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

Committee Draft 01

20 February 2007

Specification URIs:

This Version:
> http://docs.oasis-open.org/emergency/edxl-rm/v1.0/cd01/EDXL-RM-SPEC-V1.0.doc
> http://docs.oasis-open.org/emergency/edxl-rm/v1.0/cd01/EDXL-RM-SPEC-V1.0.pdf
> http://docs.oasis-open.org/emergency/edxl-rm/v1.0/cd01/EDXL-RM-SPEC-V1.0.html

Previous Version:
> N/A

Latest Version:
> http://docs.oasis-open.org/emergency/edxl-rm/v1.0/EDXL-RM-SPEC-V1.0.doc
> http://docs.oasis-open.org/emergency/edxl-rm/v1.0/EDXL-RM-SPEC-V1.0.pdf
> http://docs.oasis-open.org/emergency/edxl-rm/v1.0/EDXL-RM-SPEC-V1.0.html

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Related work:
> This specification is related to:

- Emergency Data Exchange Language (EDXL) Distribution Element, v. 1.0

Declared XML Namespace(s):
> urn:oasis:names:tc:emergency:EDXL:RM:1.0

Abstract:
> This XML-based Emergency Data Exchange Language (EDXL) Resource Messaging specification describes a suite of standard messages for data sharing among emergency and other information systems that deal in requesting and providing emergency equipment, supplies,

people and teams, This format may be used over any data transmission system, including but not limited to the SOAP HTTP binding.

Status:

This document was last revised or approved by the Emergency Management Technical Committee on the above date. The level of approval is also listed above. Check the current location noted above for possible later revisions of this document.

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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 jor 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 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 Presidents e-gov 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) made up of represenations of major emergency response associations.

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, and 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 interoperatility as the #1 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.

1.3 Structure of the EDXL Resource Message

51 The EDXL Resource Message specification applies to 16 separate specific message types related to the
52 major communication purposes involved in the allocation of resources pertaining to preparation for,
53 response to and remediation of emergency incidents.

54 The non-normative abstract reference model diagram in Figure 1 in Section 3.1 shows the abstract
55 structural relationships of the main components:

56 • **Resource Message**: The overall Type of EDXL Payload;

57 • **Message:** The specific message, primarily of Request or Response general types, but with signficant
58 other subtypes;

59 • **Party:** Organizations and Individuals connected with the message;

60 • **Resource:** the actual referent of the message, which can be equipment, material substances such
61 as water, people with certain skills, etc;

62 • **Schedule:** Temporal information such as when requested, when needed, when arrived, etc.,
63 associated with the message;

64 • **Assignment:** Instructions relative to the displosition of Resource or Resources referred to in the
65 message usually related to geospatial and jurisdictional information.

66 The Element Reference Model in Figure 2 in Section 3.2 gives a more concrete view of the structure
67 common to all Resource Messages.

68 Table 1 in Section 3.3 provides a Resource Message Type Summary of the 16 specific types of
69 Resource Message.

70 Figure 3 in Section 3.3 illustrates the three primary types of behavior which Resource Messages enable :

71 • **Discovery;**

72 • **Ordering;** and

73 • **Deployment**.

74 Table 1: in Section 3.3 provides a Resource Message Type – Element Matrix where each row represents
75 a specific message element grouped by functional categories and each column represents a specific
76 message type. Thus one can determine whether any combination of message element and message type
77 is Required, Conditional, or Optional.

78 Each specific message type is fully described in Sections 3.3.1 through 3.3.16

79

1.4 Terminology

81 The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD
82 NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described
83 in **Error! Reference source not found.**.

1.5 Normative References

85 **[RFC2046]**   N. Freed, *Multipurpose Internet Mail Extensions (MIME) Part Two: Media Types*,
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87 88	**[RFC2119]**	S. Bradner, *Key words for use in RFCs to Indicate Requirement Levels*, http://www.ietf.org/rfc/rfc2119.txt, IETF RFC 2119, March 1997.
89 90	**[RFC3066]**	H. Alvestrand, Tags for the Identification of Languages, http://www.ietf.org/rfc/rfc3066.txt, IETF RFC 3066, January 2001.
91 92 93	**[WGS 84]**	National Geospatial Intelligence Agency, Department of Defense World Geodetic System 1984, http://earth-info.nga.mil/GandG/tr8350_2.html, NGA Technical Report TR8350.2, January 2000.
94 95	**[XML 1.0]**	T. Bray, *Extensible Markup Language (XML) 1.0 (Third Edition)*, http://www.w3.org/TR/REC-xml/, W3C REC-XML-20040204, February 2004.
96 97	**[namespaces]**	T. Bray, *Namespaces in XML*, http://www.w3.org/TR/REC-xml-names/, W3C REC-xml-names-19990114, January 1999.
98 99 100	**[dateTime]**	N. Freed, *XML Schema Part 2: Datatypes Second Edition*, http://www.w3.org/TR/xmlschema-2/#dateTime, W3C REC-xmlschema-2, October 2004.

101 1.6 Non-Normative References

102 103 104	**[EDXL GFR]**	*EDXL General Functional Requirements*, http://www.oasis-open.org/committees/download.php/10031/EDXL%20General%20Functional%20Requirements.doc, November 2004
105 106 107	**[EDXL-DE IG]**	*EDXL Distribution Element Implementer's Guide*, http://www.oasis-open.org/committees/download.php/14120/EDXL_Implementer%27sGuide.doc, August 2005
108 109 110 111	**[EDXL-RM SRS]**	*EDXL Resource Messaging Standard Requirements Supplement*, workgroup http://www.oasis-open.org/committees/download.php/14981/EDXLRqmtsSupplement101905.doc, October 19, 2005
112 113 114 115	**[EDXL-RM SF]**	*EDXL Resource Messaging Standard Format for Resource Messaging (candidate specification)* http://www.oasis-open.org/committees/download.php/13690/EDXL_ResourceDraft07152005.doc, July 15, 2005
116 117		

2 Design Principles and Concepts (non-normative)

119 Below are some of the guiding principles of the Resource Message:

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

2.1 Requirements for Design

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

132

133 *EDXL Resource Messaging Standard Requirements Supplement*, workgroup

134 http://www.oasis-open.org/committees/download.php/14981/EDXLRqmtsSupplement101905.doc,
135 October 19, 2005

136

137 In summary, the EDXL Resource Messaging specification should

138 1. Define a detailed message formet structure for the following specific EDXL Resource
139 Message Types: (Note that requirements that are self-evident from Message Type names are
140 not separately listed)
141 a. RequestResource
142 b. Response to Request Resource
143 c. Requisition Resource
144 d. Commit Resource
145 e. Request Information (RFI)
146 f. Response to Request Information
147 g. Offer Unsolicited Resource
148 h. ReleaseResource
149 i. Request Return
150 j. Response to Request Return
151 k. Request Quote
152 l. Response to Request Quote
153 m. Request Resource Deployment Status
154 n. Report Resource Deployment Status
155 o. Request Extended Deployment Duration
156 p. Response to Request Extended Deployment Duration
157 2. Explicitly specify use of EDXL_DE as the routing mechanism for the EDXL Resource
158 Message
159 3. Provide the ability to specify a desired geographic Resource delivery area, provide for notice
160 of Resource demobilization and the ability to communicate information to provide for
161 returning Resource
162 4. Provide ability to accept or decline a Response to Request Resource that indicates requested
163 Resource is available or to accept or decline an Offer of Unsolicited Resource
164 5. Provide the ability to cancel any Resource Message (actual method is Message Recall)

165	6. Provide the ability to reference specific incidents in Resource Message
166	7. Provide unique identifier for each message as well as the ability to reference previous
167	messages, including but not limited to originating message in a given sequence
168	8. Provide the ability to specify Date and Time of Resource Message, referenced messages,
169	scheduling information, assignment information and specific instructions
170	9. Provide the ability to report Disposition of referenced Resource Message(s)
171	10. Provide the ability to specify contact information of individuals responsible for Resource
172	Message(s) and/or Resource(s)
173	11. Provide the ability to specify funding information for Resources
174	12. Provide the ability to reference external lists for Resource Message content
175	13. Provide the ability to fully describe Resource(s)
176	14. Provide the ability to specify Special Requirements such as protective equipment or specific
177	skill credentials, e.g. certifications, licenses
178	15. Provide the ability to specify Resource Information for purposes beyond identification and
179	qualification such as scheduling and assignment.

180

181 2.2 Example Usage Scenarios

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

185 2.2.1 Safecom Explosion

186 This scenario follows the detection of a noxious aerosol substance leak at a demical plant that produces
187 toxic materials, including evacuations, requests for hazmat teams and the evolution of the incident into
188 an explosion that destroys the leak sit and an adjacent building with casualties requiring emergency
189 healthcare teams, full incident command establishment, responses of various kinds and clean up

190 Full use case available: http://www.oasis-
191 open.org/committees/download.php/14410/EDXL_use_example_SafecomExplosion%20060805.doc

192 2.2.2 Cedar Fire Incident

193 This is an actual use case that follows the events of the "Cedar" fire incident inlate October and
194 November 2003 in San Diego County, California. Operation Center (EOC) has been activated, and
195 requests the agencies to be on alert. This follows the lack of radio interoperability and poor coordination
196 of mutual aid in the area due to several other fires during the period and previously

197 Full use case available: http://www.oasis-
198 open.org/committees/download.php/14411/EDXL_use_example_Fire061005.doc

199 2.2.3 Hurricane

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

203 Full use case available: http://www.oasis-
204 open.org/committees/download.php/14412/EDXL_use_example_Hurricane061005.doc

2.2.4 Pandemic Influenza

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

Full use case available: http://www.oasis-open.org/committees/download.php/14411/EDXL_use_example_Influenza_06152005%20LaniGrahmRev.doc

3 EDXL Resource Messaging Model (Non-normative)

3.1 Abstract Reference Model

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

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

226
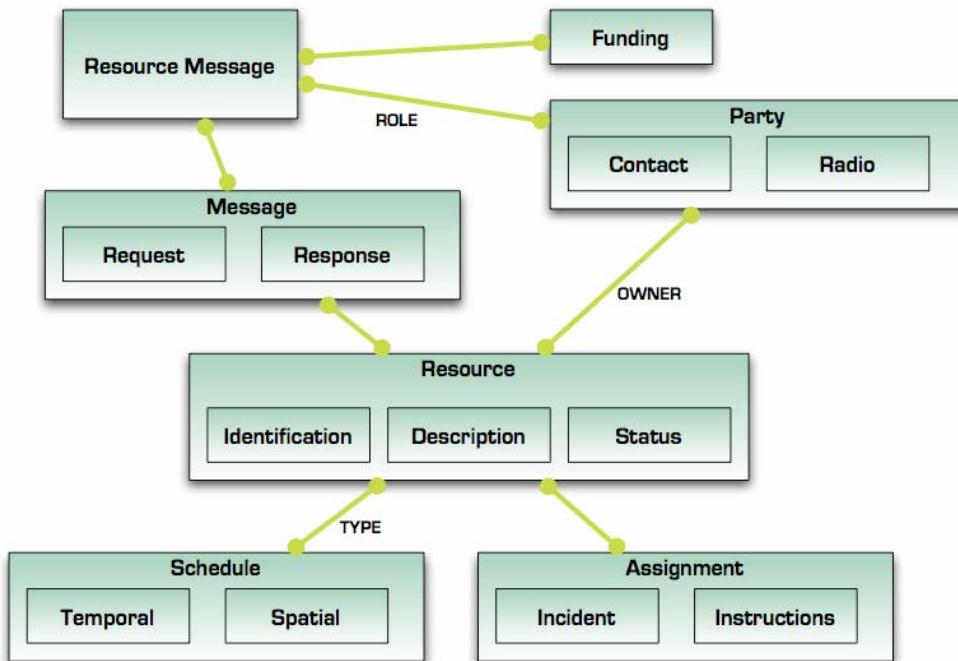
227

228 *Figure 1: Resource Messaging – Abstract Reference Model*

229

230 The core of any message is the Resource. A Resource contains information about its Identity, Description
231 and its Status. A Resource owner can also be identified.

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

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

3.2 Element Reference Model

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

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

242
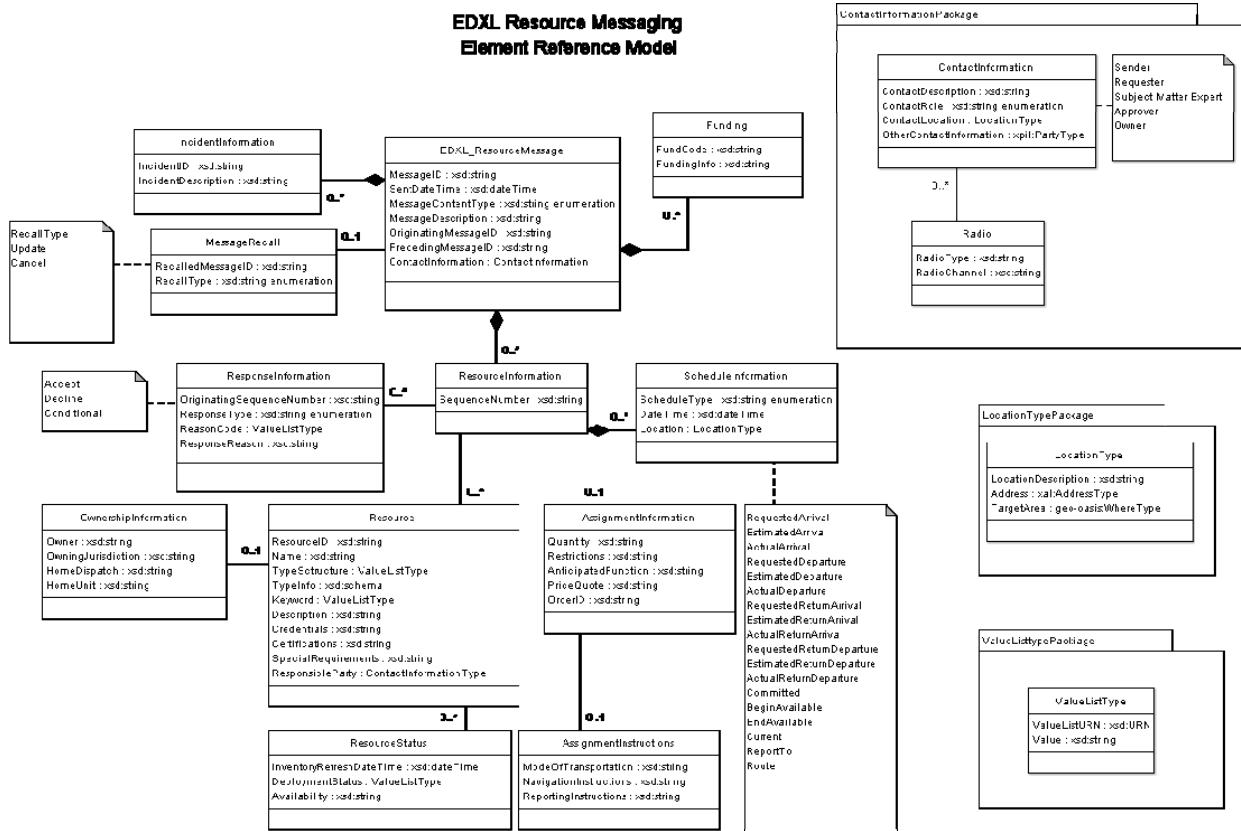
243

244 *Figure 2: Resource Messaging – Element Reference Model*

245 The RM-ERM shows the element-level details for the main entities in the RM. The semantics for each of
246 the elements is defined in Section **Error! Reference source not found.**.

3.3 Resource Message Types

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

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

256 There are 16 resource messages defined in this specification, which are summarized in Table 2 below.

257

258 *Table 2: Resource Message Type Summary*

Message Type	Description	Message Sender
Request Resource	Message used to request needed resources from one or many recipients, possibly spawning multiple responses. [RequestResource]	Resource Consumer
Response to Request Resource	Message used as the response to a "Request Resource". Allows sender to list resource(s) which they feel represent suitable match with a resource request. [ResponseToRequestResource]	Resource Supplier
Requisition Resource	Message used to "order" specific resource, or to confirm specific resource to be "ordered" relating to one or more responses to a "Request Resource". RequisitionResource]	Resource Consumer
Commit Resource	Message used to agree or commit specific resource in response to a Resource Request or Requisition, or to a "Request Return". [CommitResource]	Resource Supplier
Request Information (RFI)	Message used to ask resource questions or provide general description of situation and general resources needs. [RequestInformation]	Resource Consumer
Response to Request Information	Message used as the response to an RFI message providing general information or to list resource that may meet the specified need. [ResponseToRequestInformation]	Resource Supplier
Offer Unsolicited Resource	Message used to offer available resources (that have not been requested) to assist with an emergency response. [OfferUnsolicitedResource]	Resource Supplier
Release Resource	Message used at the incident to "release" (demobilize) resource back to its original Supplier. [ReleaseResource]	Resource Consumer
Request Return	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"). [RequestReturn]	Resource Supplier
Response to Request Return	Message used as the response to a "Request Return" indicating whether the resource may be released, with relevant time-line information. [ResponseToRequestReturn]	Resource Consumer
Request Quote	Message used to request a price quote from a seller or supplier. [RequestQuote]	Resource Consumer
Response to Request Quote	Message used as the response to a "Request Quote". Allows sender to list resource(s) which they feel represent suitable match with the request, with pricing information. [ResponseToRequestQuote]	Resource Supplier
Request Resource Deployment Status	Message used to request current "status" of resource. [RequestResourceDeploymentStatus]	Both
Report Resource Deployment Status	Message used to report on the current "status" of any resource. [ReportResourceDeploymentStatus]	Both
Request Extended Deployment Duration	A request initiated by the requester / receiver of resource, "I want to extend how long I need to keep this resource" [RequestExtendedDeploymentDuration]	Resource Consumer
Response to Request Extended Deployment Duration	Message used as the response to "Request Extended Deployment Duration". [ResponseToRequestExtendedDeploymentDuration]	Resource Supplier

259

260 The remainder of this section is informative only. It is included to show how the resource messages might
261 flow between the Resource Consumer and Resource Supplier during resource management. Note,

262　however, that this specification does not prescribe the sequence of message exchanges, except for some
263　dependencies between messages which are described in Section 3.3.1.

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

265　•　Discovery,

266　•　Ordering, and

267　•　Deployment, as shown in Figure 3.

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

270　The Ordering phase enables Resource Consumers to explicitly requisition Resources from Resource
271　Suppliers.

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

274　It is important to note that this specification does not mandate an exact order and workflow of Resoruce
275　Messages. For example, the Ordering phase may actually only require the Commit Resource message
276　for some actors.
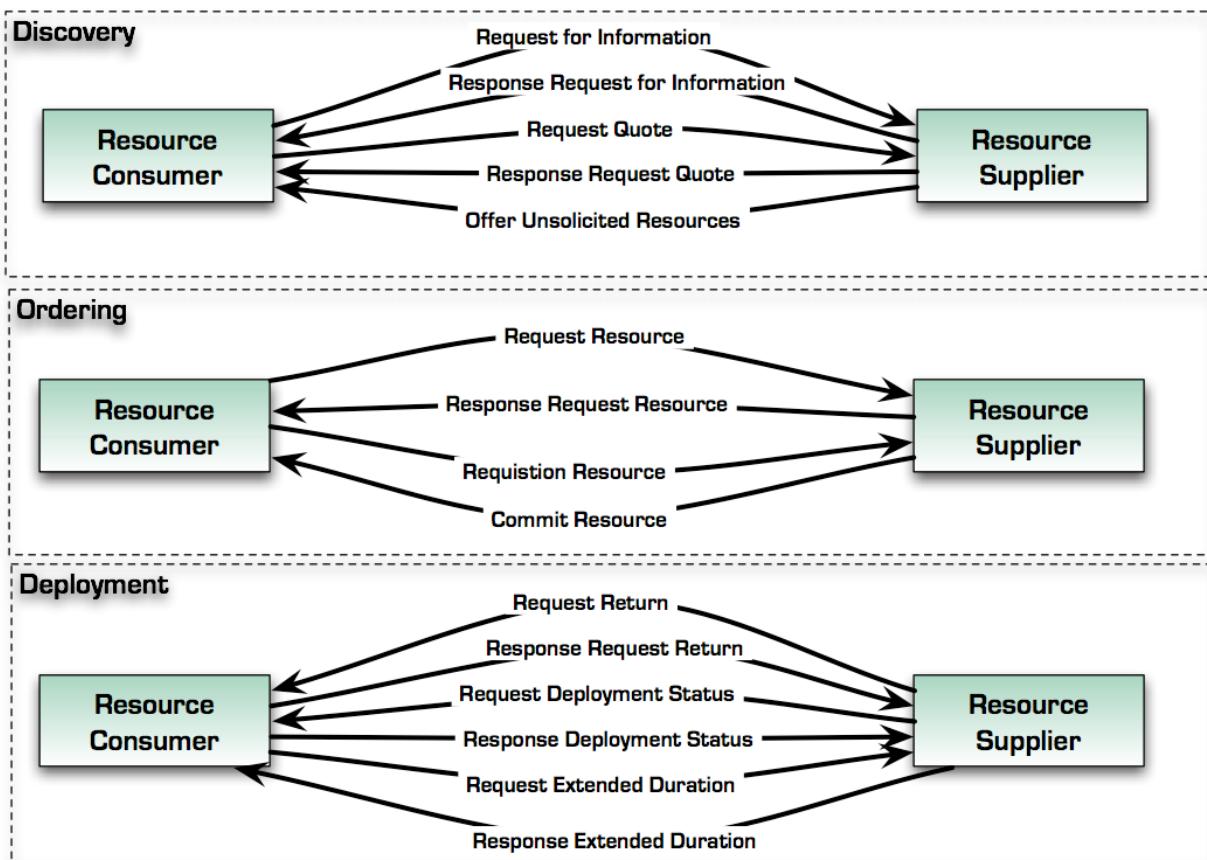
277

278　*Figure 3: Resource Message Phases*

279

280　Table 3 summarises all the Message Types and their element contents. The specific details on each of
281　the Message Types are outlined in the following sections.

282

283　Table 3: Resource Message Type – Element Matrix (Key: R = Required, C = Conditional, O = Optional,
284　　　　　　　　　　　　　　N/A – Not Applicable to the message type)

Schema Segment	Message Element	Request Resource	Response to Request Resource	Requisition Resource	Commit Resource	Request Information (RFI)	Response to Request Information	Offer Unsolicited 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	N/A	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
	ContactInformation	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	C
	IncidentDescription	C	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	R
	RecallType	R	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	C
	FundingInfo	C	C	C	C	C	C	N/A	C	C	C	C	C	C	C	C	C
Resource Information	SequenceNumber	R	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	R
	Resource	R	O	R	C	O	O	R	R	R	O	R	C	R	O	R	C
	AssignmentInformation	O	O	R	C	O	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	O
Response Information	PrecedingSequenceNumber	N/A	R	N/A	R	N/A	R	N/A	R	N/A	R	R	R	N/A	R	N/A	R
	ResponseType	N/A	R	N/A	R	N/A	R	N/A	R	N/A	R	R	R	N/A	R	N/A	R
	ReasonCode	N/A	C	N/A	C	N/A	C	N/A	C	N/A	C	C	C	N/A	C	N/A	C
	ResponseReason	N/A	C	N/A	C	N/A	C	N/A	C	N/A	C	C	C	N/A	C	N/A	C
Resource	ResourceID	C	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	C
	TypeStructure	C	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	O
	Keyword	O	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	O
	Credentials	O	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	O
	SpecialRequirements	O	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	O
	OwnershipInformation	N/A	O	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	O
Ownership Information	Owner	N/A	C	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	C
	HomeDispatch	N/A	O	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	O
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

Schema Segment	Message Element	Request Resource	Response to Request Resource	Requisition Resource	Commit Resource	Request Information (RFI)	Response to Request Information	Offer Unsolicited 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
	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

285

Table 4: Resource Message Type – Element Matrix (Key: R = Required, C = Conditional, O = Optional, N/A – Not Applicable to the message type)

288

3.3.1 Request Resource Message

3.3.1.1 Overview

The *Request Resource* message is used as a broad area announcement for resource needs. Emergency Managers, Incident Commanders, First Responders use this message to request information on availability of resources that they need.

3.3.1.2 Element Reference Model

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

297

EDXL Resource Messaging
EDXL Request Resource Message Model
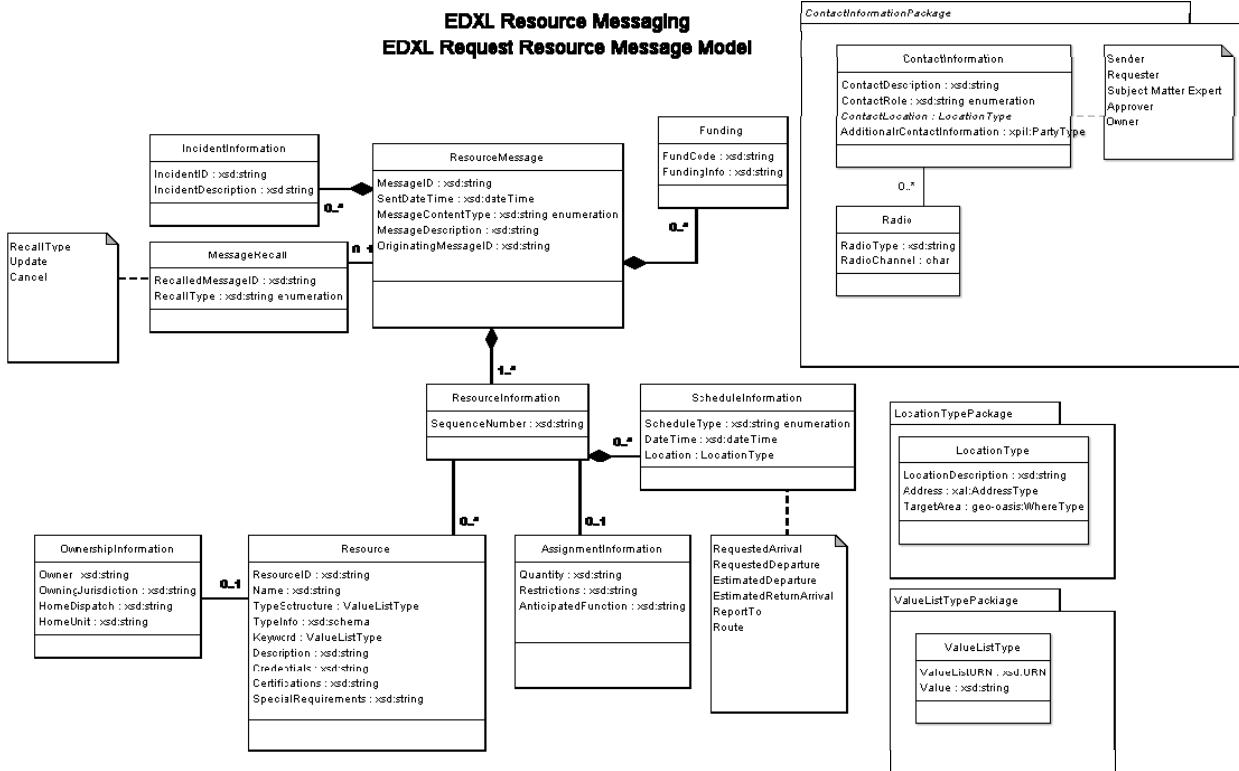
298

299 *Figure 4: EDXL-RM ERM for Request Resource Message*

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

301 – **bold** indicates an element/attribute that is required

302 – *italics* indicate an element/attribute that is conditional (the applicable rules for these elements
303 appear below the table)

304 – an asterisk (*) indicates that an element/attribute can appear multiple times

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

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

308

309 *Table 5: Request Resource Message Elements*

Parent Element	Sub-Elements
ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, MessageDescription, **OriginatingMessageID**, IncidentInformation*, MessageRecall, Funding* **ContactInformation***, **ResourceInformation***
IncidentInformation	*IncidentID*, *IncidentDescription*
MessageRecall	**RecalledMessageID**, **RecallType**
Funding	*FundCode*, *FundingInfo*
ResourceInformation	**SequenceNumber, Resource**, AssignmentInformation, ScheduleInformation*
Resource	*ResourceID*, *Name*, *TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements

AssignmentInformation	Quantity, Restrictions, AnticipatedFunction
ScheduleInformation	**ScheduleType^**, DateTime, Location

310 The following rules apply to the above elements/attributes:

311 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime
312 ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
313 ResourceMessage:ContactInformation, and ResourceMessage:ResourceInformation elements MUST
314 be present.

315 • The value of ResourceMessage:MessageContentType MUST be "RequestResource".

316 • If a ResourceMessage:IncidentInformation element is present, then at least one of
317 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription MUST be present.

318 • If the ResourceMessage:MessageRecall element is present, then the
319 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements MUST be present.

320 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
321 Funding:FundingInfo MUST be present.

322 • The ResourceInformation:SequenceNumber and ResourceInformation:Resource elements MUST be
323 present.

324 • At least one of Resource:ResourceID, Resource:Name and/or ResourceType:TypeStructure MUST
325 be present.

326 • If the ResourceInformation:ScheduleInformation element is present, then the value of
327 ScheduleInformation:ScheduleType MUST be present and contain one of the following values:

328 • New Schedule Information: "RequestedArrival", "RequestedDeparture",
329 "EstimatedReturnDeparture", "EstimatedReturnArrival", "ReportTo", or "Route".

330

331 The schema for a Request Resource message can be found in Appendix A.3.

332 3.3.1.3 Message Flow

333 The Request Resource message is an initial message created and sent by the Resource Consumer to
334 any number of Resource Suppliers.

335 The potential responses to this message include:

336 • Response to Resource Request (See 0)

337 • Response may include Accept, Decline, and any Conditional response.

338 • Acknowledgement

339 • The EDXL-DE is used for a message acknowledgement.

340

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

342 3.3.1.4 Message Example

343 Below is an example of a Request Resource Message, in which three resource requests are shown:

344 • Small Animal Sheltering Team (id=001)

345 • Patrol and Surveillance Helicopters (id=002)

346 • Electrical Power Restoration Team (id=003)

347

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

```
349  <?xml version="1.0" encoding="UTF-8"?>
350  <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
351      xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestResource EDXL-
352  RMRequestResource.xsd"
353      xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestResource"
354      xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
355  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
356      xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
357      xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
358  xmlns:gml="http://www.opengis.net/gml">
359      <MessageID>urn:au-qld-eoc:12332</MessageID>
360      <SentDateTime>2006-03-21T11:58:00+10:00</SentDateTime>
361      <MessageContentType>Request Resource</MessageContentType>
362      <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
363      <IncidentInformation>
364          <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
365      </IncidentInformation>
366      <ContactInformation>
367          <rm:ContactRole>Sender</rm:ContactRole>
368          <rm:AdditionalContactInformation>
369              <xnl:PartyName>
370                  <xnl:PersonName>
371                      <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
372                      <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
373                  </xnl:PersonName>
374                  <xnl:OrganisationName>
375                      <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
376                  </xnl:OrganisationName>
377              </xnl:PartyName>
378              <xpil:ContactNumbers>
379                  <xpil:ContactNumber xpil:MediaType="Telephone" xpil:ContactHours="9:00AM
380  - 5:00PM">
381                      <xpil:ContactNumberElement
382  xpil:ElementType="CountryCode">61</xpil:ContactNumberElement>
383                      <xpil:ContactNumberElement
384  xpil:ElementType="AreaCode">7</xpil:ContactNumberElement>
385                      <xpil:ContactNumberElement xpil:ElementType="LocalNumber">3000
386                      1234</xpil:ContactNumberElement>
387                  </xpil:ContactNumber>
388              </xpil:ContactNumbers>
389              <xpil:EmailAddresses>
390                  <xpil:EmailAddress>alexj@emergencyservices.gov.au</xpil:EmailAddress>
391              </xpil:EmailAddresses>
392          </rm:AdditionalContactInformation>
393      </ContactInformation>
394      <ResourceInformation>
395          <SequenceNumber>001</SequenceNumber>
396          <Resource>
397              <TypeStructure>
398                  <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
399                  <rm:Value>Small Animal Sheltering Team</rm:Value>
400              </TypeStructure>
401              <Description> 5-person response team to advise and support local efforts to
402  set up a
403                  small animal shelter </Description>
404              <SpecialRequirements>A qualified vetinary surgeon</SpecialRequirements>
405          </Resource>
406          <AssignmentInformation>
407              <Quantity>1</Quantity>
408          </AssignmentInformation>
409          <ScheduleInformation>
410              <ScheduleType>RequestedArrival</ScheduleType>
411              <DateTime>2006-03-24T09:00:00+10:00</DateTime>
412              <Location>
413                  <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
414                  <rm:Address>
415                      <xal:Country>
416                          <xal:Name>Australia</xal:Name>
417                      </xal:Country>
418                      <xal:AdministrativeArea>
419                          <xal:Name>QLD</xal:Name>
```

```
420                          </xal:AdministrativeArea>
421                          <xal:Locality>
422                              <xal:Name>Innisfail</xal:Name>
423                          </xal:Locality>
424                          <xal:Thoroughfare>
425                              <xal:NameElement>Downing St</xal:NameElement>
426                              <xal:Number>27</xal:Number>
427                          </xal:Thoroughfare>
428                          <xal:PostCode>
429                              <xal:Identifier>4860</xal:Identifier>
430                          </xal:PostCode>
431                      </rm:Address>
432                  </Location>
433          </ScheduleInformation>
434          <ScheduleInformation>
435              <ScheduleType>EstimatedReturnDeparture</ScheduleType>
436              <DateTime>2006-03-30T17:00:00+10:00</DateTime>
437          </ScheduleInformation>
438      </ResourceInformation>
439      <ResourceInformation>
440          <SequenceNumber>002</SequenceNumber>
441          <Resource>
442              <TypeStructure>
443                  <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
444                  <rm:Value>Patrol and Surveillance Helicopters</rm:Value>
445              </TypeStructure>
446          </Resource>
447          <AssignmentInformation>
448              <Quantity>3</Quantity>
449              <AnticipatedFunction>Arial surveillance to determine extent of
450              flooding</AnticipatedFunction>
451          </AssignmentInformation>
452          <ScheduleInformation>
453              <ScheduleType>RequestedArrival</ScheduleType>
454              <DateTime>2006-03-22T09:00:00+10:00</DateTime>
455              <Location>
456                  <rm:LocationDescription>Innisfail airport</rm:LocationDescription>
457              </Location>
458          </ScheduleInformation>
459      </ResourceInformation>
460      <ResourceInformation>
461          <SequenceNumber>003</SequenceNumber>
462          <Resource>
463              <TypeStructure>
464                  <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
465                  <rm:Value>Electrical Power Restoration Team</rm:Value>
466              </TypeStructure>
467          </Resource>
468          <AssignmentInformation>
469              <Quantity>2</Quantity>
470              <AnticipatedFunction> Restore power to critical infrastructure in and around
471      the
472                  Innisfail area </AnticipatedFunction>
473          </AssignmentInformation>
474          <ScheduleInformation>
475              <ScheduleType>RequestedArrival</ScheduleType>
476              <DateTime>2006-03-22T08:00:00+10:00</DateTime>
477              <Location>
478                  <rm:TargetArea>
479                      <gml:Point>
480                          <gml:pos> 146.03 -17.53 </gml:pos>
481                      </gml:Point>
482                  </rm:TargetArea>
483              </Location>
484          </ScheduleInformation>
485      </ResourceInformation>
486  </EDXLResourceMessage>
487
```

488 3.3.2 Response to Request Resource Message

489 3.3.2.1 Overview

490 The *Response to Request Resource* message is used by potential resource suppliers (e.g. mutual aid
491 partners, equipment suppliers, etc.) to respond to *Request Resource* messages from Logistics
492 Coordinators or others with logistics responsibilities. The response may identify availability, limitations and
493 other pertinent information related to resources in the original request.

494 3.3.2.2 Element Reference Model

495 Figure 5 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Response to
496 Request Resource Message. The ERM shows the element-level details for the main entities in the RM.
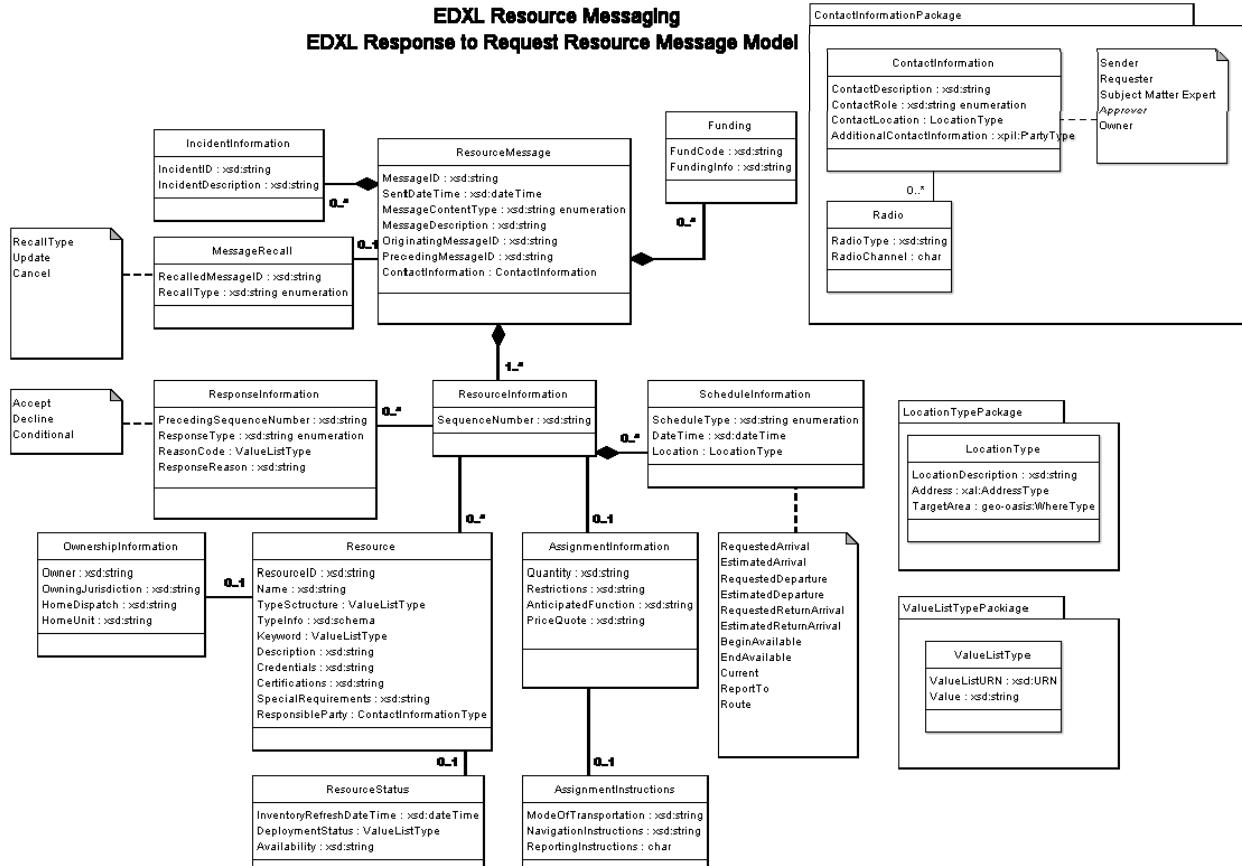
497

498 *Figure 5: EDXL-RM ERM for Response to Request Resource Message*

499

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

501

502 *Table 6: Response to Request Resource Message Elements*

Parent Element	Sub-Elements
ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, MessageDescription, **OriginatingMessageID**, **PrecedingMessageID**, PrecedingMessageID, IncidentInformation*, MessageRecall, Funding* **ContactInformation***,

	ResourceInformation*
IncidentInformation	*IncidentID*, *IncidentDescription*
MessageRecall	**RecalledMessageID**, **RecallType**
Funding	*FundCode*, *FundingInfo*
ResourceInformation	**SequenceNumber, ResponseInformation,** Resource, AssignmentInformation, ScheduleInformation*
ResponseInformation	**PrecedingSequenceNumber***, ResponseType*, *ReasonCode, ResponseReason*
Resource	*ResourceID, Name, TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus
OwnerInformation	*Owner, OwningJurisdiction,* HomeDispatch, HomeUnit
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssigmentInformation	Quantity^, Restrictions, AnticipatedFunction, PriceQuote, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	**ScheduleType^**, DateTime, Location

503

504   The following rules apply to the above elements/attributes:

505   • The ResourceMessage:MessageID, ResourceMessage:SentDateTime
506   ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
507   ResourceMessage:PrecedingMessageID, ResourceMessage:ContactInformation, and
508   ResourceMessage:ResourceInformation elements MUST be present.

509   • The value of ResourceMessage:MessageContentType MUST be "RequestResourceResponse".

510   • If a ResourceMessage:IncidentInformation element is present, then at least one of
511   IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription MUST be present.

512   • If the ResourceMessage:MessageRecall element is present, then the
513   MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

514   • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode or
515   Funding:FundingInfo MUST be present.

516   • The ResourceInformation:SequenceNumber and ResourceInformation:ResponseInformation
517   elements must be present.

518   • The ResponseInformation:PrecedingSequenceNumber and ResponseInformation:ResponseType
519   elements must be present.

520   • If ResponseInformation:ResponseType has a value of "Conditional", then at least one of
521   ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST
522   be present.

523   • At least one of Resource:ResourceID, Resource:Name, and/or ResourceType:TypeStructure element
524   MUST be present.

525   • If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceID,
526   Resource:Name, and/or ResourceType:TypeStructure element MUST be present.

527 • If Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
528 OwnershipInformation:OwningJurisdiction element MUST be present.

529 • If the ResourceInformation:AssignementInformation element is present and the
530 ResponseInformation:ResponseType contains a values of "Accept" or "Conditional", then the
531 AssignmentInformation:Quantity element must be present.

