823                 </complexType>
3824             </element>
3825             <element name="ContactInformation" type="rm:ContactInformationType"
3826                 minOccurs="1" maxOccurs="unbounded"/>

```

```

3827 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
3828   <complexType>
3829     <sequence>
3830       <element name="ResourceInfoElementID"
3831         type="rm:ResourceInfoElementIDType" />
3832       <element name="Resource">
3833         <complexType>
3834           <sequence>
3835             <!-- One (or more) of first three elements is required -->
3836             <element name="ResourceID" type="rm:ResourceIDType"
3837               minOccurs="0" maxOccurs="1" />
3838             <element name="Name" type="rm:ResourceNameType"
3839               minOccurs="0" maxOccurs="1" />
3840             <element name="TypeStructure" type="rm:ValueListType"
3841               minOccurs="0" maxOccurs="1" />
3842             <element name="TypeInfo" type="rm:TypeInfoType"
3843               minOccurs="0" maxOccurs="1" />
3844             <element name="Keyword" type="rm:ValueListType"
3845               minOccurs="0" maxOccurs="unbounded" />
3846             <element name="Description" type="rm:DescriptionType"
3847               minOccurs="0" maxOccurs="1" />
3848             <element name="Credentials" type="rm:CredentialsType"
3849               minOccurs="0" maxOccurs="1" />
3850             <element name="Certifications" type="rm:CertificationsType"
3851               minOccurs="0" maxOccurs="1" />
3852             <element name="SpecialRequirements"
3853               type="rm:SpecialRequirementsType" minOccurs="0"
3854               maxOccurs="1" />
3855           </sequence>
3856         </complexType>
3857       </element>
3858     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3859       <complexType>
3860         <sequence>
3861           <element name="Quantity" type="rm:QuantityType"
3862             minOccurs="0" maxOccurs="1" />
3863           <element name="Restrictions" type="rm:RestrictionsType"
3864             minOccurs="0" maxOccurs="1" />
3865           <element name="AnticipatedFunction"
3866             type="rm:AnticipatedFunctionType" minOccurs="0"
3867             maxOccurs="1" />
3868         </sequence>
3869       </complexType>
3870     </element>
3871   <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
3872     <complexType>
3873       <sequence>
3874         <element name="ScheduleType">
3875           <simpleType>
3876             <restriction base="rm:ScheduleTypeType">
3877               <enumeration value="RequestedArrival" />
3878               <enumeration value="RequestedDeparture" />
3879               <enumeration value="EstimatedReturnDeparture" />
3880               <enumeration value="EstimatedReturnArrival" />
3881               <enumeration value="ReportTo" />
3882               <enumeration value="Route" />
3883             </restriction>
3884           </simpleType>
3885         </element>
3886         <element name="DateTime" type="rm:DateTimeType"
3887           minOccurs="0" maxOccurs="1" />
3888         <element name="Location" type="rm:LocationType"
3889           minOccurs="0" maxOccurs="1" />
3890       </sequence>
3891     </complexType>
3892   </element>
3893 </sequence>
3894 </complexType>
3895 </element>
3896 </sequence>
3897 </complexType>

```

3898
3899

```
</element>  
</schema>
```

3900 A.4 ResponseToRequestResource Message Schema

```
3901 <schema xmlns="http://www.w3.org/2001/XMLSchema"  
3902   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"  
3903   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"  
3904   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"  
3905   xmlns:xsd="http://www.w3.org/2001/XMLSchema"  
3906   elementFormDefault="qualified"  
3907   attributeFormDefault="unqualified">  
3908   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"  
3909     schemaLocation="EDXL-RMCommonTypes.xsd"/>  
3910   <!-- This schema describes the structure of  
3911     EDXL-RM "ResponseToRequestResource"  
3912     messages.-->  
3913   <element name="ResponseToRequestResource">  
3914     <complexType>  
3915       <sequence>  
3916         <element name="MessageID" type="rm:MessageIDType"/>  
3917         <element name="SentDateTime" type="rm:DateTimeType"/>  
3918         <element name="MessageContentType">  
3919           <simpleType>  
3920             <restriction base="rm:MessageContentTypeType">  
3921               <enumeration value="ResponseToRequestResource"/>  
3922             </restriction>  
3923           </simpleType>  
3924         </element>  
3925         <element name="MessageDescription" type="rm:MessageDescriptionType"  
3926           minOccurs="0" maxOccurs="1"/>  
3927         <element name="OriginatingMessageID" type="rm:MessageIDType"/>  
3928         <element name="PrecedingMessageID" type="rm:MessageIDType"/>  
3929         <element name="IncidentInformation" type="rm:IncidentInformationType"  
3930           minOccurs="0" maxOccurs="unbounded"/>  
3931         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"  
3932           maxOccurs="1"/>  
3933         <element name="Funding" type="rm:FundingType" minOccurs="0"  
3934           maxOccurs="unbounded"/>  
3935         <element name="ContactInformation" type="rm:ContactInformationType"  
3936           minOccurs="1" maxOccurs="unbounded"/>  
3937         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">  
3938           <complexType>  
3939             <sequence>  
3940               <element name="ResourceInfoElementID"  
3941                 type="rm:ResourceInfoElementIDType"/>  
3942               <element name="ResponseInformation" type="rm:ResponseInformationType"/>  
3943               <element name="Resource" minOccurs="0" maxOccurs="1">  
3944                 <complexType>  
3945                   <sequence>  
3946                     <!-- One (or more) of first three elements is required -->  
3947                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"  
3948                       maxOccurs="1"/>  
3949                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"  
3950                       maxOccurs="1"/>  
3951                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"  
3952                       maxOccurs="1"/>  
3953                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"  
3954                       maxOccurs="1"/>  
3955                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"  
3956                       maxOccurs="unbounded"/>  
3957                     <element name="Description" type="rm:DescriptionType" minOccurs="0"  
3958                       maxOccurs="1"/>  
3959                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"  
3960                       maxOccurs="1"/>  
3961                     <element name="Certifications" type="rm:CertificationsType"  
3962                       minOccurs="0" maxOccurs="1"/>  
3963                     <element name="SpecialRequirements"  
3964                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
```

```

3965     <element name="ResponsibleParty" type="rm:ContactInformationType"
3966         minOccurs="0" maxOccurs="1"/>
3967     <element name="OwnershipInformation"
3968         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3969     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
3970         <complexType>
3971             <sequence>
3972                 <element name="InventoryRefreshDateTime"
3973                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3974                 <element name="DeploymentStatus" type="rm:ValueListType"
3975                     minOccurs="0" maxOccurs="1"/>
3976                 <element name="Availability" type="rm:AvailabilityType"
3977                     minOccurs="0" maxOccurs="1"/>
3978             </sequence>
3979         </complexType>
3980     </element>
3981 </sequence>
3982 </complexType>
3983 </element>
3984 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
3985     <complexType>
3986         <sequence>
3987             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
3988                 maxOccurs="1"/>
3989             <element name="Restrictions" type="rm:RestrictionsType"
3990                 minOccurs="0" maxOccurs="1"/>
3991             <element name="AnticipatedFunction"
3992                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3993             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
3994                 maxOccurs="1"/>
3995             <element name="AssignmentInstructions"
3996                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
3997         </sequence>
3998     </complexType>
3999 </element>
4000 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4001     <complexType>
4002         <sequence>
4003             <element name="ScheduleType">
4004                 <simpleType>
4005                     <restriction base="rm:ScheduleTypeType">
4006                         <enumeration value="EstimatedArrival"/>
4007                         <enumeration value="EstimatedDeparture"/>
4008                         <enumeration value="RequestedReturnDeparture"/>
4009                         <enumeration value="RequestedReturnArrival"/>
4010                         <enumeration value="BeginAvailable"/>
4011                         <enumeration value="EndAvailable"/>
4012                         <enumeration value="RequestedArrival"/>
4013                         <enumeration value="RequestedDeparture"/>
4014                         <enumeration value="EstimatedReturnDeparture"/>
4015                         <enumeration value="ReportTo"/>
4016                         <enumeration value="Route"/>
4017                     </restriction>
4018                 </simpleType>
4019             </element>
4020             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4021                 maxOccurs="1"/>
4022             <element name="Location" type="rm:LocationType" minOccurs="0"
4023                 maxOccurs="1"/>
4024         </sequence>
4025     </complexType>
4026 </element>
4027 </sequence>
4028 </complexType>
4029 </element>
4030 </sequence>
4031 </complexType>
4032 </element>
4033 </schema>

```

A.5 RequisitionResource Message Schema