532 • If ResourceInformation:ScheduleInformation is present then ScheduleInformation:ScheduleType
533 MUST be present and contain one of the the following values:

534 • New Schedule Information: "EstimatedArrival", "Estimated Departure",
535 "RequestedReturnDeparture", "RequestedReturnArrival", "BeginAvailable", and "EndAvailable",

536 • Carried Forward Schedule Information: "RequestedArrival", "RequestedDeparture",
537 "EstimatedReturnDeparture", "EstimatedReturnDeparture" or "ReportTo",

538 • Either New or Carried Forward Schedule Information: "Route".

539

540 The schema for a Response to Request Resource message can be found in Appendix A.4.

541 3.3.2.3 Message Flow

542 The Response to Request Resource message is sent by a Resource Supplier in response to an original
543 Request Resource message.

544 The potential responses to this message include:

545 • Acknowledgement

546 • The EDXL-DE is used for a message acknowledgement.

547 A Response to Request Resource message MAY be followed by a Requisition message from the
548 Resource Consumer.

549

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

551 3.3.2.4 Message Example

552 Below is an example of a Response to Request Resource Message. This is an example response to the
553 original request shown in Section 3.3.1.4 . In this example, the three requests have different responses:

554 • The "Small Animal Sheltering Team" (idref=001) has Conditional changes to the request. In this case
555 the Schedule information is different from that requested.

556 • The "Patrol and Surveillance Helicopters" (idref=002) is Declined.

557 • The "Electrical Power Restoration Team" (idref=003) is Accepted.

558

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

```
560  <?xml version="1.0" encoding="UTF-8"?>
561  <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
562
563  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestResource
564  EDXL-RMResponseToRequestResource.xsd"
565      xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestResource"
566      xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
567  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
568      xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
569      xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
570  xmlns:gml="http://www.opengis.net/gml">
571      <MessageID>urn:au-qld-eoc:12334</MessageID>
572      <SentDateTime>2006-03-21T12:34:00+10:00</SentDateTime>
573      <MessageContentType>Response to Request Resource</MessageContentType>
574      <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
```

```
575          <PrecedingMessageID>urn:au-qld-eoc:12332</PrecedingMessageID>
576        <IncidentInformation>
577            <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
578        </IncidentInformation>
579        <ContactInformation>
580            <rm:ContactRole>Sender</rm:ContactRole>
581            <rm:AdditionalContactInformation>
582                <xnl:PartyName>
583                    <xnl:PersonName>
584                        <xnl:NameElement
585   xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
586                        <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
587                    </xnl:PersonName>
588                    <xnl:OrganisationName>
589                        <xnl:NameElement>EMA</xnl:NameElement>
590                    </xnl:OrganisationName>
591                </xnl:PartyName>
592                <xpil:ContactNumbers>
593                    <xpil:ContactNumber xpil:MediaType="Telephone">
594                        <xpil:ContactNumberElement
595   xpil:ElementType="CountryCode">61</xpil:ContactNumberElement>
596                        <xpil:ContactNumberElement
597   xpil:ElementType="AreaCode">2</xpil:ContactNumberElement>
598                        <xpil:ContactNumberElement xpil:ElementType="LocalNumber"> 9864
599                        4321</xpil:ContactNumberElement>
600                    </xpil:ContactNumber>
601                </xpil:ContactNumbers>
602            </rm:AdditionalContactInformation>
603        </ContactInformation>
604        <ResourceInformation>
605            <SequenceNumber>001</SequenceNumber>
606            <ResponseInformation>
607                <rm:PrecedingSequenceNumber>001</rm:PrecedingSequenceNumber>
608                <rm:ResponseType>Conditional</rm:ResponseType>
609                <rm:ResponseReason>Earliest arrival date is 2006-03-25</rm:ResponseReason>
610            </ResponseInformation>
611            <ScheduleInformation>
612                <ScheduleType>EstimatedDeparture</ScheduleType>
613                <DateTime>2006-03-25T08:10:00</DateTime>
614                <Location>
615                    <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
616                </Location>
617            </ScheduleInformation>
618            <ScheduleInformation>
619                <ScheduleType>EstimatedArrival</ScheduleType>
620                <DateTime>2006-03-25T09:00:00+10:00</DateTime>
621                <Location>
622                    <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
623                </Location>
624            </ScheduleInformation>
625            <ScheduleInformation>
626                <ScheduleType>EstimatedArrival</ScheduleType>
627                <DateTime>2006-03-25T09:30:00+10:00</DateTime>
628                <Location>
629                    <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
630                    <rm:Address>
631                        <xal:Country>
632                            <xal:Name>Australia</xal:Name>
633                        </xal:Country>
634                        <xal:AdministrativeArea>
635                            <xal:Name>QLD</xal:Name>
636                        </xal:AdministrativeArea>
637                        <xal:Locality>
638                            <xal:Name>Innisfail</xal:Name>
639                        </xal:Locality>
640                        <xal:Thoroughfare>
641                            <xal:NameElement>Downing St</xal:NameElement>
642                            <xal:NameElement>27</xal:NameElement>
643                        </xal:Thoroughfare>
644                        <xal:PostCode>
645                            <xal:Identifier>4860</xal:Identifier>
```

```
646            </xal:PostCode>
647          </rm:Address>
648        </Location>
649      </ScheduleInformation>
650    </ResourceInformation>
651    <ResourceInformation>
652      <SequenceNumber>002</SequenceNumber>
653      <ResponseInformation>
654        <rm:PrecedingSequenceNumber>002</rm:PrecedingSequenceNumber>
655        <rm:ResponseType>Accept</rm:ResponseType>
656      </ResponseInformation>
657    </ResourceInformation>
658    <ResourceInformation>
659      <SequenceNumber>003</SequenceNumber>
660      <ResponseInformation>
661        <rm:PrecedingSequenceNumber>003</rm:PrecedingSequenceNumber>
662        <rm:ResponseType>Decline</rm:ResponseType>
663      </ResponseInformation>
664    </ResourceInformation>
665 </EDXLResourceMessage>
```

666

3.3.3 Requisition Resource Message

3.3.3.1 Overview

669 The "Requisition Resource" message is used by Resource Consumers to order resources from Resource
670 Suppliers. These may relate to one or more responses to a previous Request Resource message.

3.3.3.2 Element Reference Model

672 Figure 6 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Requisition
673 Resource Message. The ERM shows the element-level details for the main entities in the RM.

674
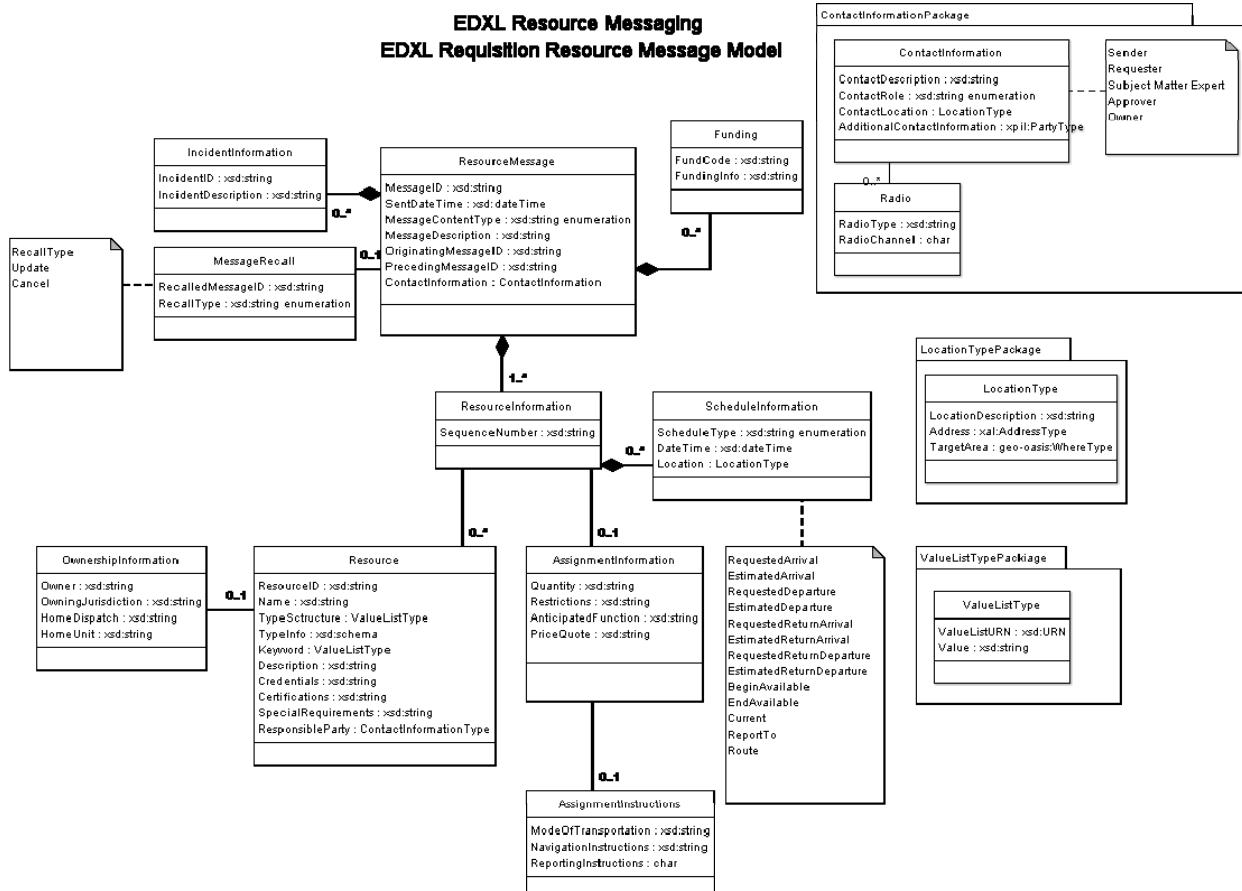
675 *Figure 6: EDXL-RM ERM Requisition Resource Message*

676

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

678

679 *Table 7: Requisition Resource Message Elements*

Parent Element	Sub-Elements
ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, MessageDescription, **OriginatingMessageID**, PrecedingMessageID, IncidentInformation*, MessageRecall, **Funding*** **ContactInformation***, **ResourceInformation***
IncidentInformation	*IncidentID*, *IncidentDescription*
MessageRecall	**RecalledMessageID**, **RecallType**
Funding	*FundCode*, *FundingInfo*
ResourceInformation	**SequenceNumber, Resource**, **AssignmentInformation**, ScheduleInformation*
Resource	*ResourceID*, *Name*, *TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation
OwnershipInformation	*Owner, OwningJurisdiction,* HomeDispatch, HomeUnit

AssigmentInformation	**Quantity**, Restrictions, AnticipatedFunction, PriceQuote, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	**ScheduleType^**, DateTime, Location

680

681 The following rules apply to the above elements/attributes:

682 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime,
683 ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
684 ResourceMessage: Funding, ResourceMessage: ContactInformation, and ResourceMessage:
685 ResourceInformation elements MUST be present.

686 • The value of ResourceMessage:MessageContentType MUST be "RequisitionResource".

687 • If a ResourceMessage:IncidentInformation element is present, then at least one of
688 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription elements MUST be
689 present.

690 • If the ResourceMessage:MessageRecall element is present, then the
691 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

692 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
693 Funding:FundingInfo elements MUST be present.

694 • The ResourceInformation:SequenceNumber, ResourceInformation:Resource and
695 ResourceInformation:AssignmentInformation elements MUST be present

696 • At least one of Resource:ResourceID, Resource:Name, and/or ResourceType:TypeStructure element
697 MUST be present.

698 • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner or/or
699 OwnershipInformation:OwningJurisdiction elements MUST be present.

700 • The AssignmentInformation:Quantity element MUST be present.

701 • If ResourceInformation:ScheduleInformation is present, then the ScheduleInformation:ScheduleType
702 MUST be present and contain one of the the following values:

703 • Carried Forward Schedule Information: "EstimatedArrival", "EstimatedDeparture",
704 "EstimatedReturnDeparture", "EstimatedReturnArrival", "ReportTo",

705 • New or Carried Forward Schedule Information: "RequestedArrival", "RequestedDeparture",
706 "EstimatedReturnDeparture", "EstimatedReturnArrival", "ReportTo", or "Route"

707

708 The schema for a Requisition Resource message can be found in Appendix A.5.

709 3.3.3.3 Message Flow

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

712 The potential responses to this message include:

713 • Commit Resource

714 • This includes Accept, Decline and Conditional responses

715 • Acknowledgement

716 • The EDXL-DE is used for a message acknowledgement.

717

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

719 3.3.3.4 Message Example

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

721 • Small Animal Sheltering Team (id=001)

722 • Patrol and Surveillance Helicopters (id=002)

723

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

```
725   <?xml version="1.0" encoding="UTF-8"?>
726   <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
727       xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequisitionResource
728   EDXL-RMRequisitionResource.xsd"
729       xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequisitionResource"
730       xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
731   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
732       xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
733       xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
734   xmlns:gml="http://www.opengis.net/gml">
735       <MessageID>urn:au-qld-eoc:987654</MessageID>
736       <SentDateTime>2006-03-21T12:39:00+10:00</SentDateTime>
737       <MessageContentType>Requisition Resource</MessageContentType>
738       <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
739       <IncidentInformation>
740           <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
741       </IncidentInformation>
742       <Funding>
743           <rm:FundCode>HP4347</rm:FundCode>
744       </Funding>
745       <ContactInformation>
746           <rm:ContactRole>Requester</rm:ContactRole>
747           <rm:AdditionalContactInformation>
748               <xnl:PartyName>
749                   <xnl:PersonName>
750                       <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
751                       <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
752                   </xnl:PersonName>
753                   <xnl:OrganisationName>
754                       <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
755                   </xnl:OrganisationName>
756               </xnl:PartyName>
757               <xpil:ContactNumbers>
758                   <xpil:ContactNumber xpil:MediaType="Telephone" xpil:ContactHours="9:00AM
759   - 5:00PM">
760                       <xpil:ContactNumberElement
761   xpil:ElementType="CountryCode">61</xpil:ContactNumberElement>
762                       <xpil:ContactNumberElement
763   xpil:ElementType="AreaCode">7</xpil:ContactNumberElement>
764                       <xpil:ContactNumberElement xpil:ElementType="LocalNumber">3000
765                       1234</xpil:ContactNumberElement>
766                   </xpil:ContactNumber>
767               </xpil:ContactNumbers>
768               <xpil:EmailAddresses>
769                   <xpil:EmailAddress>alexj@emergencyservices.gov.au</xpil:EmailAddress>
770               </xpil:EmailAddresses>
771           </rm:AdditionalContactInformation>
772       </ContactInformation>
773       <ContactInformation>
774           <rm:ContactRole>Approver</rm:ContactRole>
775           <rm:AdditionalContactInformation>
776               <xnl:PartyName>
777                   <xnl:PersonName>
778                       <xnl:NameElement
779   xnl:ElementType="FirstName">Michelle</xnl:NameElement>
780                       <xnl:NameElement xnl:ElementType="LastName">Yates</xnl:NameElement>
781                   </xnl:PersonName>
782                   <xnl:OrganisationName>
783                       <xnl:NameElement>QLD Police</xnl:NameElement>
784                   </xnl:OrganisationName>
```

```
785              </xnl:PartyName>
786              <xpil:ContactNumbers>
787                  <xpil:ContactNumber xpil:MediaType="Mobile">
788                      <xpil:ContactNumberElement xpil:ElementType="NationalNumber">0422
789 877
790                      665</xpil:ContactNumberElement>
791                  </xpil:ContactNumber>
792              </xpil:ContactNumbers>
793              <xpil:Occupations>
794                  <xpil:Occupation>
795                      <xpil:OccupationElement xpil:ElementType="Role">District Disaster
796                      Coordinator</xpil:OccupationElement>
797                  </xpil:Occupation>
798              </xpil:Occupations>
799          </rm:AdditionalContactInformation>
800      </ContactInformation>
801      <ResourceInformation>
802          <SequenceNumber>001</SequenceNumber>
803          <Resource>
804              <TypeStructure>
805                  <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
806                  <rm:Value>Small Animal Sheltering Team</rm:Value>
807              </TypeStructure>
808              <Description> 5-person response team to advise and support local efforts to
809 set up a
810                  small animal shelter </Description>
811              <SpecialRequirements>A qualified vetinary surgeon</SpecialRequirements>
812          </Resource>
813          <AssignmentInformation>
814              <Quantity>1</Quantity>
815              <AssignmentInstructions>
816                  <rm:ReportingInstructions>Report to Mark Darcy, Innisfail Animal
817                  Refuge</rm:ReportingInstructions>
818              </AssignmentInstructions>
819          </AssignmentInformation>
820          <ScheduleInformation>
821              <ScheduleType>EstimatedArrival</ScheduleType>
822              <DateTime>2006-03-25T09:30:00+10:00</DateTime>
823              <Location>
824                  <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
825              </Location>
826          </ScheduleInformation>
827          <ScheduleInformation>
828              <ScheduleType>EstimatedReturnDeparture</ScheduleType>
829              <DateTime>2006-03-30T17:00:00+10:00</DateTime>
830          </ScheduleInformation>
831      </ResourceInformation>
832      <ResourceInformation>
833          <SequenceNumber>002</SequenceNumber>
834          <Resource>
835              <TypeStructure>
836                  <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
837                  <rm:Value>Patrol and Surveillance Helicopters</rm:Value>
838              </TypeStructure>
839          </Resource>
840          <AssignmentInformation>
841              <Quantity>3</Quantity>
842              <AnticipatedFunction>Arial surveillance to determine extent of
843              flooding</AnticipatedFunction>
844          </AssignmentInformation>
845          <ScheduleInformation>
846              <ScheduleType>RequestedArrival</ScheduleType>
847              <DateTime>2006-03-22T09:00:00+10:00</DateTime>
848              <Location>
849                  <rm:LocationDescription>Innisfail airport</rm:LocationDescription>
850              </Location>
851          </ScheduleInformation>
852      </ResourceInformation>
853 </EDXLResourceMessage>
854
```

855 3.3.4 Commit Resource Message

856 3.3.4.1 Overview

857 The "Commit Resource" message is used by a Resource Supplier to confirm that resources have been
858 committed to a Resource Consumer request. Usually, the Commit Resource is in response to a
859 Requistion Resource, or even a Request Resource. In some (rarer) cases, the Commit Resource may be
860 the first message sent to confirm a resource allocation from Resource Suppliers to Resource Consumers.
861 The Commit Resource is the only message used to indicate the resources have been allocated to an
862 assignment/incident.

863 3.3.4.2 Element Reference Model

864 Figure 7 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Commit Resource
865 Message. The ERM shows the element-level details for the main entities in the RM.

866
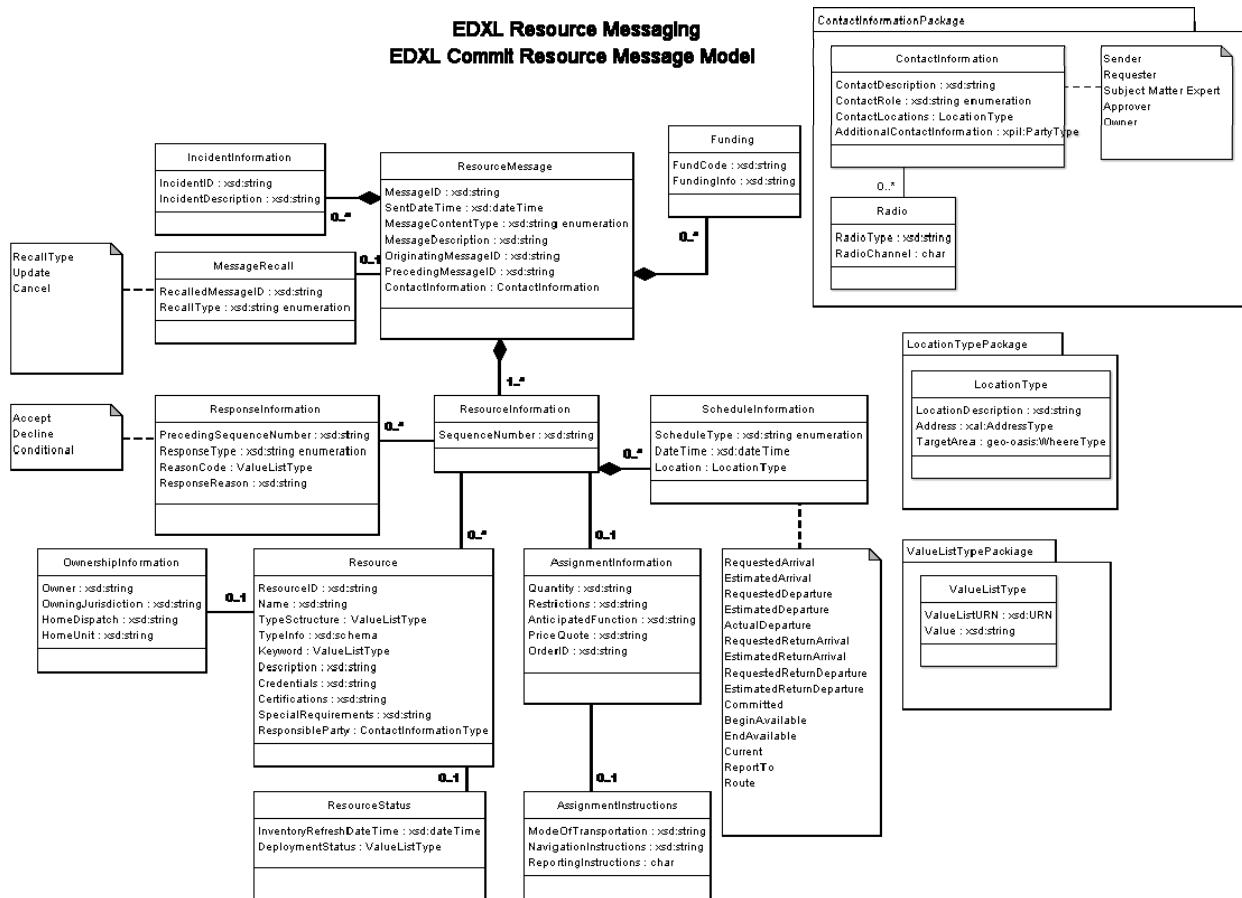
867 *Figure 7: EDXL-RM ERM for Commit Resource Message*

868

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

870

871 *Table 8: Commit Resource Message Elements*

Parent Element	Sub-Elements
ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, MessageDescription,

	OriginatingMessageID, **PrecedingMessageID**, IncidentInformation*, MessageRecall, Funding* **ContactInformation***, **ResourceInformation***
IncidentInformation	*IncidentID*, *IncidentDescription*
MessageRecall	**RecalledMessageID**, **RecallType**
Funding	*FundCode*, *FundingInfo*
ResourceInformation	**SequenceNumber, ResponseInformation,** Resource^, AssignmentInformation^, ScheduleInformation*^
ResponseInformation	***PrecedingSequenceNumber, ResponseType***, *ReasonCode, ResponseReason*
Resource	*ResourceID, Name, TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus
OwnerInformation	*Owner, OwningJurisdiction,* HomeDispatch, HomeUnit
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus
AssigmentInformation	**Quantity**, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	**ScheduleType^**, DateTime, Location

872

873 The following rules apply to the above elements/attributes:

874 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime,
875 ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
876 ResourceMessage:PrecedingMessageID, ResourceMessage: ContactInformation, and
877 ResourceMessage: ResourceInformation elements MUST be present.

878 • The value of ResourceMessage:MessageContentType MUST be "CommitResource".

879 • If a ResourceMessage:IncidentInformation element is present, then at least one of
880 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
881 present.

882 • If the ResourceMessage:MessageRecall element is present, then the
883 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

884 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
885 Funding:FundingInfo element MUST be present.

886 • The ResourceInformation:SequenceNumber and ResourceInformation: ResponseInformation:
887 ResponseInformation elements MUST be present.

888 • If ResponseInformation:ResponseType has a value of "Accept" or "Conditional", then the
889 ResourceInformation:Resource element MUST be present. Note: A ResponseInformation element is
890 required for each resource that is accepted or conditionally accepted. If
891 ResponseInformation:ResponseType has a value of "Decline" and all resources in the
892 RequisitionResource message are being declined, then the Resource element is optional.

893 • If ResponseInformation:ResponseType has a value of "Accept" or "Conditional", then the
894 ResourceInformation:AssignmentInformation element MUST be present. If
895 ResponseInformation:ResponseType has a value of "Decline", then the
896 ResourceInformation:AssignmentInformation is not applicable.

897 • If ResponseInformation:ResponseType has a value of "Accept" or "Conditional", then the
898 ResourceInformation:ScheduleInformation element MUST be present. If
899 ResponseInformation:ResponseType has a value of "Decline", then the
900 ResourceInformation:ScheduleInformation is not applicable.

901 • The ResponseInformation:PrecedingSequenceNumber and ResponseInformation:ResponseType
902 elements MUST be present.

903 • If ResponseInformation:ResponseType has a value of "Conditional", then at least one of
904 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST
905 be present.

906 • If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceID,
907 Resource:Name, and/or ResourceType:TypeStructure element MUST be present.

908 • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
909 OwnershipInformation:OwningJurisdiction element MUST be present.

910 • If a ResourceInformation:AssignmentInformation element is present, then the
911 AssignmentInformation:Quantity element MUST be present.

912 • If the ResourceInformation:ScheduleInformation element is present, then the
913 ScheduleInformation:ScheduleType MUST be present and contain one of the following values:

914 • New Schedule Information: "ActualDeparture", "Committed",

915 • Carried Forward Schedule Information: "RequestedArrival", "RequestedDeparture",
916 "EstimatedReturnDeparture", "RequestedReturnArrival", "EstimatedReturnArrival", "ReportTo",

917 • New or Carried Forward Schedule Information: "EstimatedArrival ", "EstimatedDeparture",
918 "RequestedReturnDeparture", "BeginAvailable", "EndAvailable", or "Route".

919

920 The schema for a Commit Resource message can be found in Appendix A.6.

3.3.4.3 Message Flow

922 The Commit Resource message is sent by a Resource Supplier in response to an either a Request
923 Resource or Requisition Resource message sent by the Resource Consumer.

924 The potential responses to this message include:

925 • Acknowledgement

926 • The EDXL-DE is used for a message acknowledgement.

927

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

3.3.4.4 Message Example

930 Below is an example of a Commit Resource Message. This is an example Response to the original
931 Requisition Resource shown in Section 3.3.3.4. In this example, the two requests have different
932 responses:

933 • The "Small Animal Sheltering Team" (idref=001) is Accepted. In this case the Schedule information is
934 updated with Committed and Actual Departure dates.

935 • The "Patrol and Surveillance Helicopters" (idref=002) is Declined.

936

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

```
938   <?xml version="1.0" encoding="UTF-8"?>
939   <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
940       xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:CommitResource EDXL-
941   RMCommitResource.xsd"
```

```
942          xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:CommitResource"
943          xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
944     xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
945          xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
946          xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
947     xmlns:gml="http://www.opengis.net/gml">
948          <MessageID>urn:au-qld-eoc:997754</MessageID>
949          <SentDateTime>2006-03-21T12:46:00+10:00</SentDateTime>
950          <MessageContentType>Commit Resource</MessageContentType>
951          <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
952          <PrecedingMessageID>urn:au-qld-eoc:987654</PrecedingMessageID>
953          <IncidentInformation>
954              <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
955          </IncidentInformation>
956          <Funding>
957              <rm:FundCode>HP4347</rm:FundCode>
958          </Funding>
959          <ContactInformation>
960              <rm:ContactRole>Sender</rm:ContactRole>
961              <rm:AdditionalContactInformation>
962                  <xnl:PartyName>
963                      <xnl:PersonName>
964                          <xnl:NameElement
965     xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
966                          <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
967                      </xnl:PersonName>
968                      <xnl:OrganisationName>
969                          <xnl:NameElement>EMA</xnl:NameElement>
970                      </xnl:OrganisationName>
971                  </xnl:PartyName>
972              </rm:AdditionalContactInformation>
973          </ContactInformation>
974          <ResourceInformation>
975              <SequenceNumber>001</SequenceNumber>
976              <ResponseInformation>
977                  <rm:PrecedingSequenceNumber>001</rm:PrecedingSequenceNumber>
978                  <rm:ResponseType>Accept</rm:ResponseType>
979              </ResponseInformation>
980              <Resource>
981                  <TypeStructure>
982                      <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
983                      <rm:Value>Small Animal Sheltering Team</rm:Value>
984                  </TypeStructure>
985                  <Description> 5-person response team to advise and support local efforts to
986     set up a
987                      small animal shelter </Description>
988                  <SpecialRequirements>A qualified vetinary surgeon</SpecialRequirements>
989              </Resource>
990              <AssignmentInformation>
991                  <Quantity>1</Quantity>
992              </AssignmentInformation>
993              <ScheduleInformation>
994                  <ScheduleType>Committed</ScheduleType>
995                  <DateTime>2006-03-21T12:46:00+10:00</DateTime>
996              </ScheduleInformation>
997          </ResourceInformation>
998          <ResourceInformation>
999              <SequenceNumber>002</SequenceNumber>
1000             <ResponseInformation>
1001                 <rm:PrecedingSequenceNumber>002</rm:PrecedingSequenceNumber>
1002                 <rm:ResponseType>Decline</rm:ResponseType>
1003             </ResponseInformation>
1004         </ResourceInformation>
1005    </EDXLResourceMessage>
```

1006

1007 3.3.5 Request Information (RFI) Message

1008 3.3.5.1 Overview

1009 One use of the "Request Information" message is to ask questions about specific resources. In this case,
1010 the message can be the initial message sent from the Resource Consumer to the Resource Suppliers, or
1011 it can be a follow up message seeking further information after the Resource Consumer has sent a
1012 Request Resource or other resource messages. A Request Information can be used in this manner even
1013 after a resource has been committed and/or deployed; however, if the request is related to the status of a
1014 deployed resource, the Request Resource Deployment Status message MUST be used instead.

1015 A second use of this message type is to provide a general description of the sender's situation and
1016 needs, with the expectation of receiving responses suggesting suitable resources. This is useful when
1017 the Resource Consumer is not able to issue a specific Request Resource message because of a lack of
1018 knowledge about the resources that would be most appropriate for the situation.

1019 3.3.5.2 Element Reference Model

1020 Figure 8 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Request
1021 Information Message. The ERM shows the element-level details for the main entities in the RM.
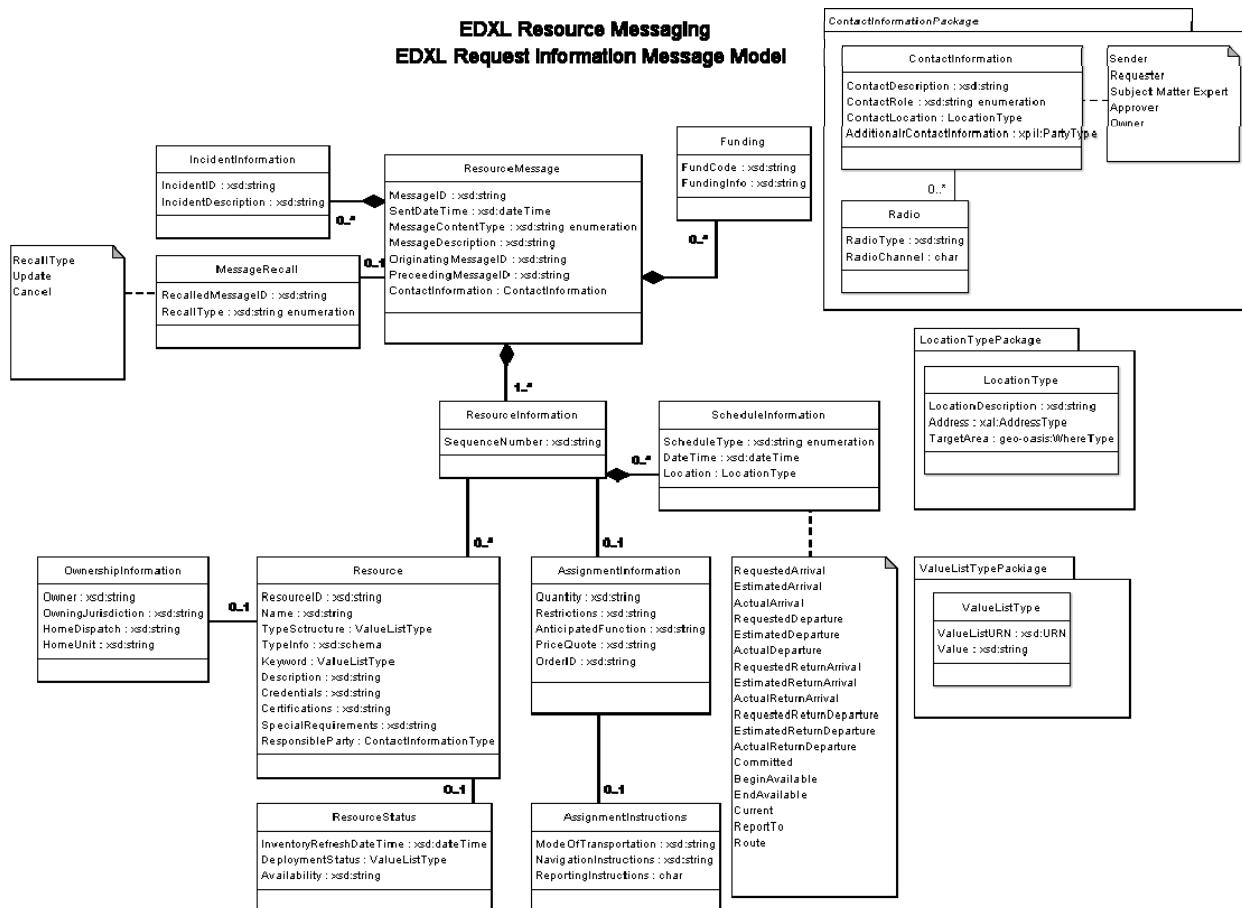
1022

1023 *Figure 8: EDXL-RM ERM for Request for Information (RFI) Message*

1024

1025 The following table outlines the element and attribute cardinalities for this message type.

1026

1027 *Table 9: Request Information Message Elements*

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

1028

1029 The following rules apply to the above elements/attributes:

1030 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime
1031 ResourceMessage:MessageContentType, ResourceMessage:MessageDescription,
1032 ResourceMessage:OriginatingMessageID, and ResourceMessage:ContactInformation elements
1033 MUST be present.

1034 • The value of ResourceMessage:MessageContentType MUST be "RequestInformation".

1035 • If a ResourceMessage:IncidentInformation element is present, then at least one of
1036 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
1037 present.

1038 • If the ResourceMessage:MessageRecall element is present, then the
1039 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

1040 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
1041 Funding:FundingInfo element MUST be present.

1042 • If a ResourceMessage:ResourceInformation element is present, then the
1043 ResourceInformation:SequenceNumber element MUST be present.

1044 • If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceID,
1045 Resource:Name, and/or ResourceType:TypeStructure element MUST be present.

1046 • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
1047 OwnershipInformation:OwningJurisdiction element MUST be present.

1048 • If the ResourceInformation:ScheduleInformation element is present, then the
1049 ScheduleInformation:ScheduleType MUST be present.

1050

1051 The schema for a Request Information message can be found in Appendix A.7.

3.3.5.3 Message Flow

The Request Resource message is sent by the Resource Consumer to any number of Resource Suppliers, and may follow earlier resource messages.

The potential responses to this message include:

- Response to Request for Information (See 0)
  - This includes Accept, Decline, and Conditional responses
- Report Resource Deployment Status
- Acknowledgement
  - The EDXL-DE is used for a message acknowledgement.

3.3.5.4 Message Example

Below are two example Request Information messages. The first is intended as a follow up message to the Request Resource and Response to Request Resource messages shown in Sections 3.3.1.4 and 3.3.2.4, requesting further information about the third resource that was requested (two electrical power restoration teams). The second message is a general request for assistance with assessing and repairing a damaged bridge.

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

```xml
<?xml version="1.0" encoding="UTF-8"?>
<EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestInformation
EDXL-RMRequestInformation.xsd"
    xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestInformation"
    xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
    xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
    xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
xmlns:gml="http://www.opengis.net/gml">
    <MessageID>urn:au-qld-eoc:12338</MessageID>
    <SentDateTime>2006-03-21T12:35:00+10:00</SentDateTime>
    <MessageContentType>Request Information</MessageContentType>
    <MessageDescription>Could you please advise the size (personnel and equipment) of
each power
        restoration team? </MessageDescription>
    <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
    <PrecedingMessageID>urn:au-qld-eoc:12332</PrecedingMessageID>
    <IncidentInformation>
        <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
    </IncidentInformation>
    <ContactInformation>
        <rm:ContactRole>Sender</rm:ContactRole>
        <rm:AdditionalContactInformation>
            <xnl:PartyName>
                <xnl:PersonName>
                    <xnl:NameElement
xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
                    <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
                </xnl:PersonName>
                <xnl:OrganisationName>
                    <xnl:NameElement>EMA</xnl:NameElement>
                </xnl:OrganisationName>
            </xnl:PartyName>
        </rm:AdditionalContactInformation>
    </ContactInformation>
    <ResourceInformation>
        <SequenceNumber>001</SequenceNumber>
        <Resource>
            <TypeStructure>
                <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
                <rm:Value>Electrical Power Restoration Team</rm:Value>
```

```
1111                    </TypeStructure>
1112                </Resource>
1113                <AssignmentInformation>
1114                    <Quantity>2</Quantity>
1115                    <AnticipatedFunction> Restore power to critical infrastructure in and around
1116        the
1117                        Innisfail area </AnticipatedFunction>
1118                </AssignmentInformation>
1119            </ResourceInformation>
1120        </EDXLResourceMessage>
```

```
1122        <?xml version="1.0" encoding="UTF-8"?>
1123        <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1124            xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestInformation
1125        EDXL-RMRequestInformation.xsd"
1126            xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestInformation"
1127            xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1128        xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1129            xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1130            xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
1131        xmlns:gml="http://www.opengis.net/gml">
1132            <MessageID>urn:au-qld-eoc:77388</MessageID>
1133            <SentDateTime>2006-03-21T19:35:00+10:00</SentDateTime>
1134            <MessageContentType>Request Information</MessageContentType>
1135            <MessageDescription>Cracks have been reported in the Centenary Bridge in Innisfail.
1136        This is a
1137            major bridge over the South Johnstone River, and appropriate resources are
1138        needed urgently
1139            to assess/repair the cracks. </MessageDescription>
1140            <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
1141            <IncidentInformation>
1142                <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1143            </IncidentInformation>
1144            <ContactInformation>
1145                <rm:ContactRole>Sender</rm:ContactRole>
1146                <rm:AdditionalContactInformation>
1147                    <xnl:PartyName>
1148                        <xnl:PersonName>
1149                            <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1150                            <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1151                        </xnl:PersonName>
1152                        <xnl:OrganisationName>
1153                            <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1154                        </xnl:OrganisationName>
1155                    </xnl:PartyName>
1156                    <xpil:ContactNumbers>
1157                        <xpil:ContactNumber xpil:MediaType="Telephone" xpil:ContactHours="9:00AM
1158        - 5:00PM">
1159                            <xpil:ContactNumberElement
1160        xpil:ElementType="CountryCode">61</xpil:ContactNumberElement>
1161                            <xpil:ContactNumberElement
1162        xpil:ElementType="AreaCode">7</xpil:ContactNumberElement>
1163                            <xpil:ContactNumberElement xpil:ElementType="LocalNumber">3000
1164                                1234</xpil:ContactNumberElement>
1165                        </xpil:ContactNumber>
1166                    </xpil:ContactNumbers>
1167                    <xpil:EmailAddresses>
1168                        <xpil:EmailAddress>alexj@emergencyservices.gov.au</xpil:EmailAddress>
1169                    </xpil:EmailAddresses>
1170                </rm:AdditionalContactInformation>
1171            </ContactInformation>
1172        </EDXLResourceMessage>
```

1173

3.3.6 Response to Request Information Message

3.3.6.1 Overview

The "Response to Request Information" message is used by Resource Suppliers to respond to an original Request Information message from Resource Consumers. If the original Request Information message contained one or more ResourceSummary elements, the response MUST Accept or Decline each ResourceSummary element with a separate ResponseSummary element; however, accepting here only entails agreeing to supply the requested information, not agreeing to supply resources. If the original request did not contain any ResourceSummary elements, one or more ResponseSummary elements MAY be included in the response message (and, in this case, each ResponseSummary element MUST contain the "Accept" element).

3.3.6.2 Element Reference Model

Figure 9 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Response to Request Information Message. The ERM shows the element-level details for the main entities in the RM.
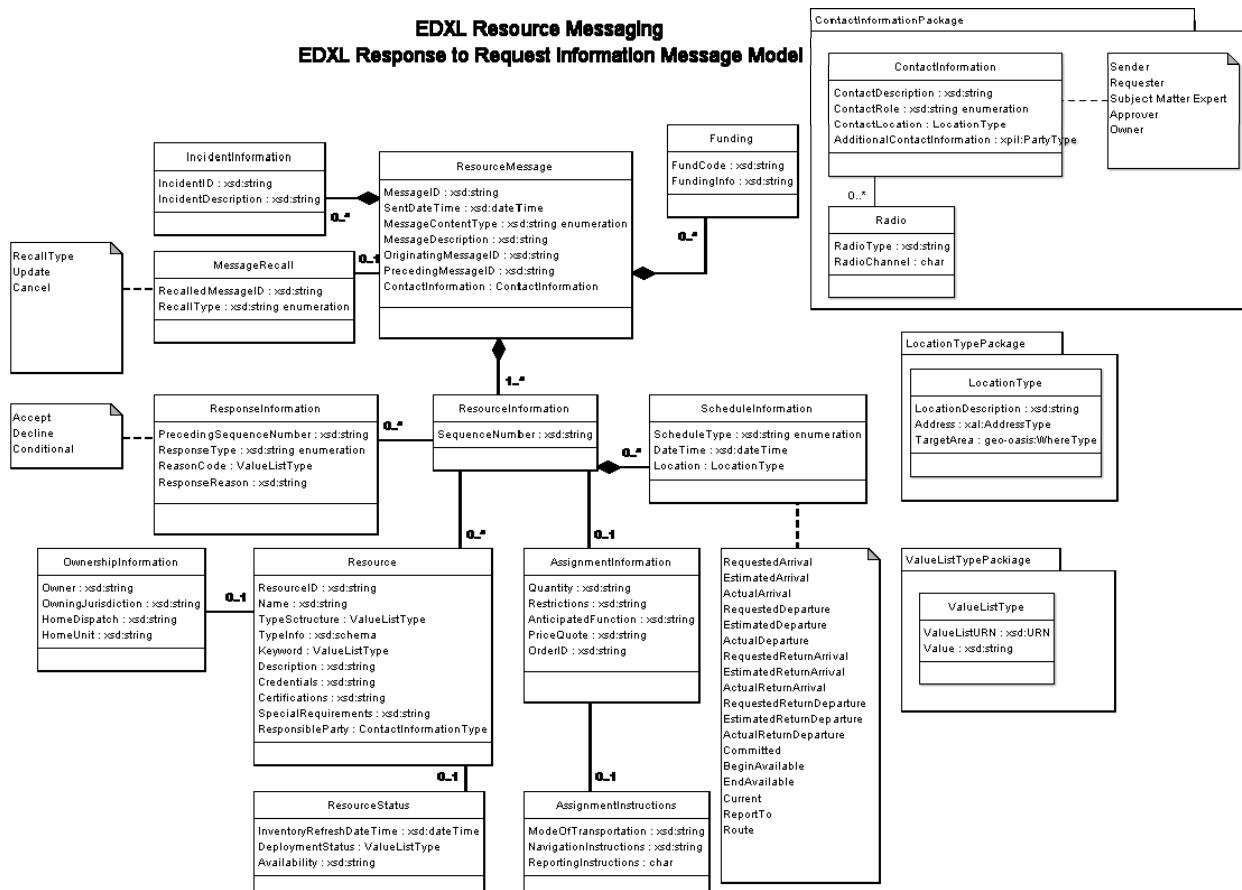
Figure 9: EDXL-RM ERM for Response to Request Information Message

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

Table 10: Response to Request Information Message Elements

Parent Element	Sub-Elements

ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, MessageDescription, **OriginatingMessageID**, **PrecedingMessageID**, IncidentInformation*, MessageRecall, Funding* **ContactInformation***, ResourceInformation*
IncidentInformation	*IncidentID*, *IncidentDescription*
MessageRecall	**RecalledMessageID**, **RecallType**
Funding	*FundCode*, *FundingInfo*
ResourceInformation	**SequenceNumber**, ResponseInformation[1], Resource, AssignmentInformation, ScheduleInformation*
ResponseInformation	***PrecedingSequenceNumber, ResponseType**, ReasonCode, ResponseReason*
Resource	*ResourceID*, *Name*, *TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus
OwnerInformation	*Owner, OwningJurisdiction,* HomeDispatch, HomeUnit
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssigmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	**ScheduleType**, DateTime, Location

1193

1194 The following rules apply to the above elements/attributes:

1195 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime
1196 ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
1197 ResourceMessage:PrecedingMessageID, and ResourceMessage:ContactInformation elements
1198 MUST be present.

1199 • The value of ResourceMessage:MessageContentType MUST be "ResponseToRequestInformation".

1200 • If a ResourceMessage:IncidentInformation element is present, then at least one of
1201 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
1202 present.

1203 • If the ResourceMessage:MessageRecall element is present, then the
1204 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

---

[1] The ResourceInformation:ResponseInformation element refers to the resource information. 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 manditory.

1205 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
1206 Funding:FundingInfo element MUST be present.

1207 • If a ResourceMessage:ResourceInformation element is present, then the
1208 ResourceInformation:SequenceNubmer element MUST be present.

1209 • If the ResourceInformation:ResponseInformation element is present, then the
1210 ResponseInformation:PrecedingSequenceNumber and ResponseInformation: ResponseType
1211 elements MUST be present.

1212 • If If the ResourceInformation:ResponseInformation element is present and the
1213 ResponseInformation:ResponseType has a value of "Conditional", then at least one of
1214 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST
1215 be present.

1216 • If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceID,
1217 Resource:Name, and/or ResourceType:TypeStructure element MUST be present.

1218 • If a Resource:OwnerInformation element is present, then at least one of OwnershipInformation:Owner
1219 and/or OwnershipInformation:OwningJurisdiction element MUST be present.

1220 • If the ResourceInformation:ScheduleInformation element is present, then the
1221 ScheduleInformation:ScheduleType MUST be present.

1222

1223 The schema for a Response to Request Information message can be found in Appendix A.8.

1224 3.3.6.3 Message Flow

1225 The Response to Request Information message is sent by a Resource Supplier in response to an original
1226 Request Information message sent by the Resource Consumer.

1227 The potential responses to this message include:

1228 • Acknowledgement

1229 • The EDXL-DE is used for a message acknowledgement.

1230 A Response to Request Resource message MAY be followed by a Requisition message from the
1231 Resource Consumer.

1232 3.3.6.4 Message Example

1233 Below are two example Response to Request Information messages. These are example responses to
1234 the Request Information messages shown in Section 3.3.5.4.

1235

1236 [Note: The XML examples shown in this section are informative only.]

```
1237  <?xml version="1.0" encoding="UTF-8"?>
1238  <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1239
1240  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestInformatio
1241  n EDXL-RMResponseToRequestInformation.xsd"
1242      xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestInformation"
1243      xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1244  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1245      xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1246      xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
1247  xmlns:gml="http://www.opengis.net/gml">
1248      <MessageID>urn:au-qld-eoc:12346</MessageID>
1249      <SentDateTime>2006-03-21T12:37:00+10:00</SentDateTime>
1250      <MessageContentType>Response to Request Information</MessageContentType>
1251      <MessageDescription>Team consists of 5 overhead (2 person) crews with material
1252  handlers; 1
1253          overhead (2 person) crew; 2 designers; 1 team leader; 1 safety specialist and
1254  fleet services
```

```
1255            support. Each team is additionally equipped with digger derrick/pole trailer and
1256    auxiliary
1257            bucket (material handler or 36' bucket). </MessageDescription>
1258        <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1259        <PrecedingMessageID>urn:au-qld-eoc:12338</PrecedingMessageID>
1260        <IncidentInformation>
1261            <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1262        </IncidentInformation>
1263        <ContactInformation>
1264            <rm:ContactRole>Sender</rm:ContactRole>
1265            <rm:AdditionalContactInformation>
1266                <xnl:PartyName>
1267                    <xnl:PersonName>
1268                        <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1269                        <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1270                    </xnl:PersonName>
1271                    <xnl:OrganisationName>
1272                        <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1273                    </xnl:OrganisationName>
1274                </xnl:PartyName>
1275                <xpil:ContactNumbers>
1276                    <xpil:ContactNumber xpil:MediaType="Telephone" xpil:ContactHours="9:00AM
1277    - 5:00PM">
1278                        <xpil:ContactNumberElement
1279    xpil:ElementType="CountryCode">61</xpil:ContactNumberElement>
1280                        <xpil:ContactNumberElement
1281    xpil:ElementType="AreaCode">7</xpil:ContactNumberElement>
1282                        <xpil:ContactNumberElement xpil:ElementType="LocalNumber">3000
1283                        1234</xpil:ContactNumberElement>
1284                    </xpil:ContactNumber>
1285                </xpil:ContactNumbers>
1286                <xpil:EmailAddresses>
1287                    <xpil:EmailAddress>alexj@emergencyservices.gov.au</xpil:EmailAddress>
1288                </xpil:EmailAddresses>
1289            </rm:AdditionalContactInformation>
1290        </ContactInformation>
1291    </EDXLResourceMessage>
```

```
1292

1293    <?xml version="1.0" encoding="UTF-8"?>
1294    <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1295
1296    xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestInformatio
1297    n EDXL-RMResponseToRequestInformation.xsd"
1298        xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestInformation"
1299        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1300    xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1301        xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1302        xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
1303    xmlns:gml="http://www.opengis.net/gml">
1304        <MessageID>urn:au-qld-eoc:77397</MessageID>
1305        <SentDateTime>2006-03-22T08:22:00+10:00</SentDateTime>
1306        <MessageContentType>Response to Request Information</MessageContentType>
1307        <MessageDescription>QBuild can send a damage assessment team from Cairns this
1308    afternoon. </MessageDescription>
1309        <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
1310        <PrecedingMessageID>urn:au-qld-eoc:77388</PrecedingMessageID>
1311        <IncidentInformation>
1312            <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1313        </IncidentInformation>
1314        <ContactInformation>
1315            <rm:ContactRole>Sender</rm:ContactRole>
1316            <rm:AdditionalContactInformation>
1317                <xnl:PartyName>
1318                    <xnl:PersonName>
1319                        <xnl:NameElement
1320    xnl:ElementType="FirstName">Barnaby</xnl:NameElement>
1321                        <xnl:NameElement xnl:ElementType="LastName">James</xnl:NameElement>
1322                    </xnl:PersonName>
1323                    <xnl:OrganisationName>
```

```
1324                        <xnl:NameElement>EMA</xnl:NameElement>
1325                    </xnl:OrganisationName>
1326                </xnl:PartyName>
1327                <xpil:ContactNumbers>
1328                    <xpil:ContactNumber xpil:MediaType="Telephone">
1329                        <xpil:ContactNumberElement
1330    xpil:ElementType="CountryCode">61</xpil:ContactNumberElement>
1331                        <xpil:ContactNumberElement
1332    xpil:ElementType="AreaCode">2</xpil:ContactNumberElement>
1333                        <xpil:ContactNumberElement xpil:ElementType="LocalNumber">9864
1334                        4329</xpil:ContactNumberElement>
1335                    </xpil:ContactNumber>
1336                </xpil:ContactNumbers>
1337            </rm:AdditionalContactInformation>
1338        </ContactInformation>
1339        <ContactInformation>
1340            <rm:ContactRole>Requester</rm:ContactRole>
1341            <rm:AdditionalContactInformation>
1342                <xnl:PartyName>
1343                    <xnl:PersonName>
1344                        <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1345                        <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1346                    </xnl:PersonName>
1347                    <xnl:OrganisationName>
1348                        <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1349                    </xnl:OrganisationName>
1350                </xnl:PartyName>
1351            </rm:AdditionalContactInformation>
1352        </ContactInformation>
1353        <ResourceInformation>
1354            <SequenceNumber>001</SequenceNumber>
1355            <Resource>
1356                <TypeStructure>
1357                    <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
1358                    <rm:Value>Engineering Services: Damage Assessment Team</rm:Value>
1359                </TypeStructure>
1360            </Resource>
1361            <AssignmentInformation>
1362                <Quantity>1</Quantity>
1363                <AnticipatedFunction>Preliminary assessment of cracks in Centenary Bridge,
1364                Innisfail.</AnticipatedFunction>
1365            </AssignmentInformation>
1366            <ScheduleInformation>
1367                <ScheduleType>EstimatedDeparture</ScheduleType>
1368                <DateTime>2006-03-22T15:00:00</DateTime>
1369                <Location>
1370                    <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
1371                </Location>
1372            </ScheduleInformation>
1373            <ScheduleInformation>
1374                <ScheduleType>EstimatedArrival</ScheduleType>
1375                <DateTime>2006-03-25T16:00:00+10:00</DateTime>
1376                <Location>
1377                    <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
1378                </Location>
1379            </ScheduleInformation>
1380        </ResourceInformation>
1381    </EDXLResourceMessage>
```

1382

3.3.7 Offer Unsolicited Resource Message

3.3.7.1 Overview

1385 The "Offer Unsolicited Resource" message is used to offer available resources (that have not been
1386 requested) to assist with an emergency response.

3.3.7.2 Element Reference Model

1388 Figure 10 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Offer Unsolicited
1389 Resource Message. The ERM shows the element-level details for the main entities in the RM.
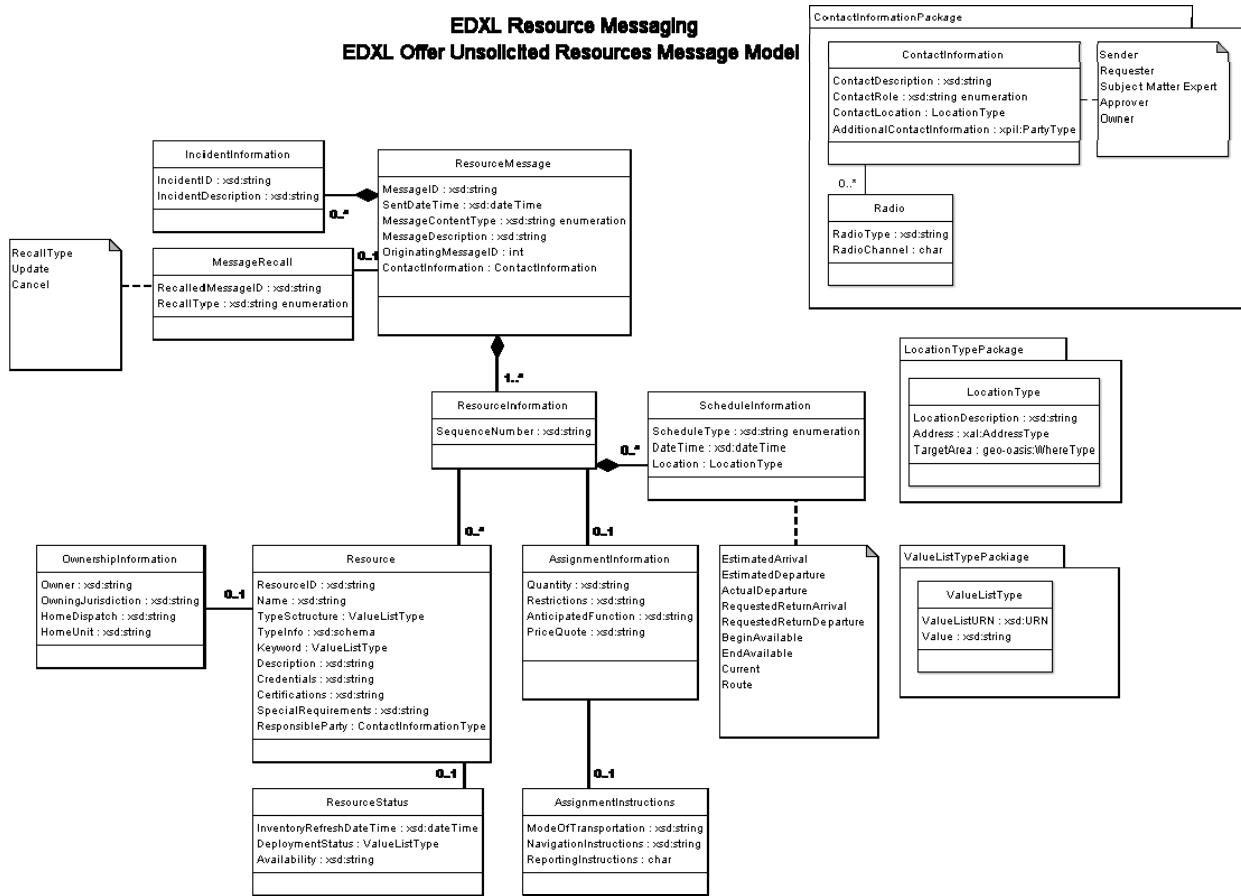
1390

1391 *Figure 10: EDXL-RM ERM for Offer Unsolicited Resource Message*

1392

1393 The following table outlines the element and attribute cardinalities for this message type.

1394

1395 *Table 11: Offer Unsolicited Resource Message Elements*

Parent Element	Sub-Elements
ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, MessageDescription, **OriginatingMessageID**, IncidentInformation*, MessageRecall, **ContactInformation***, **ResourceInformation***
IncidentInformation	*IncidentID*, *IncidentDescription*
MessageRecall	**RecalledMessageID**, **RecallType**
ResourceInformation	**SequenceNumber, Resource**, AssignmentInformation, ScheduleInformation*
Resource	*ResourceID*, *Name*, *TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus

OwnerInformation	*Owner, OwningJurisdiction,* HomeDispatch, HomeUnit
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssigmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	**ScheduleType**, DateTime, Location

1396

1397 The following rules apply to the above elements/attributes:

1398 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime
1399 ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
1400 ResourceMessage:ContactInformation, and ResourceMessage:ResourceInformation elements MUST
1401 be present.

1402 • The value of ResourceMessage:MessageContentType MUST be "OfferUnsolicitedResource".

1403 • If a ResourceMessage:IncidentInformation element is present, then at least one of
1404 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
1405 present.

1406 • If the ResourceMessage:MessageRecall element is present, then the
1407 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

1408 • A SequenceNumber and at least one ResourceInformation:Resource elements MUST be present.

1409 • At least one of Resource:ResourceID, Resource:Name, and/or ResourceType:TypeStructure element
1410 MUST be present.

1411 • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
1412 OwnershipInformation:OwningJurisdiction element MUST be present.

1413 • If the ResourceInformation:ScheduleInformation element is present, then the
1414 ScheduleInformation:ScheduleType MUST be present and contain one of the following values:

1415 • New Schedule Information: "EstimatedArrival", "EstimatedDeparture",
1416 "RequestedReturnDeparture", "RequestedReturnArrival", "BeginAvailable", "EndAvailable", or
1417 "Route".

1418

1419 The schema for a Offer Unsolicited Resource message can be found in Appendix A.9.

3.3.7.3 Message Flow

1421 The Offer Unsolicited Resource message is an initial message created and sent by the Resource
1422 Supplier to any number of Resource Consumers.

1423 The potential responses to this message include:

1424 • Request Information

1425 • Requisition Resource

1426 • Acknowledgement

1427 • The EDXL-DE is used for a message acknowledgement.

3.3.7.4 Message Example

1429 Below is an example Offer Unsolicited Resource message. This message offers a donation of 100 large
1430 and 100 small tarpaulins.

1431

1432 [Note: The XML example shown in this section is informative only.]

```
1433    <?xml version="1.0" encoding="UTF-8"?>
1434    <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1435
1436    xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:OfferUnsolicitedResource
1437    EDXL-RMOfferUnsolicitedResource.xsd"
1438        xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:OfferUnsolicitedResource"
1439        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1440    xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1441        xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3">
1442        <MessageID>urn:au-qld-eoc:84313</MessageID>
1443        <SentDateTime>2006-03-22T10:34:00+10:00</SentDateTime>
1444        <MessageContentType>Offer Unsolicited Resource</MessageContentType>
1445        <MessageDescription>We would like to donate 100 small and 100 large tarps for use by
1446    residents
1447            whose homes have been damaged by the cyclone. </MessageDescription>
1448        <OriginatingMessageID>urn:au-qld-eoc:84313</OriginatingMessageID>
1449        <IncidentInformation>
1450            <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1451        </IncidentInformation>
1452        <ContactInformation>
1453            <rm:ContactRole>Owner</rm:ContactRole>
1454            <rm:AdditionalContactInformation>
1455                <xnl:PartyName>
1456                    <xnl:PersonName>
1457                        <xnl:NameElement xnl:ElementType="FirstName">Joe</xnl:NameElement>
1458                        <xnl:NameElement
1459    xnl:ElementType="LastName">Williams</xnl:NameElement>
1460                    </xnl:PersonName>
1461                    <xnl:OrganisationName>
1462                        <xnl:NameElement>Hardware Megastore Cairns</xnl:NameElement>
1463                    </xnl:OrganisationName>
1464                </xnl:PartyName>
1465                <xpil:Addresses>
1466                    <xal:Address>
1467                        <xal:Country>
1468                            <xal:Name>Australia</xal:Name>
1469                        </xal:Country>
1470                        <xal:AdministrativeArea>
1471                            <xal:Name>QLD</xal:Name>
1472                        </xal:AdministrativeArea>
1473                        <xal:Locality>
1474                            <xal:Name>Cairns</xal:Name>
1475                        </xal:Locality>
1476                        <xal:Thoroughfare>
1477                            <xal:NameElement>Spence St</xal:NameElement>
1478                        </xal:Thoroughfare>
1479                        <xal:PostCode>
1480                            <xal:Identifier>4870</xal:Identifier>
1481                        </xal:PostCode>
1482                    </xal:Address>
1483                </xpil:Addresses>
1484                <xpil:ContactNumbers>
1485                    <xpil:ContactNumber xpil:MediaType="Telephone" xpil:ContactHours="8:00AM
1486    – 6:00PM">
1487                        <xpil:ContactNumberElement
1488    xpil:ElementType="CountryCode">61</xpil:ContactNumberElement>
1489                        <xpil:ContactNumberElement
1490    xpil:ElementType="AreaCode">7</xpil:ContactNumberElement>
1491                        <xpil:ContactNumberElement xpil:ElementType="LocalNumber">4052
1492                        0378</xpil:ContactNumberElement>
1493                    </xpil:ContactNumber>
1494                </xpil:ContactNumbers>
1495            </rm:AdditionalContactInformation>
1496        </ContactInformation>
1497        <ResourceInformation>
1498            <SequenceNumber>001</SequenceNumber>
1499            <Resource>
```

```
1500                          <TypeStructure>
1501                              <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
1502                              <rm:Value>Large tarpaulin</rm:Value>
1503                          </TypeStructure>
1504                          <Description> 30 x 40 ft, 800 denier blue tarp </Description>
1505                      </Resource>
1506                      <AssignmentInformation>
1507                          <Quantity>100</Quantity>
1508                          <AssignmentInstructions>
1509                              <rm:ModeOfTransportation>We have a truck available to deliver to
1510     Innisfail (or other
1511                              preferred location). </rm:ModeOfTransportation>
1512                          </AssignmentInstructions>
1513                      </AssignmentInformation>
1514                      <ScheduleInformation>
1515                          <ScheduleType>BeginAvailable</ScheduleType>
1516                          <DateTime>2006-03-22T12:00:00+10:00</DateTime>
1517                          <Location>
1518                              <rm:LocationDescription>Hardware Megastore
1519     Cairns</rm:LocationDescription>
1520                              <rm:Address>
1521                                  <xal:Country>
1522                                      <xal:Name>Australia</xal:Name>
1523                                  </xal:Country>
1524                                  <xal:AdministrativeArea>
1525                                      <xal:Name>QLD</xal:Name>
1526                                  </xal:AdministrativeArea>
1527                                  <xal:Locality>
1528                                      <xal:Name>Cairns</xal:Name>
1529                                  </xal:Locality>
1530                                  <xal:Thoroughfare>
1531                                      <xal:NameElement>Spence St</xal:NameElement>
1532                                  </xal:Thoroughfare>
1533                                  <xal:PostCode>
1534                                      <xal:Identifier>4870</xal:Identifier>
1535                                  </xal:PostCode>
1536                              </rm:Address>
1537                          </Location>
1538                      </ScheduleInformation>
1539                  </ResourceInformation>
1540                  <ResourceInformation>
1541                      <SequenceNumber>002</SequenceNumber>
1542                      <Resource>
1543                          <TypeStructure>
1544                              <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
1545                              <rm:Value>Small tarpaulin</rm:Value>
1546                          </TypeStructure>
1547                          <Description> 8 x 10 ft, 800 denier blue tarp </Description>
1548                      </Resource>
1549                      <AssignmentInformation>
1550                          <Quantity>100</Quantity>
1551                          <AssignmentInstructions>
1552                              <rm:ModeOfTransportation>We have a truck available to deliver to
1553     Innisfail (or other
1554                              preferred location). </rm:ModeOfTransportation>
1555                          </AssignmentInstructions>
1556                      </AssignmentInformation>
1557                      <ScheduleInformation>
1558                          <ScheduleType>BeginAvailable</ScheduleType>
1559                          <DateTime>2006-03-22T12:00:00+10:00</DateTime>
1560                          <Location>
1561                              <rm:LocationDescription>Hardware Megastore
1562     Cairns</rm:LocationDescription>
1563                              <rm:Address>
1564                                  <xal:Country>
1565                                      <xal:Name>Australia</xal:Name>
1566                                  </xal:Country>
1567                                  <xal:AdministrativeArea>
1568                                      <xal:Name>QLD</xal:Name>
1569                                  </xal:AdministrativeArea>
1570                                  <xal:Locality>
```

```
1571                    <xal:Name>Cairns</xal:Name>
1572                </xal:Locality>
1573                <xal:Thoroughfare>
1574                    <xal:NameElement>Spence St</xal:NameElement>
1575                </xal:Thoroughfare>
1576                <xal:PostCode>
1577                    <xal:Identifier>4870</xal:Identifier>
1578                </xal:PostCode>
1579            </rm:Address>
1580        </Location>
1581    </ScheduleInformation>
1582  </ResourceInformation>
1583 </EDXLResourceMessage>
```

1584

3.3.8 Release Resource Message

3.3.8.1 Overview

The "Release Resouce" message is used by authorities at the incident to "release" (demobilize) a
resource back to its original point of assignment or to another location / assignment.

3.3.8.2 Element Reference Model

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

1592
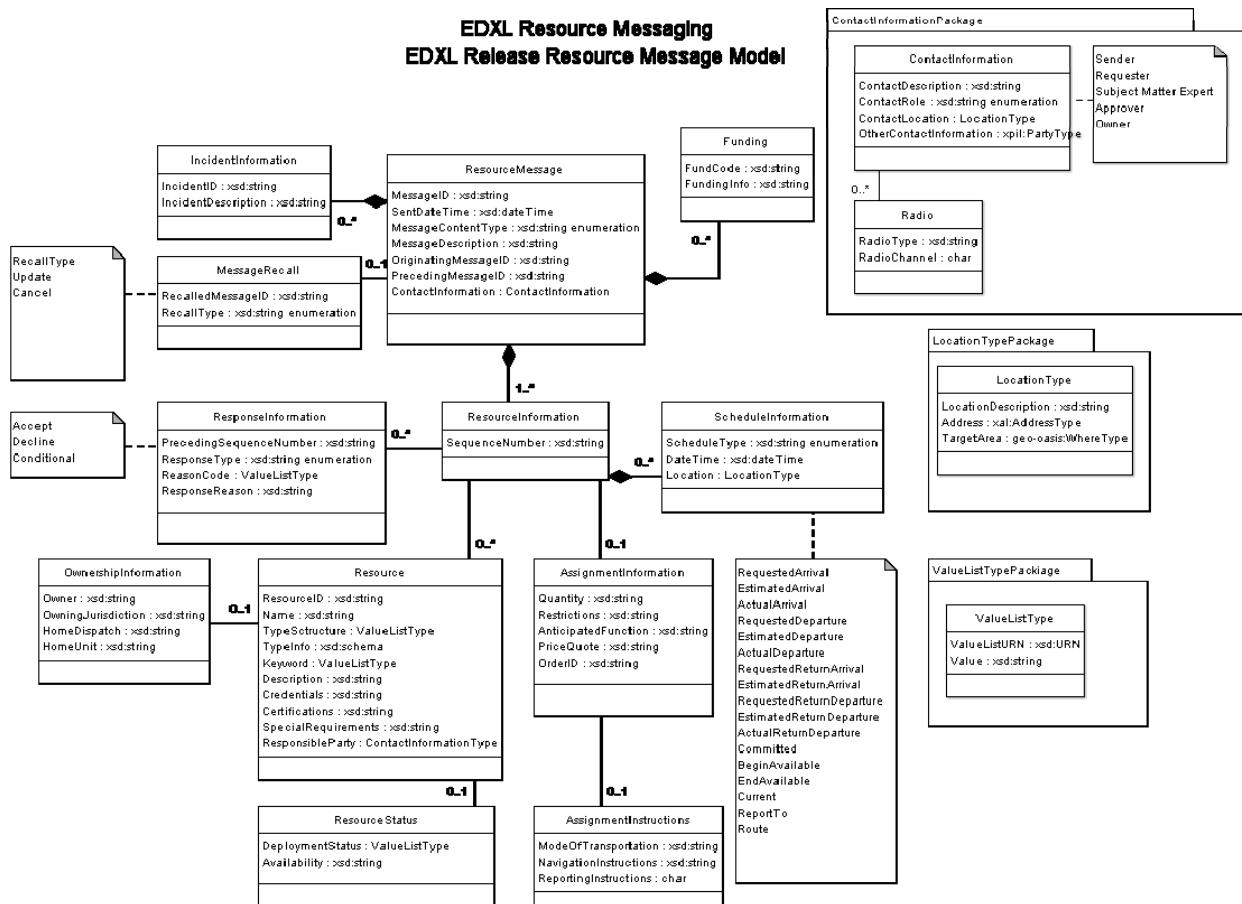
1593

1594 *Figure 11: EDXL-RM ERM for Release Resource Message*

1595

1596 The following table outlines the element and attribute cardinalities for this message type.

1597

1598 *Table 12: Release Resource Message Elements*

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

1599

1600 The following rules apply to the above elements/attributes:

1601 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime,
1602 ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
1603 ResourceMessage:ContactInformation, and ResourceMessage:ResourceInformation elements MUST
1604 be present.

1605 • The value of ResourceMessage:MessageContentType MUST be "ReleaseResource".

1606 • If a ResourceMessage:IncidentInformation element is present, then at least one of
1607 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
1608 present.

1609 • If the ResourceMessage:MessageRecall element is present, then the
1610 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

1611 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
1612 Funding:FundingInfo element MUST be present.

1613 • A ResourceInformation: SequenceNumber and at least one ResourceInformation:Resource elements
1614 MUST be present.

1615 • If the ResourceInformation:ResponseInformation element is present, then the
1616 ResponseInformation:ResponseType and ResponseInformation:ReferenceID elements MUST be
1617 present.

1618 • If a ResourceInformation:ResponseInformation element is present, then the
1619 ResponseInformation:OriginationSequenceNumber and ResponseInformation:ResponseType
1620 elements MUST be present.

1621 • If a ResourceInformation:ResponseInformation element is present and the
1622 ResponseInformation:ResponseType has a value of "Conditional", then at least one of
1623 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST
1624 be present.

1625 • At least one of Resource:ResourceID, Resource:Name, and/or ResourceType:TypeStructure element
1626 MUST be present.

1627 • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
1628 OwnershipInformation:OwningJurisdiction element MUST be present.

1629 • If the ResourceInformation:AssignmentInformation element is present, then the
1630 AssignmentInformation:Quantity element MUST be present.

1631 • If the ResourceInformation:ScheduleInformation element is present, then the
1632 ScheduleInformation:ScheduleType MUST must be present and contain one of the following values:

1633 • New Schedule Information: "ActualReturnDeparture"

1634 • Carried Forward Schedule Information: "RequestedArrival", "EstimatedArrival", "ActualArrival",
1635 "RequestedDeparture" , EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
1636 "RequestedReturnArrival", "BeginAvailable", "EndAvailable", "Committed", "ReportTo"

1637 • New or Carried Forward Schedule Information: "EstimatedReturnDeparture",
1638 "EstimatedReturnArrival", or "Route".

1639

1640 The schema for a Release Resource message can be found in Appendix A.10.

3.3.8.3 Message Flow

1642 The Release Resource message is sent by the Resource Consumer to the Resource Supplier, and
1643 typically follows an earlier sequence of messages (e.g., Requisition Resource and Commit Resource
1644 messages).

1645 The potential responses to this message include:

1646 • Request Information

1647 • Requisition Resource

1648 • Acknowledgement

1649 • The EDXL-DE is used for a message acknowledgement.

3.3.8.4 Message Example

1651 Below is an example Release Resource message. This message releases the Small Animal Sheltering
1652 Team committed in the example in Section 3.3.4.4.

1653

1654 [Note: The XML example shown in this section is informative only.]

```
1655    <?xml version="1.0" encoding="UTF-8"?>
1656    <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1657        xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ReleaseResource EDXL-
1658    RMReleaseResource.xsd"
1659        xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ReleaseResource"
```

```
1660          xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1661  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1662          xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1663          xmlns:geo-oasis="http://www.oasis-open.org/oasis/10">
1664          <MessageID>urn:au-qld-eoc:997985</MessageID>
1665          <SentDateTime>2006-03-29T10:17:00+10:00</SentDateTime>
1666          <MessageContentType>Release Resource</MessageContentType>
1667          <MessageDescription>Small Animal Sheltering Team will be flying back to Cairns this
1668  evening. </MessageDescription>
1669          <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1670          <IncidentInformation>
1671              <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1672          </IncidentInformation>
1673          <ContactInformation>
1674              <rm:ContactRole>Sender</rm:ContactRole>
1675              <rm:AdditionalContactInformation>
1676                  <xnl:PartyName>
1677                      <xnl:PersonName>
1678                          <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1679                          <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1680                      </xnl:PersonName>
1681                      <xnl:OrganisationName>
1682                          <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
1683                      </xnl:OrganisationName>
1684                  </xnl:PartyName>
1685                  <xpil:ContactNumbers>
1686                      <xpil:ContactNumber xpil:MediaType="Telephone" xpil:ContactHours="9:00AM
1687  - 5:00PM">
1688                          <xpil:ContactNumberElement
1689  xpil:ElementType="CountryCode">61</xpil:ContactNumberElement>
1690                          <xpil:ContactNumberElement
1691  xpil:ElementType="AreaCode">7</xpil:ContactNumberElement>
1692                          <xpil:ContactNumberElement xpil:ElementType="LocalNumber">3000
1693                          1234</xpil:ContactNumberElement>
1694                      </xpil:ContactNumber>
1695                  </xpil:ContactNumbers>
1696                  <xpil:EmailAddresses>
1697                      <xpil:EmailAddress>alexj@emergencyservices.gov.au</xpil:EmailAddress>
1698                  </xpil:EmailAddresses>
1699              </rm:AdditionalContactInformation>
1700          </ContactInformation>
1701          <ResourceInformation>
1702              <SequenceNumber>001</SequenceNumber>
1703              <Resource>
1704                  <TypeStructure>
1705                      <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
1706                      <rm:Value>Small Animal Sheltering Team</rm:Value>
1707                  </TypeStructure>
1708              </Resource>
1709              <AssignmentInformation>
1710                  <Quantity>1</Quantity>
1711              </AssignmentInformation>
1712              <ScheduleInformation>
1713                  <ScheduleType>Current</ScheduleType>
1714                  <Location>
1715                      <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
1716                      <rm:Address>
1717                          <xal:Country>
1718                              <xal:Name>Australia</xal:Name>
1719                          </xal:Country>
1720                          <xal:AdministrativeArea>
1721                              <xal:Name>QLD</xal:Name>
1722                          </xal:AdministrativeArea>
1723                          <xal:Locality>
1724                              <xal:Name>Innisfail</xal:Name>
1725                          </xal:Locality>
1726                          <xal:Thoroughfare>
1727                              <xal:NameElement>Downing St</xal:NameElement>
1728                              <xal:Number>27</xal:Number>
1729                          </xal:Thoroughfare>
1730                          <xal:PostCode>
```

```
1731              <xal:Identifier>4860</xal:Identifier>
1732           </xal:PostCode>
1733        </rm:Address>
1734     </Location>
1735  </ScheduleInformation>
1736  <ScheduleInformation>
1737     <ScheduleType>EstimatedReturnDeparture</ScheduleType>
1738     <DateTime>2006-03-29T19:05:00+10:00</DateTime>
1739     <Location>
1740        <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
1741     </Location>
1742  </ScheduleInformation>
1743  <ScheduleInformation>
1744     <ScheduleType>EstimatedReturnArrival</ScheduleType>
1745     <DateTime>2006-03-29T19:55:00+10:00</DateTime>
1746     <Location>
1747        <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
1748     </Location>
1749  </ScheduleInformation>
1750  </ResourceInformation>
1751 </EDXLResourceMessage>
```

1752

3.3.9 Request Return Message

3.3.9.1 Overview

1755 The "Request Return" message is used to request release (demobilization) of resource(s) back to its
1756 original owning jurisdiction and location or to another location / assignment.

3.3.9.2 Element Reference Model

1758 Figure 12 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Request Return
1759 Message. The ERM shows the element-level details for the main entities in the RM.

1760
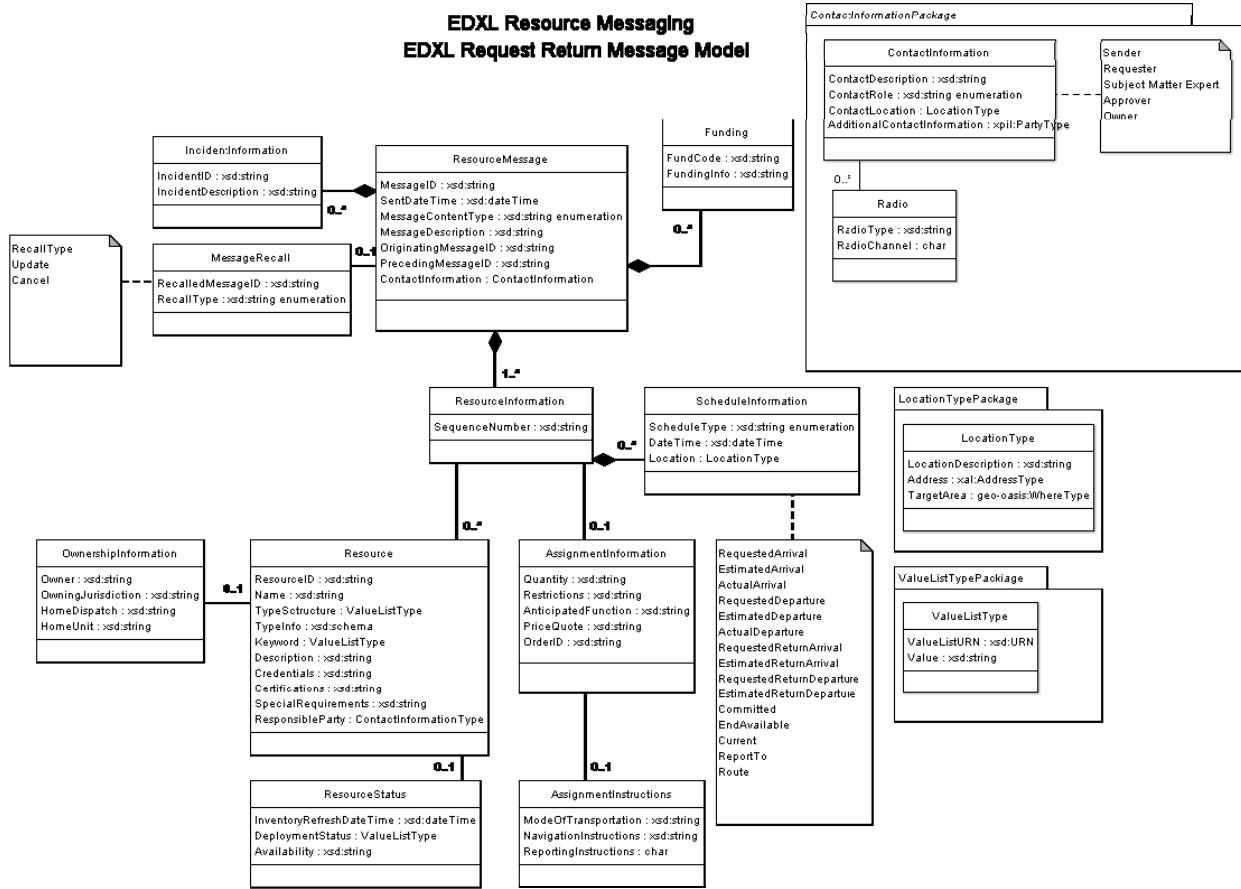
Figure 12: EDXL-RM ERM for Request Return Message

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

Table 13: Request Return Message Elements

Parent Element	Sub-Elements
ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, MessageDescription, **OriginatingMessageID**, PrecedingMessageID,, IncidentInformation*, MessageRecall, Funding* **ContactInformation***, **ResourceInformation***
IncidentInformation	*IncidentID*, *IncidentDescription*
MessageRecall	**RecalledMessageID**, **RecallType**
Funding	*FundCode*, *FundingInfo*
ResourceInformation	**SequenceNumber, Resource**, AssignmentInformation, ScheduleInformation*
Resource	*ResourceID*, *Name*, *TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, ResourceStatus
OwnerInformation	*Owner, OwningJurisdiction,* HomeDispatch, HomeUnit

ResourceStatus	DeploymentStatus, Availability
AssigmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	**ScheduleType^**, DateTime, Location

1767

1768 The following rules apply to the above elements/attributes:

1769 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime,
1770 ResourceMessage:MessageContentType. ResourceMessage:OriginatingMessageID,
1771 ResourceMessage:ContactInformation, and ResourceMessage:ResourceInformation elements MUST
1772 be present.

1773 • The value of ResourceMessage:MessageContentType MUST be "RequestReturn".

1774 • If a ResourceMessage:IncidentInformation element is present, then at least one of
1775 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
1776 present.

1777 • If the ResourceMessage:MessageRecall element is present, then the
1778 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

1779 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
1780 Funding:FundingInfo element MUST be present.

1781 • The ResourceInformation:SequenceNumber and ResourceInformation:Resource elements MUST be
1782 present.

1783 • At least one of Resource:ResourceID, Resource:Name, and/or ResourceType:TypeStructure element
1784 MUST be present for each ResourceInformation:Resource element present.

1785 • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
1786 OwnershipInformation:OwningJurisdiction element MUST be present.

1787 • If the ResourceInformation:ScheduleInformation element is present, then the
1788 ScheduleInformation:ScheduleType MUST be present and contain one of the following values:

1789 • Carried Forward Schedule Information: "RequestedArrival", "EstimatedArrival", "ActualArrival",
1790 "RequestedDeparture", "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
1791 "RequestedReturnArrival", "BeginAvailable", "EndAvailable", "Committed", "ReportTo",

1792 • Either New or Carried Forward Schedule Information: "RequestedReturnDeparture",
1793 "RequestedReturnArrival", "EndAvailable", or "Route".

1794

1795 The schema for a Request Return message can be found in Appendix A.11.

3.3.9.3 Message Flow

1797 The Release Resource message is sent by the Resource Supplier to the Resource Consumer, and
1798 typically follows an earlier sequence of messages (e.g., Requisition Resource and Commit Resource
1799 messages).

1800 The potential responses to this message include:

1801 • Response to Request Return

1802 • This includes Accept, Decline, and any Conditional response

1803 • Release Resource

1804 • Acknowledgement

1805   •   The EDXL-DE is used for a message acknowledgement.