```

4035 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4036   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4037   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4038   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4039   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4040   elementFormDefault="qualified"
4041   attributeFormDefault="unqualified">
4042   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4043     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4044   <!-- This schema describes the structure of
4045     EDXL-RM "RequisitionResource" messages.-->
4046   <element name="RequisitionResource">
4047     <complexType>
4048       <sequence>
4049         <element name="MessageID" type="rm:MessageIDType"/>
4050         <element name="SentDateTime" type="rm:DateTimeType"/>
4051         <element name="MessageContentType">
4052           <simpleType>
4053             <restriction base="rm:MessageContentTypeType">
4054               <enumeration value="RequisitionResource"/>
4055             </restriction>
4056           </simpleType>
4057         </element>
4058         <element name="MessageDescription" type="rm:MessageDescriptionType"
4059           minOccurs="0" maxOccurs="1"/>
4060         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4061         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4062           maxOccurs="1"/>
4063         <element name="IncidentInformation" type="rm:IncidentInformationType"
4064           minOccurs="0" maxOccurs="unbounded"/>
4065         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4066           maxOccurs="1"/>
4067         <element name="Funding" type="rm:FundingType" minOccurs="1"
4068           maxOccurs="unbounded"/>
4069         <element name="ContactInformation" type="rm:ContactInformationType"
4070           minOccurs="1" maxOccurs="unbounded"/>
4071         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4072           <complexType>
4073             <sequence>
4074               <element name="ResourceInfoElementID"
4075                 type="rm:ResourceInfoElementIDType"/>
4076               <element name="Resource">
4077                 <complexType>
4078                   <sequence>
4079                     <!-- One (or more) of first three elements is required -->
4080                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4081                       maxOccurs="1"/>
4082                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4083                       maxOccurs="1"/>
4084                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4085                       maxOccurs="1"/>
4086                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4087                       maxOccurs="1"/>
4088                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4089                       maxOccurs="unbounded"/>
4090                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4091                       maxOccurs="1"/>
4092                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4093                       maxOccurs="1"/>
4094                     <element name="Certifications" type="rm:CertificationsType"
4095                       minOccurs="0" maxOccurs="1"/>
4096                     <element name="SpecialRequirements"
4097                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4098                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4099                       minOccurs="0" maxOccurs="1"/>
4100                     <element name="OwnershipInformation"
4101                       type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4102                   </sequence>

```

```

4103         </complexType>
4104     </element>
4105     <element name="AssignmentInformation">
4106         <complexType>
4107             <sequence>
4108                 <element name="Quantity" type="rm:QuantityType"/>
4109                 <element name="Restrictions" type="rm:RestrictionsType"
4110                     minOccurs="0" maxOccurs="1"/>
4111                 <element name="AnticipatedFunction"
4112                     type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4113                 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4114                     maxOccurs="1"/>
4115                 <element name="AssignmentInstructions"
4116                     type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4117             </sequence>
4118         </complexType>
4119     </element>
4120     <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4121         <complexType>
4122             <sequence>
4123                 <element name="ScheduleType">
4124                     <simpleType>
4125                         <restriction base="rm:ScheduleTypeType">
4126                             <enumeration value="EstimatedArrival"/>
4127                             <enumeration value="EstimatedDeparture"/>
4128                             <enumeration value="EstimatedReturnDeparture"/>
4129                             <enumeration value="EstimatedReturnArrival"/>
4130                             <enumeration value="ReportTo"/>
4131                             <enumeration value="RequestedArrival"/>
4132                             <enumeration value="RequestedDeparture"/>
4133                             <enumeration value="Route"/>
4134                         </restriction>
4135                     </simpleType>
4136                 </element>
4137                 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4138                     maxOccurs="1"/>
4139                 <element name="Location" type="rm:LocationType" minOccurs="0"
4140                     maxOccurs="1"/>
4141             </sequence>
4142         </complexType>
4143     </element>
4144 </sequence>
4145 </complexType>
4146 </element>
4147 </sequence>
4148 </complexType>
4149 </element>
4150 </schema>

```

4151 A.6 CommitResource Message Schema

```

4152 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4153     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4154     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4155     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4156     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4157     elementFormDefault="qualified"
4158     attributeFormDefault="unqualified">
4159     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4160         schemaLocation="EDXL-RMCommonTypes.xsd"/>
4161     <!-- This schema describes the structure of
4162         EDXL-RM "CommitResource" messages.-->
4163     <element name="CommitResource">
4164         <complexType>
4165             <sequence>
4166                 <element name="MessageID" type="rm:MessageIDType"/>
4167                 <element name="SentDateTime" type="rm:DateTimeType"/>
4168                 <element name="MessageContentType">
4169                     <simpleType>

```

```

4170         <restriction base="rm:MessageContentTypeType">
4171             <enumeration value="CommitResource"/>
4172         </restriction>
4173     </simpleType>
4174 </element>
4175 <element name="MessageDescription" type="rm:MessageDescriptionType"
4176     minOccurs="0" maxOccurs="1"/>
4177 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4178 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4179 <element name="IncidentInformation" type="rm:IncidentInformationType"
4180     minOccurs="0" maxOccurs="unbounded"/>
4181 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4182     maxOccurs="1"/>
4183 <element name="Funding" type="rm:FundingType" minOccurs="0"
4184     maxOccurs="unbounded"/>
4185 <element name="ContactInformation" type="rm:ContactInformationType"
4186     minOccurs="1" maxOccurs="unbounded"/>
4187 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4188     <complexType>
4189         <sequence>
4190             <element name="ResourceInfoElementID"
4191                 type="rm:ResourceInfoElementIDType"/>
4192             <element name="ResponseInformation" type="rm:ResponseInformationType"/>
4193             <element name="Resource" minOccurs="0" maxOccurs="1">
4194                 <complexType>
4195                     <sequence>
4196                         <!-- One (or more) of first three elements is required -->
4197                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4198                             maxOccurs="1"/>
4199                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4200                             maxOccurs="1"/>
4201                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4202                             maxOccurs="1"/>
4203                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4204                             maxOccurs="1"/>
4205                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4206                             maxOccurs="unbounded"/>
4207                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
4208                             maxOccurs="1"/>
4209                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4210                             maxOccurs="1"/>
4211                         <element name="Certifications" type="rm:CertificationsType"
4212                             minOccurs="0" maxOccurs="1"/>
4213                         <element name="SpecialRequirements"
4214                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4215                         <element name="ResponsibleParty" type="rm:ContactInformationType"
4216                             minOccurs="0" maxOccurs="1"/>
4217                         <element name="OwnershipInformation"
4218                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4219                         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4220                             <complexType>
4221                                 <sequence>
4222                                     <element name="InventoryRefreshDateTime"
4223                                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4224                                     <element name="DeploymentStatus" type="rm:ValueListType"
4225                                         minOccurs="0" maxOccurs="1"/>
4226                                 </sequence>
4227                             </complexType>
4228                         </element>
4229                     </sequence>
4230                 </complexType>
4231             </element>
4232             <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4233                 <complexType>
4234                     <sequence>
4235                         <element name="Quantity" type="rm:QuantityType"/>
4236                         <element name="Restrictions" type="rm:RestrictionsType"
4237                             minOccurs="0" maxOccurs="1"/>
4238                         <element name="AnticipatedFunction"
4239                             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4240                         <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"

```

```

4241         maxOccurs="1"/>
4242         <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4243         maxOccurs="1"/>
4244         <element name="AssignmentInstructions"
4245         type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4246     </sequence>
4247 </complexType>
4248 </element>
4249 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4250 <complexType>
4251 <sequence>
4252 <element name="ScheduleType">
4253 <simpleType>
4254 <restriction base="rm:ScheduleTypeType">
4255 <enumeration value="ActualDeparture"/>
4256 <enumeration value="Committed"/>
4257 <enumeration value="RequestedArrival"/>
4258 <enumeration value="RequestedDeparture"/>
4259 <enumeration value="EstimatedReturnDeparture"/>
4260 <enumeration value="RequestedReturnArrival"/>
4261 <enumeration value="EstimatedReturnArrival"/>
4262 <enumeration value="ReportTo"/>
4263 <enumeration value="EstimatedArrival"/>
4264 <enumeration value="EstimatedDeparture"/>
4265 <enumeration value="RequestedReturnDeparture"/>
4266 <enumeration value="BeginAvailable"/>
4267 <enumeration value="EndAvailable"/>
4268 <enumeration value="Current"/>
4269 <enumeration value="Route"/>
4270 </restriction>
4271 </simpleType>
4272 </element>
4273 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4274 maxOccurs="1"/>
4275 <element name="Location" type="rm:LocationType" minOccurs="0"
4276 maxOccurs="1"/>
4277 </sequence>
4278 </complexType>
4279 </element>
4280 </sequence>
4281 </complexType>
4282 </element>
4283 </sequence>
4284 </complexType>
4285 </element>
4286 </schema>

```

4287 A.7 RequestInformation Message Schema

```

4288 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4289 xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4290 targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4291 xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4292 xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4293 elementFormDefault="qualified"
4294 attributeFormDefault="unqualified">
4295 <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4296 schemaLocation="EDXL-RMCommonTypes.xsd"/>
4297 <!-- This schema describes the structure of
4298 EDXL-RM "RequestInformation" messages.-->
4299 <element name="RequestInformation">
4300 <complexType>
4301 <sequence>
4302 <element name="MessageID" type="rm:MessageIDType"/>
4303 <element name="SentDateTime" type="rm:DateTimeType"/>
4304 <element name="MessageContentType">
4305 <simpleType>
4306 <restriction base="rm:MessageContentTypeType">
4307 <enumeration value="RequestInformation"/>

```