1806 3.3.9.4 Message Example

1807 Below is an example of a Request Return Message, in which one request return is shown:

1808   •   Small Animal Sheltering Team (id=001)

1809

1810 [Note: The XML example shown in this section is informative only.]

```
1811  <?xml version="1.0" encoding="UTF-8"?>
1812  <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1813      xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestReturn EDXL-
1814  RMRequestReturn.xsd"
1815      xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestReturn"
1816      xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1817  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1818      xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1819      xmlns:geo-oasis="http://www.oasis-open.org/oasis/10">
1820      <MessageID>urn:au-qld-eoc:997821</MessageID>
1821      <SentDateTime>2006-03-28T14:48:00+10:00</SentDateTime>
1822      <MessageContentType>Request Return</MessageContentType>
1823      <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1824      <IncidentInformation>
1825          <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1826      </IncidentInformation>
1827      <ContactInformation>
1828          <rm:ContactRole>Sender</rm:ContactRole>
1829          <rm:AdditionalContactInformation>
1830              <xnl:PartyName>
1831                  <xnl:PersonName>
1832                      <xnl:NameElement
1833  xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
1834                      <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
1835                  </xnl:PersonName>
1836                  <xnl:OrganisationName>
1837                      <xnl:NameElement>EMA</xnl:NameElement>
1838                  </xnl:OrganisationName>
1839              </xnl:PartyName>
1840          </rm:AdditionalContactInformation>
1841      </ContactInformation>
1842      <ResourceInformation>
1843          <SequenceNumber>001</SequenceNumber>
1844          <Resource>
1845              <TypeStructure>
1846                  <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
1847                  <rm:Value>Small Animal Sheltering Team</rm:Value>
1848              </TypeStructure>
1849          </Resource>
1850          <AssignmentInformation>
1851              <Quantity>1</Quantity>
1852          </AssignmentInformation>
1853          <ScheduleInformation>
1854              <ScheduleType>RequestedReturnArrival</ScheduleType>
1855              <DateTime>2006-03-29T20:00:00+10:00</DateTime>
1856              <Location>
1857                  <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
1858              </Location>
1859          </ScheduleInformation>
1860      </ResourceInformation>
1861  </EDXLResourceMessage>
```

1862

1863 ## 3.3.10 Response to Request Return Message

1864 ### 3.3.10.1 Overview

1865 The "Response to Request Return" message is used by Resource Consumers to respond to a Request
1866 Return Resource message from Resource Suppliers. The response identifies the resources in the
1867 original request message and how the Resource Consumer has responded.

1868 ### 3.3.10.2 Element Reference Model

1869 Figure 13 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Response to
1870 Request Return Message. The ERM shows the element-level details for the main entities in the RM.
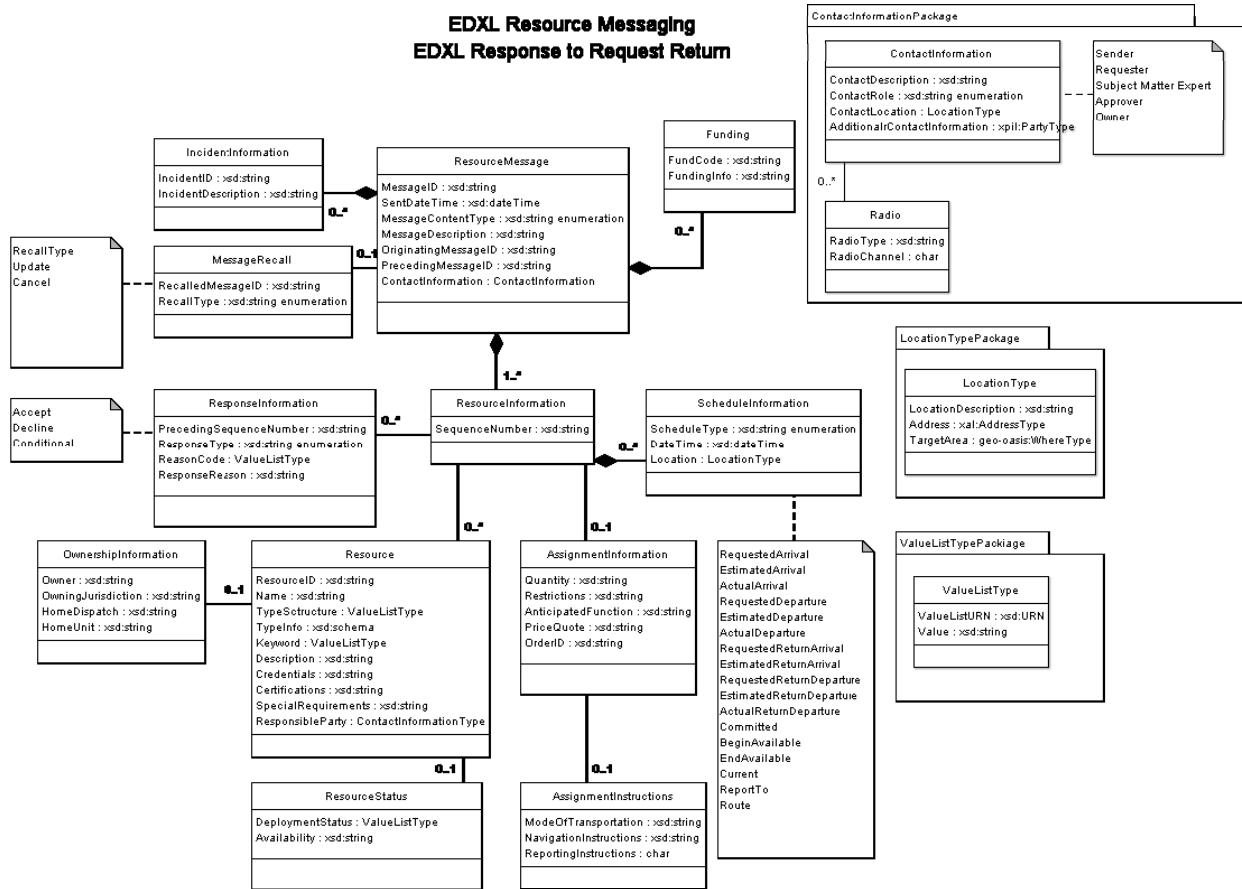
1871

1872 *Figure 13: EDXL-DE ERM for Response to Request Return Message*

1873

1874 The following table outlines the element and attribute cardinalities for this message type.

1875

1876 *Table 14: Response to Request Return Message Elements*

Parent Element	Sub-Elements
ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, MessageDescription, **OriginatingMessageID**, **PrecedingMessageID**, IncidentInformation*, MessageRecall, Funding* **ContactInformation***, **ResourceInformation***
IncidentInformation	*IncidentID*, *IncidentDescription*

MessageRecall	**RecalledMessageID**, **RecallType**
Funding	*FundCode*, *FundingInfo*
ResourceInformation	**SequenceNumber, ResponseInformation,** Resource, AssignmentInformation, ScheduleInformation*
ResponseInformation	***PrecedingSequenceNumber, ResourceType,*** *ReasonCode, ResponseReason*
Resource	*ResourceID, Name, TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, ResponsibleParty, OwnershipInformation, **ResourceStatus**
OwnerInformation	*Owner, OwningJurisdiction,* HomeDispatch, HomeUnit
ResourceStatus	**DeploymentStatus**, **Availability**
AssigmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	**ScheduleType^**, DateTime, Location

1877

1878 The following rules apply to the above elements/attributes:

1879 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime,
1880 ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
1881 ResourceMessage:PrecedingMessageID, ResourceMessage:ContactInformation, and
1882 ResourceMessage:ResourceInformation elements MUST be present.

1883 • The value of ResourceMessage:MessageContentType MUST be "ResponseToRequestReturn".

1884 • If a ResourceMessage:IncidentInformation element is present, then at least one of
1885 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
1886 present.

1887 • If the ResourceMessage:MessageRecall element is present, then the
1888 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

1889 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
1890 Funding:FundingInfo element MUST be present.

1891 • The ResourceInformation:SequenceNumber and ResourceInformation:ResponseInformation
1892 elements MUST be present.

1893 • The ResponseInformation:PrecedingSequenceNumber and ResponseInformation:ResponseType
1894 elements MUST be present.

1895 • If the ResponseInformation:ResponseType element has a value of "Conditional", then at least one of
1896 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST
1897 be present.

1898 • At least one of Resource:ResourceID, Resource:Name, and/or ResourceType:TypeStructure element
1899 MUST be present for each ResourceInformation:Resource element present.

1900 • The Resource:ResourceStatus element MUST be present for each ResourceInformation:Resource
1901 element present.

1902 • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
1903 OwnershipInformation:OwningJurisdiction element MUST be present.

1904 • The ResourceStatus:DeploymentStatus and ResourceStatus:Availability elements MUST be present.

1905 • If the ResourceInformation:ScheduleInformation element is present, then the
1906 ScheduleInformation:ScheduleType MUST be present and contain one of the following values:

1907 • New Schedule Information: "ActualReturnDeparture",

1908 • Carried Forward Schedule Information: "RequestedArrival", EstimatedArrival", "ActualArrival",
1909 "RequestedDeparture", "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
1910 "RequestedReturnArrival", "BeginAvailable", "EndAvailable", "Committed", "ReportTo"

1911 • New or Carried Forward Schedule Information: "EstimatedReturnDeparture",
1912 "EstimatedReturnArrival", "Route"

1913

1914 The schema for a Response to Request Return message can be found in Appendix A.12.

3.3.10.3 Message Flow

1916 The Response to Request Return message is sent by a Resource Consumer in response to an original
1917 Request Return message sent by the Resource Supplier.

1918 The potential responses to this message include:

1919 • Request Return

1920 • Acknowledgement

1921 • The EDXL-DE is used for a message acknowledgement.

1922 The message will typically be followed by a Release Resource message (see 3.3.8) when the Resource
1923 Consumer is ready to return the resource to the Resource Supplier.

3.3.10.4 Message Example

1925 Below is an example of a Response to Request Return message. This is an example response to the
1926 Request Return message shown in Section 3.3.1.4. The sender of the message is the original resource
1927 requester (Resource Consumer). The response is an "Accept" (i.e., the Resource Consumer agrees to
1928 return the resource according to the specified schedule).

1929

1930 [Note: The XML example shown in this section is informative only.]

```
1931   <?xml version="1.0" encoding="UTF-8"?>
1932   <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
1933       xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestReturn
1934   EDXL-RMResponseToRequestReturn.xsd"
1935       xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestReturn"
1936       xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
1937   xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
1938       xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
1939       xmlns:geo-oasis="http://www.oasis-open.org/oasis/10">
1940       <MessageID>urn:au-qld-eoc:997981</MessageID>
1941       <SentDateTime>2006-03-28T16:17:00+10:00</SentDateTime>
1942       <MessageContentType>Response to Request Return</MessageContentType>
1943       <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
1944       <PrecedingMessageID>urn:au-qld-eoc:997821</PrecedingMessageID>
1945       <IncidentInformation>
1946           <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
1947       </IncidentInformation>
1948       <ContactInformation>
1949           <rm:ContactRole>Sender</rm:ContactRole>
1950           <rm:AdditionalContactInformation>
1951               <xnl:PartyName>
1952                   <xnl:PersonName>
1953                       <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
1954                       <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
1955                   </xnl:PersonName>
1956                   <xnl:OrganisationName>
1957                       <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
```

```
1958              </xnl:OrganisationName>
1959            </xnl:PartyName>
1960          </rm:AdditionalContactInformation>
1961      </ContactInformation>
1962      <ResourceInformation>
1963          <SequenceNumber>001</SequenceNumber>
1964          <ResponseInformation>
1965              <rm:PrecedingSequenceNumber>001</rm:PrecedingSequenceNumber>
1966              <rm:ResponseType>Accept</rm:ResponseType>
1967          </ResponseInformation>
1968      </ResourceInformation>
1969    </EDXLResourceMessage>
```

1970

3.3.11 Request Quote Message

3.3.11.1 Overview

1973 The "Request Quote" message is used by the Resource Consumer to request a price quote from the
1974 Resource Supplier.

3.3.11.2 Element Reference Model

1976 Figure 14 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Request Quote
1977 Message. The ERM shows the element-level details for the main entities in the RM.
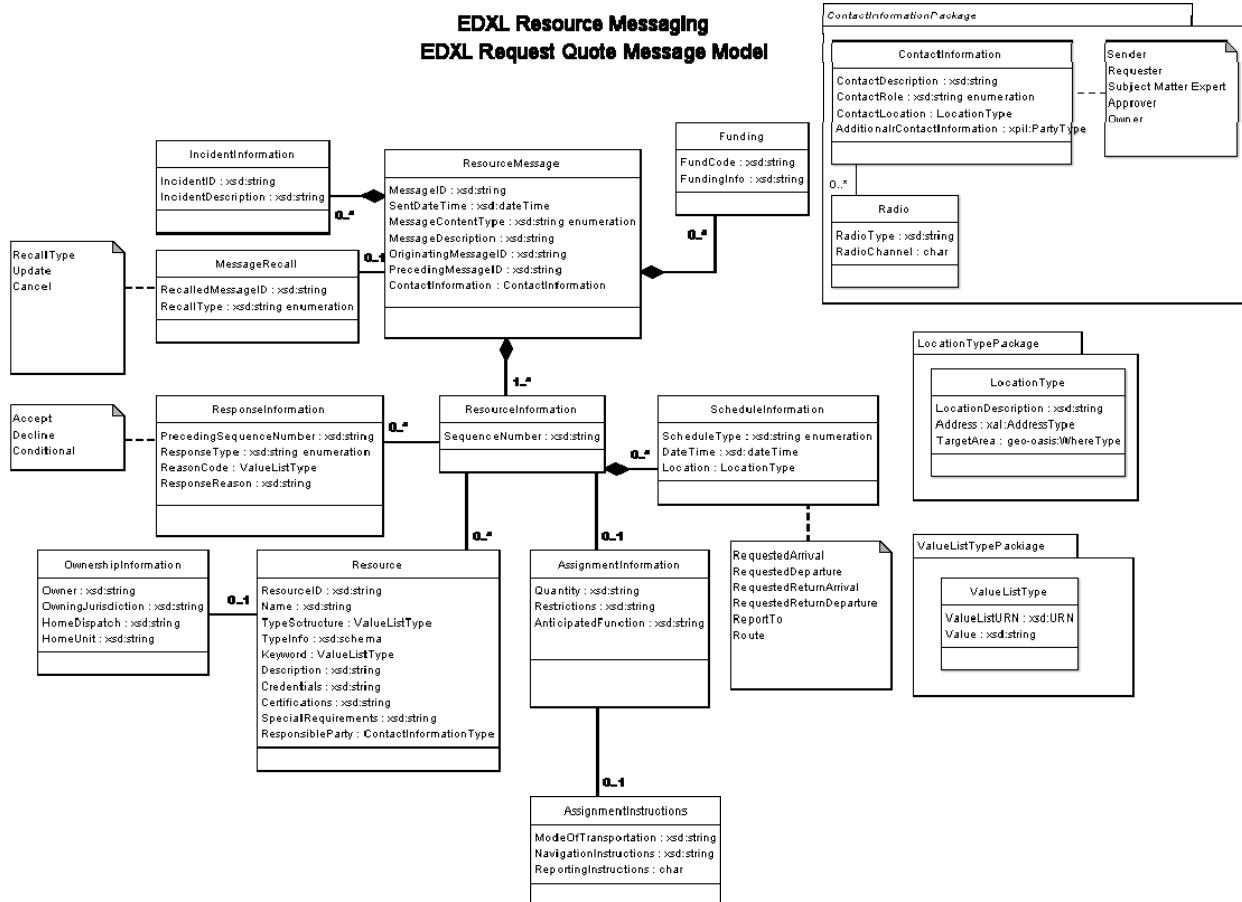
1978

1979 *Figure 14: EDXL-RM ERM for Request Quote Message*

1980

1981   The following table outlines the element and attribute cardinalities for this message type.

1982

1983   *Table 15: Request Quote Message Elements*

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

1984

1985   The following rules apply to the above elements/attributes:

1986   • The ResourceMessage:MessageID, ResourceMessage:SentDateTime,
1987   ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
1988   ResourceMessage:ContactInformation, and ResourceMessage:ResourceInformation elements MUST
1989   be present.

1990   • The value of ResourceMessage:MessageContentType MUST be "RequestQuote".

1991   • If a ResourceMessage:IncidentInformation element is present, then at least one of
1992   IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
1993   present.

1994   • If the ResourceMessage:MessageRecall element is present, then the
1995   MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

1996   • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
1997   Funding:FundingInfo element MUST be present.

1998   • The ResourceInformation: SequenceNumber and ResourceInformation:Resource elements MUST be
1999   present.

2000   • If the ResourceInformation:ResponseInformation element is present, then the
2001   ResponseInformation:ResponseType and ResponseInformation:ReferenceID elements MUST be
2002   present.

2003	• If ResponseInformation:ResponseType has a value of "Conditional", then at least one of
2004	ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST
2005	be present.
2006	• At least one of Resource:ResourceID, Resource:Name, and/or ResourceType:TypeStructure element
2007	MUST be present for each ResourceInformation:Resource element present.
2008	• If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
2009	OwnershipInformation:OwningJurisdiction element MUST be present.
2010	• If the ResourceInformation:ScheduleInformation element is present, then the
2011	ScheduleInformation:ScheduleType MUST be present and contain one of the following values:
2012	• New Schedule Information: "RequestedArrival", "RequestedDeparture",
2013	"EstimatedReturnDeparture", "EstimatedReturnArrival", "ReportTo", or "Route".
2014	
2015	The schema for a Request Quote message can be found in Appendix A.13.

2016   3.3.11.3 Message Flow

2017 The Request Quote message is usually an initial message created and sent by the Resource Consumer
2018 to any number of Resource Suppliers.

2019 The potential responses to this message include:

2020 • Response to Request Quote (See 3.3.12)

2021   • This includes Accept, Decline, and any Conditional response

2022 • Acknowledgement

2023   • The EDXL-DE is used for a message acknowledgement.

2024   3.3.11.4 Message Example

2025 Below is an example Request Quote message. This message requests quotes for a "Debris
2026 Management Team" (id=001) and two "All Terrain Cranes" (id=002).

2027

2028 [Note: The XML example shown in this section is informative only.]

```
2029  <?xml version="1.0" encoding="UTF-8"?>
2030  <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2031      xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestQuote EDXL-
2032  RMRequestQuote.xsd"
2033      xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestQuote"
2034      xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2035  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2036      xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2037      xmlns:geo-oasis="http://www.oasis-open.org/oasis/10">
2038      <MessageID>urn:au-qld-eoc:77388</MessageID>
2039      <SentDateTime>2006-03-30T10:45:00+10:00</SentDateTime>
2040      <MessageContentType>Request Quote</MessageContentType>
2041      <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
2042      <IncidentInformation>
2043          <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2044      </IncidentInformation>
2045      <ContactInformation>
2046          <rm:ContactRole>Sender</rm:ContactRole>
2047          <rm:AdditionalContactInformation>
2048              <xnl:PartyName>
2049                  <xnl:PersonName>
2050                      <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2051                      <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2052                  </xnl:PersonName>
2053                  <xnl:OrganisationName>
2054                      <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
```

```
                        </xnl:OrganisationName>
                    </xnl:PartyName>
                    <xpil:ContactNumbers>
                        <xpil:ContactNumber xpil:MediaType="Telephone" xpil:ContactHours="9:00AM
 - 5:00PM">
                            <xpil:ContactNumberElement
xpil:ElementType="CountryCode">61</xpil:ContactNumberElement>
                            <xpil:ContactNumberElement
xpil:ElementType="AreaCode">7</xpil:ContactNumberElement>
                            <xpil:ContactNumberElement xpil:ElementType="LocalNumber">3000
                            1234</xpil:ContactNumberElement>
                        </xpil:ContactNumber>
                    </xpil:ContactNumbers>
                    <xpil:EmailAddresses>
                        <xpil:EmailAddress>alexj@emergencyservices.gov.au</xpil:EmailAddress>
                    </xpil:EmailAddresses>
                </rm:AdditionalContactInformation>
        </ContactInformation>
        <ResourceInformation>
            <SequenceNumber>001</SequenceNumber>
            <Resource>
                <TypeStructure>
                    <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
                    <rm:Value>Debris Management Team</rm:Value>
                </TypeStructure>
                <Description>5 person team to clear roads of debris incl. fallen trees.
</Description>
                <SpecialRequirements> Team to supply own equipment, such as trucks and
chainsaws
                </SpecialRequirements>
            </Resource>
            <AssignmentInformation>
                <Quantity>1</Quantity>
                <AssignmentInstructions>
                    <rm:ModeOfTransportation>Team's own trucks</rm:ModeOfTransportation>
                </AssignmentInstructions>
            </AssignmentInformation>
            <ScheduleInformation>
                <ScheduleType>ReportTo</ScheduleType>
                <DateTime>2006-04-01T09:00:00+10:00</DateTime>
                <Location>
                    <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
                    <rm:Address>
                        <xal:Country>
                            <xal:Name>Australia</xal:Name>
                        </xal:Country>
                        <xal:AdministrativeArea>
                            <xal:Name>QLD</xal:Name>
                        </xal:AdministrativeArea>
                        <xal:Locality>
                            <xal:Name>Innisfail</xal:Name>
                        </xal:Locality>
                        <xal:Thoroughfare>
                            <xal:NameElement>Rankin St</xal:NameElement>
                            <xal:Number>70</xal:Number>
                        </xal:Thoroughfare>
                    </rm:Address>
                </Location>
            </ScheduleInformation>
            <ScheduleInformation>
                <ScheduleType>EstimatedReturnDeparture</ScheduleType>
                <DateTime>2006-04-21T09:00:00+10:00</DateTime>
            </ScheduleInformation>
        </ResourceInformation>
        <ResourceInformation>
            <SequenceNumber>002</SequenceNumber>
            <Resource>
                <TypeStructure>
                    <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
                    <rm:Value>All Terrain Crane</rm:Value>
                </TypeStructure>
```

```
2126              <Description> Crane with minimum boom reach of 150 feet. </Description>
2127         </Resource>
2128         <AssignmentInformation>
2129             <Quantity>2</Quantity>
2130         </AssignmentInformation>
2131         <ScheduleInformation>
2132             <ScheduleType>ReportTo</ScheduleType>
2133             <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2134             <Location>
2135                 <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2136                 <rm:Address>
2137                     <xal:Country>
2138                         <xal:Name>Australia</xal:Name>
2139                     </xal:Country>
2140                     <xal:AdministrativeArea>
2141                         <xal:Name>QLD</xal:Name>
2142                     </xal:AdministrativeArea>
2143                     <xal:Locality>
2144                         <xal:Name>Innisfail</xal:Name>
2145                     </xal:Locality>
2146                     <xal:Thoroughfare>
2147                         <xal:NameElement>Rankin St</xal:NameElement>
2148                         <xal:Number>70</xal:Number>
2149                     </xal:Thoroughfare>
2150                 </rm:Address>
2151             </Location>
2152         </ScheduleInformation>
2153         <ScheduleInformation>
2154             <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2155             <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2156         </ScheduleInformation>
2157     </ResourceInformation>
2158 </EDXLResourceMessage>
```

2159

2160 3.3.12 Response to Request Quote Message

2161 3.3.12.1 Overview

2162 The "Response to Request Quote" message is used by the Resource Supplier to respond with pricing
2163 information to a "Request Quote" message. The Resource Supplier may provide quotes for several
2164 alternative resources that match a single resource request.

2165 3.3.12.2 Element Reference Model

2166 Figure 15 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Response to
2167 Request Quote Message. The ERM shows the element-level details for the main entities in the RM.

2168

2169   *Figure 15: EDXL-RM ERM for Response to Request Quote Message*
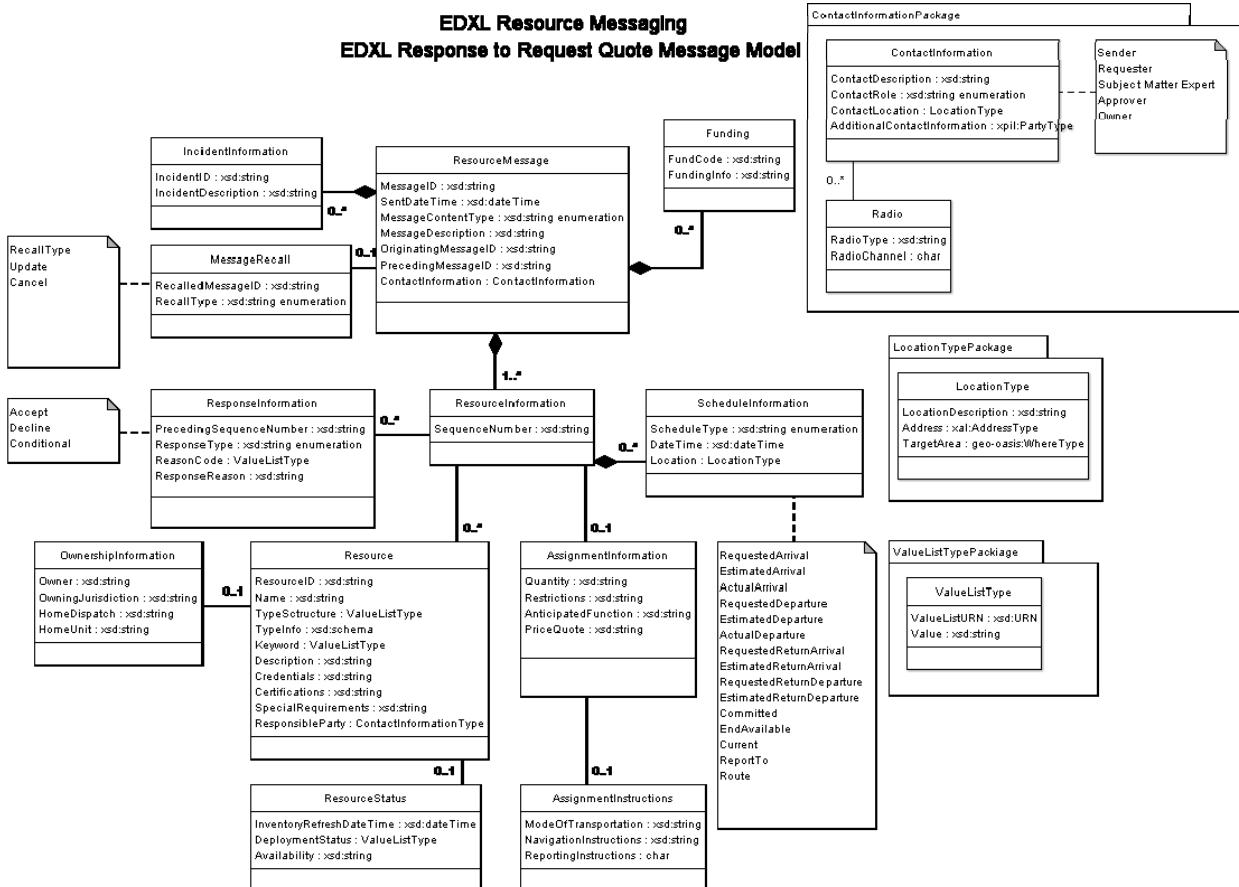
2170

2171   The following table outlines the element and attribute cardinalities for this message type.

2172

2173   *Table 16: Response to Request Quote Message Elements*

Parent Element	Sub-Elements
ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, MessageDescription, **OriginatingMessageID**, **PrecedingMessageID**, IncidentInformation*, MessageRecall, Funding* **ContactInformation***, **ResourceInformation***
IncidentInformation	*IncidentID*, *IncidentDescription*
MessageRecall	**RecalledMessageID**, **RecallType**
Funding	*FundCode*, *FundingInfo*
ResourceInformation	**SequenceNumber, ResponseInformation,** Resource^, AssignmentInformation, ScheduleInformation*
ResponseInformation	***PrecedingSequenceNumber, ResourceType,*** *ReasonCode, ResponseReason*
Resource	*ResourceID*, *Name*, *TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, Responsible Party,

	OwnershipInformation, ResourceStatus
OwnerInformation	*Owner, OwningJurisdiction,* HomeDispatch, HomeUnit
ResourceStatus	InventoryRefreshDateTime, DeploymentStatus, Availability
AssigmentInformation	Quantity, Restrictions, AnticipatedFunction, **PriceQuote**, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	**ScheduleType^**, DateTime, Location

2174

2175 The following rules apply to the above elements/attributes:

2176 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime,
2177 ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
2178 ResourceMessage:PrecedingMessageID, ResourceMessage:ContactInformation, and
2179 ResourceMessage:ResourceInformation elements MUST be present.

2180 • The value of ResourceMessage:MessageContentType MUST be "ResponseToRequestQuote".

2181 • If a ResourceMessage:IncidentInformation element is present, then at least one of
2182 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
2183 present.

2184 • If the ResourceMessage:MessageRecall element is present, then the
2185 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

2186 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
2187 Funding:FundingInfo element MUST be present.

2188 • The ResourceInformation:SequenceNumber and ResourceInformation:ResponseInformation
2189 elements MUST be present.

2190 • If the ResponseInformation:ResponseType has a value of "Accept" or "Conditional", then at least one
2191 ResourceInformation:Resource element MUST be present.

2192 • The ResponseInformation: OriginatingSequence and ResponseInformation:ResponseType elements
2193 MUST be present.

2194 • If ResponseInformation:ResponseType has a value of "Conditional", at least one of
2195 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST
2196 be present.

2197 • If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceID,
2198 Resource:Name, and/or ResourceType:TypeStructure element MUST be present for each
2199 ResourceInformatino:Resource element present.

2200 • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
2201 OwnershipInformation:OwningJurisdiction element MUST be present.

2202 • If a ResourceInformation:AssignmentInformation element is present, then the
2203 AssignmentInformation:PriceQuote element MUST be present.

2204 • If the ResourceInformation:ScheduleInformation element is present, then the
2205 ScheduleInformation:ScheduleType MUST must be present and contain one of the following values:

2206 • New Schedule Information: "EstimatedArrival", "EstimatedDeparture",
2207 "RequestedReturnDeparture", "RequestedReturnArrival", "BeginAvailable", EndAvailable",

2208 • Carried Forward Schedule Information: "RequestedArrival", "RequestedDeparture",
2209 "EstimatedReturnDeparture", "EstimatedReturnArrival", "ReportTo",

2210 • New or Carried Forward Information: "Route".

2211

2212 The schema for a Response to Request Quote message can be found in Appendix A.14.

3.3.12.3 Message Flow

2214 The Response to Request Quote message is sent by the Resource Supplier to the Resource Consumer
2215 in response to a Request Quote message.

2216 The potential responses to this message include:

2217 • Request for Information (RFI)

2218 • RequisitionResource

2219 • Acknowledgement

2220 • The EDXL-DE is used for a message acknowledgement.

2221 The Response to Request Quote message can potentially be followed by a Request Resource or
2222 Requisition Resource message from the Resource Consumer.

3.3.12.4 Message Example

2224 Below is an example Response to Request Quote message. The message is a possible response to the
2225 Request Quote message shown in Section 3.3.11.4. The first quote request ("Debris Management
2226 Team", idref=001) is accepted, while the second ("All Terrain Crane", id=002) is declined.

2227

2228 [Note: The XML example shown in this section is informative only.]

```
<?xml version="1.0" encoding="UTF-8"?>
<EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestQuote
EDXL-RMResponseToRequestQuote.xsd"
    xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestQuote"
    xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
    xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
    xmlns:geo-oasis="http://www.oasis-open.org/oasis/10">
    <MessageID>urn:au-qld-eoc:77396</MessageID>
    <SentDateTime>2006-03-28T14:48:00+10:00</SentDateTime>
    <MessageContentType>Response to Request Quote</MessageContentType>
    <MessageDescription>This message provides a quote for the services of a debris
management team
        for the requested period of 3 weeks. We do not have any all-terrain cranes, and
therefore
        are unable to quote on this part of the request. </MessageDescription>
    <OriginatingMessageID>urn:au-qld-eoc:77388</OriginatingMessageID>
    <PrecedingMessageID>urn:au-qld-eoc:77388</PrecedingMessageID>
    <IncidentInformation>
        <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
    </IncidentInformation>
    <ContactInformation>
        <rm:ContactRole>Sender</rm:ContactRole>
        <rm:AdditionalContactInformation>
            <xnl:PartyName>
                <xnl:PersonName>
                    <xnl:NameElement
xnl:ElementType="FirstName">Alison</xnl:NameElement>
                    <xnl:NameElement xnl:ElementType="LastName">Smith</xnl:NameElement>
                </xnl:PersonName>
                <xnl:OrganisationName>
                    <xnl:NameElement>QBuild</xnl:NameElement>
                </xnl:OrganisationName>
            </xnl:PartyName>
        </rm:AdditionalContactInformation>
    </ContactInformation>
    <ContactInformation>
        <rm:ContactRole>Requester</rm:ContactRole>
```

```
2268                    <rm:AdditionalContactInformation>
2269                        <xnl:PartyName>
2270                            <xnl:PersonName>
2271                                <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2272                                <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2273                            </xnl:PersonName>
2274                            <xnl:OrganisationName>
2275                                <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2276                            </xnl:OrganisationName>
2277                        </xnl:PartyName>
2278                    </rm:AdditionalContactInformation>
2279            </ContactInformation>
2280            <ResourceInformation>
2281                <SequenceNumber>001</SequenceNumber>
2282                <ResponseInformation>
2283                    <rm:PrecedingSequenceNumber>001</rm:PrecedingSequenceNumber>
2284                    <rm:ResponseType>Accept</rm:ResponseType>
2285                </ResponseInformation>
2286                <Resource>
2287                    <TypeStructure>
2288                        <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
2289                        <rm:Value>Debris Management Team</rm:Value>
2290                    </TypeStructure>
2291                    <Description>5 person team to clear roads of debris incl. fallen trees.
2292    </Description>
2293                    <SpecialRequirements> Team to supply own equipment, such as trucks and
2294    chainsaws
2295                    </SpecialRequirements>
2296                </Resource>
2297                <AssignmentInformation>
2298                    <Quantity>1</Quantity>
2299                    <PriceQuote>
2300                        Daily rate: $2100
2301                        Total before tax: $31500
2302                        Tax: $3150
2303                        Total including tax: $34650
2304                        NOTES: Accommodation for the team will be organised and paid by us. Team
2305    will
2306                        work Mon-Fri for 3 weeks. </PriceQuote>
2307                </AssignmentInformation>
2308                <ScheduleInformation>
2309                    <ScheduleType>BeginAvailable</ScheduleType>
2310                    <DateTime>2006-03-31T15:00:00+10:00</DateTime>
2311                </ScheduleInformation>
2312                <ScheduleInformation>
2313                    <ScheduleType>ReportTo</ScheduleType>
2314                    <DateTime>2006-04-01T09:00:00+10:00</DateTime>
2315                    <Location>
2316                        <rm:LocationDescription>Johnstone Shire Council</rm:LocationDescription>
2317                        <rm:Address>
2318                            <xal:Country>
2319                                <xal:Name>Australia</xal:Name>
2320                            </xal:Country>
2321                            <xal:AdministrativeArea>
2322                                <xal:Name>QLD</xal:Name>
2323                            </xal:AdministrativeArea>
2324                            <xal:Locality>
2325                                <xal:Name>Innisfail</xal:Name>
2326                            </xal:Locality>
2327                            <xal:Thoroughfare>
2328                                <xal:NameElement>Rankin St</xal:NameElement>
2329                                <xal:Number>70</xal:Number>
2330                            </xal:Thoroughfare>
2331                        </rm:Address>
2332                    </Location>
2333                </ScheduleInformation>
2334                <ScheduleInformation>
2335                    <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2336                    <DateTime>2006-04-21T09:00:00+10:00</DateTime>
2337                </ScheduleInformation>
2338            </ResourceInformation>
```

```
2339        <ResourceInformation>
2340            <SequenceNumber>002</SequenceNumber>
2341            <ResponseInformation>
2342                <rm:PrecedingSequenceNumber>002</rm:PrecedingSequenceNumber>
2343                <rm:ResponseType>Decline</rm:ResponseType>
2344            </ResponseInformation>
2345        </ResourceInformation>
2346    </EDXLResourceMessage>
```

2347

3.3.13 Request Resource Deployment Status Message

3.3.13.1 Overview

2350   The "Request Resource Deployment Status" message is used to request the current status of one or
2351   more deployed resources. It can be sent by the Resource Supplier to the Resource Consumer (e.g., to
2352   check the status of the resource after a "Release Resource" message) or by the Resource Consumer to
2353   the Resource Supplier (e.g., to track the progress of a resource after a "Requisition Resource" message).

3.3.13.2 Element Reference Model

2355   Figure 16 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Request
2356   Resource Deployment Status Message. The ERM shows the element-level details for the main entities in
2357   the RM.
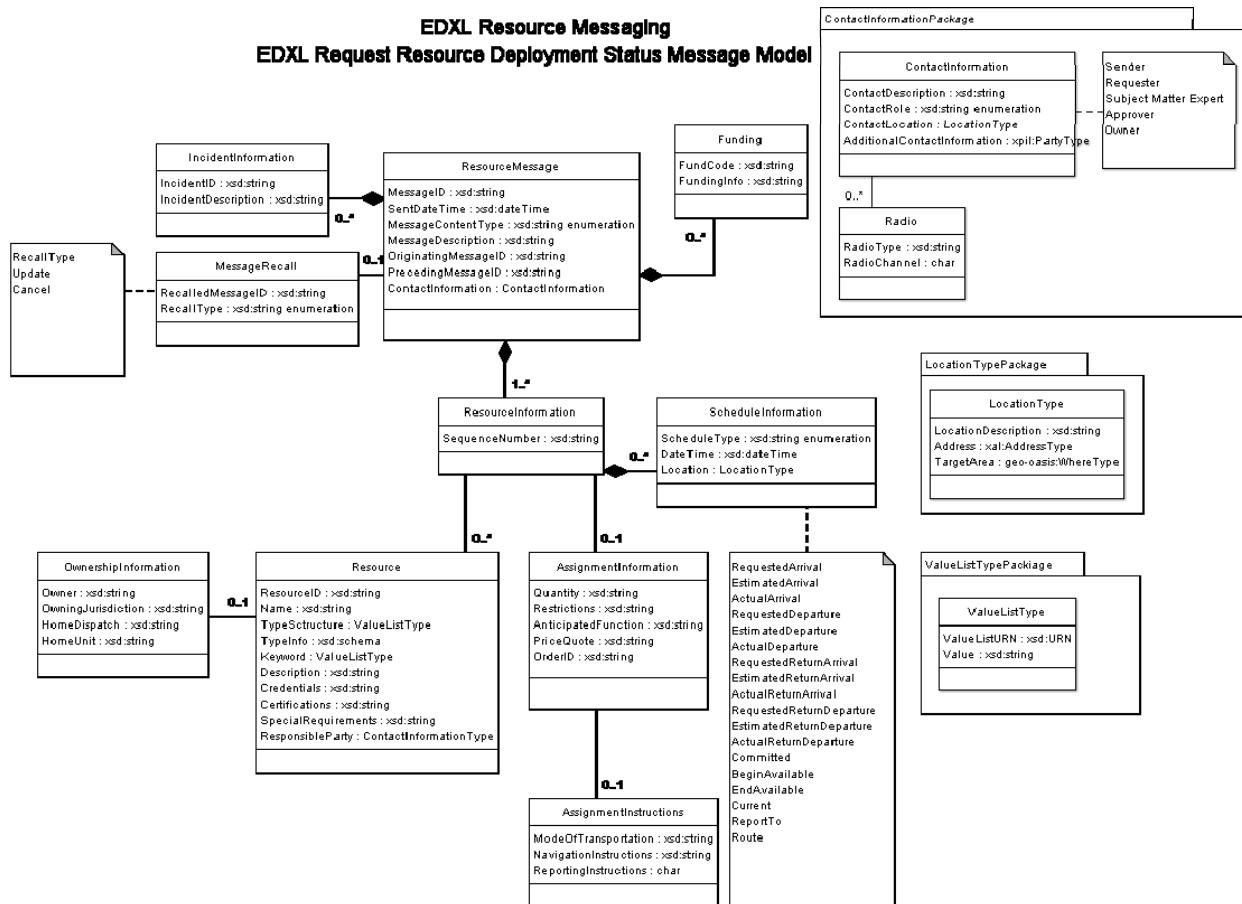
2358

2359   *Figure 16: EDXL-RM ERM for Request Resource Deployment Status Message*

2360

2361   The following table outlines the element and attribute cardinalities for this message type.

2362

2363   *Table 17: Resource Deployment Status Message Elements*

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

2364

2365   The following rules apply to the above elements/attributes:

2366   • The ResourceMessage:MessageID, ResourceMessage:SentDateTime,
2367   ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
2368   ResourceMessage:ContactInformation, and ResourceMessage:ResourceInformation elements MUST
2369   be present.

2370   • The value of ResourceMessage:MessageContentType MUST be
2371   "RequestResourceDeploymentStatus".

2372   • If a ResourceMessage:IncidentInformation element is present, then at least one of
2373   IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
2374   present.

2375   • If the ResourceMessage:MessageRecall element is present, then the
2376   MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

2377   • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
2378   Funding:FundingInfo element MUST be present.

2379   • The ResourceInformation:SequenceNumber and ResourceInformation:Resource elements MUST be
2380   present.

2381   • At least one of Resource:ResourceID, Resource:Name, and/or ResourceType:TypeStructure element
2382   MUST be present for each ResourceInformation:Resource element present.

2383   • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
2384   OwnershipInformation:OwningJurisdiction element MUST be present.

2385   • If the ResourceInformation:ScheduleInformation element is present, then the
2386   ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2387   values:

2388   • Carried Forward Schedule Information: "RequestedArrival", "EstimatedArrival", "ActualArrival",
2389   "RequestedDeparture", "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",
2390   "EstimatedReturnDeparture", "ActualReturnDeparture", "RequestedReturnArrival",
2391   "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable", EndAvailable", "Committed",
2392   "ReportTo", or "Route".

2393

2394   The schema for a Request Resource Deployment Status message can be found in Appendix A.15.

3.3.13.3 Message Flow

2396   The Request Resource Deployment Status message can be sent from the Resource Supplier to the
2397   Resource Consumer, or from the Resource Consumer to the Resource Supplier, any time after a
2398   resource is requisitioned or committed.

2399   The potential responses to this message include:

2400   • Report Resource Deployment Status

2401   • Acknowledgement

2402   • The EDXL-DE is used for a message acknowledgement.

3.3.13.4 Message Example

2404   Below is an example Request Resource Deployment Status message. This message requests the
2405   deployment status of the "Small Animal Sheltering Team"; it follows on from the example Commit
2406   message in Section 3.3.4.4, and precedes the Release Resource message in Section 3.3.8.4.

2407

2408   [Note: The XML example shown in this section is informative only.]

```
2409    <?xml version="1.0" encoding="UTF-8"?>
2410    <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2411
2412    xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestResourceDeploymentSt
2413    atus EDXL-RMRequestResourceDeploymentStatus.xsd"
2414        xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestResourceDeploymentStatus"
2415        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2416    xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2417        xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2418        xmlns:geo-oasis="http://www.oasis-open.org/oasis/10">
2419        <MessageID>urn:au-qld-eoc:997958</MessageID>
2420        <SentDateTime>2006-03-25T09:05:00+10:00</SentDateTime>
2421        <MessageContentType>Request Resource Deployment Status</MessageContentType>
2422        <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2423        <IncidentInformation>
2424            <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2425        </IncidentInformation>
2426        <ContactInformation>
2427            <rm:ContactRole>Sender</rm:ContactRole>
2428            <rm:AdditionalContactInformation>
2429                <xnl:PartyName>
2430                    <xnl:PersonName>
2431                        <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2432                        <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2433                    </xnl:PersonName>
2434                    <xnl:OrganisationName>
2435                        <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2436                    </xnl:OrganisationName>
2437                </xnl:PartyName>
2438            </rm:AdditionalContactInformation>
2439        </ContactInformation>
```

```
2440        <ResourceInformation>
2441            <SequenceNumber>001</SequenceNumber>
2442            <Resource>
2443                <TypeStructure>
2444                    <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
2445                    <rm:Value>Small Animal Sheltering Team</rm:Value>
2446                </TypeStructure>
2447            </Resource>
2448            <AssignmentInformation>
2449                <Quantity>1</Quantity>
2450            </AssignmentInformation>
2451            <ScheduleInformation>
2452                <ScheduleType>EstimatedArrival</ScheduleType>
2453                <DateTime>2006-03-25T09:30:00+10:00</DateTime>
2454                <Location>
2455                    <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
2456                </Location>
2457            </ScheduleInformation>
2458            <ScheduleInformation>
2459                <ScheduleType>EstimatedReturnDeparture</ScheduleType>
2460                <DateTime>2006-03-30T17:00:00+10:00</DateTime>
2461            </ScheduleInformation>
2462            <ScheduleInformation>
2463                <ScheduleType>Committed</ScheduleType>
2464                <DateTime>2006-03-21T12:46:00+10:00</DateTime>
2465            </ScheduleInformation>
2466        </ResourceInformation>
2467    </EDXLResourceMessage>
```

2468

2469 3.3.14 Report Resource Deployment Status Message

2470 3.3.14.1 Overview

2471 The "Report Resource Deployment Status" message is used to report on the current status of any
2472 deployed resource. The message can be sent from the Resource Supplier to the Resource Consumer, or
2473 from the Resource Consumer to the Resource Supplier.

2474 3.3.14.2 Element Reference Model

2475 Figure 17 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Report Resource
2476 Deployment Status Message. The ERM shows the element-level details for the main entities in the RM.

EDXL Resource Messaging
EDXL Report Resource Deployment Status Message Model
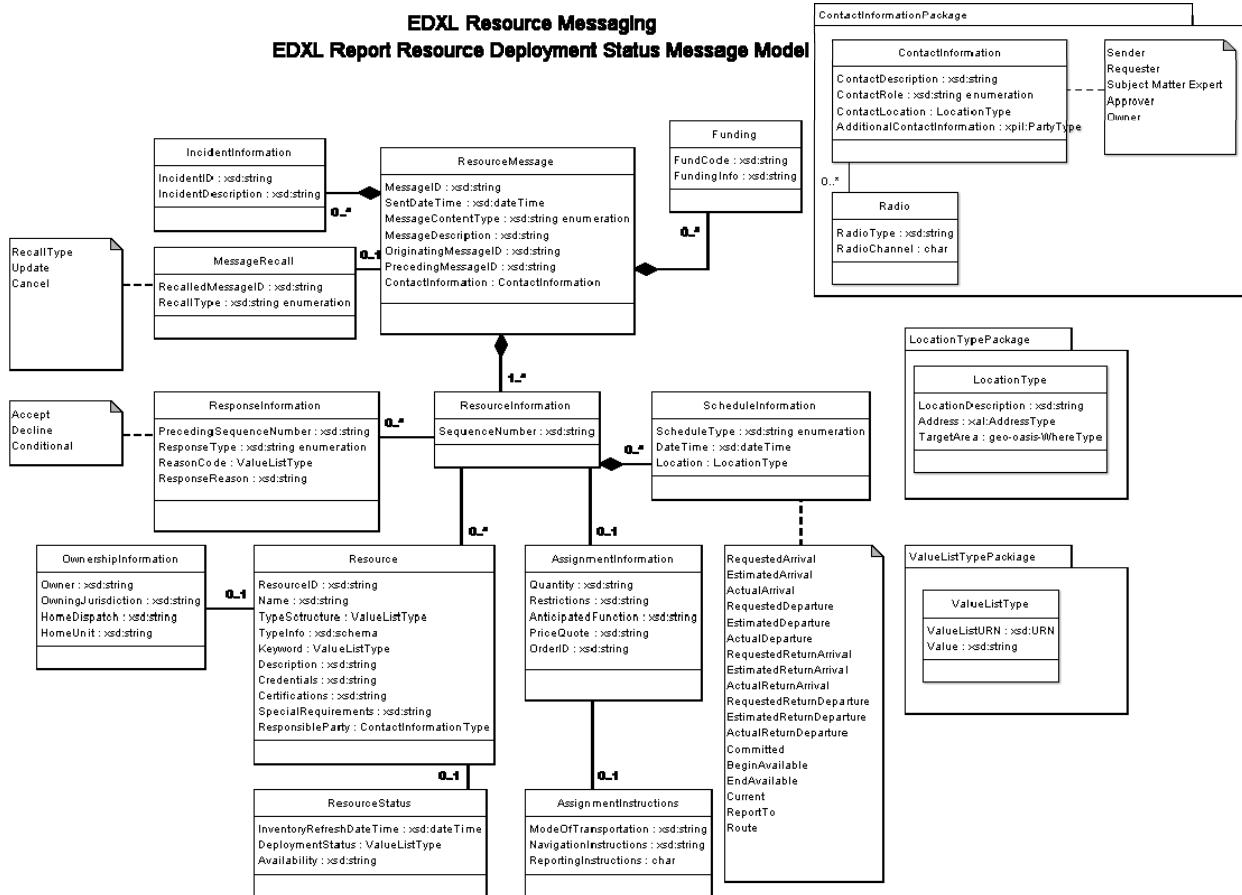
2477

2478   *Figure 17: EDXL-RM ERM for Report Resource Deployment Status Message*

2479

2480   The following table outlines the element and attribute cardinalities for this message type.

2481

2482   *Table 18: Report Resource Deployment Status Message Elements*

Parent Element	Sub-Elements
ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, MessageDescription, **OriginatingMessageID**, PrecedingMessageID, IncidentInformation*, MessageRecall, Funding* **ContactInformation***, **ResourceInformation***
IncidentInformation	*IncidentID*, *IncidentDescription*
MessageRecall	**RecalledMessageID**, **RecallType**
Funding	*FundCode*, *FundingInfo*
ResourceInformation	**SequenceNumber**, ResponseInformation**,** Resource, AssignmentInformation, ScheduleInformation*
ResponseInformation	***PrecedingSequenceNumber, ResourceType,*** *ReasonCode, ResponseReason*
Resource	*ResourceID*, *Name*, *TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, Responsible Party,

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

2483

2484 The following rules apply to the above elements/attributes:

2485 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime,
2486 ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
2487 ResourceMessage:ContactInformation, and ResourceMessage:ResourceInformation elements MUST
2488 be present.

2489 • The value of ResourceMessage:MessageContentType MUST be
2490 "ReportResourceDeploymentStatus".

2491 • If a ResourceMessage:IncidentInformation element is present, then at least one of
2492 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
2493 present.

2494 • If the ResourceMessage:MessageRecall element is present, then the
2495 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

2496 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
2497 Funding:FundingInfo element MUST be present.

2498 • If the ResourceInformation:ResponseInformation element is present, the
2499 ResponseInformation:ResponseType and ResponseInformatino:ReferenceID elements MUST be
2500 present.

2501 • If the ResponseInformation:ResponseType element has a value of "Conditional", at least one of
2502 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST
2503 be present.

2504 • If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceID,
2505 Resource:Name, and/or ResourceType:TypeStructure element MUST be present for each
2506 ResourceInformation:Resource element present.

2507 • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
2508 OwnershipInformation:OwningJurisdiction element MUST be present.

2509 • If the ResourceInformation:ScheduleInformation element is present, then the
2510 ScheduleInformation:ScheduleType element MUST must be present and contain one of the following
2511 values:

2512 • Either New or Carried Forward Schedule Information: "RequestedArrival", "EstimatedArrival",
2513 "ActualArrival", "RequestedDeparture", "EstimatedDeparture", "ActualDeparture",
2514 "RequestedReturnDeparture", "EstimatedReturnDeparture", "ActualReturnDeparture",
2515 "RequestedReturnArrival", "EstimatedReturnArrival", "ActualReturnArrival", "BeginAvailable",
2516 EndAvailable", "Committed", "ReportTo", or "Route".

2517

2518 The schema for a Report Resource Deployment Status message can be found in Appendix A.16.

3.3.14.3 Message Flow

The Report Resource Deployment Status message can be sent from the Resource Supplier to the Resource Consumer, or from the Resource Consumer to the Resource Supplier, any time after a resource is requisitioned or committed. The message MAY be sent in response to an earlier Request Resource Deployment Status message.

The potential responses to this message include:

- Acknowledgement

  - The EDXL-DE is used for a message acknowledgement.

3.3.14.4 Message Example

Below is an example Report Resource Deployment Status message. This message shows a possible response to the Request Resource Deployment Status message in Section **Error! Reference source not found.**.

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

```xml
<?xml version="1.0" encoding="UTF-8"?>
<EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ReportResourceDeploymentSta
tus EDXL-RMReportResourceDeploymentStatus.xsd"
    xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ReportResourceDeploymentStatus"
    xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
    xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
    xmlns:geo-oasis="http://www.oasis-open.org/oasis/10">
    <MessageID>urn:au-qld-eoc:997967</MessageID>
    <SentDateTime>2006-03-25T09:16:00+10:00</SentDateTime>
    <MessageContentType>Report Resource Deployment Status</MessageContentType>
    <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
    <PrecedingMessageID>urn:au-qld-eoc:997958</PrecedingMessageID>
    <IncidentInformation>
        <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
    </IncidentInformation>
    <ContactInformation>
        <rm:ContactRole>Sender</rm:ContactRole>
        <rm:AdditionalContactInformation>
            <xnl:PartyName>
                <xnl:PersonName>
                    <xnl:NameElement
xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
                    <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
                </xnl:PersonName>
                <xnl:OrganisationName>
                    <xnl:NameElement>EMA</xnl:NameElement>
                </xnl:OrganisationName>
            </xnl:PartyName>
        </rm:AdditionalContactInformation>
    </ContactInformation>
    <ContactInformation>
        <rm:ContactRole>Requester</rm:ContactRole>
        <rm:AdditionalContactInformation>
            <xnl:PartyName>
                <xnl:PersonName>
                    <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
                    <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
                </xnl:PersonName>
                <xnl:OrganisationName>
                    <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
                </xnl:OrganisationName>
            </xnl:PartyName>
        </rm:AdditionalContactInformation>
    </ContactInformation>
```

```
2580          <ResourceInformation>
2581              <SequenceNumber>001</SequenceNumber>
2582              <ResponseInformation>
2583                  <rm:PrecedingSequenceNumber>001</rm:PrecedingSequenceNumber>
2584                  <rm:ResponseType>Accept</rm:ResponseType>
2585              </ResponseInformation>
2586              <Resource>
2587                  <TypeStructure>
2588                      <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
2589                      <rm:Value>Small Animal Sheltering Team</rm:Value>
2590                  </TypeStructure>
2591                  <ResourceStatus>
2592                      <DeploymentStatus>
2593                          <rm:ValueListUrn>urn:x-
2594  hazard:vocab:deploymentStatusTypes</rm:ValueListUrn>
2595                          <rm:Value>In Transit</rm:Value>
2596                      </DeploymentStatus>
2597                  </ResourceStatus>
2598              </Resource>
2599              <AssignmentInformation>
2600                  <Quantity>1</Quantity>
2601              </AssignmentInformation>
2602              <ScheduleInformation>
2603                  <ScheduleType>ActualDeparture</ScheduleType>
2604                  <DateTime>2006-03-25T08:20:00+10:00</DateTime>
2605                  <Location>
2606                      <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2607                  </Location>
2608              </ScheduleInformation>
2609              <ScheduleInformation>
2610                  <ScheduleType>ActualArrival</ScheduleType>
2611                  <DateTime>2006-03-25T09:00:00+10:00</DateTime>
2612                  <Location>
2613                      <rm:LocationDescription>Innisfail Airport</rm:LocationDescription>
2614                  </Location>
2615              </ScheduleInformation>
2616              <ScheduleInformation>
2617                  <ScheduleType>EstimatedArrival</ScheduleType>
2618                  <DateTime>2006-03-25T09:40:00+10:00</DateTime>
2619                  <Location>
2620                      <rm:LocationDescription>Innisfail Animal Refuge</rm:LocationDescription>
2621                  </Location>
2622              </ScheduleInformation>
2623          </ResourceInformation>
2624  </EDXLResourceMessage>
```

2625

2626 3.3.15 Request Extended Deployment Duration

2627 3.3.15.1 Overview

2628 The "Request Extended Deployment Duration" message is sent by the Resource Consumer to the
2629 Resource Supplier when the Consumer wishes to retain one or more resources longer than previously
2630 agreed (e.g., in the orginial Requisition Resource and Commit Resource messages).

2631 3.3.15.2 Element Reference Model

2632 Figure 18 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Request
2633 Extended Deployment Duration Message. The ERM shows the element-level details for the main entities
2634 in the RM.

EDXL Resource Messaging
EDXL Request Extended Deployment Duration Message Model
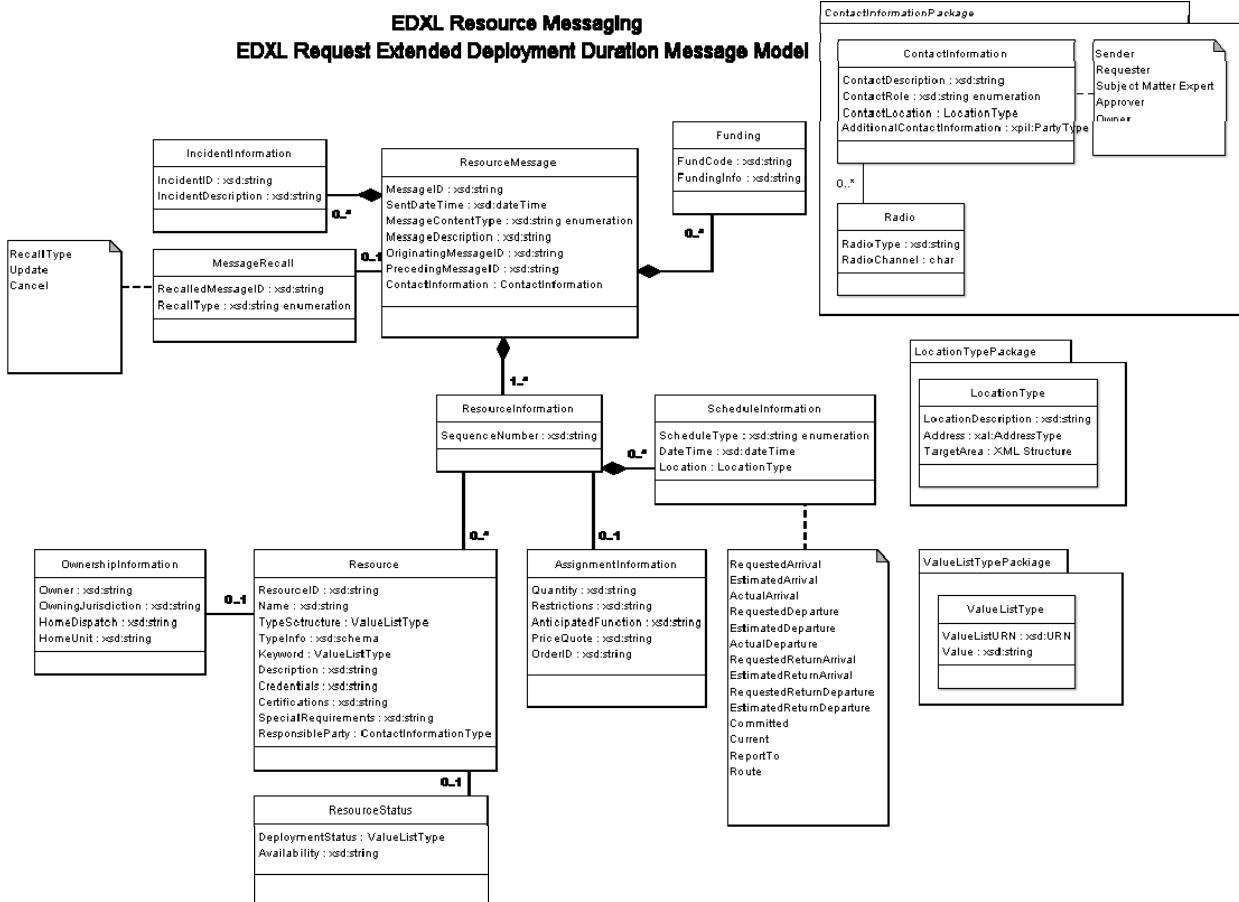
2635

2636 *Figure 18: EDXL-RM ERM for Request Extended Deployment Duration Message*

2637

2638 The following table outlines the element and attribute cardinalities for this message type.

2639

2640 *Table 19: Request Extended Deployment Duration Message Elements*

Parent Element	Sub-Elements
ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, **OriginatingMessageID**, MessageDescription, IncidentInformation*, MessageRecall, Funding* **ContactInformation***, **ResourceInformation***
IncidentInformation	*IncidentID*, *IncidentDescription*
MessageRecall	**RecalledMessageID**, **RecallType**
Funding	*FundCode*, *FundingInfo*
ResourceInformation	**SequenceNumber, Resource**, AssignmentInformation, ScheduleInformation*
Resource	*ResourceID*, *Name*, *TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, Responsible Party, OwnershipInformation, ResourceStatus
OwnerInformation	*Owner, OwningJurisdiction,* HomeDispatch, HomeUnit

ResourceStatus	DeploymentStatus, Availability
AssignmentInformation	Quantity, Restriction, AnticipatedFunction, PriceQuote, OrderID
ScheduleInformation	**ScheduleType^**, DateTime, Location

2641

2642 The following rules apply to the above elements/attributes:

2643 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime,
2644 ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
2645 ResourceMessage:ContactInformation, and ResourceMessage:ResourceInformation elements MUST
2646 be present.

2647 • The value of ResourceMessage:MessageContentType MUST be
2648 "RequestExtendedDeploymentDuration".

2649 • If a ResourceMessage:IncidentInformation element is present, then at least one of
2650 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
2651 present.

2652 • If the ResourceMessage:MessageRecall element is present, then the
2653 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

2654 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
2655 Funding:FundingInfo element MUST be present.

2656 • The ResourceInformation:SequenceNumber and ResourceInformation:Resource elements MUST be
2657 present.

2658 • At least one of Resource:ResourceID, Resource:Name, and/or ResourceType:TypeStructure element
2659 MUST be present for each ResourceInformation:Resource elements present for each
2660 ResourceInformation:Resource element.

2661 • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
2662 OwnershipInformation:OwningJurisdiction element MUST be present.

2663 • If a ResourceInformation:ScheduleInformation element is present, then the
2664 ScheduleInformation:ScheduleType element MUST be present and contain one of the following
2665 values:

2666 • Carried Forward Schedule Information: "RequestedArrival", "EstimatedArrival", "ActualArrival",
2667 "RequestedDeparture", "EstimatedDeparture", "ActualDeparture", "RequestedReturnArrival",
2668 "Committed", "ReportTo",

2669 • Either New or Carried Forward Schedule Information: "RequestedReturnDeparture",
2670 "EstimatedReturnDeparture", "EstimatedReturnArrival", or "Route".

2671

2672 The schema for a Request Extended Deployment Duration message can be found in Appendix A.17.

2673 ### 3.3.15.3 Message Flow

2674 The Request Extended Deployment Duration message is sent from the Resource Consumer to the
2675 Resource Supplier after the Commit Resource message and prior to the Release Resource message.

2676 The potential responses to this message include:

2677 • Response to Request Extended Deployment Duration (see 3.3.16)

2678 • This includes Accept, Decline and Conditional responses

2679 • Acknowledgement

2680 • The EDXL-DE is used for a message acknowledgement.

2681 3.3.15.4 Message Example

2682 Below is an example Request Extended Deployment Duration message. This message follows on from
2683 the Commit Resource message in Section 3.3.4.4 and preceeds the Request Return and Release
2684 Resource messages in Sections 3.3.9.4 and 3.3.8.4 respectively.

2685

2686 [Note: The XML example shown in this section is informative only.]

```
2687  <?xml version="1.0" encoding="UTF-8"?>
2688  <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2689
2690  xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestExtendedDeploymentDu
2691  ration EDXL-RMRequestExtendedDeploymentDuration.xsd"
2692      xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestExtendedDeploymentDuration"
2693      xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2694  xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2695      xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2696      xmlns:geo-oasis="http://www.oasis-open.org/oasis/10">
2697      <MessageID>urn:au-qld-eoc:997814</MessageID>
2698      <SentDateTime>2006-03-22T16:38:00+10:00</SentDateTime>
2699      <MessageContentType>Request Extended Deployment Duration</MessageContentType>
2700      <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2701      <IncidentInformation>
2702          <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2703      </IncidentInformation>
2704      <ContactInformation>
2705          <rm:ContactRole>Sender</rm:ContactRole>
2706          <rm:AdditionalContactInformation>
2707              <xnl:PartyName>
2708                  <xnl:PersonName>
2709                      <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
2710                      <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
2711                  </xnl:PersonName>
2712                  <xnl:OrganisationName>
2713                      <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
2714                  </xnl:OrganisationName>
2715              </xnl:PartyName>
2716          </rm:AdditionalContactInformation>
2717      </ContactInformation>
2718      <ResourceInformation>
2719          <SequenceNumber>001</SequenceNumber>
2720          <Resource>
2721              <TypeStructure>
2722                  <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
2723                  <rm:Value>Small Animal Sheltering Team</rm:Value>
2724              </TypeStructure>
2725          </Resource>
2726          <AssignmentInformation>
2727              <Quantity>1</Quantity>
2728          </AssignmentInformation>
2729          <ScheduleInformation>
2730              <ScheduleType>RequestedReturnArrival</ScheduleType>
2731              <DateTime>2006-04-07T17:00:00+10:00</DateTime>
2732              <Location>
2733                  <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
2734              </Location>
2735          </ScheduleInformation>
2736      </ResourceInformation>
2737  </EDXLResourceMessage>
```

2738

3.3.16 Response to Request Extended Deployment Duration Message

2740 **3.3.16.1 Overview**

2741 The "Response to Request Extended Deployment Duration" message is used as the response to a
2742 "Request Extended Deployment Duration". It allows the sender to accept, decline, or offer conditions
2743 upon which deployment duration of resources may be extended.

2744 **3.3.16.2 Element Reference Model**

2745 Figure 19 below shows the EDXL–RM Element Reference Model (ERM) tailored for the Response to
2746 Request Extended Deployment Duration Message. The ERM shows the element-level details for the main
2747 entities in the RM.
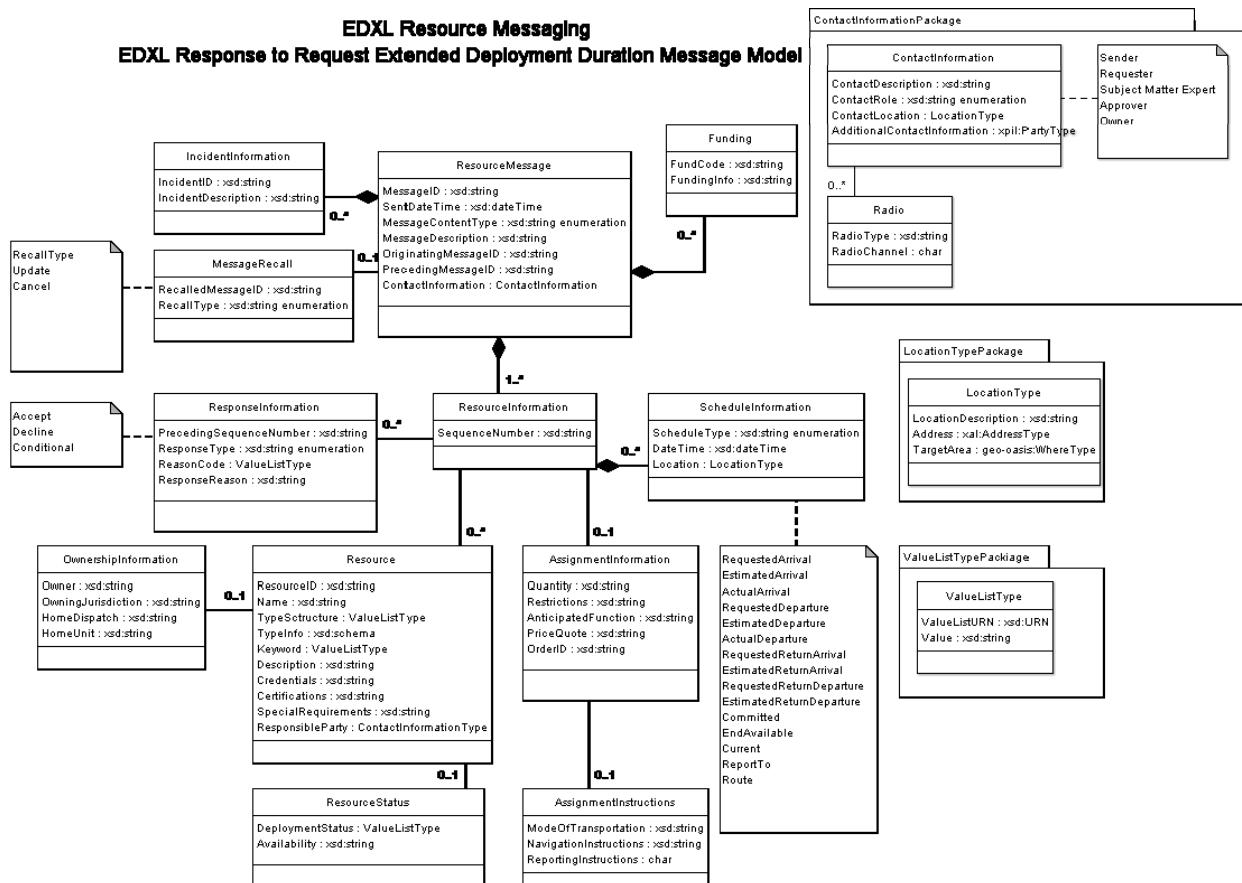
2748

2749 *Figure 19: EDXL-RM ERM Response to Request Extended Deployment Duration Message*

2750

2751 The following table outlines the element and attribute cardinalities for this message type.

2752

2753 *Table 20: Response to Request Extended Deployment Duration Message Elements*

Parent Element	Sub-Elements
ResourceMessage	**MessageID**, **SentDateTime**, **MessageContentType^**, MessageDescription, **OriginatingMessageID**, **PrecedingMessageID**, IncidentInformation*, MessageRecall, Funding* **ContactInformation***, **ResourceInformation***

IncidentInformation	*IncidentID*, *IncidentDescription*
MessageRecall	**RecalledMessageID**, **RecallType**
Funding	*FundCode*, *FundingInfo*
ResourceInformation	**SequenceNumber, ResponseInformation,** Resource^, AssignmentInformation, ScheduleInformation*
ResponseInformation	***PrecedingSequenceNumber, ResponseType***, *ReasonCode, ResponseReason*
Resource	*ResourceID, Name, TypeStructure*, TypeInfo, Keyword*, Description, Credentials, Certifications, SpecialRequirements, OwnershipInformation, ResourceStatus
OwnerInformation	*Owner, OwningJurisdiction,* HomeDispatch, HomeUnit
ResourceStatus	DeploymentStatus, Availability
AssigmentInformation	Quantity, Restrictions, AnticipatedFunction, PriceQuote, OrderID, AssignmentInstructions
AssignmentInstructions	ModeOfTransportation, NavigationInstructions, ReportingInstructions
ScheduleInformation	**ScheduleType^**, DateTime, Location

2754

2755 The following rules apply to the above elements/attributes:

2756 • The ResourceMessage:MessageID, ResourceMessage:SentDateTime,
2757 ResourceMessage:MessageContentType, ResourceMessage:OriginatingMessageID,
2758 ResourceMessage:PrecedingMessageID, ResourceMessage:ContactInformation, and
2759 ResourceMessage:ResourceInformation elements MUST be present.

2760 • The value of ResourceMessage:MessageContentType MUST be
2761 "ResponseToRequestExtendedDeploymentDuration".

2762 • If a ResourceMessage:IncidentInformation element is present, then at least one of
2763 IncidentInformation:IncidentID and/or IncidentInformation:IncidentDescription element MUST be
2764 present.

2765 • If the ResourceMessage:MessageRecall element is present, then the
2766 MessageRecall:RecalledMessageID and MessageRecall:RecallType elements must be present.

2767 • If a ResourceMessage:Funding element is present, then at least one of Funding:FundCode and/or
2768 Funding:FundingInfo element MUST be present.

2769 • The ResourceInformation:SequenceNumber and ResourceInformation:ResponseInformation
2770 elements MUST be present.

2771 • The ResponseInformation:PrecedingSequenceNumber and ResponseInformation:ResponseType
2772 elements MUST be present.

2773 • If the ResponseElement:ResponseType element has a value of "Accept" or "Conditional", then at
2774 least one ResourceInformation.Resource element MUST be present. Otherwise, the
2775 ResourceInformation.Resource element is optional.

2776 • If ResponseInformation:ResponseType has a value of "Conditional", at least one of
2777 ResponseInformation:ReasonCode and/or ResponseInformation:ResponseReason elements MUST
2778 be present.

2779 • If a ResourceInformation:Resource element is present, then at least one of Resource:ResourceID,
2780 Resource:Name, and/or ResourceType:TypeStructure element MUST be present.

2781 • If a Resource:OwnerInformation is present, then at least one of OwnershipInformation:Owner and/or
2782 OwnershipInformation:OwningJurisdiction element MUST be present.

2783 • If the ResourceInformation:ScheduleInformation element is present, then the
2784 ScheduleInformation:ScheduleType element MUST must be present and contain one of the following
2785 values:

2786 • New Schedule Information: "EndAvailable",

2787 • Carried Forward Schedule Information: "RequestedArrival", "EstimatedArrival", "ActualArrival",
2788 "RequestedDeparture", "EstimatedDeparture", "ActualDeparture", "RequestedReturnDeparture",

2789 • Either New or Carried Forward Schedule Information: "EstimatedReturnDeparture",
2790 "RequestedReturnArrival", "EstimatedReturnArrival", "Committed", "ReportTo", or "Route".

2791

2792 The schema for a Response to Request Extended Deployment Duration message can be found in
2793 Appendix A.18.

3.3.16.3 Message Flow

2795 The Response to Request Extended Deployment Duration message is sent from the Resource Supplier
2796 to the Resource Consumer in response to a Request Extended Deployment Duration message.

2797 The potential responses to this message include:

2798 • Acknowledgement (See ??)

3.3.16.4 Message Example

2800 Below is an example Resonse to Request Extended Deployment Duration message. This message
2801 follows on from the example Request Extended Deployment Duration message shown in Section 3.3.15.4
2802 (declining the request).

2803

2804 [Note: The XML example shown in this section is informative only.]

```
2805    <?xml version="1.0" encoding="UTF-8"?>
2806    <EDXLResourceMessage xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
2807
2808    xsi:schemaLocation="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestExtendedDe
2809    ploymentDuration EDXL-RMResponseToRequestExtendedDeploymentDuration.xsd"
2810
2811    xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestExtendedDeploymentDurat
2812    ion"
2813        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2814    xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2815        xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3" xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2816        xmlns:geo-oasis="http://www.oasis-open.org/oasis/10">
2817        <MessageID>urn:au-qld-eoc:997816</MessageID>
2818        <SentDateTime>2006-03-22T17:02:00+10:00</SentDateTime>
2819        <MessageContentType>Response to Request Extended Deployment
2820    Duration</MessageContentType>
2821        <OriginatingMessageID>urn:au-qld-eoc:12332</OriginatingMessageID>
2822        <PrecedingMessageID>urn:au-qld-eoc:997814</PrecedingMessageID>
2823        <IncidentInformation>
2824            <rm:IncidentDescription>Cyclone Larry</rm:IncidentDescription>
2825        </IncidentInformation>
2826        <ContactInformation>
2827            <rm:ContactRole>Sender</rm:ContactRole>
2828            <rm:AdditionalContactInformation>
2829                <xnl:PartyName>
2830                    <xnl:PersonName>
2831                        <xnl:NameElement
2832    xnl:ElementType="FirstName">Charlotte</xnl:NameElement>
2833                        <xnl:NameElement xnl:ElementType="LastName">Ryan</xnl:NameElement>
2834                    </xnl:PersonName>
```

```
                    <xnl:OrganisationName>
                        <xnl:NameElement>EMA</xnl:NameElement>
                    </xnl:OrganisationName>
                </xnl:PartyName>
            </rm:AdditionalContactInformation>
    </ContactInformation>
    <ContactInformation>
        <rm:ContactRole>Requester</rm:ContactRole>
        <rm:AdditionalContactInformation>
            <xnl:PartyName>
                <xnl:PersonName>
                    <xnl:NameElement xnl:ElementType="FirstName">Alex</xnl:NameElement>
                    <xnl:NameElement xnl:ElementType="LastName">Jones</xnl:NameElement>
                </xnl:PersonName>
                <xnl:OrganisationName>
                    <xnl:NameElement>Dept of Emergency Services</xnl:NameElement>
                </xnl:OrganisationName>
            </xnl:PartyName>
        </rm:AdditionalContactInformation>
    </ContactInformation>
    <ResourceInformation>
        <SequenceNumber>001</SequenceNumber>
        <ResponseInformation>
            <rm:PrecedingSequenceNumber>001</rm:PrecedingSequenceNumber>
            <rm:ResponseType>Decline</rm:ResponseType>
            <rm:ResponseReason>Team is already committed elsewhere for the period of 4
to 7 April.</rm:ResponseReason>
        </ResponseInformation>
        <Resource>
            <TypeStructure>
                <rm:ValueListUrn>urn:x-hazard:vocab:resourceTypes</rm:ValueListUrn>
                <rm:Value>Small Animal Sheltering Team</rm:Value>
            </TypeStructure>
        </Resource>
        <AssignmentInformation>
            <Quantity>1</Quantity>
        </AssignmentInformation>
        <ScheduleInformation>
            <ScheduleType>RequestedReturnArrival</ScheduleType>
            <DateTime>2006-04-07T17:00:00+10:00</DateTime>
            <Location>
                <rm:LocationDescription>Cairns Airport</rm:LocationDescription>
            </Location>
        </ScheduleInformation>
    </ResourceInformation>
</EDXLResourceMessage>
```

4 Data Dictionary (NORMATIVE)

4.1.1 ResourceMessage Element

2883

Element	MessageID
Type	xsd:string [Identified in the RMCommonTypes schema as MessageIDType]
Usage	**REQUIRED**, MUST be used once and only once
Definition	Each EDXL resource message contains an identifier that uniquely identifies each resource message.
Comments	• The EDXL Distribution Element contains the "Distribution ID", which identifies the "container" for the distribution message information.
Requirements Supported	20

2884

Element	SentDateTime
Type	xsd:dateTime [Identified in the RMCommonTypes schema as DateTimeType]
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 timezone designators such as "Z" MUST NOT be used. The timezone for UTC MUST be represented as "-00:00" or "+00:00.
Comments	• Original requirement = ICS "Request Date/Time"
Requirements Supported	21

2885

Element	MessageContentType
Type	xsd:string enumeration [Identified in the RMCommonTypes schema as MessageContentTypeType]
Usage	**REQUIRED**, MUST be used once and only once

Definition	Specifies the purpose / type of resource content / payload being sent within the Resource Reference Model
Comments	• Value must be one of the following: 　1. Request Resource 　2. Response to Request Resource 　3. Requisition Resource 　4. Commit Resource 　5. Request Information 　6. Response to Request Information 　7. Offer Unsolicited Resource 　8. Release Resource 　9. Request Return 　10. Request Quote 　11. Response to Request Return 　12. Response to Request Quote 　13. Request Resource Deployment Status 　14. Report Resource Deployment Status 　15. Request Extended Deployment Duration 　16. Response to Request Extended Deployment Duration
Requirements Supported	2,3,4,5,6,7,8,9,10,11,12,17

2886

Element	MessageDescription
Type	xsd:string [Identified in the RMCommonTypes schema as MessageDescriptionType]
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.
Comments	▪ Conditional Usage: 　o Required: 　　▪ ResourceMessage:MessageContentType = "Request Information" 　o Optional: 　　▪ Otherwise
Requirements	20

Supported	

2887

Element	OriginatingMessageID
Type	xsd:string [Identified in the RMCommonTypes schema as MessageIDType]
Usage	**REQUIRED**, MUST be used once and only once
Definition	Each EDXL resource message contains a MessageID that uniquely identifies each resource message. InitialMessageID identifies the MessageID of the first message in the sequence to which the message belongs. If the message is itself the initial message in a new sequence, InitialMessageID will have the same value as the MessageID element. In some other cases, the InitialMessageID element will have the same value as the OriginatingMessageID element. The InitialMessageID 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	▪ This Message ID is an EDXL-RM Message ID, not an EDXL-Distribution Element Message ID. ▪ The OriginatingMessageID of an originating message will be the MessageID of that message.
Requirements Supported	20

2888

Element	PrecedingMessageID
Type	xsd:string [Identified in the RMCommonTypes schema as MessageIDType]
Usage	**CONDITIONAL**, MAY be used once and only once
Definition	Each EDXL resource message contains a MessageID that uniquely identifies each resource message. OriginatingMessageID identifies the MessageID of the original message to which this message refers. This element is most commonly used in Response messages to refer back to the corresponding Request message. This Message ID is an EDXL-RM Message ID, not an EDXL-Distribution Element Message ID.

Comments	▪ The PrecedingMessageID of an originating message will be the MessageID of that message.
	▪ Conditional Usage:
	   o Required:
	      ▪ ResourceMessage:MessageContentType = "Response To

	Request Resource"
	▪ ResourceMessage:MessageContentType = "Commit Resource"
	▪ ResourceMessage:MessageContentType = "Response to Request Information"
	▪ ResourceMessage:MessageContentType = "Response to Request Return"
	▪ ResourceMessage:MessageContentType = "Response to Request Quote"
	▪ ResourceMessage:MessageContentType = "Response to Request Extended Deployment Duration"
	o Optional:
	▪ ResourceMessage:MessageContentType = "Requisition Resource"
	▪ ResourceMessage:MessageContentType = "Request for Information"
	▪ ResourceMessage:MessageContentType = "Release Resource"
	▪ ResourceMessage:MessageContentType = "Request Return"
	▪ ResourceMessage:MessageContentType = "Request Quote"
	▪ ResourceMessage:MessageContentType = "Request Resource Deployment Status"
	▪ ResourceMessage:MessageContentType = "Report Resource Deployment Status"
	o Not Applicable:
	▪ Otherwise
Requirements Supported	

2889

Element	ContactInformation
Type	XML structure [Identified in the RMCommonTypes schema as ContactInformationType]
Usage	**REQUIRED**, MUST be used at least once
Definition	The contact associated with the resource message.
Comments	
Requirements Supported	

4.1.2 IncidentInformation Element

Element	IncidentID
Type	xsd:string [Identified in the RMCommonTypes schema as IncidentIDType]
Usage	**CONDITIONAL**, MAY be used once and only once.
Definition	The name or other identifer of the incident to which the current message refers.
Comments	▪ If an IncidentInformation element is present, then at least one of IncidentInformation:IncidentID or IncidentInformation:IncidentDescription MUST be present
Requirements Supported	19

2891

Element	IncidentDescription
Type	xsd:string [Identified in the RMCommonTypes schema as IncidentDescriptionType]
Usage	**CONDITIONAL**, MAY be used once and only once.
Definition	A free form description of the incident to which the current message refers.
Comments	▪ If an IncidentInformation element is present, then at least one of IncidentInformation:IncidentID or IncidentInformation:IncidentDescription MUST be present
Requirements Supported	19

2892 ## 4.1.3 MessageRecall Element

Element	RecalledMessageID
Type	xsd:string [Identified in the RMCommonTypes schema as MessageIDType]
Usage	**REQUIRED**, MAY be used once and only once.
Definition	The identifer 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	▪ The MessageRecall element is Optional.