```

4308         </restriction>
4309     </simpleType>
4310 </element>
4311 <element name="MessageDescription" type="rm:MessageDescriptionType" />
4312 <element name="OriginatingMessageID" type="rm:MessageIDType" />
4313 <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4314     maxOccurs="1" />
4315 <element name="IncidentInformation" type="rm:IncidentInformationType"
4316     minOccurs="0" maxOccurs="unbounded" />
4317 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4318     maxOccurs="1" />
4319 <element name="Funding" type="rm:FundingType" minOccurs="0"
4320     maxOccurs="unbounded" />
4321 <element name="ContactInformation" type="rm:ContactInformationType"
4322     minOccurs="1" maxOccurs="unbounded" />
4323 <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
4324     <complexType>
4325         <sequence>
4326             <element name="ResourceInfoElementID"
4327                 type="rm:ResourceInfoElementIDType" />
4328             <element name="Resource" minOccurs="0" maxOccurs="1">
4329                 <complexType>
4330                     <sequence>
4331                         <!-- One (or more) of first three elements is required -->
4332                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4333                             maxOccurs="1" />
4334                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4335                             maxOccurs="1" />
4336                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4337                             maxOccurs="1" />
4338                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4339                             maxOccurs="1" />
4340                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4341                             maxOccurs="unbounded" />
4342                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
4343                             maxOccurs="1" />
4344                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4345                             maxOccurs="1" />
4346                         <element name="Certifications" type="rm:CertificationsType"
4347                             minOccurs="0" maxOccurs="1" />
4348                         <element name="SpecialRequirements"
4349                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1" />
4350                         <element name="ResponsibleParty" type="rm:ContactInformationType"
4351                             minOccurs="0" maxOccurs="1" />
4352                         <element name="OwnershipInformation"
4353                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1" />
4354                         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4355                             <complexType>
4356                                 <sequence>
4357                                     <element name="InventoryRefreshDateTime"
4358                                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1" />
4359                                     <element name="DeploymentStatus" type="rm:ValueListType"
4360                                         minOccurs="0" maxOccurs="1" />
4361                                     <element name="Availability" type="rm:AvailabilityType"
4362                                         minOccurs="0" maxOccurs="1" />
4363                                 </sequence>
4364                             </complexType>
4365                         </element>
4366                     </sequence>
4367                 </complexType>
4368             </element>
4369             <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4370                 <complexType>
4371                     <sequence>
4372                         <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4373                             maxOccurs="1" />
4374                         <element name="Restrictions" type="rm:RestrictionsType"
4375                             minOccurs="0" maxOccurs="1" />
4376                         <element name="AnticipatedFunction"
4377                             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1" />
4378                         <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"

```

```

4379         maxOccurs="1"/>
4380         <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4381         maxOccurs="1"/>
4382         <element name="AssignmentInstructions"
4383         type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4384     </sequence>
4385 </complexType>
4386 </element>
4387 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4388 <complexType>
4389 <sequence>
4390 <element name="ScheduleType" type="rm:ScheduleTypeType"/>
4391 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4392     maxOccurs="1"/>
4393 <element name="Location" type="rm:LocationType" minOccurs="0"
4394     maxOccurs="1"/>
4395 </sequence>
4396 </complexType>
4397 </element>
4398 </sequence>
4399 </complexType>
4400 </element>
4401 </sequence>
4402 </complexType>
4403 </element>
4404 </schema>

```

4405 A.8 ResponseToRequestInformation Message Schema

```

4406 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4407     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4408     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4409     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4410     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4411     elementFormDefault="qualified"
4412     attributeFormDefault="unqualified">
4413 <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4414     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4415 <!-- This schema describes the structure of
4416     EDXL-RM "ResponseToRequestInformation" messages.-->
4417 <element name="ResponseToRequestInformation">
4418 <complexType>
4419 <sequence>
4420 <element name="MessageID" type="rm:MessageIDType"/>
4421 <element name="SentDateTime" type="rm:DateTimeType"/>
4422 <element name="MessageContentType">
4423 <simpleType>
4424 <restriction base="rm:MessageContentTypeType">
4425 <enumeration value="ResponseToRequestInformation"/>
4426 </restriction>
4427 </simpleType>
4428 </element>
4429 <element name="MessageDescription" type="rm:MessageDescriptionType"
4430     minOccurs="0" maxOccurs="1"/>
4431 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4432 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4433 <element name="IncidentInformation" type="rm:IncidentInformationType"
4434     minOccurs="0" maxOccurs="unbounded"/>
4435 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4436     maxOccurs="1"/>
4437 <element name="Funding" type="rm:FundingType" minOccurs="0"
4438     maxOccurs="unbounded"/>
4439 <element name="ContactInformation" type="rm:ContactInformationType"
4440     minOccurs="1" maxOccurs="unbounded"/>
4441 <element name="ResourceInformation" minOccurs="0" maxOccurs="unbounded">
4442 <complexType>
4443 <sequence>
4444 <element name="ResourceInfoElementID"
4445     type="rm:ResourceInfoElementIDType"/>

```

```

4446 <element name="ResponseInformation" type="rm:ResponseInformationType"
4447 minOccurs="0" maxOccurs="1"/>
4448 <element name="Resource" minOccurs="0" maxOccurs="1">
4449 <complexType>
4450 <sequence>
4451 <!-- One (or more) of first three elements is required -->
4452 <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4453 maxOccurs="1"/>
4454 <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4455 maxOccurs="1"/>
4456 <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4457 maxOccurs="1"/>
4458 <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4459 maxOccurs="1"/>
4460 <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4461 maxOccurs="unbounded"/>
4462 <element name="Description" type="rm:DescriptionType" minOccurs="0"
4463 maxOccurs="1"/>
4464 <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4465 maxOccurs="1"/>
4466 <element name="Certifications" type="rm:CertificationsType"
4467 minOccurs="0" maxOccurs="1"/>
4468 <element name="SpecialRequirements"
4469 type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4470 <element name="ResponsibleParty" type="rm:ContactInformationType"
4471 minOccurs="0" maxOccurs="1"/>
4472 <element name="OwnershipInformation"
4473 type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4474 <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4475 <complexType>
4476 <sequence>
4477 <element name="InventoryRefreshDateTime"
4478 type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4479 <element name="DeploymentStatus" type="rm:ValueListType"
4480 minOccurs="0" maxOccurs="1"/>
4481 <element name="Availability" type="rm:AvailabilityType"
4482 minOccurs="0" maxOccurs="1"/>
4483 </sequence>
4484 </complexType>
4485 </element>
4486 </sequence>
4487 </complexType>
4488 </element>
4489 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4490 <complexType>
4491 <sequence>
4492 <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4493 maxOccurs="1"/>
4494 <element name="Restrictions" type="rm:RestrictionsType"
4495 minOccurs="0" maxOccurs="1"/>
4496 <element name="AnticipatedFunction"
4497 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4498 <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4499 maxOccurs="1"/>
4500 <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4501 maxOccurs="1"/>
4502 <element name="AssignmentInstructions"
4503 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4504 </sequence>
4505 </complexType>
4506 </element>
4507 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4508 <complexType>
4509 <sequence>
4510 <element name="ScheduleType" type="rm:ScheduleTypeType"/>
4511 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4512 maxOccurs="1"/>
4513 <element name="Location" type="rm:LocationType" minOccurs="0"
4514 maxOccurs="1"/>
4515 </sequence>
4516 </complexType>

```

```
4517         </element>
4518     </sequence>
4519 </complexType>
4520 </element>
4521 </sequence>
4522 </complexType>
4523 </element>
4524 </schema>
```

4525 A.9 OfferUnsolicitedResource Message Schema

```
4526 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4527     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4528     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4529     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4530     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4531     elementFormDefault="qualified"
4532     attributeFormDefault="unqualified">
4533     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4534         schemaLocation="EDXL-RMCommonTypes.xsd"/>
4535     <!-- This schema describes the structure of
4536         EDXL-RM "OfferUnsolicitedResource" messages.-->
4537     <element name="OfferUnsolicitedResource">
4538         <complexType>
4539             <sequence>
4540                 <element name="MessageID" type="rm:MessageIDType"/>
4541                 <element name="SentDateTime" type="rm:DateTimeType"/>
4542                 <element name="MessageContentType">
4543                     <simpleType>
4544                         <restriction base="rm:MessageContentTypeType">
4545                             <enumeration value="OfferUnsolicitedResource"/>
4546                         </restriction>
4547                     </simpleType>
4548                 </element>
4549                 <element name="MessageDescription" type="rm:MessageDescriptionType"
4550                     minOccurs="0" maxOccurs="1"/>
4551                 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4552                 <element name="IncidentInformation" type="rm:IncidentInformationType"
4553                     minOccurs="0" maxOccurs="unbounded"/>
4554                 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4555                     maxOccurs="1"/>
4556                 <element name="ContactInformation" type="rm:ContactInformationType"
4557                     minOccurs="1" maxOccurs="unbounded"/>
4558                 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4559                     <complexType>
4560                         <sequence>
4561                             <element name="ResourceInfoElementID"
4562                                 type="rm:ResourceInfoElementIDType"/>
4563                             <element name="Resource">
4564                                 <complexType>
4565                                     <sequence>
4566                                         <!-- One (or more) of first three elements is required -->
4567                                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4568                                             maxOccurs="1"/>
4569                                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4570                                             maxOccurs="1"/>
4571                                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4572                                             maxOccurs="1"/>
4573                                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4574                                             maxOccurs="1"/>
4575                                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4576                                             maxOccurs="unbounded"/>
4577                                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
4578                                             maxOccurs="1"/>
4579                                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4580                                             maxOccurs="1"/>
4581                                         <element name="Certifications" type="rm:CertificationsType"
4582                                             minOccurs="0" maxOccurs="1"/>
4583                                         <element name="SpecialRequirements"
```

```

4584         type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4585     <element name="ResponsibleParty" type="rm:ContactInformationType"
4586         minOccurs="0" maxOccurs="1"/>
4587     <element name="OwnershipInformation"
4588         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4589     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4590         <complexType>
4591             <sequence>
4592                 <element name="InventoryRefreshDateTime"
4593                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4594                 <element name="DeploymentStatus" type="rm:ValueListType"
4595                     minOccurs="0" maxOccurs="1"/>
4596                 <element name="Availability" type="rm:AvailabilityType"
4597                     minOccurs="0" maxOccurs="1"/>
4598             </sequence>
4599         </complexType>
4600     </element>
4601 </sequence>
4602 </complexType>
4603 </element>
4604 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4605     <complexType>
4606         <sequence>
4607             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4608                 maxOccurs="1"/>
4609             <element name="Restrictions" type="rm:RestrictionsType"
4610                 minOccurs="0" maxOccurs="1"/>
4611             <element name="AnticipatedFunction"
4612                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4613             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4614                 maxOccurs="1"/>
4615             <element name="AssignmentInstructions"
4616                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4617         </sequence>
4618     </complexType>
4619 </element>
4620 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4621     <complexType>
4622         <sequence>
4623             <element name="ScheduleType">
4624                 <simpleType>
4625                     <restriction base="rm:ScheduleTypeType">
4626                         <enumeration value="EstimatedArrival"/>
4627                         <enumeration value="EstimatedDeparture"/>
4628                         <enumeration value="RequestedReturnDeparture"/>
4629                         <enumeration value="RequestedReturnArrival"/>
4630                         <enumeration value="BeginAvailable"/>
4631                         <enumeration value="EndAvailable"/>
4632                         <enumeration value="Route"/>
4633                     </restriction>
4634                 </simpleType>
4635             </element>
4636             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4637                 maxOccurs="1"/>
4638             <element name="Location" type="rm:LocationType" minOccurs="0"
4639                 maxOccurs="1"/>
4640         </sequence>
4641     </complexType>
4642 </element>
4643 </sequence>
4644 </complexType>
4645 </element>
4646 </sequence>
4647 </complexType>
4648 </element>
4649 </schema>

```

A.10 ReleaseResource Message Schema

```

4651 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4652   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4653   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4654   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4655   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4656   elementFormDefault="qualified"
4657   attributeFormDefault="unqualified">
4658   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4659     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4660   <!-- This schema describes the structure of
4661     EDXL-RM "ReleaseResource" messages.-->
4662   <element name="ReleaseResource">
4663     <complexType>
4664       <sequence>
4665         <element name="MessageID" type="rm:MessageIDType"/>
4666         <element name="SentDateTime" type="rm:DateTimeType"/>
4667         <element name="MessageContentType">
4668           <simpleType>
4669             <restriction base="rm:MessageContentTypeType">
4670               <enumeration value="ReleaseResource"/>
4671             </restriction>
4672           </simpleType>
4673         </element>
4674         <element name="MessageDescription" type="rm:MessageDescriptionType"
4675           minOccurs="0" maxOccurs="1"/>
4676         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4677         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4678           maxOccurs="1"/>
4679         <element name="IncidentInformation" type="rm:IncidentInformationType"
4680           minOccurs="0" maxOccurs="unbounded"/>
4681         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4682           maxOccurs="1"/>
4683         <element name="Funding" type="rm:FundingType" minOccurs="0"
4684           maxOccurs="unbounded"/>
4685         <element name="ContactInformation" type="rm:ContactInformationType"
4686           minOccurs="1" maxOccurs="unbounded"/>
4687         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4688           <complexType>
4689             <sequence>
4690               <element name="ResourceInfoElementID"
4691                 type="rm:ResourceInfoElementIDType"/>
4692               <element name="ResponseInformation" type="rm:ResponseInformationType"
4693                 minOccurs="0" maxOccurs="1"/>
4694               <element name="Resource">
4695                 <complexType>
4696                   <sequence>
4697                     <!-- One (or more) of first three elements is required -->
4698                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4699                       maxOccurs="1"/>
4700                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4701                       maxOccurs="1"/>
4702                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4703                       maxOccurs="1"/>
4704                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4705                       maxOccurs="1"/>
4706                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4707                       maxOccurs="unbounded"/>
4708                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4709                       maxOccurs="1"/>
4710                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4711                       maxOccurs="1"/>
4712                     <element name="Certifications" type="rm:CertificationsType"
4713                       minOccurs="0" maxOccurs="1"/>
4714                     <element name="SpecialRequirements"
4715                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4716                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4717                       minOccurs="0" maxOccurs="1"/>
4718                     <element name="OwnershipInformation"

```

```

4719         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4720     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4721         <complexType>
4722             <sequence>
4723                 <element name="DeploymentStatus" type="rm:ValueListType"
4724                     minOccurs="0" maxOccurs="1"/>
4725                 <element name="Availability" type="rm:AvailabilityType"
4726                     minOccurs="0" maxOccurs="1"/>
4727             </sequence>
4728         </complexType>
4729     </element>
4730 </sequence>
4731 </complexType>
4732 </element>
4733 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4734     <complexType>
4735         <sequence>
4736             <element name="Quantity" type="rm:QuantityType"/>
4737             <element name="Restrictions" type="rm:RestrictionsType"
4738                 minOccurs="0" maxOccurs="1"/>
4739             <element name="AnticipatedFunction"
4740                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4741             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4742                 maxOccurs="1"/>
4743             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4744                 maxOccurs="1"/>
4745             <element name="AssignmentInstructions"
4746                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4747         </sequence>
4748     </complexType>
4749 </element>
4750 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4751     <complexType>
4752         <sequence>
4753             <element name="ScheduleType">
4754                 <simpleType>
4755                     <restriction base="rm:ScheduleTypeType">
4756                         <enumeration value="ActualReturnDeparture"/>
4757                         <enumeration value="Current"/>
4758                         <enumeration value="RequestedArrival"/>
4759                         <enumeration value="EstimatedArrival"/>
4760                         <enumeration value="ActualArrival"/>
4761                         <enumeration value="RequestedDeparture"/>
4762                         <enumeration value="EstimatedDeparture"/>
4763                         <enumeration value="ActualDeparture"/>
4764                         <enumeration value="RequestedReturnDeparture"/>
4765                         <enumeration value="RequestedReturnArrival"/>
4766                         <enumeration value="BeginAvailable"/>
4767                         <enumeration value="EndAvailable"/>
4768                         <enumeration value="Committed"/>
4769                         <enumeration value="ReportTo"/>
4770                         <enumeration value="EstimatedReturnDeparture"/>
4771                         <enumeration value="EstimatedReturnArrival"/>
4772                         <enumeration value="Route"/>
4773                     </restriction>
4774                 </simpleType>
4775             </element>
4776             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4777                 maxOccurs="1"/>
4778             <element name="Location" type="rm:LocationType" minOccurs="0"
4779                 maxOccurs="1"/>
4780         </sequence>
4781     </complexType>
4782 </element>
4783 </sequence>
4784 </complexType>
4785 </element>
4786 </sequence>
4787 </complexType>
4788 </element>

```

A.11 RequestReturn Message Schema

```

4791 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4792   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4793   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4794   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4795   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4796   elementFormDefault="qualified"
4797   attributeFormDefault="unqualified">
4798   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4799     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4800   <!-- This schema describes the structure of
4801     EDXL-RM "RequestReturn" messages.-->
4802   <element name="RequestReturn">
4803     <complexType>
4804       <sequence>
4805         <element name="MessageID" type="rm:MessageIDType"/>
4806         <element name="SentDateTime" type="rm:DateTimeType"/>
4807         <element name="MessageContentType">
4808           <simpleType>
4809             <restriction base="rm:MessageContentTypeType">
4810               <enumeration value="RequestReturn"/>
4811             </restriction>
4812           </simpleType>
4813         </element>
4814         <element name="MessageDescription" type="rm:MessageDescriptionType"
4815           minOccurs="0" maxOccurs="1"/>
4816         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4817         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
4818           maxOccurs="1"/>
4819         <element name="IncidentInformation" type="rm:IncidentInformationType"
4820           minOccurs="0" maxOccurs="unbounded"/>
4821         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4822           maxOccurs="1"/>
4823         <element name="Funding" type="rm:FundingType" minOccurs="0"
4824           maxOccurs="unbounded"/>
4825         <element name="ContactInformation" type="rm:ContactInformationType"
4826           minOccurs="1" maxOccurs="unbounded"/>
4827         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4828           <complexType>
4829             <sequence>
4830               <element name="ResourceInfoElementID"
4831                 type="rm:ResourceInfoElementIDType"/>
4832               <element name="Resource">
4833                 <complexType>
4834                   <sequence>
4835                     <!-- One (or more) of first three elements is required -->
4836                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4837                       maxOccurs="1"/>
4838                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4839                       maxOccurs="1"/>
4840                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4841                       maxOccurs="1"/>
4842                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4843                       maxOccurs="1"/>
4844                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4845                       maxOccurs="unbounded"/>
4846                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4847                       maxOccurs="1"/>
4848                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4849                       maxOccurs="1"/>
4850                     <element name="Certifications" type="rm:CertificationsType"
4851                       minOccurs="0" maxOccurs="1"/>
4852                     <element name="SpecialRequirements"
4853                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4854                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4855                       minOccurs="0" maxOccurs="1"/>

```