Requirements Supported	14, 15

2893

Element	RecallType
Type	xsd:string enumeration [Identified in the RMCommonTypes as an element within RecallTypeType]
Usage	**REQUIRED**, MAY 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.
Comments	- The Message Recall element is Optional. - Value must be one of the following: 1. Update 2. Cancel
Requirements Supported	14,15

2894 4.1.4 Funding Element

Element	FundCode
Type	xsd:string [Identified in the RMCommonTypes schema as FundCodeType]
Usage	**CONDITIONAL**, MAY be used once and only once.
Definition	Identifies the funds that will pay for the resource
Comments	- The Funding element is Required ONLY in a Requisition Resource message. - If a funding element is present, then at least one of Funding:FundCode or Funding:FundingInfo MUST be present - 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

2895

Element	FundingInfo
Type	xsd:string [Identified in the RMCommonTypes schema as FundingInfoType]
Usage	**CONDITIONAL**, MAY be used once and only once.
Definition	Provides additional information on the funds that will pay for the resource
Comments	• A textual description of funding sources or distribution • The Funding element is Required ONLY 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

2896 ## 4.1.5 ResourceInformation Element

Element	SequenceNumber
Type	xsd:string [Identified in the RMCommonTypes schema as SequenceNumberType]
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	▪ 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.
Requirements Supported	

2897 ## 4.1.6 ResponseInformation Element

Element	PrecedingSequenceNumber
Type	xsd:string [Identified in the RMCommonTypes schema as SequenceNumberType]
Usage	**REQUIRED**, MUST be used once and only once
Definition	This element identifies the instance of ResourceInformation within the message specified in the ResourceMessage:OriginatingMessageID element.

Comments	•
Requirements Supported	

2898

Element	ResponseType
Type	xsd:string enumeration [Identified in the RMCommonTypes schema as ResponseTypeType]
Usage	**REQUIRED**, MUST be used once and only once
Definition	Used to accept or decline a Request, Response, Unsolicited Offer, or a Request Return. "Decline" indicates the request, response or offer is not accepted. "Conditional" means that the request is accepted pending certain specified conditions.

Comments	• The "ResponseReason" is associated with a "decline" value.
	• Value must be one of the following:
	  1. Accept
	  2. Decline
	  3. Conditional

Requirements Supported	6,29

2899

Element	ReasonCode
Type	ValueListUrnType [Identified in the RMCommonTypes schema as ReasonCodeType]
Usage	**CONDITIONAL**, MAY be used once and only once
Definition	Code from a managed list that offers an explanation for a declined or conditional response to a Request, Response, Unsolicited Offer, or a Request Return.
Comments	▪ If the ResponseInformation:ResponseType element has a value of "Conditional", then at least one of the ResponseInformation:ReasonCode and/or ResponseInformation: ResponseReason elements must be present.
Requirements Supported	6,29

2900

Element	ResponseReason

Type	xsd:string [Identified in the RMCommonTypes schema as ResponseReasonType]
Usage	**CONDITIONAL**, MAY be used once and only once
Definition	Explanation for a declined or conditional response to a Request, Response, Unsolicited Offer, or a Request Return.
Comments	▪ If the ResponseInformation:ResponseType element has a value of "Conditional", then at least one of the ResponseInformation:ReasonCode and/or ResponseInformation: ResponseReason elements must be present.
Requirements Supported	6,29

2901 ## 4.1.7 Resource Element

Element	ResourceID
Type	xsd:string [Identified in the RMCommonTypes schema as ResourceIDType]
Usage	**CONDITIONAL**, MAY be used once and only once.
Definition	This identifier (if available) is used to identify and track.a resource.
Comments	• At least one of Resource:ResourceID, Resource:Name or Resource:TypeStructure MUST be present and used throughout a exchange of messages. • May be selected via the <Resource Keyword> if available.
Requirements Supported	3,16,26

2902

Element	Name
Type	xsd:string [Identified in the RMCommonTypes schema as ResourceNameType]
Usage	**CONDITIONAL**, MAY be used once and only once.
Definition	A name or title of the resource used for identification and tracking.
Comments	• At least one of Resource:ResourceID, Resource:Name or Resource:TypeStructure MUST be present and used throughout a exchange of messages. • May be selected via the <ResourceKeyword> if available.

Requirements Supported	3,16,18,26

2903

Element	TypeStructure
Type	ValueListType [Identified in the RMCommonTypes schema as TypeStructureType]
Usage	**CONDITIONAL**, MAY be used once and only once.
Definition	Uniform Resource Name of a certified list of resources maintained by the Community of Interest (COI) for the value referenced. Facilitates link to ARMS and other managed lists
Comments	▪ At least one of Resource:ResourceID, Resource:Name or Resource:TypeStructure MUST be contained in each Resource element present.
Requirements Supported	3,16,25, 26

2904

Element	TypeInfo
Type	xsd: schema [Identified in the RMCommonTypes schema as TypeInfoType]
Usage	**OPTIONAL**, MAY be used once and only once
Definition	The resource type as defined by either a Keyword structure or a validatable schema.
Comments	▪ This is xsd:any in the TypeInfoType that is dependent on the value of TypeStructure above.
Requirements Supported	3,16,25,26

2905

Element	Keyword
Type	ValueListType [Identified in the RMCommonTypes schema as KeywordType]
Usage	**OPTIONAL**, MAY be used one to many
Definition	Any value from a discrete managed list, used to specify a keyword.

Comments	• 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"
Requirements Supported	3,16,25,26

2906

Element	Description
Type	xsd:string [Identified in the RMCommonTypes schema as DescriptionType]
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 resource must satisfy.
Comments	▪
Requirements Supported	3,7,16,18,26

2907

Element	Credentials
Type	xsd:string [Identified in the RMCommonTypes schema as CredentialsType]
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	▪
Requirements Supported	

2908

Element	Certifications
Type	xsd:string [Identified in the RMCommonTypes schema as CertificationsType]
Usage	**OPTIONAL**, MAY be used once and only once
Definition	Statements of recognition that a resource has met specia requirements orl

	qualifications within a field
Comments	▪
Requirements Supported	

2909

Element	SpecialRequirements
Type	xsd:string [Identified in the RMCommonTypes schema as SpecialRequirementsType]
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	• Not intended to carry certifications or capabilities.
Requirements Supported	3,7,16,27

2910

Element	ResponsibleParty
Type	XML Structure [Identified in the RMCommonTypes schema as ContactInformationType.]
Usage	**CONDITIONAL**, MAY be used once and only once
Definition	Contact Info for person currently responsible for resource

Comments	▪ Conditional Usage:
	    o Not Applicable:
	        ▪ ResourceMessage:MessageContentType = "Request Resource"
	    o Optional, otherwise

Requirements Supported	3,7,16,27

2911 ## 4.1.8 OwnershipInformation Element

Element	Owner

Type	xsd:string [Identified in the RMCommonTypes schema as OwnerType]
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.
Comments	▪ At least one of OwnershipInformation:Owner or OwnershipInformation:OwningJurisdiction each OwnershipInformation element.
Requirements Supported	3,16,18

2912

Element	OwningJurisdiction
Type	xsd:string [Identified in the RMCommonTypes schema as OwningJurisdictionType]
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.
Comments	• At least one of OwnershipInformation:Owner or OwnershipInformation:OwningJurisdiction each OwnershipInformation element. • Can be a code
Requirements Supported	3, 16, 18

2913

Element	HomeDispatch
Type	xsd:string [Identified in the RMCommonTypes schema as HomeDispatchType]
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	▪ Conditional Usage: o Not Applicable:

	▪ ResourceMessage:MessageContentType = "Request Resource"
	▪ Optional, otherwise
Requirements Supported	18

2914

Element	HomeUnit
Type	xsd:string [Identified in the RMCommonTypes schema as HomeUnitType]
Usage	**OPTIONAL**, 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-Lasal 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	▪ Conditional Usage:
	    o Not Applicable:
	        ▪ ResourceMessage:MessageContentType = "Request Resource"
	    o Optional, otherwise

Requirements Supported	18

4.1.9 ResourceStatus Element

Element	InventoryRefreshDateTime
Type	xsd:dateTime [Identified in the RMCommonTypes schema as InventoryRefreshDateTimeType]
Usage	**CONDITIONAL**, MAY be used once and only once
Definition	Date and time that resource inventory counts were last updated

Comments	▪ Conditional Usage:
	    o Optional:
	        ▪ ResourceMessage:MessageContentType = "Response to Request Resource"
	        ▪ ResourceMessage:MessageContentType = "Commit Resource"
	        ▪ ResourceMessage:MessageContentType = "Request

	Information"
	- ResourceMessage:MessageContentType = "Response to Request Information" - ResourceMessage:MessageContentType = "Offer Unsolicited Resource" - ResourceMessage:MessageContentType = "Response to Request Quote" - ResourceMessage:MessageContentType = "Report Resource Deployment Status" - Not Applicable, otherwise
Requirements Supported	2,12'

2916

Element	DeploymentStatus
Type	ValueListType [Identified in the RMCommonTypes schema as DeploymentStatusType]
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	- Conditional Usage: - Required - ResourceMessage:MessageContentType = "Response to Request Return" - Optional: - ResourceMessage:MessageContentType = "Response to Request Resource" - ResourceMessage:MessageContentType = "Commit Resource" - ResourceMessage:MessageContentType = "Request Information" - ResourceMessage:MessageContentType = "Response to Request Information" - ResourceMessage:MessageContentType = "Offer Unsolicited Resource" - ResourceMessage:MessageContentType = "Release Resource" - ResourceMessage:MessageContentType = "Request Return" - ResourceMessage:MessageContentType = "Response to Request Quote" - ResourceMessage:MessageContentType = "Report Resource Deployment Status"

	▪ ResourceMessage:MessageContentType = "Request Extended Deployment Duration"
	▪ ResourceMessage:MessageContentType = "Response to Request Extended Deployment Duration"
	o Not Applicable, otherwise
	• Allows reference to a separate schema for enumerations. Example: valueListUrn= "http://www.dhs.gov/NIMSResourceStatus" and value="Available". Example values include:
	o atBase-available
	o enroute-Unavailable
	o on-scene-unavailable
	o returning-unavailable
	o Resource maintenance
	o Out of Service
	o Depleted
	o Available
	o Committed
	o In transit
	o At incident (ROSS)
	o Assigned
	o In Camp
	o Reassignment
	o Return transit
	o Returned
	o Demobilized
	o Etc.
Requirements Supported	18

2917

Element	Availability
Type	xsd:string [Identified in the RMCommonTypes schema as AvailabilityType]
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	▪ Conditional Usage: o Required

	▪ ResourceMessage:MessageContentType = "Response to Request Return"
	
	    ○ Optional:
	
	        ▪ ResourceMessage:MessageContentType = "Response to Request Resource"
	
	        ▪ ResourceMessage:MessageContentType = "Request Information"
	
	        ▪ ResourceMessage:MessageContentType = "Response to Request Information"
	
	        ▪ ResourceMessage:MessageContentType = "Offer Unsolicited Resource"
	
	        ▪ ResourceMessage:MessageContentType = "Release Resource"
	
	        ▪ ResourceMessage:MessageContentType = "Request Return"
	
	        ▪ ResourceMessage:MessageContentType = "Response to Request Quote"
	
	        ▪ ResourceMessage:MessageContentType = "Report Resource Deployment Status"
	
	        ▪ ResourceMessage:MessageContentType = "Request Extended Deployment Duration"
	
	        ▪ ResourceMessage:MessageContentType = "Response to Request Extended Deployment Duration"
	
	    ○ Not Applicable, otherwise

Requirements Supported	3,16

2918

4.1.10 AssignmentInformation Element

Element	Quantity
Type	xsd:string [Identified in the RMCommonTypes schema as QuantityType]
Usage	**CONDITIONAL**, MAY be used once and only once
Definition	Description of amount of resource needed in both quantity and units of measure.

Comments	• Value must be non-negative.
	
	• Conditional Usage:
	
	    ○ Required
	
	        ▪ ResourceMessage:MessageContentType = "Response to Request Resource" and ResponseInformation:ResponseType = "Accept"
	
	        ▪ ResourceMessage:MessageContentType = "Response to Request Resource" and ResponseInformation:ResponseType

	= "Conditional" • ResourceMessage:MessageContentType = "Requisition Resource" • ResourceMessage:MessageContentType = "Commit Resource" • ResourceMessage:MessageContentType = "Release Resource" o Optional, otherwise.
Requirements Supported	3,16,18,26

2920

Element	Restrictions
Type	xsd:string [Identified in the RMCommonTypes schema as RestrictionsType]
Usage	**OPTIONAL**, MAY be used one to many
Definition	Description of a condition governing the availability of resources. E.g. condition for number of beds available may be "if patents have insurance". This may be thought of as a term/condition or a restriction on availability.
Comments	•
Requirements Supported	28

2921

Element	AnticipatedFunction
Type	xsd:string [Identified in the RMCommonTypes schema as AnticipatedFunctionType]
Usage	**OPTIONAL**, MAY be used once and only once
Definition	Anticipated function, task, job, or role to be provided by the requested resource.
Comments	•
Requirements Supported	18,28

2922

Element	PriceQuote [Identified in the RMCommonTypes schema as PriceQuoteType]

Type	xsd:string
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	- Completed in response to a "Request Quote" - Conditional Usage: - Required - ResourceMessage:MessageContentType = "Response to Request Quote" - Not Applicable - ResourceMessage:MessageContentType = "Request Resource" - ResourceMessage:MessageContentType = "Request Quote" - Optional, otherwise
Requirements Supported	10,30

2923

Element	OrderID
Type	xsd:string [Identified in the RMCommonTypes schema as OrderIDType]
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	- There is no assurance of uniqueness between various external systems. - Conditional Usage: - Optional - ResourceMessage:MessageContentType = "Commit Resource" - ResourceMessage:MessageContentType = "Request Information" - ResourceMessage:MessageContentType = "Response to Request Information" - ResourceMessage:MessageContentType = "Release Resource"

	- ResourceMessage:MessageContentType = "Request Return" - ResourceMessage:MessageContentType = "Response to Request Return" - ResourceMessage:MessageContentType = "Request Resource Deployment Status" - ResourceMessage:MessageContentType = "Report Resource Deployment Status" - ResourceMessage:MessageContentType = "Request Extended Deployment Duration" - ResourceMessage:MessageContentType = "Response to Request Extended Deployment Duration" - Not Applicable, otherwise
Requirements Supported	18,30

4.1.11 AssignmentInstructions Element

Element	ModeOfTransportation
Type	xsd:string [Identified in the RMCommonTypes schema as ModeOfTransportationType]
Usage	**CONDITIONAL**, MAY be used once and only once
Definition	Method or mode used to transport the resource to or from the incident.
Comments	- Conditional Usage: - Not Applicable - ResourceMessage:MessageContentType = "Request Resource" - ResourceMessage:MessageContentType = "Request Extended Deployment Duration" - Optional, otherwise
Requirements Supported	18,30

2925

Element	NavigationInstructions
Type	xsd:string [Identified in the RMCommonTypes schema as NavigationInstructionsType]
Usage	**CONDITIONAL**, MAY be used once and only once
Definition	Instructions that define how to get to the "report to location"

Comments	• Conditional Usage:
	o Not Applicable
	■ ResourceMessage:MessageContentType = "Request Resource"
	■ ResourceMessage:MessageContentType = "Request Extended Deployment Duration"
	o Optional, otherwise
Requirements Supported	28

2926

Element	ReportingInstructions
Type	xsd:string [Identified in the RMCommonTypes schema as ReportingInstructionsType]
Usage	**CONDITIONAL**, MAY be used once and only once
Definition	The name of the party that the requested item is to report to when they arrive at the incident.
Comments	• Conditional Usage:
	o Not Applicable
	■ ResourceMessage:MessageContentType = "Request Resource"
	■ ResourceMessage:MessageContentType = "Request Extended Deployment Duration"
	o Optional, otherwise
Requirements Supported	30

4.1.12 ScheduleInformation Element

2927

Element	ScheduleType
Type	xsd:string enumeration [Identified in the RMCommonTypes schema as ScheduleTypeType]
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.
Comments	• Value must be one of the following:
	1. ResourceRequestedArrivalDateTime

	• When the resource is needed. Completed for Resource requests, returns, etc.
	• ICS uses the term "delivery" vs. "arrival". "Arrival" used here because this applies to Human Resources also
	2. ResourceEstimatedDepartureDateTime
	    • When the resource is expected to depart from its current location for transit to a "Report-to Location"
	3. ResourceActualDepartureDateTime
	    • Actual date and time when the resource departs from its current location for transit to a "Report To Location".
	4. ResourceEstimatedArrivalDateTime
	    • When the resource is expected to arrive at its "Report To Location".
	5. Committed
	    • When specified resource is committed to a request or requisition. Completed in response to a resource request message. Specified resource is no longer available to be applied to other resource requests
	    • "Dispatch" is a commitment of resources in the Distribution Element
	6. ResourceActualArrivalDateTime
	    • Actual date and time of arrival of the resource a "Report To Location".
	7. ResourceEstimatedDepartureDateTime
	    • When the resource is expected to depart from its current location for transit to a "Report-to Location"
	8. ResourceEstimatedArrivalDateTime
	    • When the resource is expected to arrive at its "Report To Location".
	9. ResourceActualDepartureDateTime
	    • Actual date and time when the resource departs from its current location for transit to a "Report To Location".
	10. ResourceActualArrivalDateTime
	    • Actual date and time of arrival of the resource a "Report To Location".
	11. ResourceAnticipatedReturnDateTime
	    • When the resource is expected to be returned or demobilized. Completed for a "Request Resource". This element with the "Requested Arrival Date / Time" provides the estimated duration of resource deployment.

Requirements Supported	2, 11, 12, 28, 30

2928

Element	DateTime
Type	xsd:dateTime [Identified in the RMCommonTypes schema as DateTimeType]
Usage	**OPTIONAL**, MAY be used once and only once

Definition	The date and time that a scheduled event takes place.
Comments	•
Requirements Supported	2, 11, 12, 28, 30

2929

Element	Location
Type	XML structure [Identified in the RMCommonTypes schema as LocationType]
Usage	**OPTIONAL**, MAY be used once and only once
Definition	The location in which a scheduled event takes place.
Comments	•
Requirements Supported	

2930   4.1.13 Supporting Element Types

2931   4.1.13.1 ContactInformationType

ContactInformation

ContactDescription[0..1]: xsd:string
ContactRole[0..1]: enumerated xsd:string
ContactLocation[0..1]: LocationType
AdditionalContactInfo[0..1]: xpil:PartyType

0..*

Radio

TypeOfRadio: xsd:string
RadioChannel: xsd:string
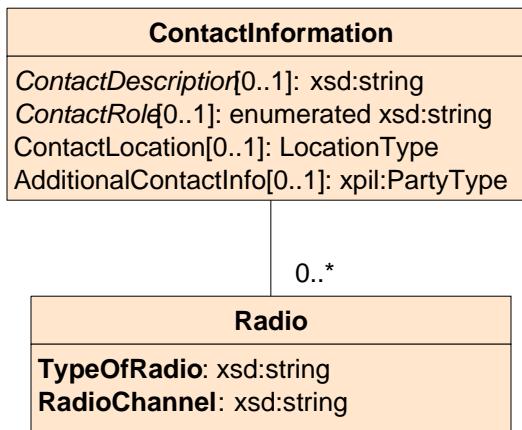
2932
2933

Element	ContactDescription
Type	xsd:string [Identified in the RMCommonTypes schema as ContactDescriptionType]
Usage	**CONDITIONAL**, MAY be used once and only once.
Definition	Description of the contact associated with the resource message.

Comments	• If a ContactInformation element is present, then at least one of ContactInformation:ContactDescription or ContactInformation:ContactRole MUST be present
Requirements Supported	18,23,24

2934

Element	ContactRole
Type	xsd:string enumeration [Identified in the RMCommonTypes schema as ContactRoleType]
Usage	**CONDITIONAL**, MAY be used once and only once.
Definition	Role of the contact associated with the resource message.

Comments	• 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:
	  1. "Sender" (who sent the message)
	  2. "Requester" (authorization for the message / request)
	  3. "Subject Matter Expert" (answer questions or provide details)
	  4. "Approver"
	  5. "RespondingOrg" (who responded to the message)
	  6. "Owner"

Requirements Supported	18,23,24

2935

Element	ContactLocation
Type	XML Structure [Identified in the RMCommonTypes schema as LocationType]
Usage	**OPTIONAL**, MAY be used once and only once.
Definition	The geophysical location of the contact.
Comments	
Requirements Supported	18,23,24

2936

Element	AdditionalContactInformation
Type	xpil:PartyType [Identified in the RMCommonTypes schema as AdditionalContactInformationType]
Usage	**OPTIONAL**, MAY be used once and only once.
Definition	Any other contact information including name and other party information.
Comments	▪ .
Requirements Supported	18,23,24

4.1.13.1.1 Radio Element

Element	RadioType
Type	xsd:string [Identified in the RMCommonTypes schema as RadioTypeType]
Usage	**REQUIRED**, Must be used once and only once
Definition	Contact radio type of the person or organization referred to in ContactRole
Comments	▪ .
Requirements Supported	18,23

Element	RadioChannel
Type	xsd:string [Identified in the RMCommonTypes schema as RadioChannelType]
Usage	**REQUIRED**, MUST be used once and only once
Definition	Contact radio channel of the person or organization referred to in ContactRole
Comments	▪ "Channel" and "Frequency" are synonyms for purposes of this standard
Requirements Supported	18,23

4.1.13.2 LocationType

LocationType
LocationDescription[0..1]: xsd:string *Address*[0..*]: xal:AddressType *TargetArea*[0..1]: geo-oasis:WhereType

2940

Element	LocationDescription
Type	xsd:string [Identified in the RMCommonTypes schema as LocationDescriptionType]
Usage	**CONDITIONAL**, MAY be used once and only once.
Definition	A free-form textual description of a location.
Comments	▪ At least one of the Description, Address or TargetArea elements must be present.
Requirements Supported	

2941

Element	Address
Type	xal:AddressType [Identified in the RMCommonTypes schema as AddressType]
Usage	**CONDITIONAL**, MAY be used zero to many.
Definition	The identifier of an explicit address.
Comments	▪ At least one of the Description, Address or TargetArea elements must be present.
Requirements Supported	

2942

Element	TargetArea
Type	geo-oasis:WhereType [Identified in the RMCommonTypes schema as TargetAreaType]
Usage	**CONDITIONAL**, MAY be used once and only once.
Definition	The container element for location information. This element is structured to import the specific "WhereType" from the proprosed geo:oasis GML specification. It allows the target Area to be defined a choice that includes:

	• Point – WGS84 lat long
	• Line – a series of points
	• Circle - a point and radius
	• Polygon – a set of connected non-crossing points
	• Envelope – two points used to define a bounding rectangle
	It also allows the use of a set of attributes defined for "WhereType." More detailed definitions for geo-oasis:WhereType and its components can be found in the geo:oasis proposed specification. Specific usage of those types for RM are found in the section "Imported Type Definitions" below.
Comments	▪ At least one of the Description, ExplicitAddress or TargetArea elements must be present.
Requirements Supported	▪

2943
4.1.13.2.1 Imported Type Definitions

Type	geo-oasis:WhereType
Usage	Used for as the type value for TargetArea elements
Definition	WhereType provides a mechanism for defining location. It allows the target Area to be defined as a choice of one of the following: • gml:Point • gml:LineString • gml:CircleByCenterPoint • gml:Ploygon • gml:Envelope It also allows the use of a set of attributes (oasis:whereAttrGroup) defined for "WhereType." More detailed definitions for geo:oasis:WhereType can be found in the geo:oasis proposed specification
Comments	▪ Specific usage structures for the choices above to be used in the RM specification are found in definitions included later in this section. ▪ Use of the oasis:whereAttrGroup is not covered by this standard. While oasis:whereAttrGroup can be used, its particular use should be regarded as a proprietary extension of the Resource Messaging standard, meaning that an understanding of its use cannot be guaranteed by implementation instances of the standard.
Requirements Supported	▪

2944

Type	geo-oasis:WhereType using GML:Point
Usage	Where TargetAreaType is best represented as a WGS84 point.

Definition	The use of gml:Point within TargetArea provides location using a specific WGS-84 point value that is compatible with compatible with GML compliant geospatial information systems. The following example applies:
	
	<oasis:where>
	  <gml:Point>
	    <gml:pos>45.256 -71.92</gml:pos>
	  </gml:Point>
	</oasis:where>
	
	More detailed definitions for geo:oasis:WhereType can be found in the geo:oasis proposed specification.

Comments	▪ The geo-oasis proposal offers the use of an attribute within the Point tag to indicate an alternate Coordinate Reference System (other than WGS-84). The Resource Messaging Standard requires the use of WGS-84 only.
Requirements Supported	▪

2945

Type	geo-oasis:WhereType using GML:LineString
Usage	Where TargetAreaType is best represented as a route along a series of WGS84 points.

Definition	The use of gml:LineString within TargetArea provides location along a line represented by a specific list of WGS-84 point values that is compatible with GML compliant geospatial information systems. The following example applies:
	
	<oasis:where>
	  <gml:LineString>
	    <gml:posList>
	      45.256 -110.45 46.46 -109.48 43.84 -109.86
	    </gml:posList>
	  </gml:LineString>
	</oasis:where >
	
	More detailed definitions for geo:oasis:WhereType can be found in the geo:oasis proposed specification.

Comments	▪ The geo-oasis proposal offers the use of an attribute within the Point tag to indicate an alternate Coordinate Reference System (other than WGS-84). The Resource Messaging Standard requires the use of WGS-84 only.
Requirements Supported	▪

2946

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	The use of gml:CircleByCenterPoint within TargetArea provides location as a circle centered on a WGS-84 referenced point with a radius defined in lilometers. The following example applies:
	
	    <oasis:where>
	        <gml:CircleByCenterPoint>
	          <gml:pos> 45.256 -110.45 </gml:pos>
	            <gml:radius> 10 </gml:radius>
	        <gml:CircleByCenterPoint>
	    </oasis:where>
	
	More detailed definitions for geo:oasis:WhereType can be found in the geo:oasis proposed specification.

Comments	▪ The geo-oasis proposal offers the use of an attribute within the Point tag to indicate an alternate Coordinate Reference System (other than WGS-84). The Resource Messaging Standard requires the use of WGS-84 only. ▪ The geo-oasis proposal contains the option to use attributes to change the unit of measure to other than kilometers. For the resource messaging standard such attributes will not be used.
Requirements Supported	▪

2947

Type	geo-oasis:WhereType using GML:Polygon
Usage	Where TargetAreaType is best represented as a connected group of WGS 84 points representing an actual area of concern.
Definition	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 WGS-84 point values that is compatible with GML compliant geospatial information systems. The following example applies:

<table>
<tr>
<td></td>
<td>

<oasis:where>

    <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>

</oasis:where>

More detailed definitions for geo:oasis:WhereType can be found in the geo:oasis proposed specification.

</td>
</tr>
<tr>
<td>Comments</td>
<td>

- The geo-oasis proposal offers the use of an attribute within the Point tag to indicate an alternate Coordinate Reference System (other than WGS-84). The Resource Messaging Standard requires the use of WGS-84 only.

</td>
</tr>
<tr>
<td>Requirements Supported</td>
<td>

-

</td>
</tr>
</table>

2948

<table>
<tr>
<td>Type</td>
<td>geo-oasis:WhereType using GML:Polygon</td>
</tr>
<tr>
<td>Usage</td>
<td>Where TargetAreaType is best represented as a connected group of WGS 84 points representing an actual area of concern.</td>
</tr>
<tr>
<td>Definition</td>
<td>

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 WGS-84 point values that is compatible with GML compliant geospatial information systems. The following example applies:

<oasis:where>

    <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>

</td>
</tr>
</table>

	</gml:Polygon> </oasis:where> More detailed definitions for geo:oasis:WhereType can be found in the geo:oasis proposed specification.
Comments	▪ The geo-oasis proposal offers the use of an attribute within the Point tag to indicate an alternate Coordinate Reference System (other than WGS-84). The Resource Messaging Standard requires the use of WGS-84 only. ▪ The geo-oasis proposal offers an alternate notation for Polygon using separate gml:pos elements for each point in the polygon. Resource messages will not use this feature and will only use the gml:posList layout.
Requirements Supported	▪

2949

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 WGS 84 points representing an actual area of concern.

Definition	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:
	
	<oasis:where>
	 <gml:Envelope>
	  <gml:lowerCorner>42.943 -71.032</gml:lowerCorner>
	  <gml:upperCorner>43.039 -69.856</gml:upperCorner>
	 </gml:Envelope>
	</oasis:where>
	
	More detailed definitions for geo:oasis:WhereType can be found in the geo:oasis proposed specification.

Comments	▪ The geo-oasis proposal offers the use of an attribute within the Point tag to indicate an alternate Coordinate Reference System (other than WGS-84). The Resource Messaging Standard requires the use of WGS-84 only.
Requirements Supported	▪

4.1.13.3 ValueListType

2950

Element	ValueListURN
Type	xsd:anyURI [Identified in the RMCommonTypes schema as ValueListURNType]

sage	**REQUIRED**, MUST be used once and only once
Definition	The name of the certified list maintained by the Community of Interest (COI) for the value referenced.
Comments	• Derive from DE namespace?
Sub-elements	
Requirements Supported	25,26

2951

Element	Value
Type	xsd:string [Identified in the RMCommonTypes schema as ValueType]
Usage	**REQUIRED**, MUST be used one to many
Definition	A value from the certified list maintained by the Community of Interest (COI).
Comments	▪
Sub-elements	
Requirements Supported	

5 Distribution of EDXL-RM (NON-NORMATIVE)

EDXL DISTRIBUTION ELEMENT (EDXL-DE)

The EDXL Distribution Element (EDXL-DE) V, 1.0 was adopted as a standard in April 2006. The DE provides a flexible message-distribution framework for emergency information systems data sharing among emergency information systems using the XML-based Emergency Data Exchange Language (EDXL). This format may be used over any data transmission system, including but not limited to the SOAP HTTP binding. The primary use of the EDXL Distribution Element is to identify and provide information to enable the routing of encapsulated payloads, called Content Objects. It is used to provide a common mechanism to encapsulate content information.

The primary purpose of the Distribution Element is to facilitate the routing of any properly formatted XML emergency message to recipients. 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. Messages may be distributed by specific recipients, by a geographic area, or by other codes such as agency type (police, fire, etc.).

EDXL RESOURCE MESSAGING (EDXL-RM) DISTRIBUTION

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 messages. These Resource Messages are specifically designed as payloads of tbe EDXL-DE. Together EDXL-DE and EDXL-RM are intended to expedite all activities associated with resources needed to respond and adapt to emergency incidents.

The EDXL-DE is designed to carry one or more "Content Objects", and each Content Object may be in the form of well-formed XMLContent, or NonXMLContent. EDXL-RM is designed to be compatible as well-formed XMLContent for routing using the EDXL-DE. Metadata (i.e. the "codes" mentioned above) for routing / distribuion is found only in the EDXL-DE, and not in the EDXL-RM. Therefore, other routing mechanisms may be used to distribute EDXL-RM content if this metadata is provided in the same fashion. Alternatively, other routing mechanisms may be utilized for "directed distribution" of EDXL-RM content, meaning the sender specifies specific recipients of the payload. The EDXL-DE also supports directed distribution through its "explicitAddress" element.

2987 A. XML Schema for the EDXL Resource Messaging

2988   Schemas included in Appendix A are for reference only. The normative schemas can be found at
2989   http://docs.oasis-open.org/emergency/edxl-rm/v1.0/cd01/schemas/.

2990 A.1 Resource Messaging Common Types

```
2991 <xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
2992 xmlns:xnal="urn:oasis:names:tc:ciq:xnal:3"
2993     xmlns:xpil="urn:oasis:names:tc:ciq:xpil:3"
2994 xmlns:xal="urn:oasis:names:tc:ciq:xal:3"
2995     xmlns:geo-oasis="http://www.oasis-open.org/oasis/10"
2996     xmlns="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2997     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
2998 elementFormDefault="qualified"
2999     attributeFormDefault="unqualified">
3000     <!-- All elements that have unchanged internal content across the entire
3001 matrix of RM messages are typed here.
3002     Where internal content differs between messages, please see the
3003 appropriate schemas. -->
3004     <xsd:import namespace="urn:oasis:names:tc:ciq:xpil:3"
3005 schemaLocation="xpil.xsd"/>
3006     <xsd:import namespace="urn:oasis:names:tc:ciq:xal:3"
3007 schemaLocation="xal.xsd"/>
3008     <xsd:import namespace="http://www.oasis-open.org/oasis/10"
3009 schemaLocation="geo-oasis.xsd"/>
3010     <xsd:simpleType name="MessageIDType">
3011         <xsd:restriction base="xsd:string"/>
3012     </xsd:simpleType>
3013     <xsd:simpleType name="DateTimeType">
3014         <xsd:restriction base="xsd:dateTime"/>
3015     </xsd:simpleType>
3016     <xsd:simpleType name="MessageContentTypeType">
3017         <xsd:restriction base="xsd:string">
3018             <xsd:enumeration value="Request Resource"/>
3019             <xsd:enumeration value="Response to Request Resource"/>
3020             <xsd:enumeration value="Requisition Resource"/>
3021             <xsd:enumeration value="Commit Resource"/>
3022             <xsd:enumeration value="Request Information"/>
3023             <xsd:enumeration value="Response to Request Information"/>
3024             <xsd:enumeration value="Offer Unsolicited Resource"/>
3025             <xsd:enumeration value="Release Resource"/>
3026             <xsd:enumeration value="Request Return"/>
3027             <xsd:enumeration value="Response to Request Return"/>
3028             <xsd:enumeration value="Request Quote"/>
3029             <xsd:enumeration value="Response to Request Quote"/>
3030             <xsd:enumeration value="Request Resource Deployment Status"/>
3031             <xsd:enumeration value="Report Resource Deployment Status"/>
3032             <xsd:enumeration value="Request Extended Deployment Duration"/>
3033             <xsd:enumeration value="Response to Request Extended Deployment
3034 Duration"/>
3035         </xsd:restriction>
3036     </xsd:simpleType>
3037     <xsd:simpleType name="MessageDescriptionType">
```

```
3038              <xsd:restriction base="xsd:string"/>
3039         </xsd:simpleType>
3040         <xsd:complexType name="IncidentInformationType">
3041             <!-- One (or both) of the IncidentID and IncidentDescription elements
3042    is required -->
3043             <xsd:sequence>
3044                 <xsd:element name="IncidentID" type="IncidentIDType"
3045    minOccurs="0"/>
3046                 <xsd:element name="IncidentDescription"
3047    type="IncidentDescriptionType" minOccurs="0"/>
3048             </xsd:sequence>
3049         </xsd:complexType>
3050         <xsd:simpleType name="IncidentIDType">
3051             <xsd:restriction base="xsd:string"/>
3052         </xsd:simpleType>
3053         <xsd:simpleType name="IncidentDescriptionType">
3054             <xsd:restriction base="xsd:string"/>
3055         </xsd:simpleType>
3056         <xsd:complexType name="MessageRecallType">
3057             <xsd:sequence>
3058                 <xsd:element name="RecallMessageID" type="MessageIDType"/>
3059                 <xsd:element name="RecallType" type="RecallTypeType"/>
3060             </xsd:sequence>
3061         </xsd:complexType>
3062         <xsd:simpleType name="RecallTypeType">
3063             <xsd:restriction base="xsd:string">
3064                 <xsd:enumeration value="Update"/>
3065                 <xsd:enumeration value="Cancel"/>
3066             </xsd:restriction>
3067         </xsd:simpleType>
3068         <xsd:complexType name="FundingType">
3069             <!-- One (or both) of the FundCode and FundingInfo elements is
3070    required -->
3071             <xsd:sequence>
3072                 <xsd:element name="FundCode" type="FundCodeType" minOccurs="0"
3073    maxOccurs="1"/>
3074                 <xsd:element name="FundingInfo" type="FundingInfoType"
3075    minOccurs="0" maxOccurs="1"/>
3076             </xsd:sequence>
3077         </xsd:complexType>
3078         <xsd:simpleType name="FundCodeType">
3079             <xsd:restriction base="xsd:string"/>
3080         </xsd:simpleType>
3081         <xsd:simpleType name="FundingInfoType">
3082             <xsd:restriction base="xsd:string"/>
3083         </xsd:simpleType>
3084         <xsd:complexType name="ContactInformationType">
3085             <xsd:sequence>
3086                 <!-- At least one of ContactDescription and ContextRole is
3087    required -->
3088                 <xsd:element name="ContactDescription"
3089    type="ContactDescriptionType" minOccurs="0"
3090                     maxOccurs="1"/>
3091                 <xsd:element name="ContactRole" type="ContactRoleType"
3092    minOccurs="0" maxOccurs="1"/>
3093                 <xsd:element name="Radio" type="RadioInformationType"
3094    minOccurs="0"
```

```
3095                     maxOccurs="unbounded"/>
3096                 <xsd:element name="ContactLocation" type="LocationType"
3097  minOccurs="0" maxOccurs="1"/>
3098                 <xsd:element name="AdditionalContactInformation"
3099  type="xpil:PartyType" minOccurs="0"
3100                     maxOccurs="1"/>
3101             </xsd:sequence>
3102         </xsd:complexType>
3103         <xsd:simpleType name="ContactDescriptionType">
3104             <xsd:restriction base="xsd:string"/>
3105         </xsd:simpleType>
3106         <xsd:simpleType name="ContactRoleType">
3107             <xsd:restriction base="xsd:string">
3108                 <xsd:enumeration value="Sender"/>
3109                 <xsd:enumeration value="Requester"/>
3110                 <xsd:enumeration value="SubjectMatterExpert"/>
3111                 <xsd:enumeration value="Approver"/>
3112                 <xsd:enumeration value="Owner"/>
3113             </xsd:restriction>
3114         </xsd:simpleType>
3115         <xsd:complexType name="RadioInformationType">
3116             <xsd:sequence>
3117                 <xsd:element name="RadioType" type="ValueListType"/>
3118                 <xsd:element name="RadioChannel" type="RadioChannelType"/>
3119             </xsd:sequence>
3120         </xsd:complexType>
3121         <xsd:simpleType name="RadioTypeType">
3122             <xsd:restriction base="xsd:string"/>
3123         </xsd:simpleType>
3124         <xsd:simpleType name="RadioChannelType">
3125             <xsd:restriction base="xsd:string"/>
3126         </xsd:simpleType>
3127         <xsd:complexType name="ResponseInformationType">
3128             <xsd:sequence>
3129                 <xsd:element name="PrecedingSequenceNumber"
3130  type="SequenceNumberType"/>
3131                 <xsd:element name="ResponseType" type="ResponseTypeType"/>
3132                 <!-- If the ResponseType element has the value "Conditional", one
3133  (or both) of
3134                     ReasonCode and ResponseReason must be present -->
3135                 <xsd:element name="ReasonCode" type="ValueListType" minOccurs="0"
3136  maxOccurs="1"/>
3137                 <xsd:element name="ResponseReason" type="ResponseReasonType"
3138  minOccurs="0" maxOccurs="1"/>
3139             </xsd:sequence>
3140         </xsd:complexType>
3141         <xsd:simpleType name="SequenceNumberType">
3142             <xsd:restriction base="xsd:string"/>
3143         </xsd:simpleType>
3144         <xsd:simpleType name="ResponseTypeType">
3145             <xsd:restriction base="xsd:string">
3146                 <xsd:enumeration value="Accept"/>
3147                 <xsd:enumeration value="Decline"/>
3148                 <xsd:enumeration value="Conditional"/>
3149             </xsd:restriction>
3150         </xsd:simpleType>
3151         <xsd:simpleType name="ResponseReasonType">
```

```
3152              <xsd:restriction base="xsd:string"/>
3153          </xsd:simpleType>
3154          <xsd:simpleType name="ResourceIDType">
3155              <xsd:restriction base="xsd:string"/>
3156          </xsd:simpleType>
3157          <xsd:simpleType name="ResourceNameType">
3158              <xsd:restriction base="xsd:string"/>
3159          </xsd:simpleType>
3160          <xsd:complexType name="TypeInfoType">
3161              <xsd:sequence>
3162                  <xsd:any processContents="skip" maxOccurs="unbounded"/>
3163              </xsd:sequence>
3164              <xsd:anyAttribute/>
3165          </xsd:complexType>
3166          <xsd:simpleType name="DescriptionType">
3167              <xsd:restriction base="xsd:string"/>
3168          </xsd:simpleType>
3169          <xsd:simpleType name="CredentialsType">
3170              <xsd:restriction base="xsd:string"/>
3171          </xsd:simpleType>
3172          <xsd:simpleType name="CertificationsType">
3173              <xsd:restriction base="xsd:string"/>
3174          </xsd:simpleType>
3175          <xsd:simpleType name="SpecialRequirementsType">
3176              <xsd:restriction base="xsd:string"/>
3177          </xsd:simpleType>
3178          <xsd:complexType name="OwnershipInformationType">
3179              <!-- One (or both) of the Owner and OwningJurisdiction elements is
3180     required -->
3181              <xsd:sequence>
3182                  <xsd:element name="Owner" type="OwnerType" minOccurs="0"
3183     maxOccurs="1"/>
3184                  <xsd:element name="OwningJurisdiction"
3185     type="OwningJurisdictionType" minOccurs="0"
3186                      maxOccurs="1"/>
3187                  <xsd:element name="HomeDispatch" type="HomeDispatchType"
3188     minOccurs="0" maxOccurs="1"/>
3189                  <xsd:element name="HomeUnit" type="HomeUnitType" minOccurs="0"
3190     maxOccurs="1"/>
3191              </xsd:sequence>
3192          </xsd:complexType>
3193          <xsd:simpleType name="OwnerType">
3194              <xsd:restriction base="xsd:string"/>
3195          </xsd:simpleType>
3196          <xsd:simpleType name="OwningJurisdictionType">
3197              <xsd:restriction base="xsd:string"/>
3198          </xsd:simpleType>
3199          <xsd:simpleType name="HomeDispatchType">
3200              <xsd:restriction base="xsd:string"/>
3201          </xsd:simpleType>
3202          <xsd:simpleType name="HomeUnitType">
3203              <xsd:restriction base="xsd:string"/>
3204          </xsd:simpleType>
3205          <xsd:simpleType name="AvailabilityType">
3206              <xsd:restriction base="xsd:string"/>
3207          </xsd:simpleType>
3208          <xsd:simpleType name="QuantityType">
```

```
3209                <xsd:restriction base="xsd:string"/>
3210          </xsd:simpleType>
3211          <xsd:simpleType name="RestrictionsType">
3212                <xsd:restriction base="xsd:string"/>
3213          </xsd:simpleType>
3214          <xsd:simpleType name="AnticipatedFunctionType">
3215                <xsd:restriction base="xsd:string"/>
3216          </xsd:simpleType>
3217          <xsd:simpleType name="PriceQuoteType">
3218                <xsd:restriction base="xsd:string"/>
3219          </xsd:simpleType>
3220          <xsd:simpleType name="OrderIDType">
3221                <xsd:restriction base="xsd:string"/>
3222          </xsd:simpleType>
3223          <xsd:complexType name="AssignmentInstructionsType">
3224                <xsd:sequence>
3225                     <xsd:element name="ModeOfTransportation"
3226     type="ModeOfTransportationType" minOccurs="0"
3227                          maxOccurs="1"/>
3228                     <xsd:element name="NavigationInstructions"
3229     type="NavigationInstructionsType"
3230                          minOccurs="0" maxOccurs="1"/>
3231                     <xsd:element name="ReportingInstructions"
3232     type="ReportingInstructionsType" minOccurs="0"
3233                          maxOccurs="1"/>
3234                </xsd:sequence>
3235          </xsd:complexType>
3236          <xsd:simpleType name="ModeOfTransportationType">
3237                <xsd:restriction base="xsd:string"/>
3238          </xsd:simpleType>
3239          <xsd:simpleType name="NavigationInstructionsType">
3240                <xsd:restriction base="xsd:string"/>
3241          </xsd:simpleType>
3242          <xsd:simpleType name="ReportingInstructionsType">
3243                <xsd:restriction base="xsd:string"/>
3244          </xsd:simpleType>
3245          <xsd:simpleType name="ScheduleTypeType">
3246                <xsd:restriction base="xsd:string">
3247                     <xsd:enumeration value="RequestedArrival"/>
3248                     <xsd:enumeration value="EstimatedArrival"/>
3249                     <xsd:enumeration value="ActualArrival"/>
3250                     <xsd:enumeration value="RequestedDeparture"/>
3251                     <xsd:enumeration value="EstimatedDeparture"/>
3252                     <xsd:enumeration value="ActualDeparture"/>
3253                     <xsd:enumeration value="EstimatedReturnDeparture"/>
3254                     <xsd:enumeration value="EstimatedReturnArrival"/>
3255                     <xsd:enumeration value="ActualReturnArrival"/>
3256                     <xsd:enumeration value="RequestedReturnDeparture"/>
3257                     <xsd:enumeration value="RequestedReturnArrival"/>
3258                     <xsd:enumeration value="EstimatedReturnDeparture"/>
3259                     <xsd:enumeration value="ActualReturnDeparture"/>
3260                     <xsd:enumeration value="BeginAvailable"/>
3261                     <xsd:enumeration value="EndAvailable"/>
3262                     <xsd:enumeration value="Committed"/>
3263                     <xsd:enumeration value="Current"/>
3264                     <xsd:enumeration value="ReportTo"/>
3265                     <xsd:enumeration value="Route"/>
```

```
3266            </xsd:restriction>
3267        </xsd:simpleType>
3268        <xsd:complexType name="LocationType">
3269            <xsd:sequence>
3270                <!-- One (or more) of the LocationDescription, Address and
3271    TargetArea elements is required -->
3272                <xsd:element name="LocationDescription"
3273    type="LocationDescriptionType" minOccurs="0"
3274                    maxOccurs="1"/>
3275                <xsd:element name="Address" type="xal:AddressType" minOccurs="0"
3276    maxOccurs="1"/>
3277                <xsd:element name="TargetArea" type="geo-oasis:WhereType"
3278    minOccurs="0" maxOccurs="1"/>
3279            </xsd:sequence>
3280        </xsd:complexType>
3281        <xsd:simpleType name="LocationDescriptionType">
3282            <xsd:restriction base="xsd:string"/>
3283        </xsd:simpleType>
3284        <xsd:complexType name="ValueListType">
3285            <xsd:sequence>
3286                <xsd:element name="ValueListUrn" type="ValueListUrnType"/>
3287                <xsd:element name="Value" type="ValueType"
3288    maxOccurs="unbounded"/>
3289            </xsd:sequence>
3290        </xsd:complexType>
3291        <xsd:simpleType name="ValueListUrnType">
3292            <xsd:restriction base="xsd:anyURI"/>
3293        </xsd:simpleType>
3294        <xsd:simpleType name="ValueType">
3295            <xsd:restriction base="xsd:string"/>
3296        </xsd:simpleType>
3297    </xsd:schema>
```