```

4856     <element name="OwnershipInformation"
4857         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4858     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
4859         <complexType>
4860             <sequence>
4861                 <element name="DeploymentStatus" type="rm:ValueListType"
4862                     minOccurs="0" maxOccurs="1"/>
4863                 <element name="Availability" type="rm:AvailabilityType"
4864                     minOccurs="0" maxOccurs="1"/>
4865             </sequence>
4866         </complexType>
4867     </element>
4868 </sequence>
4869 </complexType>
4870 </element>
4871 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
4872     <complexType>
4873         <sequence>
4874             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
4875                 maxOccurs="1"/>
4876             <element name="Restrictions" type="rm:RestrictionsType"
4877                 minOccurs="0" maxOccurs="1"/>
4878             <element name="AnticipatedFunction"
4879                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4880             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
4881                 maxOccurs="1"/>
4882             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
4883                 maxOccurs="1"/>
4884             <element name="AssignmentInstructions"
4885                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
4886         </sequence>
4887     </complexType>
4888 </element>
4889 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
4890     <complexType>
4891         <sequence>
4892             <element name="ScheduleType">
4893                 <simpleType>
4894                     <restriction base="rm:ScheduleTypeType">
4895                         <enumeration value="RequestedArrival"/>
4896                         <enumeration value="EstimatedArrival"/>
4897                         <enumeration value="ActualArrival"/>
4898                         <enumeration value="RequestedDeparture"/>
4899                         <enumeration value="EstimatedDeparture"/>
4900                         <enumeration value="ActualDeparture"/>
4901                         <enumeration value="RequestedReturnDeparture"/>
4902                         <enumeration value="RequestedReturnArrival"/>
4903                         <enumeration value="BeginAvailable"/>
4904                         <enumeration value="EndAvailable"/>
4905                         <enumeration value="Committed"/>
4906                         <enumeration value="ReportTo"/>
4907                         <enumeration value="Route"/>
4908                     </restriction>
4909                 </simpleType>
4910             </element>
4911             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
4912                 maxOccurs="1"/>
4913             <element name="Location" type="rm:LocationType" minOccurs="0"
4914                 maxOccurs="1"/>
4915         </sequence>
4916     </complexType>
4917 </element>
4918 </sequence>
4919 </complexType>
4920 </element>
4921 </sequence>
4922 </complexType>
4923 </element>
4924 </schema>

```

A.12 ResponseToRequestReturn Message Schema

```

4926 <schema xmlns="http://www.w3.org/2001/XMLSchema"
4927   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4928   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
4929   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4930   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4931   elementFormDefault="qualified"
4932   attributeFormDefault="unqualified">
4933   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4934     schemaLocation="EDXL-RMCommonTypes.xsd"/>
4935   <!-- This schema describes the structure of
4936     EDXL-RM "ResponseToRequestReturn" messages.-->
4937   <element name="ResponseToRequestReturn">
4938     <complexType>
4939       <sequence>
4940         <element name="MessageID" type="rm:MessageIDType"/>
4941         <element name="SentDateTime" type="rm:DateTimeType"/>
4942         <element name="MessageContentType">
4943           <simpleType>
4944             <restriction base="rm:MessageContentTypeType">
4945               <enumeration value="ResponseToRequestReturn"/>
4946             </restriction>
4947           </simpleType>
4948         </element>
4949         <element name="MessageDescription" type="rm:MessageDescriptionType"
4950           minOccurs="0" maxOccurs="1"/>
4951         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
4952         <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4953         <element name="IncidentInformation" type="rm:IncidentInformationType"
4954           minOccurs="0" maxOccurs="unbounded"/>
4955         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
4956           maxOccurs="1"/>
4957         <element name="Funding" type="rm:FundingType" minOccurs="0"
4958           maxOccurs="unbounded"/>
4959         <element name="ContactInformation" type="rm:ContactInformationType"
4960           minOccurs="1" maxOccurs="unbounded"/>
4961         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
4962           <complexType>
4963             <sequence>
4964               <element name="ResourceInfoElementID"
4965                 type="rm:ResourceInfoElementIDType"/>
4966               <element name="ResponseInformation" type="rm:ResponseInformationType"/>
4967               <element name="Resource" minOccurs="0" maxOccurs="1">
4968                 <complexType>
4969                   <sequence>
4970                     <!-- One (or more) of first three elements is required -->
4971                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
4972                       maxOccurs="1"/>
4973                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
4974                       maxOccurs="1"/>
4975                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
4976                       maxOccurs="1"/>
4977                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
4978                       maxOccurs="1"/>
4979                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
4980                       maxOccurs="unbounded"/>
4981                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
4982                       maxOccurs="1"/>
4983                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
4984                       maxOccurs="1"/>
4985                     <element name="Certifications" type="rm:CertificationsType"
4986                       minOccurs="0" maxOccurs="1"/>
4987                     <element name="SpecialRequirements"
4988                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4989                     <element name="ResponsibleParty" type="rm:ContactInformationType"
4990                       minOccurs="0" maxOccurs="1"/>
4991                     <element name="OwnershipInformation"
4992                       type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4993                     <element name="ResourceStatus">

```

```

4994         <complexType>
4995             <sequence>
4996                 <element name="DeploymentStatus" type="rm:ValueListType"/>
4997                 <element name="Availability" type="rm:AvailabilityType"/>
4998             </sequence>
4999         </complexType>
5000     </element>
5001 </sequence>
5002 </complexType>
5003 </element>
5004 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5005     <complexType>
5006         <sequence>
5007             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5008                 maxOccurs="1"/>
5009             <element name="Restrictions" type="rm:RestrictionsType"
5010                 minOccurs="0" maxOccurs="1"/>
5011             <element name="AnticipatedFunction"
5012                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5013             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5014                 maxOccurs="1"/>
5015             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5016                 maxOccurs="1"/>
5017             <element name="AssignmentInstructions"
5018                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5019         </sequence>
5020     </complexType>
5021 </element>
5022 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5023     <complexType>
5024         <sequence>
5025             <element name="ScheduleType">
5026                 <simpleType>
5027                     <restriction base="rm:ScheduleTypeType">
5028                         <enumeration value="ActualReturnDeparture"/>
5029                         <enumeration value="RequestedArrival"/>
5030                         <enumeration value="EstimatedArrival"/>
5031                         <enumeration value="ActualArrival"/>
5032                         <enumeration value="RequestedDeparture"/>
5033                         <enumeration value="EstimatedDeparture"/>
5034                         <enumeration value="ActualDeparture"/>
5035                         <enumeration value="RequestedReturnDeparture"/>
5036                         <enumeration value="RequestedReturnArrival"/>
5037                         <enumeration value="BeginAvailable"/>
5038                         <enumeration value="EndAvailable"/>
5039                         <enumeration value="Committed"/>
5040                         <enumeration value="ReportTo"/>
5041                         <enumeration value="EstimatedReturnDeparture"/>
5042                         <enumeration value="EstimatedReturnArrival"/>
5043                         <enumeration value="Route"/>
5044                         <enumeration value="Current"/>
5045                     </restriction>
5046                 </simpleType>
5047             </element>
5048             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5049                 maxOccurs="1"/>
5050             <element name="Location" type="rm:LocationType" minOccurs="0"
5051                 maxOccurs="1"/>
5052         </sequence>
5053     </complexType>
5054 </element>
5055 </sequence>
5056 </complexType>
5057 </element>
5058 </sequence>
5059 </complexType>
5060 </element>
5061 </schema>

```

A.13 RequestQuote Message Schema

```

5063 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5064   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5065   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5066   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5067   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5068   elementFormDefault="qualified"
5069   attributeFormDefault="unqualified">
5070   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5071     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5072   <!-- This schema describes the structure of
5073     EDXL-RM "RequestQuote" messages.-->
5074   <element name="RequestQuote">
5075     <complexType>
5076       <sequence>
5077         <element name="MessageID" type="rm:MessageIDType"/>
5078         <element name="SentDateTime" type="rm:DateTimeType"/>
5079         <element name="MessageContentType">
5080           <simpleType>
5081             <restriction base="rm:MessageContentTypeType">
5082               <enumeration value="RequestQuote"/>
5083             </restriction>
5084           </simpleType>
5085         </element>
5086         <element name="MessageDescription" type="rm:MessageDescriptionType"
5087           minOccurs="0" maxOccurs="1"/>
5088         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5089         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5090           maxOccurs="1"/>
5091         <element name="IncidentInformation" type="rm:IncidentInformationType"
5092           minOccurs="0" maxOccurs="unbounded"/>
5093         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5094           maxOccurs="1"/>
5095         <element name="Funding" type="rm:FundingType" minOccurs="0"
5096           maxOccurs="unbounded"/>
5097         <element name="ContactInformation" type="rm:ContactInformationType"
5098           minOccurs="1" maxOccurs="unbounded"/>
5099         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5100           <complexType>
5101             <sequence>
5102               <element name="ResourceInfoElementID"
5103                 type="rm:ResourceInfoElementIDType"/>
5104               <element name="ResponseInformation" type="rm:ResponseInformationType"
5105                 minOccurs="0" maxOccurs="1"/>
5106               <element name="Resource">
5107                 <complexType>
5108                   <sequence>
5109                     <!-- One (or more) of first three elements is required -->
5110                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5111                       maxOccurs="1"/>
5112                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5113                       maxOccurs="1"/>
5114                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5115                       maxOccurs="1"/>
5116                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5117                       maxOccurs="1"/>
5118                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5119                       maxOccurs="unbounded"/>
5120                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5121                       maxOccurs="1"/>
5122                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5123                       maxOccurs="1"/>
5124                     <element name="Certifications" type="rm:CertificationsType"
5125                       minOccurs="0" maxOccurs="1"/>
5126                     <element name="SpecialRequirements"
5127                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5128                     <element name="ResponsibleParty" type="rm:ContactInformationType"
5129                       minOccurs="0" maxOccurs="1"/>
5130                     <element name="OwnershipInformation"

```