3298 A.2 Resource Messaging Reference Schema

```
3299    <schema xmlns="http://www.w3.org/2001/XMLSchema"
3300        targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:Reference"
3301        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3302        xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3303        elementFormDefault="qualified"
3304        attributeFormDefault="unqualified">
3305        <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3306    schemaLocation="EDXL-RMCommonTypes.xsd"/>
3307        <!-- This schema is the base reference schema for all EDXL-RM messages.
3308            All resource messages will conform to this schema and to the
3309    particular sub-schema corresponding to the message type.-->
3310        <element name="EDXLResourceMessage">
3311            <complexType>
3312                <sequence>
3313                    <element name="MessageID" type="rm:MessageIDType"/>
3314                    <element name="SentDateTime" type="rm:DateTimeType"/>
3315                    <element name="MessageContentType"
3316    type="rm:MessageContentTypeType"/>
3317                    <element name="MessageDescription"
3318    type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
3319                    <element name="OriginatingMessageID"
3320    type="rm:MessageIDType"/>
```

```
3321              <element name="PrecedingMessageID" type="rm:MessageIDType"
3322  minOccurs="0" maxOccurs="1"/>
3323              <element name="IncidentInformation"
3324  type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
3325              <element name="MessageRecall" type="rm:MessageRecallType"
3326  minOccurs="0" maxOccurs="1"/>
3327              <element name="Funding" type="rm:FundingType" minOccurs="0"
3328  maxOccurs="unbounded"/>
3329              <element name="ContactInformation"
3330  type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
3331              <element name="ResourceInformation" minOccurs="0"
3332  maxOccurs="unbounded">
3333                  <complexType>
3334                      <sequence>
3335                          <element name="SequenceNumber"
3336  type="rm:SequenceNumberType"/>
3337                          <element name="ResponseInformation"
3338  type="rm:ResponseInformationType" minOccurs="0" maxOccurs="1"/>
3339                          <element name="Resource" minOccurs="0"
3340  maxOccurs="1">
3341                              <complexType>
3342                                  <sequence><!-- One (or more) of first
3343  three elements is required -->
3344                                      <element name="ResourceID"
3345  type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
3346                                      <element name="Name"
3347  type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
3348                                      <element name="TypeStructure"
3349  type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
3350                                      <element name="TypeInfo"
3351  type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
3352                                      <element name="Keyword"
3353  type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
3354                                      <element name="Description"
3355  type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
3356                                      <element name="Credentials"
3357  type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
3358                                      <element name="Certifications"
3359  type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
3360                                      <element name="SpecialRequirements"
3361  type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
3362                                      <element name="ResponsibleParty"
3363  type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
3364                                      <element name="OwnershipInformation"
3365  type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3366                                      <element name="ResourceStatus"
3367  minOccurs="0" maxOccurs="1">
3368                                          <complexType>
3369                                              <sequence>
3370                                                  <element
3371  name="InventoryRefreshDateTime" type="rm:DateTimeType" minOccurs="0"
3372  maxOccurs="1"/>
3373                                                  <element
3374  name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
3375                                                  <element
3376  name="Availability" type="rm:AvailabilityType" minOccurs="0" maxOccurs="1"/>
3377                                              </sequence>
```

```
3378                                                          </complexType>
3379                                                       </element>
3380                                                    </sequence>
3381                                                 </complexType>
3382                                              </element>
3383                                              <element name="AssignmentInformation"
3384   minOccurs="0" maxOccurs="1">
3385                                                 <complexType>
3386                                                    <sequence>
3387                                                       <element name="Quantity"
3388   type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
3389                                                       <element name="Restrictions"
3390   type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
3391                                                       <element name="AnticipatedFunction"
3392   type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3393                                                       <element name="PriceQuote"
3394   type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
3395                                                       <element name="OrderID"
3396   type="rm:OrderIDType" minOccurs="0" maxOccurs="1"/>
3397                                                       <element
3398   name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
3399   minOccurs="0" maxOccurs="1"/>
3400                                                    </sequence>
3401                                                 </complexType>
3402                                              </element>
3403                                              <element name="ScheduleInformation" minOccurs="0"
3404   maxOccurs="unbounded">
3405                                                 <complexType>
3406                                                    <sequence>
3407                                                       <element name="ScheduleType"
3408   type="rm:ScheduleTypeType"/>
3409                                                       <element name="DateTime"
3410   type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3411                                                       <element name="Location"
3412   type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
3413                                                    </sequence>
3414                                                 </complexType>
3415                                              </element>
3416                                           </sequence>
3417                                        </complexType>
3418                                     </element>
3419                                  </sequence>
3420                               </complexType>
3421                            </element>
3422   </schema>
```

A.3 Request Resource Message Schema

```
3424   <schema xmlns="http://www.w3.org/2001/XMLSchema"
3425
3426   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestResource"
3427       xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3428   xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3429       elementFormDefault="qualified" attributeFormDefault="unqualified">
3430       <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3431           schemaLocation="EDXL-RMCommonTypes.xsd"/>
```

```
3432        <!-- This schema describes the structure of EDXL-RM "Request Resource"
3433   messages.-->
3434        <element name="EDXLResourceMessage">
3435            <complexType>
3436                <sequence>
3437                    <element name="MessageID" type="rm:MessageIDType"/>
3438                    <element name="SentDateTime" type="rm:DateTimeType"/>
3439                    <element name="MessageContentType">
3440                        <simpleType>
3441                            <restriction base="rm:MessageContentTypeType">
3442                                <enumeration value="Request Resource"/>
3443                            </restriction>
3444                        </simpleType>
3445                    </element>
3446                    <element name="MessageDescription"
3447   type="rm:MessageDescriptionType" minOccurs="0"
3448                        maxOccurs="1"/>
3449                    <element name="OriginatingMessageID"
3450   type="rm:MessageIDType"/>
3451                    <element name="IncidentInformation"
3452   type="rm:IncidentInformationType" minOccurs="0"
3453                        maxOccurs="unbounded"/>
3454                    <element name="MessageRecall" type="rm:MessageRecallType"
3455   minOccurs="0"
3456                        maxOccurs="1"/>
3457                    <element name="Funding" minOccurs="0" maxOccurs="unbounded">
3458                        <complexType>
3459                            <sequence>
3460                                <!-- One (or both) of the FundCode and
3461   FundingInfo elements is required -->
3462                                <element name="FundCode" type="rm:FundCodeType"
3463   minOccurs="0"
3464                                    maxOccurs="1"/>
3465                                <element name="FundingInfo"
3466   type="rm:FundingInfoType" minOccurs="0"
3467                                    maxOccurs="1"/>
3468                            </sequence>
3469                        </complexType>
3470                    </element>
3471                    <element name="ContactInformation"
3472   type="rm:ContactInformationType" minOccurs="1"
3473                        maxOccurs="unbounded"/>
3474                    <element name="ResourceInformation" minOccurs="1"
3475   maxOccurs="unbounded">
3476                        <complexType>
3477                            <sequence>
3478                                <element name="SequenceNumber"
3479   type="rm:SequenceNumberType"/>
3480                                <element name="Resource">
3481                                    <complexType>
3482                                        <sequence>
3483                                            <!-- One (or more) of first three
3484   elements is required -->
3485                                            <element name="ResourceID"
3486   type="rm:ResourceIDType"
3487                                                minOccurs="0" maxOccurs="1"/>
```

```
3488                                                        <element name="Name"
3489    type="rm:ResourceNameType"
3490                                                            minOccurs="0" maxOccurs="1"/>
3491                                                        <element name="TypeStructure"
3492    type="rm:ValueListType"
3493                                                            minOccurs="0" maxOccurs="1"/>
3494                                                        <element name="TypeInfo"
3495    type="rm:TypeInfoType"
3496                                                            minOccurs="0" maxOccurs="1"/>
3497                                                        <element name="Keyword"
3498    type="rm:ValueListType"
3499                                                            minOccurs="0"
3500    maxOccurs="unbounded"/>
3501                                                        <element name="Description"
3502    type="rm:DescriptionType"
3503                                                            minOccurs="0" maxOccurs="1"/>
3504                                                        <element name="Credentials"
3505    type="rm:CredentialsType"
3506                                                            minOccurs="0" maxOccurs="1"/>
3507                                                        <element name="Certifications"
3508    type="rm:CertificationsType"
3509                                                            minOccurs="0" maxOccurs="1"/>
3510                                                        <element name="SpecialRequirements"
3511                                                            type="rm:SpecialRequirementsType"
3512    minOccurs="0"
3513                                                                maxOccurs="1"/>
3514                                                </sequence>
3515                                            </complexType>
3516                                        </element>
3517                                        <element name="AssignmentInformation"
3518    minOccurs="0" maxOccurs="1">
3519                                            <complexType>
3520                                                <sequence>
3521                                                    <element name="Quantity"
3522    type="rm:QuantityType"
3523                                                        minOccurs="0" maxOccurs="1"/>
3524                                                    <element name="Restrictions"
3525    type="rm:RestrictionsType"
3526                                                        minOccurs="0" maxOccurs="1"/>
3527                                                    <element name="AnticipatedFunction"
3528                                                        type="rm:AnticipatedFunctionType"
3529    minOccurs="0"
3530                                                            maxOccurs="1"/>
3531                                                </sequence>
3532                                            </complexType>
3533                                        </element>
3534                                        <element name="ScheduleInformation" minOccurs="0"
3535    maxOccurs="unbounded">
3536                                            <complexType>
3537                                                <sequence>
3538                                                    <element name="ScheduleType">
3539                                                        <simpleType>
3540                                                            <restriction
3541    base="rm:ScheduleTypeType">
3542                                                                <enumeration
3543    value="RequestedArrival"/>
```

```
3544                                                  <enumeration
3545     value="RequestedDeparture"/>
3546                                                  <enumeration
3547     value="EstimatedReturnDeparture"/>
3548                                                  <enumeration
3549     value="EstimatedReturnArrival"/>
3550                                                  <enumeration
3551     value="ReportTo"/>
3552                                                  <enumeration
3553     value="Route"/>
3554                                                </restriction>
3555                                              </simpleType>
3556                                            </element>
3557                                            <element name="DateTime"
3558     type="rm:DateTimeType"
3559                                                minOccurs="0" maxOccurs="1"/>
3560                                            <element name="Location"
3561     type="rm:LocationType"
3562                                                minOccurs="0" maxOccurs="1"/>
3563                                          </sequence>
3564                                        </complexType>
3565                                      </element>
3566                                  </sequence>
3567                              </complexType>
3568                      </element>
3569                  </sequence>
3570          </complexType>
3571      </element>
3572     </schema>
```

3573 A.4 Response To Request Resource Message Schema

```
3574     <schema xmlns="http://www.w3.org/2001/XMLSchema"
3575
3576     targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestRe
3577     source"
3578         xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3579         xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3580         elementFormDefault="qualified"
3581         attributeFormDefault="unqualified">
3582         <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3583     schemaLocation="EDXL-RMCommonTypes.xsd"/>
3584         <!-- This schema describes the structure of EDXL-RM "Response to Request
3585     Resource" messages.-->
3586         <element name="EDXLResourceMessage">
3587             <complexType>
3588                 <sequence>
3589                     <element name="MessageID" type="rm:MessageIDType"/>
3590                     <element name="SentDateTime" type="rm:DateTimeType"/>
3591                     <element name="MessageContentType">
3592                         <simpleType>
3593                             <restriction base="rm:MessageContentTypeType">
3594                                 <enumeration value="Response to Request
3595     Resource"/>
3596                             </restriction>
3597                         </simpleType>
3598                     </element>
```

```
3599                   <element name="MessageDescription"
3600    type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
3601                   <element name="OriginatingMessageID"
3602    type="rm:MessageIDType"/>
3603                   <element name="PrecedingMessageID" type="rm:MessageIDType"/>
3604
3605                   <element name="IncidentInformation"
3606    type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
3607                   <element name="MessageRecall" type="rm:MessageRecallType"
3608    minOccurs="0" maxOccurs="1"/>
3609                   <element name="Funding" type="rm:FundingType" minOccurs="0"
3610    maxOccurs="unbounded"/>
3611                   <element name="ContactInformation"
3612    type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
3613                   <element name="ResourceInformation" minOccurs="1"
3614    maxOccurs="unbounded">
3615                       <complexType>
3616                           <sequence>
3617                               <element name="SequenceNumber"
3618    type="rm:SequenceNumberType"/>
3619                               <element name="ResponseInformation"
3620    type="rm:ResponseInformationType"/>
3621                               <element name="Resource" minOccurs="0"
3622    maxOccurs="1">
3623                                   <complexType>
3624                                       <sequence><!-- One (or more) of first
3625    three elements is required -->
3626                                           <element name="ResourceID"
3627    type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
3628                                           <element name="Name"
3629    type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
3630                                           <element name="TypeStructure"
3631    type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
3632                                           <element name="TypeInfo"
3633    type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
3634                                           <element name="Keyword"
3635    type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
3636                                           <element name="Description"
3637    type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
3638                                           <element name="Credentials"
3639    type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
3640                                           <element name="Certifications"
3641    type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
3642                                           <element name="SpecialRequirements"
3643    type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
3644                                           <element name="ResponsibleParty"
3645    type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
3646                                           <element name="OwnershipInformation"
3647    type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3648                                           <element name="ResourceStatus"
3649    minOccurs="0" maxOccurs="1">
3650                                               <complexType>
3651                                                   <sequence>
3652                                                       <element
3653    name="InventoryRefreshDateTime" type="rm:DateTimeType" minOccurs="0"
3654    maxOccurs="1"/>
```

```
3655                                                          <element
3656    name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
3657                                                          <element
3658    name="Availability" type="rm:AvailabilityType" minOccurs="0" maxOccurs="1"/>
3659                                                      </sequence>
3660                                                  </complexType>
3661                                              </element>
3662                                          </sequence>
3663                                      </complexType>
3664                                  </element>
3665                                  <element name="AssignmentInformation"
3666    minOccurs="0" maxOccurs="1">
3667                                      <complexType>
3668                                          <sequence>
3669                                              <element name="Quantity"
3670    type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
3671                                              <element name="Restrictions"
3672    type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
3673                                              <element name="AnticipatedFunction"
3674    type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3675                                              <element name="PriceQuote"
3676    type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
3677                                              <element
3678    name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
3679    minOccurs="0" maxOccurs="1"/>
3680                                          </sequence>
3681                                      </complexType>
3682                                  </element>
3683                                  <element name="ScheduleInformation" minOccurs="0"
3684    maxOccurs="unbounded">
3685                                      <complexType>
3686                                          <sequence>
3687                                              <element name="ScheduleType">
3688                                                  <simpleType>
3689                                                      <restriction
3690    base="rm:ScheduleTypeType">
3691                                                          <enumeration
3692    value="EstimatedArrival"/>
3693                                                          <enumeration
3694    value="EstimatedDeparture"/>
3695                                                          <enumeration
3696    value="RequestedReturnDeparture"/>
3697                                                          <enumeration
3698    value="RequestedReturnArrival"/>
3699                                                          <enumeration
3700    value="BeginAvailable"/>
3701                                                          <enumeration
3702    value="EndAvailable"/>
3703                                                          <enumeration
3704    value="RequestedArrival"/>
3705                                                          <enumeration
3706    value="RequestedDeparture"/>
3707                                                          <enumeration
3708    value="EstimatedReturnDeparture"/>
3709                                                          <enumeration
3710    value="ReportTo"/>
```

```
3711                                                          <enumeration
3712  value="Route"/>
3713                                                        </restriction>
3714                                                      </simpleType>
3715                                                  </element>
3716                                                  <element name="DateTime"
3717  type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3718                                                  <element name="Location"
3719  type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
3720                                              </sequence>
3721                                          </complexType>
3722                                      </element>
3723                                  </sequence>
3724                              </complexType>
3725                          </element>
3726                      </sequence>
3727                  </complexType>
3728              </element>
3729  </schema>
```

A.5 Requisition Resource Message Schema

```
3731  <schema xmlns="http://www.w3.org/2001/XMLSchema"
3732
3733  targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequisitionResource
3734  "
3735      xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3736      xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3737      elementFormDefault="qualified"
3738      attributeFormDefault="unqualified">
3739      <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3740  schemaLocation="EDXL-RMCommonTypes.xsd"/>
3741      <!-- This schema describes the structure of EDXL-RM "Requisition
3742  Resource" messages.-->
3743      <element name="EDXLResourceMessage">
3744          <complexType>
3745              <sequence>
3746                  <element name="MessageID" type="rm:MessageIDType"/>
3747                  <element name="SentDateTime" type="rm:DateTimeType"/>
3748                  <element name="MessageContentType">
3749                      <simpleType>
3750                          <restriction base="rm:MessageContentTypeType">
3751                              <enumeration value="Requisition Resource"/>
3752                          </restriction>
3753                      </simpleType>
3754                  </element>
3755                  <element name="MessageDescription"
3756  type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
3757                  <element name="OriginatingMessageID"
3758  type="rm:MessageIDType"/>
3759                  <element name="PrecedingMessageID" type="rm:MessageIDType"
3760  minOccurs="0" maxOccurs="1"/>
3761                  <element name="IncidentInformation"
3762  type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
3763                  <element name="MessageRecall" type="rm:MessageRecallType"
3764  minOccurs="0" maxOccurs="1"/>
```

```
3765                        <element name="Funding" type="rm:FundingType" minOccurs="1"
3766   maxOccurs="unbounded"/>
3767                        <element name="ContactInformation"
3768   type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
3769                        <element name="ResourceInformation" minOccurs="1"
3770   maxOccurs="unbounded">
3771                          <complexType>
3772                            <sequence>
3773                              <element name="SequenceNumber"
3774   type="rm:SequenceNumberType"/>
3775                              <element name="Resource">
3776                                <complexType>
3777                                  <sequence><!-- One (or more) of first
3778   three elements is required -->
3779                                    <element name="ResourceID"
3780   type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
3781                                    <element name="Name"
3782   type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
3783                                    <element name="TypeStructure"
3784   type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
3785                                    <element name="TypeInfo"
3786   type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
3787                                    <element name="Keyword"
3788   type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
3789                                    <element name="Description"
3790   type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
3791                                    <element name="Credentials"
3792   type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
3793                                    <element name="Certifications"
3794   type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
3795                                    <element name="SpecialRequirements"
3796   type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
3797                                    <element name="ResponsibleParty"
3798   type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
3799                                    <element name="OwnershipInformation"
3800   type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3801                                  </sequence>
3802                                </complexType>
3803                              </element>
3804                              <element name="AssignmentInformation">
3805                                <complexType>
3806                                  <sequence>
3807                                    <element name="Quantity"
3808   type="rm:QuantityType"/>
3809                                    <element name="Restrictions"
3810   type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
3811                                    <element name="AnticipatedFunction"
3812   type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3813                                    <element name="PriceQuote"
3814   type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
3815                                    <element
3816   name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
3817   minOccurs="0" maxOccurs="1"/>
3818                                  </sequence>
3819                                </complexType>
3820                              </element>
```

```
3821                                         <element name="ScheduleInformation" minOccurs="0"
3822     maxOccurs="unbounded">
3823                                             <complexType>
3824                                                 <sequence>
3825                                                     <element name="ScheduleType">
3826                                                         <simpleType>
3827                                                             <restriction
3828     base="rm:ScheduleTypeType">
3829                                                                 <enumeration
3830     value="EstimatedArrival"/>
3831                                                                 <enumeration
3832     value="EstimatedDeparture"/>
3833                                                                 <enumeration
3834     value="EstimatedReturnDeparture"/>
3835                                                                 <enumeration
3836     value="EstimatedReturnArrival"/>
3837                                                                 <enumeration
3838     value="ReportTo"/>
3839                                                                 <enumeration
3840     value="RequestedArrival"/>
3841                                                                 <enumeration
3842     value="RequestedDeparture"/>
3843                                                                 <enumeration
3844     value="Route"/>
3845                                                             </restriction>
3846                                                         </simpleType>
3847                                                     </element>
3848                                                     <element name="DateTime"
3849     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
3850                                                     <element name="Location"
3851     type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
3852                                                 </sequence>
3853                                             </complexType>
3854                                         </element>
3855                                     </sequence>
3856                                 </complexType>
3857                             </element>
3858                         </sequence>
3859                 </complexType>
3860         </element>
3861     </schema>
```

3862 A.6 Commit Resource Message Schema

```
3863     <schema xmlns="http://www.w3.org/2001/XMLSchema"
3864         targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:CommitResource"
3865         xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3866         xmlns:xsd="http://www.w3.org/2001/XMLSchema"
3867         elementFormDefault="qualified"
3868         attributeFormDefault="unqualified">
3869         <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
3870     schemaLocation="EDXL-RMCommonTypes.xsd"/>
3871         <!-- This schema describes the structure of EDXL-RM "Commit Resource"
3872     messages.-->
3873         <element name="EDXLResourceMessage">
3874             <complexType>
3875                 <sequence>
```

```
3876                    <element name="MessageID" type="rm:MessageIDType"/>
3877                    <element name="SentDateTime" type="rm:DateTimeType"/>
3878                    <element name="MessageContentType">
3879                        <simpleType>
3880                            <restriction base="rm:MessageContentTypeType">
3881                                <enumeration value="Commit Resource"/>
3882                            </restriction>
3883                        </simpleType>
3884                    </element>
3885                    <element name="MessageDescription"
3886     type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
3887                    <element name="OriginatingMessageID"
3888     type="rm:MessageIDType"/>
3889                    <element name="PrecedingMessageID" type="rm:MessageIDType"/>
3890
3891                    <element name="IncidentInformation"
3892     type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
3893                    <element name="MessageRecall" type="rm:MessageRecallType"
3894     minOccurs="0" maxOccurs="1"/>
3895                    <element name="Funding" type="rm:FundingType" minOccurs="0"
3896     maxOccurs="unbounded"/>
3897                    <element name="ContactInformation"
3898     type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
3899                    <element name="ResourceInformation" minOccurs="1"
3900     maxOccurs="unbounded">
3901                        <complexType>
3902                            <sequence>
3903                                <element name="SequenceNumber"
3904     type="rm:SequenceNumberType"/>
3905                                <element name="ResponseInformation"
3906     type="rm:ResponseInformationType"/>
3907                                <element name="Resource" minOccurs="0"
3908     maxOccurs="1">
3909                                    <complexType>
3910                                        <sequence><!-- One (or more) of first
3911     three elements is required -->
3912                                            <element name="ResourceID"
3913     type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
3914                                            <element name="Name"
3915     type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
3916                                            <element name="TypeStructure"
3917     type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
3918                                            <element name="TypeInfo"
3919     type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
3920                                            <element name="Keyword"
3921     type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
3922                                            <element name="Description"
3923     type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
3924                                            <element name="Credentials"
3925     type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
3926                                            <element name="Certifications"
3927     type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
3928                                            <element name="SpecialRequirements"
3929     type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
3930                                            <element name="ResponsibleParty"
3931     type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
```

```
3932                                               <element name="OwnershipInformation"
3933   type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
3934                                               <element name="ResourceStatus"
3935   minOccurs="0" maxOccurs="1">
3936                                                   <complexType>
3937                                                       <sequence>
3938                                                           <element
3939   name="InventoryRefreshDateTime" type="rm:DateTimeType" minOccurs="0"
3940   maxOccurs="1"/>
3941                                                           <element
3942   name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
3943                                                       </sequence>
3944                                                   </complexType>
3945                                               </element>
3946                                           </sequence>
3947                                       </complexType>
3948                                   </element>
3949                                   <element name="AssignmentInformation"
3950   minOccurs="0" maxOccurs="1">
3951                                       <complexType>
3952                                           <sequence>
3953                                               <element name="Quantity"
3954   type="rm:QuantityType"/>
3955                                               <element name="Restrictions"
3956   type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
3957                                               <element name="AnticipatedFunction"
3958   type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
3959                                               <element name="PriceQuote"
3960   type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
3961                                               <element name="OrderID"
3962   type="rm:OrderIDType" minOccurs="0" maxOccurs="1"/>
3963                                               <element
3964   name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
3965   minOccurs="0" maxOccurs="1"/>
3966                                           </sequence>
3967                                       </complexType>
3968                                   </element>
3969                                   <element name="ScheduleInformation" minOccurs="0"
3970   maxOccurs="unbounded">
3971                                       <complexType>
3972                                           <sequence>
3973                                               <element name="ScheduleType">
3974                                                   <simpleType>
3975                                                       <restriction
3976   base="rm:ScheduleTypeType">
3977                                                           <enumeration
3978   value="ActualDeparture"/>
3979                                                           <enumeration
3980   value="Committed"/>
3981                                                           <enumeration
3982   value="RequestedArrival"/>
3983                                                           <enumeration
3984   value="RequestedDeparture"/>
3985                                                           <enumeration
3986   value="EstimatedReturnDeparture"/>
3987                                                           <enumeration
3988   value="RequestedReturnArrival"/>
```

```
3989                                                            <enumeration
3990    value="EstimatedReturnArrival"/>
3991                                                            <enumeration
3992    value="ReportTo"/>
3993                                                            <enumeration
3994    value="EstimatedArrival"/>
3995                                                            <enumeration
3996    value="EstimatedDeparture"/>
3997                                                            <enumeration
3998    value="RequestedReturnDeparture"/>
3999                                                            <enumeration
4000    value="BeginAvailable"/>
4001                                                            <enumeration
4002    value="EndAvailable"/>
4003                                                            <enumeration
4004    value="Route"/>
4005                                                        </restriction>
4006                                                    </simpleType>
4007                                                </element>
4008                                                <element name="DateTime"
4009    type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4010                                                <element name="Location"
4011    type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
4012                                            </sequence>
4013                                        </complexType>
4014                                    </element>
4015                                </sequence>
4016                            </complexType>
4017                        </element>
4018                    </sequence>
4019                </complexType>
4020            </element>
4021    </schema>
```

A.7 Request For Information (RFI) Message Schema

```
4023    <schema xmlns="http://www.w3.org/2001/XMLSchema"
4024
4025    targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestInformation"
4026        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4027        xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4028        elementFormDefault="qualified"
4029        attributeFormDefault="unqualified">
4030        <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4031    schemaLocation="EDXL-RMCommonTypes.xsd"/>
4032        <!-- This schema describes the structure of EDXL-RM "Request Information"
4033    messages.-->
4034        <element name="EDXLResourceMessage">
4035            <complexType>
4036                <sequence>
4037                    <element name="MessageID" type="rm:MessageIDType"/>
4038                    <element name="SentDateTime" type="rm:DateTimeType"/>
4039                    <element name="MessageContentType">
4040                        <simpleType>
4041                            <restriction base="rm:MessageContentTypeType">
4042                                <enumeration value="Request Information"/>
4043                            </restriction>
```

```
4044                     </simpleType>
4045                   </element>
4046                   <element name="MessageDescription"
4047   type="rm:MessageDescriptionType"/>
4048                   <element name="OriginatingMessageID"
4049   type="rm:MessageIDType"/>
4050                   <element name="PrecedingMessageID" type="rm:MessageIDType"
4051   minOccurs="0" maxOccurs="1"/>
4052                   <element name="IncidentInformation"
4053   type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
4054                   <element name="MessageRecall" type="rm:MessageRecallType"
4055   minOccurs="0" maxOccurs="1"/>
4056                   <element name="Funding" type="rm:FundingType" minOccurs="0"
4057   maxOccurs="unbounded"/>
4058                   <element name="ContactInformation"
4059   type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
4060                   <element name="ResourceInformation" minOccurs="0"
4061   maxOccurs="unbounded">
4062                       <complexType>
4063                           <sequence>
4064                               <element name="SequenceNumber"
4065   type="rm:SequenceNumberType"/>
4066                               <element name="Resource" minOccurs="0"
4067   maxOccurs="1">
4068                                   <complexType>
4069                                       <sequence><!-- One (or more) of first
4070   three elements is required -->
4071                                           <element name="ResourceID"
4072   type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
4073                                           <element name="Name"
4074   type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
4075                                           <element name="TypeStructure"
4076   type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4077                                           <element name="TypeInfo"
4078   type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
4079                                           <element name="Keyword"
4080   type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
4081                                           <element name="Description"
4082   type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
4083                                           <element name="Credentials"
4084   type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
4085                                           <element name="Certifications"
4086   type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
4087                                           <element name="SpecialRequirements"
4088   type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4089                                           <element name="ResponsibleParty"
4090   type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
4091                                           <element name="OwnershipInformation"
4092   type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4093                                           <element name="ResourceStatus"
4094   minOccurs="0" maxOccurs="1">
4095                                               <complexType>
4096                                                   <sequence>
4097                                                       <element
4098   name="InventoryRefreshDateTime" type="rm:DateTimeType" minOccurs="0"
4099   maxOccurs="1"/>
```

```
4100                                                    <element
4101   name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4102                                                    <element
4103   name="Availability" type="rm:AvailabilityType" minOccurs="0" maxOccurs="1"/>
4104                                                 </sequence>
4105                                             </complexType>
4106                                         </element>
4107                                     </sequence>
4108                                 </complexType>
4109                             </element>
4110                             <element name="AssignmentInformation"
4111   minOccurs="0" maxOccurs="1">
4112                                 <complexType>
4113                                     <sequence>
4114                                         <element name="Quantity"
4115   type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
4116                                         <element name="Restrictions"
4117   type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
4118                                         <element name="AnticipatedFunction"
4119   type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4120                                         <element name="PriceQuote"
4121   type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
4122                                         <element name="OrderID"
4123   type="rm:OrderIDType" minOccurs="0" maxOccurs="1"/>
4124                                         <element
4125   name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
4126   minOccurs="0" maxOccurs="1"/>
4127                                     </sequence>
4128                                 </complexType>
4129                             </element>
4130                             <element name="ScheduleInformation" minOccurs="0"
4131   maxOccurs="unbounded">
4132                                 <complexType>
4133                                     <sequence>
4134                                         <element name="ScheduleType"
4135   type="rm:ScheduleTypeType"/>
4136                                         <element name="DateTime"
4137   type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4138                                         <element name="Location"
4139   type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
4140                                     </sequence>
4141                                 </complexType>
4142                             </element>
4143                         </sequence>
4144                     </complexType>
4145                 </element>
4146             </sequence>
4147         </complexType>
4148     </element>
4149   </schema>
```

4150 A.8 Response To Request For Information Message Schema

```
4151   <schema xmlns="http://www.w3.org/2001/XMLSchema"
4152
4153   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestIn
4154   formation"
```

```
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 EDXL-RM "Response to Request
4162   Information" messages.-->
4163        <element name="EDXLResourceMessage">
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="Response to Request
4172   Information"/>
4173                            </restriction>
4174                        </simpleType>
4175                    </element>
4176                    <element name="MessageDescription"
4177   type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
4178                    <element name="OriginatingMessageID"
4179   type="rm:MessageIDType"/>
4180                    <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4181
4182                    <element name="IncidentInformation"
4183   type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
4184                    <element name="MessageRecall" type="rm:MessageRecallType"
4185   minOccurs="0" maxOccurs="1"/>
4186                    <element name="Funding" type="rm:FundingType" minOccurs="0"
4187   maxOccurs="unbounded"/>
4188                    <element name="ContactInformation"
4189   type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
4190                    <element name="ResourceInformation" minOccurs="0"
4191   maxOccurs="unbounded">
4192                        <complexType>
4193                            <sequence>
4194                                <element name="SequenceNumber"
4195   type="rm:SequenceNumberType"/>
4196                                <element name="ResponseInformation"
4197   type="rm:ResponseInformationType" minOccurs="0" maxOccurs="1"/>
4198                                <element name="Resource" minOccurs="0"
4199   maxOccurs="1">
4200                                    <complexType>
4201                                        <sequence><!-- One (or more) of first
4202   three elements is required -->
4203                                            <element name="ResourceID"
4204   type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
4205                                            <element name="Name"
4206   type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
4207                                            <element name="TypeStructure"
4208   type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4209                                            <element name="TypeInfo"
4210   type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
```

```
4211                                              <element name="Keyword"
4212    type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
4213                                              <element name="Description"
4214    type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
4215                                              <element name="Credentials"
4216    type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
4217                                              <element name="Certifications"
4218    type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
4219                                              <element name="SpecialRequirements"
4220    type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4221                                              <element name="ResponsibleParty"
4222    type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
4223                                              <element name="OwnershipInformation"
4224    type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4225                                              <element name="ResourceStatus"
4226    minOccurs="0" maxOccurs="1">
4227                                                  <complexType>
4228                                                      <sequence>
4229                                                          <element
4230    name="InventoryRefreshDateTime" type="rm:DateTimeType" minOccurs="0"
4231    maxOccurs="1"/>
4232                                                          <element
4233    name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4234                                                          <element
4235    name="Availability" type="rm:AvailabilityType" minOccurs="0" maxOccurs="1"/>
4236                                                      </sequence>
4237                                                  </complexType>
4238                                              </element>
4239                                          </sequence>
4240                                      </complexType>
4241                                  </element>
4242                                  <element name="AssignmentInformation"
4243    minOccurs="0" maxOccurs="1">
4244                                      <complexType>
4245                                          <sequence>
4246                                              <element name="Quantity"
4247    type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
4248                                              <element name="Restrictions"
4249    type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
4250                                              <element name="AnticipatedFunction"
4251    type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4252                                              <element name="PriceQuote"
4253    type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
4254                                              <element name="OrderID"
4255    type="rm:OrderIDType" minOccurs="0" maxOccurs="1"/>
4256                                              <element
4257    name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
4258    minOccurs="0" maxOccurs="1"/>
4259                                          </sequence>
4260                                      </complexType>
4261                                  </element>
4262                                  <element name="ScheduleInformation" minOccurs="0"
4263    maxOccurs="unbounded">
4264                                      <complexType>
4265                                          <sequence>
4266                                              <element name="ScheduleType"
4267    type="rm:ScheduleTypeType"/>
```

```
4268                                              <element name="DateTime"
4269    type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4270                                              <element name="Location"
4271    type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
4272                                          </sequence>
4273                                      </complexType>
4274                                  </element>
4275                              </sequence>
4276                          </complexType>
4277                      </element>
4278                  </sequence>
4279              </complexType>
4280          </element>
4281    </schema>
```

A.9 Offer Unsolicited Resource Message Schema

```
4283    <schema xmlns="http://www.w3.org/2001/XMLSchema"
4284
4285    targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:OfferUnsolicitedRes
4286    ource"
4287        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4288        xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4289        elementFormDefault="qualified"
4290        attributeFormDefault="unqualified">
4291        <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4292    schemaLocation="EDXL-RMCommonTypes.xsd"/>
4293        <!-- This schema describes the structure of EDXL-RM "Offer Unsolicited
4294    Resource" messages.-->
4295        <element name="EDXLResourceMessage">
4296            <complexType>
4297                <sequence>
4298                    <element name="MessageID" type="rm:MessageIDType"/>
4299                    <element name="SentDateTime" type="rm:DateTimeType"/>
4300                    <element name="MessageContentType">
4301                        <simpleType>
4302                            <restriction base="rm:MessageContentTypeType">
4303                                <enumeration value="Offer Unsolicited Resource"/>
4304                            </restriction>
4305                        </simpleType>
4306                    </element>
4307                    <element name="MessageDescription"
4308    type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
4309                    <element name="OriginatingMessageID"
4310    type="rm:MessageIDType"/>
4311                    <element name="IncidentInformation"
4312    type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
4313                    <element name="MessageRecall" type="rm:MessageRecallType"
4314    minOccurs="0" maxOccurs="1"/>
4315                    <element name="ContactInformation"
4316    type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
4317                    <element name="ResourceInformation" minOccurs="1"
4318    maxOccurs="unbounded">
4319                        <complexType>
4320                            <sequence>
4321                                <element name="SequenceNumber"
4322    type="rm:SequenceNumberType"/>
```

```
4323                              <element name="Resource">
4324                                  <complexType>
4325                                      <sequence><!-- One (or more) of first
4326  three elements is required -->
4327                                          <element name="ResourceID"
4328  type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
4329                                          <element name="Name"
4330  type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
4331                                          <element name="TypeStructure"
4332  type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4333                                          <element name="TypeInfo"
4334  type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
4335                                          <element name="Keyword"
4336  type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
4337                                          <element name="Description"
4338  type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
4339                                          <element name="Credentials"
4340  type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
4341                                          <element name="Certifications"
4342  type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
4343                                          <element name="SpecialRequirements"
4344  type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4345                                          <element name="ResponsibleParty"
4346  type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
4347                                          <element name="OwnershipInformation"
4348  type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4349                                          <element name="ResourceStatus"
4350  minOccurs="0" maxOccurs="1">
4351                                              <complexType>
4352                                                  <sequence>
4353                                                      <element
4354  name="InventoryRefreshDateTime" type="rm:DateTimeType" minOccurs="0"
4355  maxOccurs="1"/>
4356                                                      <element
4357  name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4358                                                      <element
4359  name="Availability" type="rm:AvailabilityType" minOccurs="0" maxOccurs="1"/>
4360                                                  </sequence>
4361                                              </complexType>
4362                                          </element>
4363                                      </sequence>
4364                                  </complexType>
4365                              </element>
4366                              <element name="AssignmentInformation"
4367  minOccurs="0" maxOccurs="1">
4368                                  <complexType>
4369                                      <sequence>
4370                                          <element name="Quantity"
4371  type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
4372                                          <element name="Restrictions"
4373  type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
4374                                          <element name="AnticipatedFunction"
4375  type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4376                                          <element name="PriceQuote"
4377  type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
```

```
4378                                                         <element
4379    name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
4380    minOccurs="0" maxOccurs="1"/>
4381                                                 </sequence>
4382                                             </complexType>
4383                                     </element>
4384                                     <element name="ScheduleInformation" minOccurs="0"
4385    maxOccurs="unbounded">
4386                                             <complexType>
4387                                                 <sequence>
4388                                                     <element name="ScheduleType">
4389                                                         <simpleType>
4390                                                             <restriction
4391    base="rm:ScheduleTypeType">
4392                                                                 <enumeration
4393    value="EstimatedArrival"/>
4394                                                                 <enumeration
4395    value="EstimatedDeparture"/>
4396                                                                 <enumeration
4397    value="RequestedReturnDeparture"/>
4398                                                                 <enumeration
4399    value="RequestedReturnArrival"/>
4400                                                                 <enumeration
4401    value="BeginAvailable"/>
4402                                                                 <enumeration
4403    value="EndAvailable"/>
4404                                                                 <enumeration
4405    value="Route"/>
4406                                                             </restriction>
4407                                                         </simpleType>
4408                                                     </element>
4409                                                     <element name="DateTime"
4410    type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4411                                                     <element name="Location"
4412    type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
4413                                                 </sequence>
4414                                             </complexType>
4415                                     </element>
4416                             </sequence>
4417                         </complexType>
4418                 </element>
4419             </sequence>
4420         </complexType>
4421     </element>
4422    </schema>
```