```

5131         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5132     </sequence>
5133 </complexType>
5134 </element>
5135 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5136 <complexType>
5137 <sequence>
5138 <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5139     maxOccurs="1"/>
5140 <element name="Restrictions" type="rm:RestrictionsType"
5141     minOccurs="0" maxOccurs="1"/>
5142 <element name="AnticipatedFunction"
5143     type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5144 <element name="AssignmentInstructions"
5145     type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5146 </sequence>
5147 </complexType>
5148 </element>
5149 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5150 <complexType>
5151 <sequence>
5152 <element name="ScheduleType">
5153 <simpleType>
5154 <restriction base="rm:ScheduleTypeType">
5155 <enumeration value="RequestedArrival"/>
5156 <enumeration value="RequestedDeparture"/>
5157 <enumeration value="EstimatedReturnDeparture"/>
5158 <enumeration value="EstimatedReturnArrival"/>
5159 <enumeration value="ReportTo"/>
5160 <enumeration value="Route"/>
5161 </restriction>
5162 </simpleType>
5163 </element>
5164 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5165     maxOccurs="1"/>
5166 <element name="Location" type="rm:LocationType" minOccurs="0"
5167     maxOccurs="1"/>
5168 </sequence>
5169 </complexType>
5170 </element>
5171 </sequence>
5172 </complexType>
5173 </element>
5174 </sequence>
5175 </complexType>
5176 </element>
5177 </schema>

```

5178 A.14 ResponseToRequestQuote Message Schema

```

5179 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5180     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5181     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5182     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5183     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5184     elementFormDefault="qualified"
5185     attributeFormDefault="unqualified">
5186 <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5187     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5188 <!-- This schema describes the structure of
5189     EDXL-RM "ResponseToRequestQuote" messages.-->
5190 <element name="ResponseToRequestQuote">
5191 <complexType>
5192 <sequence>
5193 <element name="MessageID" type="rm:MessageIDType"/>
5194 <element name="SentDateTime" type="rm:DateTimeType"/>
5195 <element name="MessageContentType">
5196 <simpleType>
5197 <restriction base="rm:MessageContentTypeType">

```

```

5198         <enumeration value="ResponseToRequestQuote"/>
5199     </restriction>
5200 </simpleType>
5201 </element>
5202 <element name="MessageDescription" type="rm:MessageDescriptionType"
5203     minOccurs="0" maxOccurs="1"/>
5204 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5205 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
5206 <element name="IncidentInformation" type="rm:IncidentInformationType"
5207     minOccurs="0" maxOccurs="unbounded"/>
5208 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5209     maxOccurs="1"/>
5210 <element name="Funding" type="rm:FundingType" minOccurs="0"
5211     maxOccurs="unbounded"/>
5212 <element name="ContactInformation" type="rm:ContactInformationType"
5213     minOccurs="1" maxOccurs="unbounded"/>
5214 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5215     <complexType>
5216         <sequence>
5217             <element name="ResourceInfoElementID"
5218                 type="rm:ResourceInfoElementIDType"/>
5219             <element name="ResponseInformation" type="rm:ResponseInformationType"/>
5220             <element name="Resource" minOccurs="0" maxOccurs="1">
5221                 <complexType>
5222                     <sequence>
5223                         <!-- One (or more) of first three elements is required -->
5224                         <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5225                             maxOccurs="1"/>
5226                         <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5227                             maxOccurs="1"/>
5228                         <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5229                             maxOccurs="1"/>
5230                         <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5231                             maxOccurs="1"/>
5232                         <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5233                             maxOccurs="unbounded"/>
5234                         <element name="Description" type="rm:DescriptionType" minOccurs="0"
5235                             maxOccurs="1"/>
5236                         <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5237                             maxOccurs="1"/>
5238                         <element name="Certifications" type="rm:CertificationsType"
5239                             minOccurs="0" maxOccurs="1"/>
5240                         <element name="SpecialRequirements"
5241                             type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5242                         <element name="ResponsibleParty" type="rm:ContactInformationType"
5243                             minOccurs="0" maxOccurs="1"/>
5244                         <element name="OwnershipInformation"
5245                             type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5246                         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5247                             <complexType>
5248                                 <sequence>
5249                                     <element name="InventoryRefreshDateTime"
5250                                         type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5251                                     <element name="DeploymentStatus" type="rm:ValueListType"
5252                                         minOccurs="0" maxOccurs="1"/>
5253                                     <element name="Availability" type="rm:AvailabilityType"
5254                                         minOccurs="0" maxOccurs="1"/>
5255                                 </sequence>
5256                             </complexType>
5257                         </element>
5258                     </sequence>
5259                 </complexType>
5260             </element>
5261             <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5262                 <complexType>
5263                     <sequence>
5264                         <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5265                             maxOccurs="1"/>
5266                         <element name="Restrictions" type="rm:RestrictionsType"
5267                             minOccurs="0" maxOccurs="1"/>
5268                         <element name="AnticipatedFunction"

```

```

5269         type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5270     <element name="PriceQuote" type="rm:PriceQuoteType"/>
5271     <element name="AssignmentInstructions"
5272         type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5273     </sequence>
5274 </complexType>
5275 </element>
5276 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5277     <complexType>
5278         <sequence>
5279             <element name="ScheduleType">
5280                 <simpleType>
5281                     <restriction base="rm:ScheduleTypeType">
5282                         <enumeration value="EstimatedArrival"/>
5283                         <enumeration value="EstimatedDeparture"/>
5284                         <enumeration value="RequestedReturnDeparture"/>
5285                         <enumeration value="RequestedReturnArrival"/>
5286                         <enumeration value="BeginAvailable"/>
5287                         <enumeration value="EndAvailable"/>
5288                         <enumeration value="RequestedArrival"/>
5289                         <enumeration value="RequestedDeparture"/>
5290                         <enumeration value="EstimatedReturnDeparture"/>
5291                         <enumeration value="EstimatedReturnArrival"/>
5292                         <enumeration value="ReportTo"/>
5293                         <enumeration value="Route"/>
5294                     </restriction>
5295                 </simpleType>
5296             </element>
5297             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5298                 maxOccurs="1"/>
5299             <element name="Location" type="rm:LocationType" minOccurs="0"
5300                 maxOccurs="1"/>
5301         </sequence>
5302     </complexType>
5303 </element>
5304 </sequence>
5305 </complexType>
5306 </element>
5307 </sequence>
5308 </complexType>
5309 </element>
5310 </schema>

```

5311 A.15 RequestResourceDeploymentStatus Message Schema

```

5312 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5313     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5314     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5315     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5316     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5317     elementFormDefault="qualified"
5318     attributeFormDefault="unqualified">
5319     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5320         schemaLocation="EDXL-RMCommonTypes.xsd"/>
5321     <!-- This schema describes the structure of
5322         EDXL-RM "RequestResourceDeploymentStatus" messages.-->
5323     <element name="RequestResourceDeploymentStatus">
5324         <complexType>
5325             <sequence>
5326                 <element name="MessageID" type="rm:MessageIDType"/>
5327                 <element name="SentDateTime" type="rm:DateTimeType"/>
5328                 <element name="MessageContentType">
5329                     <simpleType>
5330                         <restriction base="rm:MessageContentTypeType">
5331                             <enumeration value="RequestResourceDeploymentStatus"/>
5332                         </restriction>
5333                     </simpleType>
5334                 </element>
5335                 <element name="MessageDescription" type="rm:MessageDescriptionType"

```

```

5336     minOccurs="0" maxOccurs="1"/>
5337 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5338 <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5339     maxOccurs="1"/>
5340 <element name="IncidentInformation" type="rm:IncidentInformationType"
5341     minOccurs="0" maxOccurs="unbounded"/>
5342 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5343     maxOccurs="1"/>
5344 <element name="Funding" type="rm:FundingType" minOccurs="0"
5345     maxOccurs="unbounded"/>
5346 <element name="ContactInformation" type="rm:ContactInformationType"
5347     minOccurs="1" maxOccurs="unbounded"/>
5348 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5349   <complexType>
5350     <sequence>
5351       <element name="ResourceInfoElementID"
5352         type="rm:ResourceInfoElementIDType"/>
5353       <element name="Resource">
5354         <complexType>
5355           <sequence>
5356             <!-- One (or more) of first three elements is required -->
5357             <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5358               maxOccurs="1"/>
5359             <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5360               maxOccurs="1"/>
5361             <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5362               maxOccurs="1"/>
5363             <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5364               maxOccurs="1"/>
5365             <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5366               maxOccurs="unbounded"/>
5367             <element name="Description" type="rm:DescriptionType" minOccurs="0"
5368               maxOccurs="1"/>
5369             <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5370               maxOccurs="1"/>
5371             <element name="Certifications" type="rm:CertificationsType"
5372               minOccurs="0" maxOccurs="1"/>
5373             <element name="SpecialRequirements"
5374               type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5375             <element name="ResponsibleParty" type="rm:ContactInformationType"
5376               minOccurs="0" maxOccurs="1"/>
5377             <element name="OwnershipInformation"
5378               type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5379           </sequence>
5380         </complexType>
5381       </element>
5382     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5383       <complexType>
5384         <sequence>
5385           <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5386             maxOccurs="1"/>
5387           <element name="Restrictions" type="rm:RestrictionsType"
5388             minOccurs="0" maxOccurs="1"/>
5389           <element name="AnticipatedFunction"
5390             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5391           <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5392             maxOccurs="1"/>
5393           <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5394             maxOccurs="1"/>
5395           <element name="AssignmentInstructions"
5396             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5397         </sequence>
5398       </complexType>
5399     </element>
5400   </element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5401     <complexType>
5402       <sequence>
5403         <element name="ScheduleType">
5404           <simpleType>
5405             <restriction base="rm:ScheduleTypeType">
5406               <enumeration value="RequestedArrival"/>

```

```

5407         <enumeration value="EstimatedArrival"/>
5408         <enumeration value="ActualArrival"/>
5409         <enumeration value="RequestedDeparture"/>
5410         <enumeration value="EstimatedDeparture"/>
5411         <enumeration value="ActualDeparture"/>
5412         <enumeration value="RequestedReturnDeparture"/>
5413         <enumeration value="EstimatedReturnDeparture"/>
5414         <enumeration value="ActualReturnDeparture"/>
5415         <enumeration value="RequestedReturnArrival"/>
5416         <enumeration value="EstimatedReturnArrival"/>
5417         <enumeration value="ActualReturnArrival"/>
5418         <enumeration value="BeginAvailable"/>
5419         <enumeration value="EndAvailable"/>
5420         <enumeration value="Committed"/>
5421         <enumeration value="ReportTo"/>
5422         <enumeration value="Route"/>
5423     </restriction>
5424 </simpleType>
5425 </element>
5426 <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5427     maxOccurs="1"/>
5428 <element name="Location" type="rm:LocationType" minOccurs="0"
5429     maxOccurs="1"/>
5430 </sequence>
5431 </complexType>
5432 </element>
5433 </sequence>
5434 </complexType>
5435 </element>
5436 </sequence>
5437 </complexType>
5438 </element>
5439 </schema>

```

5440 **A.16 ReportResourceDeploymentStatus Message Schema**

```

5441 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5442     xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5443     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5444     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5445     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5446     elementFormDefault="qualified"
5447     attributeFormDefault="unqualified">
5448 <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5449     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5450 <!-- This schema describes the structure of
5451     EDXL-RM "ReportResourceDeploymentStatus" messages.-->
5452 <element name="ReportResourceDeploymentStatus">
5453 <complexType>
5454 <sequence>
5455 <element name="MessageID" type="rm:MessageIDType"/>
5456 <element name="SentDateTime" type="rm:DateTimeType"/>
5457 <element name="MessageContentType">
5458 <simpleType>
5459 <restriction base="rm:MessageContentTypeType">
5460 <enumeration value="ReportResourceDeploymentStatus"/>
5461 </restriction>
5462 </simpleType>
5463 </element>
5464 <element name="MessageDescription" type="rm:MessageDescriptionType"
5465     minOccurs="0" maxOccurs="1"/>
5466 <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5467 <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5468     maxOccurs="1"/>
5469 <element name="IncidentInformation" type="rm:IncidentInformationType"
5470     minOccurs="0" maxOccurs="unbounded"/>
5471 <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5472     maxOccurs="1"/>
5473 <element name="Funding" type="rm:FundingType" minOccurs="0"

```

```

5474     maxOccurs="unbounded" />
5475 <element name="ContactInformation" type="rm:ContactInformationType"
5476     minOccurs="1" maxOccurs="unbounded" />
5477 <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5478   <complexType>
5479     <sequence>
5480       <element name="ResourceInfoElementID"
5481         type="rm:ResourceInfoElementIDType" />
5482       <element name="ResponseInformation" type="rm:ResponseInformationType"
5483         minOccurs="0" maxOccurs="1" />
5484       <element name="Resource" minOccurs="0" maxOccurs="1">
5485         <complexType>
5486           <sequence>
5487             <!-- One (or more) of first three elements is required -->
5488             <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5489               maxOccurs="1" />
5490             <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5491               maxOccurs="1" />
5492             <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5493               maxOccurs="1" />
5494             <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5495               maxOccurs="1" />
5496             <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5497               maxOccurs="unbounded" />
5498             <element name="Description" type="rm:DescriptionType" minOccurs="0"
5499               maxOccurs="1" />
5500             <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5501               maxOccurs="1" />
5502             <element name="Certifications" type="rm:CertificationsType"
5503               minOccurs="0" maxOccurs="1" />
5504             <element name="SpecialRequirements"
5505               type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1" />
5506             <element name="ResponsibleParty" type="rm:ContactInformationType"
5507               minOccurs="0" maxOccurs="1" />
5508             <element name="OwnershipInformation"
5509               type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1" />
5510             <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5511               <complexType>
5512                 <sequence>
5513                   <element name="InventoryRefreshDateTime"
5514                     type="rm:DateTimeType" minOccurs="0" maxOccurs="1" />
5515                   <element name="DeploymentStatus" type="rm:ValueListType"
5516                     minOccurs="0" maxOccurs="1" />
5517                   <element name="Availability" type="rm:AvailabilityType"
5518                     minOccurs="0" maxOccurs="1" />
5519                 </sequence>
5520               </complexType>
5521             </element>
5522           </sequence>
5523         </complexType>
5524       </element>
5525     <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5526       <complexType>
5527         <sequence>
5528           <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5529             maxOccurs="1" />
5530           <element name="Restrictions" type="rm:RestrictionsType"
5531             minOccurs="0" maxOccurs="1" />
5532           <element name="AnticipatedFunction"
5533             type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1" />
5534           <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5535             maxOccurs="1" />
5536           <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5537             maxOccurs="1" />
5538           <element name="AssignmentInstructions"
5539             type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1" />
5540         </sequence>
5541       </complexType>
5542     </element>
5543   <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5544     <complexType>

```

```

5545     <sequence>
5546     <element name="ScheduleType">
5547     <simpleType>
5548     <restriction base="rm:ScheduleTypeType">
5549     <enumeration value="RequestedArrival"/>
5550     <enumeration value="EstimatedArrival"/>
5551     <enumeration value="ActualArrival"/>
5552     <enumeration value="RequestedDeparture"/>
5553     <enumeration value="EstimatedDeparture"/>
5554     <enumeration value="ActualDeparture"/>
5555     <enumeration value="RequestedReturnDeparture"/>
5556     <enumeration value="EstimatedReturnDeparture"/>
5557     <enumeration value="ActualReturnDeparture"/>
5558     <enumeration value="RequestedReturnArrival"/>
5559     <enumeration value="EstimatedReturnArrival"/>
5560     <enumeration value="ActualReturnArrival"/>
5561     <enumeration value="BeginAvailable"/>
5562     <enumeration value="EndAvailable"/>
5563     <enumeration value="Committed"/>
5564     <enumeration value="Current"/>
5565     <enumeration value="ReportTo"/>
5566     <enumeration value="Route"/>
5567     </restriction>
5568     </simpleType>
5569     </element>
5570     <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5571     maxOccurs="1"/>
5572     <element name="Location" type="rm:LocationType" minOccurs="0"
5573     maxOccurs="1"/>
5574     </sequence>
5575     </complexType>
5576     </element>
5577     </sequence>
5578     </complexType>
5579     </element>
5580     </sequence>
5581     </complexType>
5582     </element>
5583 </schema>

```

5584

A.17 Request Extended Deployment Duration Message Schema

```

5586 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5587   xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5588   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5589   xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5590   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5591   elementFormDefault="qualified"
5592   attributeFormDefault="unqualified">
5593   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5594     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5595   <!-- This schema describes the structure of
5596     EDXL-RM "RequestExtendedDeploymentDuration" messages.-->
5597   <element name="RequestExtendedDeploymentDuration">
5598     <complexType>
5599       <sequence>
5600         <element name="MessageID" type="rm:MessageIDType"/>
5601         <element name="SentDateTime" type="rm:DateTimeType"/>
5602         <element name="MessageContentType">
5603           <simpleType>
5604             <restriction base="rm:MessageContentTypeType">
5605               <enumeration value="RequestExtendedDeploymentDuration"/>
5606             </restriction>
5607           </simpleType>
5608         </element>
5609         <element name="MessageDescription" type="rm:MessageDescriptionType"
5610           minOccurs="0" maxOccurs="1"/>
5611         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5612         <element name="PrecedingMessageID" type="rm:MessageIDType" minOccurs="0"
5613           maxOccurs="1"/>
5614         <element name="IncidentInformation" type="rm:IncidentInformationType"
5615           minOccurs="0" maxOccurs="unbounded"/>
5616         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5617           maxOccurs="1"/>
5618         <element name="Funding" type="rm:FundingType" minOccurs="0"
5619           maxOccurs="unbounded"/>
5620         <element name="ContactInformation" type="rm:ContactInformationType"
5621           minOccurs="1" maxOccurs="unbounded"/>
5622         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5623           <complexType>
5624             <sequence>
5625               <element name="ResourceInfoElementID"
5626                 type="rm:ResourceInfoElementIDType"/>
5627               <element name="Resource">
5628                 <complexType>
5629                   <sequence>
5630                     <!-- One (or more) of first three elements is required -->
5631                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5632                       maxOccurs="1"/>
5633                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5634                       maxOccurs="1"/>
5635                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5636                       maxOccurs="1"/>
5637                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5638                       maxOccurs="1"/>
5639                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5640                       maxOccurs="unbounded"/>
5641                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5642                       maxOccurs="1"/>
5643                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5644                       maxOccurs="1"/>
5645                     <element name="Certifications" type="rm:CertificationsType"
5646                       minOccurs="0" maxOccurs="1"/>
5647                     <element name="SpecialRequirements"
5648                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5649                     <element name="ResponsibleParty" type="rm:ContactInformationType"
5650                       minOccurs="0" maxOccurs="1"/>
5651                     <element name="OwnershipInformation"
5652                       type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>

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```

5653         <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5654             <complexType>
5655                 <sequence>
5656                     <element name="DeploymentStatus" type="rm:ValueListType"
5657                         minOccurs="0" maxOccurs="1"/>
5658                     <element name="Availability" type="rm:AvailabilityType"
5659                         minOccurs="0" maxOccurs="1"/>
5660                 </sequence>
5661             </complexType>
5662         </element>
5663     </sequence>
5664 </complexType>
5665 </element>
5666 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5667     <complexType>
5668         <sequence>
5669             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5670                 maxOccurs="1"/>
5671             <element name="Restrictions" type="rm:RestrictionsType"
5672                 minOccurs="0" maxOccurs="1"/>
5673             <element name="AnticipatedFunction"
5674                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5675             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5676                 maxOccurs="1"/>
5677             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5678                 maxOccurs="1"/>
5679         </sequence>
5680     </complexType>
5681 </element>
5682 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5683     <complexType>
5684         <sequence>
5685             <element name="ScheduleType">
5686                 <simpleType>
5687                     <restriction base="rm:ScheduleTypeType">
5688                         <enumeration value="RequestedArrival"/>
5689                         <enumeration value="EstimatedArrival"/>
5690                         <enumeration value="ActualArrival"/>
5691                         <enumeration value="RequestedDeparture"/>
5692                         <enumeration value="EstimatedDeparture"/>
5693                         <enumeration value="ActualDeparture"/>
5694                         <enumeration value="RequestedReturnArrival"/>
5695                         <enumeration value="Committed"/>
5696                         <enumeration value="ReportTo"/>
5697                         <enumeration value="RequestedReturnDeparture"/>
5698                         <enumeration value="EstimatedReturnDeparture"/>
5699                         <enumeration value="EstimatedReturnArrival"/>
5700                         <enumeration value="Route"/>
5701                     </restriction>
5702                 </simpleType>
5703             </element>
5704             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5705                 maxOccurs="1"/>
5706             <element name="Location" type="rm:LocationType" minOccurs="0"
5707                 maxOccurs="1"/>
5708         </sequence>
5709     </complexType>
5710 </element>
5711 </sequence>
5712 </complexType>
5713 </element>
5714 </sequence>
5715 </complexType>
5716 </element>
5717 </schema>

```

5718
5719

A.18 ResponseToRequestExtendedDeploymentDuration Message Schema

```
5720 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5721       xmlns:rmsg="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5722       targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:msg"
5723       xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5724       xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5725       elementFormDefault="qualified"
5726       attributeFormDefault="unqualified">
5727   <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5728     schemaLocation="EDXL-RMCommonTypes.xsd"/>
5729   <!-- This schema describes the structure of
5730     EDXL-RM "ResponseToRequestExtendedDeploymentDuration" messages.-->
5731   <element name="ResponseToRequestExtendedDeploymentDuration">
5732     <complexType>
5733       <sequence>
5734         <element name="MessageID" type="rm:MessageIDType"/>
5735         <element name="SentDateTime" type="rm:DateTimeType"/>
5736         <element name="MessageContentType">
5737           <simpleType>
5738             <restriction base="rm:MessageContentTypeType">
5739               <enumeration value="ResponseToRequestExtendedDeploymentDuration"/>
5740             </restriction>
5741           </simpleType>
5742         </element>
5743         <element name="MessageDescription" type="rm:MessageDescriptionType"
5744           minOccurs="0" maxOccurs="1"/>
5745         <element name="OriginatingMessageID" type="rm:MessageIDType"/>
5746         <element name="PrecedingMessageID" type="rm:MessageIDType"/>
5747         <element name="IncidentInformation" type="rm:IncidentInformationType"
5748           minOccurs="0" maxOccurs="unbounded"/>
5749         <element name="MessageRecall" type="rm:MessageRecallType" minOccurs="0"
5750           maxOccurs="1"/>
5751         <element name="Funding" type="rm:FundingType" minOccurs="0"
5752           maxOccurs="unbounded"/>
5753         <element name="ContactInformation" type="rm:ContactInformationType"
5754           minOccurs="1" maxOccurs="unbounded"/>
5755         <element name="ResourceInformation" minOccurs="1" maxOccurs="unbounded">
5756           <complexType>
5757             <sequence>
5758               <element name="ResourceInfoElementID"
5759                 type="rm:ResourceInfoElementIDType"/>
5760               <element name="ResponseInformation" type="rm:ResponseInformationType"/>
5761               <element name="Resource" minOccurs="0" maxOccurs="1">
5762                 <complexType>
5763                   <sequence>
5764                     <!-- One (or more) of first three elements is required -->
5765                     <element name="ResourceID" type="rm:ResourceIDType" minOccurs="0"
5766                       maxOccurs="1"/>
5767                     <element name="Name" type="rm:ResourceNameType" minOccurs="0"
5768                       maxOccurs="1"/>
5769                     <element name="TypeStructure" type="rm:ValueListType" minOccurs="0"
5770                       maxOccurs="1"/>
5771                     <element name="TypeInfo" type="rm:TypeInfoType" minOccurs="0"
5772                       maxOccurs="1"/>
5773                     <element name="Keyword" type="rm:ValueListType" minOccurs="0"
5774                       maxOccurs="unbounded"/>
5775                     <element name="Description" type="rm:DescriptionType" minOccurs="0"
5776                       maxOccurs="1"/>
5777                     <element name="Credentials" type="rm:CredentialsType" minOccurs="0"
5778                       maxOccurs="1"/>
5779                     <element name="Certifications" type="rm:CertificationsType"
5780                       minOccurs="0" maxOccurs="1"/>
5781                     <element name="SpecialRequirements"
5782                       type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5783                     <element name="ResponsibleParty" type="rm:ContactInformationType"
5784                       minOccurs="0" maxOccurs="1"/>
5785                     <element name="OwnershipInformation"
```

```

5786         type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5787     <element name="ResourceStatus" minOccurs="0" maxOccurs="1">
5788         <complexType>
5789             <sequence>
5790                 <element name="DeploymentStatus" type="rm:ValueListType"
5791                     minOccurs="0" maxOccurs="1"/>
5792                 <element name="Availability" type="rm:AvailabilityType"
5793                     minOccurs="0" maxOccurs="1"/>
5794             </sequence>
5795         </complexType>
5796     </element>
5797 </sequence>
5798 </complexType>
5799 </element>
5800 <element name="AssignmentInformation" minOccurs="0" maxOccurs="1">
5801     <complexType>
5802         <sequence>
5803             <element name="Quantity" type="rm:QuantityType" minOccurs="0"
5804                 maxOccurs="1"/>
5805             <element name="Restrictions" type="rm:RestrictionsType"
5806                 minOccurs="0" maxOccurs="1"/>
5807             <element name="AnticipatedFunction"
5808                 type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5809             <element name="PriceQuote" type="rm:PriceQuoteType" minOccurs="0"
5810                 maxOccurs="1"/>
5811             <element name="OrderID" type="rm:OrderIDType" minOccurs="0"
5812                 maxOccurs="1"/>
5813             <element name="AssignmentInstructions"
5814                 type="rm:AssignmentInstructionsType" minOccurs="0" maxOccurs="1"/>
5815         </sequence>
5816     </complexType>
5817 </element>
5818 <element name="ScheduleInformation" minOccurs="0" maxOccurs="unbounded">
5819     <complexType>
5820         <sequence>
5821             <element name="ScheduleType">
5822                 <simpleType>
5823                     <restriction base="rm:ScheduleTypeType">
5824                         <enumeration value="EndAvailable"/>
5825                         <enumeration value="RequestedArrival"/>
5826                         <enumeration value="EstimatedArrival"/>
5827                         <enumeration value="ActualArrival"/>
5828                         <enumeration value="RequestedDeparture"/>
5829                         <enumeration value="EstimatedDeparture"/>
5830                         <enumeration value="ActualDeparture"/>
5831                         <enumeration value="RequestedReturnArrival"/>
5832                         <enumeration value="Committed"/>
5833                         <enumeration value="ReportTo"/>
5834                         <enumeration value="RequestedReturnDeparture"/>
5835                         <enumeration value="EstimatedReturnDeparture"/>
5836                         <enumeration value="EstimatedReturnArrival"/>
5837                         <enumeration value="Route"/>
5838                     </restriction>
5839                 </simpleType>
5840             </element>
5841             <element name="DateTime" type="rm:DateTimeType" minOccurs="0"
5842                 maxOccurs="1"/>
5843             <element name="Location" type="rm:LocationType" minOccurs="0"
5844                 maxOccurs="1"/>
5845         </sequence>
5846     </complexType>
5847 </element>
5848 </sequence>
5849 </complexType>
5850 </element>
5851 </sequence>
5852 </complexType>
5853 </element>
5854 </schema>

```

5855 **A.19 Acknowledgements**

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5858 **Participants:**

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5892

B. Revision History

5893

[optional; should not be included in OASIS Standards]

5894

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

5895

5896