4423 A.10 Release Resource Message Schema

```
4424    <schema xmlns="http://www.w3.org/2001/XMLSchema"
4425
4426    targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ReleaseResource"
4427        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4428        xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4429        elementFormDefault="qualified"
4430        attributeFormDefault="unqualified">
4431        <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4432    schemaLocation="EDXL-RMCommonTypes.xsd"/>
```

```
4433        <!-- This schema describes the structure of EDXL-RM "Release Resource"
4434   messages.-->
4435        <element name="EDXLResourceMessage">
4436            <complexType>
4437                <sequence>
4438                    <element name="MessageID" type="rm:MessageIDType"/>
4439                    <element name="SentDateTime" type="rm:DateTimeType"/>
4440                    <element name="MessageContentType">
4441                        <simpleType>
4442                            <restriction base="rm:MessageContentTypeType">
4443                                <enumeration value="Release Resource"/>
4444                            </restriction>
4445                        </simpleType>
4446                    </element>
4447                    <element name="MessageDescription"
4448   type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
4449                    <element name="OriginatingMessageID"
4450   type="rm:MessageIDType"/>
4451                    <element name="PrecedingMessageID" type="rm:MessageIDType"
4452   minOccurs="0" maxOccurs="1"/>
4453                    <element name="IncidentInformation"
4454   type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
4455                    <element name="MessageRecall" type="rm:MessageRecallType"
4456   minOccurs="0" maxOccurs="1"/>
4457                    <element name="Funding" type="rm:FundingType" minOccurs="0"
4458   maxOccurs="unbounded"/>
4459                    <element name="ContactInformation"
4460   type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
4461                    <element name="ResourceInformation" minOccurs="1"
4462   maxOccurs="unbounded">
4463                        <complexType>
4464                            <sequence>
4465                                <element name="SequenceNumber"
4466   type="rm:SequenceNumberType"/>
4467                                <element name="ResponseInformation"
4468   type="rm:ResponseInformationType" minOccurs="0" maxOccurs="1"/>
4469                                <element name="Resource">
4470                                    <complexType>
4471                                        <sequence><!-- One (or more) of first
4472   three elements is required -->
4473                                            <element name="ResourceID"
4474   type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
4475                                            <element name="Name"
4476   type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
4477                                            <element name="TypeStructure"
4478   type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4479                                            <element name="TypeInfo"
4480   type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
4481                                            <element name="Keyword"
4482   type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
4483                                            <element name="Description"
4484   type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
4485                                            <element name="Credentials"
4486   type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
4487                                            <element name="Certifications"
4488   type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
```

```
4489                                                    <element name="SpecialRequirements"
4490    type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4491                                                    <element name="ResponsibleParty"
4492    type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
4493                                                    <element name="OwnershipInformation"
4494    type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4495                                                    <element name="ResourceStatus"
4496    minOccurs="0" maxOccurs="1">
4497                                                        <complexType>
4498                                                            <sequence>
4499                                                                <element
4500    name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4501                                                                <element
4502    name="Availability" type="rm:AvailabilityType" minOccurs="0" maxOccurs="1"/>
4503                                                            </sequence>
4504                                                        </complexType>
4505                                                    </element>
4506                                                </sequence>
4507                                            </complexType>
4508                                        </element>
4509                                        <element name="AssignmentInformation"
4510    minOccurs="0" maxOccurs="1">
4511                                            <complexType>
4512                                                <sequence>
4513                                                    <element name="Quantity"
4514    type="rm:QuantityType"/>
4515                                                    <element name="Restrictions"
4516    type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
4517                                                    <element name="AnticipatedFunction"
4518    type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4519                                                    <element name="PriceQuote"
4520    type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
4521                                                    <element name="OrderID"
4522    type="rm:OrderIDType" minOccurs="0" maxOccurs="1"/>
4523                                                    <element
4524    name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
4525    minOccurs="0" maxOccurs="1"/>
4526                                                </sequence>
4527                                            </complexType>
4528                                        </element>
4529                                        <element name="ScheduleInformation" minOccurs="0"
4530    maxOccurs="unbounded">
4531                                            <complexType>
4532                                                <sequence>
4533                                                    <element name="ScheduleType">
4534                                                        <simpleType>
4535                                                            <restriction
4536    base="rm:ScheduleTypeType">
4537                                                                <enumeration
4538    value="ActualReturnDeparture"/>
4539                                                                <enumeration
4540    value="Current"/>
4541                                                                <enumeration
4542    value="RequestedArrival"/>
4543                                                                <enumeration
4544    value="EstimatedArrival"/>
```

```
4545                                                        <enumeration
4546     value="ActualArrival"/>
4547                                                        <enumeration
4548     value="RequestedDeparture"/>
4549                                                        <enumeration
4550     value="EstimatedDeparture"/>
4551                                                        <enumeration
4552     value="ActualDeparture"/>
4553                                                        <enumeration
4554     value="RequestedReturnDeparture"/>
4555                                                        <enumeration
4556     value="RequestedReturnArrival"/>
4557                                                        <enumeration
4558     value="BeginAvailable"/>
4559                                                        <enumeration
4560     value="EndAvailable"/>
4561                                                        <enumeration
4562     value="Committed"/>
4563                                                        <enumeration
4564     value="ReportTo"/>
4565                                                        <enumeration
4566     value="EstimatedReturnDeparture"/>
4567                                                        <enumeration
4568     value="EstimatedReturnArrival"/>
4569                                                        <enumeration
4570     value="Route"/>
4571                                                    </restriction>
4572                                                </simpleType>
4573                                            </element>
4574                                            <element name="DateTime"
4575     type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4576                                            <element name="Location"
4577     type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
4578                                        </sequence>
4579                                    </complexType>
4580                                </element>
4581                            </sequence>
4582                        </complexType>
4583                    </element>
4584                </sequence>
4585            </complexType>
4586        </element>
4587    </schema>
```

A.11 Request Return Message Schema

```
4589    <schema xmlns="http://www.w3.org/2001/XMLSchema"
4590        targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestReturn"
4591        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4592        xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4593        elementFormDefault="qualified"
4594        attributeFormDefault="unqualified">
4595        <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4596    schemaLocation="EDXL-RMCommonTypes.xsd"/>
4597        <!-- This schema describes the structure of EDXL-RM "Request Return"
4598    messages.-->
4599        <element name="EDXLResourceMessage">
```

```
4600            <complexType>
4601                <sequence>
4602                    <element name="MessageID" type="rm:MessageIDType"/>
4603                    <element name="SentDateTime" type="rm:DateTimeType"/>
4604                    <element name="MessageContentType">
4605                        <simpleType>
4606                            <restriction base="rm:MessageContentTypeType">
4607                                <enumeration value="Request Return"/>
4608                            </restriction>
4609                        </simpleType>
4610                    </element>
4611                    <element name="MessageDescription"
4612    type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
4613                    <element name="OriginatingMessageID"
4614    type="rm:MessageIDType"/>
4615                    <element name="PrecedingMessageID" type="rm:MessageIDType"
4616    minOccurs="0" maxOccurs="1"/>
4617                    <element name="IncidentInformation"
4618    type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
4619                    <element name="MessageRecall" type="rm:MessageRecallType"
4620    minOccurs="0" maxOccurs="1"/>
4621                    <element name="Funding" type="rm:FundingType" minOccurs="0"
4622    maxOccurs="unbounded"/>
4623                    <element name="ContactInformation"
4624    type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
4625                    <element name="ResourceInformation" minOccurs="1"
4626    maxOccurs="unbounded">
4627                        <complexType>
4628                            <sequence>
4629                                <element name="SequenceNumber"
4630    type="rm:SequenceNumberType"/>
4631                                <element name="Resource">
4632                                    <complexType>
4633                                        <sequence><!-- One (or more) of first
4634    three elements is required -->
4635                                            <element name="ResourceID"
4636    type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
4637                                            <element name="Name"
4638    type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
4639                                            <element name="TypeStructure"
4640    type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4641                                            <element name="TypeInfo"
4642    type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
4643                                            <element name="Keyword"
4644    type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
4645                                            <element name="Description"
4646    type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
4647                                            <element name="Credentials"
4648    type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
4649                                            <element name="Certifications"
4650    type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
4651                                            <element name="SpecialRequirements"
4652    type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4653                                            <element name="ResponsibleParty"
4654    type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
4655                                            <element name="OwnershipInformation"
4656    type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
```

```
4657                                                  <element name="ResourceStatus"
4658    minOccurs="0" maxOccurs="1">
4659                                                      <complexType>
4660                                                          <sequence>
4661                                                              <element
4662    name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4663                                                              <element
4664    name="Availability" type="rm:AvailabilityType" minOccurs="0" maxOccurs="1"/>
4665                                                          </sequence>
4666                                                      </complexType>
4667                                                  </element>
4668                                              </sequence>
4669                                          </complexType>
4670                                      </element>
4671                                      <element name="AssignmentInformation"
4672    minOccurs="0" maxOccurs="1">
4673                                          <complexType>
4674                                              <sequence>
4675                                                  <element name="Quantity"
4676    type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
4677                                                  <element name="Restrictions"
4678    type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
4679                                                  <element name="AnticipatedFunction"
4680    type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4681                                                  <element name="PriceQuote"
4682    type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
4683                                                  <element name="OrderID"
4684    type="rm:OrderIDType" minOccurs="0" maxOccurs="1"/>
4685                                                  <element
4686    name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
4687    minOccurs="0" maxOccurs="1"/>
4688                                              </sequence>
4689                                          </complexType>
4690                                      </element>
4691                                      <element name="ScheduleInformation" minOccurs="0"
4692    maxOccurs="unbounded">
4693                                          <complexType>
4694                                              <sequence>
4695                                                  <element name="ScheduleType">
4696                                                      <simpleType>
4697                                                          <restriction
4698    base="rm:ScheduleTypeType">
4699                                                              <enumeration
4700    value="RequestedArrival"/>
4701                                                              <enumeration
4702    value="EstimatedArrival"/>
4703                                                              <enumeration
4704    value="ActualArrival"/>
4705                                                              <enumeration
4706    value="RequestedDeparture"/>
4707                                                              <enumeration
4708    value="EstimatedDeparture"/>
4709                                                              <enumeration
4710    value="ActualDeparture"/>
4711                                                              <enumeration
4712    value="RequestedReturnDeparture"/>
```

```
4713                                                                <enumeration
4714    value="RequestedReturnArrival"/>
4715                                                                <enumeration
4716    value="BeginAvailable"/>
4717                                                                <enumeration
4718    value="EndAvailable"/>
4719                                                                <enumeration
4720    value="Committed"/>
4721                                                                <enumeration
4722    value="ReportTo"/>
4723                                                                <enumeration
4724    value="Route"/>
4725                                                            </restriction>
4726                                                        </simpleType>
4727                                                    </element>
4728                                                    <element name="DateTime"
4729    type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4730                                                    <element name="Location"
4731    type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
4732                                                </sequence>
4733                                            </complexType>
4734                                        </element>
4735                                </sequence>
4736                            </complexType>
4737                    </element>
4738                </sequence>
4739            </complexType>
4740        </element>
4741    </schema>
```

4742 A.12 Response To Request Return Message Schema

```
4743    <schema xmlns="http://www.w3.org/2001/XMLSchema"
4744
4745    targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestRe
4746    turn"
4747        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4748        xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4749        elementFormDefault="qualified"
4750        attributeFormDefault="unqualified">
4751        <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4752    schemaLocation="EDXL-RMCommonTypes.xsd"/>
4753        <!-- This schema describes the structure of EDXL-RM "Response To Request
4754    Return" messages.-->
4755        <element name="EDXLResourceMessage">
4756            <complexType>
4757                <sequence>
4758                    <element name="MessageID" type="rm:MessageIDType"/>
4759                    <element name="SentDateTime" type="rm:DateTimeType"/>
4760                    <element name="MessageContentType">
4761                        <simpleType>
4762                            <restriction base="rm:MessageContentTypeType">
4763                                <enumeration value="Response to Request Return"/>
4764                            </restriction>
4765                        </simpleType>
4766                    </element>
```

```
4767                    <element name="MessageDescription"
4768    type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
4769                    <element name="OriginatingMessageID"
4770    type="rm:MessageIDType"/>
4771                    <element name="PrecedingMessageID" type="rm:MessageIDType"/>
4772
4773                    <element name="IncidentInformation"
4774    type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
4775                    <element name="MessageRecall" type="rm:MessageRecallType"
4776    minOccurs="0" maxOccurs="1"/>
4777                    <element name="Funding" type="rm:FundingType" minOccurs="0"
4778    maxOccurs="unbounded"/>
4779                    <element name="ContactInformation"
4780    type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
4781                    <element name="ResourceInformation" minOccurs="1"
4782    maxOccurs="unbounded">
4783                        <complexType>
4784                            <sequence>
4785                                <element name="SequenceNumber"
4786    type="rm:SequenceNumberType"/>
4787                                <element name="ResponseInformation"
4788    type="rm:ResponseInformationType"/>
4789                                <element name="Resource" minOccurs="0"
4790    maxOccurs="1">
4791                                    <complexType>
4792                                        <sequence><!-- One (or more) of first
4793    three elements is required -->
4794                                            <element name="ResourceID"
4795    type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
4796                                            <element name="Name"
4797    type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
4798                                            <element name="TypeStructure"
4799    type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4800                                            <element name="TypeInfo"
4801    type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
4802                                            <element name="Keyword"
4803    type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
4804                                            <element name="Description"
4805    type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
4806                                            <element name="Credentials"
4807    type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
4808                                            <element name="Certifications"
4809    type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
4810                                            <element name="SpecialRequirements"
4811    type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4812                                            <element name="ResponsibleParty"
4813    type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
4814                                            <element name="OwnershipInformation"
4815    type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4816                                            <element name="ResourceStatus">
4817                                                <complexType>
4818                                                    <sequence>
4819                                                        <element
4820    name="DeploymentStatus" type="rm:ValueListType"/>
4821                                                        <element
4822    name="Availability" type="rm:AvailabilityType"/>
4823                                                    </sequence>
```

```
4824                                                    </complexType>
4825                                                </element>
4826                                            </sequence>
4827                                        </complexType>
4828                                    </element>
4829                                    <element name="AssignmentInformation"
4830    minOccurs="0" maxOccurs="1">
4831                                        <complexType>
4832                                            <sequence>
4833                                                <element name="Quantity"
4834    type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
4835                                                <element name="Restrictions"
4836    type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
4837                                                <element name="AnticipatedFunction"
4838    type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
4839                                                <element name="PriceQuote"
4840    type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
4841                                                <element name="OrderID"
4842    type="rm:OrderIDType" minOccurs="0" maxOccurs="1"/>
4843                                                <element
4844    name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
4845    minOccurs="0" maxOccurs="1"/>
4846                                            </sequence>
4847                                        </complexType>
4848                                    </element>
4849                                    <element name="ScheduleInformation" minOccurs="0"
4850    maxOccurs="unbounded">
4851                                        <complexType>
4852                                            <sequence>
4853                                                <element name="ScheduleType">
4854                                                    <simpleType>
4855                                                        <restriction
4856    base="rm:ScheduleTypeType">
4857                                                            <enumeration
4858    value="ActualReturnDeparture"/>
4859                                                            <enumeration
4860    value="RequestedArrival"/>
4861                                                            <enumeration
4862    value="EstimatedArrival"/>
4863                                                            <enumeration
4864    value="ActualArrival"/>
4865                                                            <enumeration
4866    value="RequestedDeparture"/>
4867                                                            <enumeration
4868    value="EstimatedDeparture"/>
4869                                                            <enumeration
4870    value="ActualDeparture"/>
4871                                                            <enumeration
4872    value="RequestedReturnDeparture"/>
4873                                                            <enumeration
4874    value="RequestedReturnArrival"/>
4875                                                            <enumeration
4876    value="BeginAvailable"/>
4877                                                            <enumeration
4878    value="EndAvailable"/>
4879                                                            <enumeration
4880    value="Committed"/>
```

```
4881                                                              <enumeration
4882    value="ReportTo"/>
4883                                                              <enumeration
4884    value="EstimatedReturnDeparture"/>
4885                                                              <enumeration
4886    value="EstimatedReturnArrival"/>
4887                                                              <enumeration
4888    value="Route"/>
4889                                                          </restriction>
4890                                                      </simpleType>
4891                                                  </element>
4892                                              <element name="DateTime"
4893    type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
4894                                              <element name="Location"
4895    type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
4896                                          </sequence>
4897                                      </complexType>
4898                                  </element>
4899                              </sequence>
4900                          </complexType>
4901                      </element>
4902                  </sequence>
4903              </complexType>
4904          </element>
4905    </schema>
```

A.13 Request Quote Message Schema

```
4906
4907    <schema xmlns="http://www.w3.org/2001/XMLSchema"
4908        targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestQuote"
4909        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4910        xmlns:xsd="http://www.w3.org/2001/XMLSchema"
4911        elementFormDefault="qualified"
4912        attributeFormDefault="unqualified">
4913        <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
4914    schemaLocation="EDXL-RMCommonTypes.xsd"/>
4915        <!-- This schema describes the structure of EDXL-RM "Request Quote"
4916    messages.-->
4917        <element name="EDXLResourceMessage">
4918            <complexType>
4919                <sequence>
4920                    <element name="MessageID" type="rm:MessageIDType"/>
4921                    <element name="SentDateTime" type="rm:DateTimeType"/>
4922                    <element name="MessageContentType">
4923                        <simpleType>
4924                            <restriction base="rm:MessageContentTypeType">
4925                                <enumeration value="Request Quote"/>
4926                            </restriction>
4927                        </simpleType>
4928                    </element>
4929                    <element name="MessageDescription"
4930    type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
4931                    <element name="OriginatingMessageID"
4932    type="rm:MessageIDType"/>
4933                    <element name="PrecedingMessageID" type="rm:MessageIDType"
4934    minOccurs="0" maxOccurs="1"/>
```

```
4935                    <element name="IncidentInformation"
4936    type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
4937                    <element name="MessageRecall" type="rm:MessageRecallType"
4938    minOccurs="0" maxOccurs="1"/>
4939                    <element name="Funding" type="rm:FundingType" minOccurs="0"
4940    maxOccurs="unbounded"/>
4941                    <element name="ContactInformation"
4942    type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
4943                    <element name="ResourceInformation" minOccurs="1"
4944    maxOccurs="unbounded">
4945                        <complexType>
4946                            <sequence>
4947                                <element name="SequenceNumber"
4948    type="rm:SequenceNumberType"/>
4949                                <element name="ResponseInformation"
4950    type="rm:ResponseInformationType" minOccurs="0" maxOccurs="1"/>
4951                                <element name="Resource">
4952                                    <complexType>
4953                                        <sequence><!-- One (or more) of first
4954    three elements is required -->
4955                                            <element name="ResourceID"
4956    type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
4957                                            <element name="Name"
4958    type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
4959                                            <element name="TypeStructure"
4960    type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
4961                                            <element name="TypeInfo"
4962    type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
4963                                            <element name="Keyword"
4964    type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
4965                                            <element name="Description"
4966    type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
4967                                            <element name="Credentials"
4968    type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
4969                                            <element name="Certifications"
4970    type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
4971                                            <element name="SpecialRequirements"
4972    type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
4973                                            <element name="ResponsibleParty"
4974    type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
4975                                            <element name="OwnershipInformation"
4976    type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
4977                                        </sequence>
4978                                    </complexType>
4979                                </element>
4980                                <element name="AssignmentInformation"
4981    minOccurs="0" maxOccurs="1">
4982                                    <complexType>
4983                                        <sequence>
4984                                            <element name="Quantity"
4985    type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
4986                                            <element name="Restrictions"
4987    type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
4988                                            <element name="AnticipatedFunction"
4989    type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
```

```
4990                                              <element
4991    name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
4992    minOccurs="0" maxOccurs="1"/>
4993                                       </sequence>
4994                                    </complexType>
4995                               </element>
4996                               <element name="ScheduleInformation" minOccurs="0"
4997    maxOccurs="unbounded">
4998                                    <complexType>
4999                                       <sequence>
5000                                          <element name="ScheduleType">
5001                                             <simpleType>
5002                                                <restriction
5003    base="rm:ScheduleTypeType">
5004                                                   <enumeration
5005    value="RequestedArrival"/>
5006                                                   <enumeration
5007    value="RequestedDeparture"/>
5008                                                   <enumeration
5009    value="EstimatedReturnDeparture"/>
5010                                                   <enumeration
5011    value="EstimatedReturnArrival"/>
5012                                                   <enumeration
5013    value="ReportTo"/>
5014                                                   <enumeration
5015    value="Route"/>
5016                                                </restriction>
5017                                             </simpleType>
5018                                          </element>
5019                                          <element name="DateTime"
5020    type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5021                                          <element name="Location"
5022    type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
5023                                       </sequence>
5024                                    </complexType>
5025                               </element>
5026                           </sequence>
5027                        </complexType>
5028                    </element>
5029             </sequence>
5030          </complexType>
5031       </element>
5032    </schema>
```

A.14 Response to Request Quote Message Schema

```
5034    <schema xmlns="http://www.w3.org/2001/XMLSchema"
5035
5036    targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestQu
5037    ote"
5038       xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5039       xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5040       elementFormDefault="qualified"
5041       attributeFormDefault="unqualified">
5042       <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5043    schemaLocation="EDXL-RMCommonTypes.xsd"/>
```

```
5044        <!-- This schema describes the structure of EDXL-RM "Response to Request
5045   Quote" messages.-->
5046        <element name="EDXLResourceMessage">
5047            <complexType>
5048                <sequence>
5049                    <element name="MessageID" type="rm:MessageIDType"/>
5050                    <element name="SentDateTime" type="rm:DateTimeType"/>
5051                    <element name="MessageContentType">
5052                        <simpleType>
5053                            <restriction base="rm:MessageContentTypeType">
5054                                <enumeration value="Response to Request Quote"/>
5055                            </restriction>
5056                        </simpleType>
5057                    </element>
5058                    <element name="MessageDescription"
5059   type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
5060                    <element name="OriginatingMessageID"
5061   type="rm:MessageIDType"/>
5062                    <element name="PrecedingMessageID" type="rm:MessageIDType"/>
5063
5064                    <element name="IncidentInformation"
5065   type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
5066                    <element name="MessageRecall" type="rm:MessageRecallType"
5067   minOccurs="0" maxOccurs="1"/>
5068                    <element name="Funding" type="rm:FundingType" minOccurs="0"
5069   maxOccurs="unbounded"/>
5070                    <element name="ContactInformation"
5071   type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
5072                    <element name="ResourceInformation" minOccurs="1"
5073   maxOccurs="unbounded">
5074                        <complexType>
5075                            <sequence>
5076                                <element name="SequenceNumber"
5077   type="rm:SequenceNumberType"/>
5078                                <element name="ResponseInformation"
5079   type="rm:ResponseInformationType"/>
5080                                <element name="Resource" minOccurs="0"
5081   maxOccurs="1">
5082                                    <complexType>
5083                                        <sequence><!-- One (or more) of first
5084   three elements is required -->
5085                                            <element name="ResourceID"
5086   type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
5087                                            <element name="Name"
5088   type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
5089                                            <element name="TypeStructure"
5090   type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
5091                                            <element name="TypeInfo"
5092   type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
5093                                            <element name="Keyword"
5094   type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
5095                                            <element name="Description"
5096   type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
5097                                            <element name="Credentials"
5098   type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
5099                                            <element name="Certifications"
5100   type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
```

```
5101                                                     <element name="SpecialRequirements"
5102   type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5103                                                     <element name="ResponsibleParty"
5104   type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
5105                                                     <element name="OwnershipInformation"
5106   type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5107                                                     <element name="ResourceStatus"
5108   minOccurs="0" maxOccurs="1">
5109                                                         <complexType>
5110                                                             <sequence>
5111                                                                 <element
5112   name="InventoryRefreshDateTime" type="rm:DateTimeType" minOccurs="0"
5113   maxOccurs="1"/>
5114                                                                 <element
5115   name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
5116                                                                 <element
5117   name="Availability" type="rm:AvailabilityType" minOccurs="0" maxOccurs="1"/>
5118                                                             </sequence>
5119                                                         </complexType>
5120                                                     </element>
5121                                                 </sequence>
5122                                             </complexType>
5123                                         </element>
5124                                         <element name="AssignmentInformation"
5125   minOccurs="0" maxOccurs="1">
5126                                             <complexType>
5127                                                 <sequence>
5128                                                     <element name="Quantity"
5129   type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
5130                                                     <element name="Restrictions"
5131   type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
5132                                                     <element name="AnticipatedFunction"
5133   type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5134                                                     <element name="PriceQuote"
5135   type="rm:PriceQuoteType"/>
5136                                                     <element
5137   name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
5138   minOccurs="0" maxOccurs="1"/>
5139                                                 </sequence>
5140                                             </complexType>
5141                                         </element>
5142                                         <element name="ScheduleInformation" minOccurs="0"
5143   maxOccurs="unbounded">
5144                                             <complexType>
5145                                                 <sequence>
5146                                                     <element name="ScheduleType">
5147                                                         <simpleType>
5148                                                             <restriction
5149   base="rm:ScheduleTypeType">
5150                                                                 <enumeration
5151   value="EstimatedArrival"/>
5152                                                                 <enumeration
5153   value="EstimatedDeparture"/>
5154                                                                 <enumeration
5155   value="RequestedReturnDeparture"/>
5156                                                                 <enumeration
5157   value="RequestedReturnArrival"/>
```

```
5158                                                              <enumeration
5159    value="BeginAvailable"/>
5160                                                              <enumeration
5161    value="EndAvailable"/>
5162                                                              <enumeration
5163    value="RequestedArrival"/>
5164                                                              <enumeration
5165    value="RequestedDeparture"/>
5166                                                              <enumeration
5167    value="EstimatedReturnDeparture"/>
5168                                                              <enumeration
5169    value="EstimatedReturnArrival"/>
5170                                                              <enumeration
5171    value="ReportTo"/>
5172                                                              <enumeration
5173    value="Route"/>
5174                                                          </restriction>
5175                                                      </simpleType>
5176                                                  </element>
5177                                              <element name="DateTime"
5178    type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5179                                              <element name="Location"
5180    type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
5181                                          </sequence>
5182                                      </complexType>
5183                                  </element>
5184                              </sequence>
5185                          </complexType>
5186                      </element>
5187              </sequence>
5188          </complexType>
5189      </element>
5190    </schema>
```

A.15 Request Resource Deployment Status Message Schema

```
5192    <schema xmlns="http://www.w3.org/2001/XMLSchema"
5193
5194    targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestResourceDepl
5195    oymentStatus"
5196        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5197        xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5198        elementFormDefault="qualified"
5199        attributeFormDefault="unqualified">
5200        <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5201    schemaLocation="EDXL-RMCommonTypes.xsd"/>
5202        <!-- This schema describes the structure of EDXL-RM "Request Resource
5203    Deployment Status" messages.-->
5204        <element name="EDXLResourceMessage">
5205            <complexType>
5206                <sequence>
5207                    <element name="MessageID" type="rm:MessageIDType"/>
5208                    <element name="SentDateTime" type="rm:DateTimeType"/>
5209                    <element name="MessageContentType">
5210                        <simpleType>
5211                            <restriction base="rm:MessageContentTypeType">
```

```
5212                                     <enumeration value="Request Resource Deployment
5213    Status"/>
5214                               </restriction>
5215                           </simpleType>
5216                     </element>
5217                     <element name="MessageDescription"
5218    type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
5219                     <element name="OriginatingMessageID"
5220    type="rm:MessageIDType"/>
5221                     <element name="PrecedingMessageID" type="rm:MessageIDType"
5222    minOccurs="0" maxOccurs="1"/>
5223                     <element name="IncidentInformation"
5224    type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
5225                     <element name="MessageRecall" type="rm:MessageRecallType"
5226    minOccurs="0" maxOccurs="1"/>
5227                     <element name="Funding" type="rm:FundingType" minOccurs="0"
5228    maxOccurs="unbounded"/>
5229                     <element name="ContactInformation"
5230    type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
5231                     <element name="ResourceInformation" minOccurs="1"
5232    maxOccurs="unbounded">
5233                         <complexType>
5234                             <sequence>
5235                                 <element name="SequenceNumber"
5236    type="rm:SequenceNumberType"/>
5237                                 <element name="Resource">
5238                                     <complexType>
5239                                         <sequence><!-- One (or more) of first
5240    three elements is required -->
5241                                             <element name="ResourceID"
5242    type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
5243                                             <element name="Name"
5244    type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
5245                                             <element name="TypeStructure"
5246    type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
5247                                             <element name="TypeInfo"
5248    type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
5249                                             <element name="Keyword"
5250    type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
5251                                             <element name="Description"
5252    type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
5253                                             <element name="Credentials"
5254    type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
5255                                             <element name="Certifications"
5256    type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
5257                                             <element name="SpecialRequirements"
5258    type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5259                                             <element name="ResponsibleParty"
5260    type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
5261                                             <element name="OwnershipInformation"
5262    type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5263                                         </sequence>
5264                                     </complexType>
5265                                 </element>
5266                                 <element name="AssignmentInformation"
5267    minOccurs="0" maxOccurs="1">
5268                                     <complexType>
```

```
5269                                                   <sequence>
5270                                                     <element name="Quantity"
5271     type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
5272                                                     <element name="Restrictions"
5273     type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
5274                                                     <element name="AnticipatedFunction"
5275     type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5276                                                     <element name="PriceQuote"
5277     type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
5278                                                     <element name="OrderID"
5279     type="rm:OrderIDType" minOccurs="0" maxOccurs="1"/>
5280                                                     <element
5281     name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
5282     minOccurs="0" maxOccurs="1"/>
5283                                                   </sequence>
5284                                               </complexType>
5285                                           </element>
5286                                           <element name="ScheduleInformation" minOccurs="0"
5287     maxOccurs="unbounded">
5288                                               <complexType>
5289                                                   <sequence>
5290                                                     <element name="ScheduleType">
5291                                                         <simpleType>
5292                                                             <restriction
5293     base="rm:ScheduleTypeType">
5294                                                                 <enumeration
5295     value="RequestedArrival"/>
5296                                                                 <enumeration
5297     value="EstimatedArrival"/>
5298                                                                 <enumeration
5299     value="ActualArrival"/>
5300                                                                 <enumeration
5301     value="RequestedDeparture"/>
5302                                                                 <enumeration
5303     value="EstimatedDeparture"/>
5304                                                                 <enumeration
5305     value="ActualDeparture"/>
5306                                                                 <enumeration
5307     value="RequestedReturnDeparture"/>
5308                                                                 <enumeration
5309     value="EstimatedReturnDeparture"/>
5310                                                                 <enumeration
5311     value="ActualReturnDeparture"/>
5312                                                                 <enumeration
5313     value="RequestedReturnArrival"/>
5314                                                                 <enumeration
5315     value="EstimatedReturnArrival"/>
5316                                                                 <enumeration
5317     value="ActualReturnArrival"/>
5318                                                                 <enumeration
5319     value="BeginAvailable"/>
5320                                                                 <enumeration
5321     value="EndAvailable"/>
5322                                                                 <enumeration
5323     value="Committed"/>
5324                                                                 <enumeration
5325     value="ReportTo"/>
```

```
5326                                                   <enumeration
5327    value="Route"/>
5328                                                   </restriction>
5329                                               </simpleType>
5330                                           </element>
5331                                           <element name="DateTime"
5332    type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5333                                           <element name="Location"
5334    type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
5335                                       </sequence>
5336                                   </complexType>
5337                               </element>
5338                           </sequence>
5339                       </complexType>
5340                   </element>
5341               </sequence>
5342           </complexType>
5343       </element>
5344    </schema>
```

A.16 Report Resource Deployment Status Message Schema

```
5346    <schema xmlns="http://www.w3.org/2001/XMLSchema"
5347
5348    targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ReportResourceDeplo
5349    ymentStatus"
5350        xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5351        xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5352        elementFormDefault="qualified"
5353        attributeFormDefault="unqualified">
5354        <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5355    schemaLocation="EDXL-RMCommonTypes.xsd"/>
5356        <!-- This schema describes the structure of EDXL-RM "Report Resource
5357    Deployment Status" messages.-->
5358        <element name="EDXLResourceMessage">
5359            <complexType>
5360                <sequence>
5361                    <element name="MessageID" type="rm:MessageIDType"/>
5362                    <element name="SentDateTime" type="rm:DateTimeType"/>
5363                    <element name="MessageContentType">
5364                        <simpleType>
5365                            <restriction base="rm:MessageContentTypeType">
5366                                <enumeration value="Report Resource Deployment
5367    Status"/>
5368                            </restriction>
5369                        </simpleType>
5370                    </element>
5371                    <element name="MessageDescription"
5372    type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
5373                    <element name="OriginatingMessageID"
5374    type="rm:MessageIDType"/>
5375                    <element name="PrecedingMessageID" type="rm:MessageIDType"
5376    minOccurs="0" maxOccurs="1"/>
5377                    <element name="IncidentInformation"
5378    type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
5379                    <element name="MessageRecall" type="rm:MessageRecallType"
5380    minOccurs="0" maxOccurs="1"/>
```

```
5381                     <element name="Funding" type="rm:FundingType" minOccurs="0"
5382   maxOccurs="unbounded"/>
5383                     <element name="ContactInformation"
5384   type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
5385                     <element name="ResourceInformation" minOccurs="1"
5386   maxOccurs="unbounded">
5387                         <complexType>
5388                             <sequence>
5389                                 <element name="SequenceNumber"
5390   type="rm:SequenceNumberType"/>
5391                                 <element name="ResponseInformation"
5392   type="rm:ResponseInformationType" minOccurs="0" maxOccurs="1"/>
5393                                 <element name="Resource" minOccurs="0"
5394   maxOccurs="1">
5395                                     <complexType>
5396                                         <sequence><!-- One (or more) of first
5397   three elements is required -->
5398                                             <element name="ResourceID"
5399   type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
5400                                             <element name="Name"
5401   type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
5402                                             <element name="TypeStructure"
5403   type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
5404                                             <element name="TypeInfo"
5405   type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
5406                                             <element name="Keyword"
5407   type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
5408                                             <element name="Description"
5409   type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
5410                                             <element name="Credentials"
5411   type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
5412                                             <element name="Certifications"
5413   type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
5414                                             <element name="SpecialRequirements"
5415   type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5416                                             <element name="ResponsibleParty"
5417   type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
5418                                             <element name="OwnershipInformation"
5419   type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5420                                             <element name="ResourceStatus"
5421   minOccurs="0" maxOccurs="1">
5422                                                 <complexType>
5423                                                     <sequence>
5424                                                         <element
5425   name="InventoryRefreshDateTime" type="rm:DateTimeType" minOccurs="0"
5426   maxOccurs="1"/>
5427                                                         <element
5428   name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
5429                                                         <element
5430   name="Availability" type="rm:AvailabilityType" minOccurs="0" maxOccurs="1"/>
5431                                                     </sequence>
5432                                                 </complexType>
5433                                             </element>
5434                                         </sequence>
5435                                     </complexType>
5436                                 </element>
```

```
5437                                    <element name="AssignmentInformation"
5438   minOccurs="0" maxOccurs="1">
5439                                         <complexType>
5440                                             <sequence>
5441                                                 <element name="Quantity"
5442   type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
5443                                                 <element name="Restrictions"
5444   type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
5445                                                 <element name="AnticipatedFunction"
5446   type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5447                                                 <element name="PriceQuote"
5448   type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
5449                                                 <element name="OrderID"
5450   type="rm:OrderIDType" minOccurs="0" maxOccurs="1"/>
5451                                                 <element
5452   name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
5453   minOccurs="0" maxOccurs="1"/>
5454                                             </sequence>
5455                                         </complexType>
5456                                     </element>
5457                                     <element name="ScheduleInformation" minOccurs="0"
5458   maxOccurs="unbounded">
5459                                         <complexType>
5460                                             <sequence>
5461                                                 <element name="ScheduleType">
5462                                                     <simpleType>
5463                                                         <restriction
5464   base="rm:ScheduleTypeType">
5465                                                             <enumeration
5466   value="RequestedArrival"/>
5467                                                             <enumeration
5468   value="EstimatedArrival"/>
5469                                                             <enumeration
5470   value="ActualArrival"/>
5471                                                             <enumeration
5472   value="RequestedDeparture"/>
5473                                                             <enumeration
5474   value="EstimatedDeparture"/>
5475                                                             <enumeration
5476   value="ActualDeparture"/>
5477                                                             <enumeration
5478   value="RequestedReturnDeparture"/>
5479                                                             <enumeration
5480   value="EstimatedReturnDeparture"/>
5481                                                             <enumeration
5482   value="ActualReturnDeparture"/>
5483                                                             <enumeration
5484   value="RequestedReturnArrival"/>
5485                                                             <enumeration
5486   value="EstimatedReturnArrival"/>
5487                                                             <enumeration
5488   value="ActualReturnArrival"/>
5489                                                             <enumeration
5490   value="BeginAvailable"/>
5491                                                             <enumeration
5492   value="EndAvailable"/>
```

```
5493                                                           <enumeration
5494   value="Committed"/>
5495                                                           <enumeration
5496   value="Current"/>
5497                                                           <enumeration
5498   value="ReportTo"/>
5499                                                           <enumeration
5500   value="Route"/>
5501                                                       </restriction>
5502                                                   </simpleType>
5503                                               </element>
5504                                           <element name="DateTime"
5505   type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5506                                           <element name="Location"
5507   type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
5508                                       </sequence>
5509                                   </complexType>
5510                               </element>
5511                           </sequence>
5512                       </complexType>
5513                   </element>
5514               </sequence>
5515           </complexType>
5516       </element>
5517   </schema>
```

A.17 Request Extended Deployment Duration Message Schema

```
5519   <schema xmlns="http://www.w3.org/2001/XMLSchema"
5520
5521   targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:RequestExtendedDepl
5522   oymentDuration"
5523       xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5524       xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5525       elementFormDefault="qualified"
5526       attributeFormDefault="unqualified">
5527       <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5528   schemaLocation="EDXL-RMCommonTypes.xsd"/>
5529       <!-- This schema describes the structure of EDXL-RM "Requisition
5530   Resource" messages.-->
5531       <element name="EDXLResourceMessage">
5532           <complexType>
5533               <sequence>
5534                   <element name="MessageID" type="rm:MessageIDType"/>
5535                   <element name="SentDateTime" type="rm:DateTimeType"/>
5536                   <element name="MessageContentType">
5537                       <simpleType>
5538                           <restriction base="rm:MessageContentTypeType">
5539                               <enumeration value="Request Extended Deployment
5540   Duration"/>
5541                           </restriction>
5542                       </simpleType>
5543                   </element>
5544                   <element name="MessageDescription"
5545   type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
5546                   <element name="OriginatingMessageID"
5547   type="rm:MessageIDType"/>
```

```
5548                    <element name="IncidentInformation"
5549    type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
5550                    <element name="MessageRecall" type="rm:MessageRecallType"
5551    minOccurs="0" maxOccurs="1"/>
5552                    <element name="Funding" type="rm:FundingType" minOccurs="0"
5553    maxOccurs="unbounded"/>
5554                    <element name="ContactInformation"
5555    type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
5556                    <element name="ResourceInformation" minOccurs="1"
5557    maxOccurs="unbounded">
5558                        <complexType>
5559                            <sequence>
5560                                <element name="SequenceNumber"
5561    type="rm:SequenceNumberType"/>
5562                                <element name="Resource">
5563                                    <complexType>
5564                                        <sequence><!-- One (or more) of first
5565    three elements is required -->
5566                                            <element name="ResourceID"
5567    type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
5568                                            <element name="Name"
5569    type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
5570                                            <element name="TypeStructure"
5571    type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
5572                                            <element name="TypeInfo"
5573    type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
5574                                            <element name="Keyword"
5575    type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
5576                                            <element name="Description"
5577    type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
5578                                            <element name="Credentials"
5579    type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
5580                                            <element name="Certifications"
5581    type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
5582                                            <element name="SpecialRequirements"
5583    type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5584                                            <element name="ResponsibleParty"
5585    type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
5586                                            <element name="OwnershipInformation"
5587    type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5588                                            <element name="ResourceStatus"
5589    minOccurs="0" maxOccurs="1">
5590                                                <complexType>
5591                                                    <sequence>
5592                                                        <element
5593    name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
5594                                                        <element
5595    name="Availability" type="rm:AvailabilityType" minOccurs="0" maxOccurs="1"/>
5596                                                    </sequence>
5597                                                </complexType>
5598                                            </element>
5599                                        </sequence>
5600                                    </complexType>
5601                                </element>
5602                                <element name="AssignmentInformation"
5603    minOccurs="0" maxOccurs="1">
5604                                    <complexType>
```

```
5605                                               <sequence>
5606                                                   <element name="Quantity"
5607    type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
5608                                                   <element name="Restrictions"
5609    type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
5610                                                   <element name="AnticipatedFunction"
5611    type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5612                                                   <element name="PriceQuote"
5613    type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
5614                                                   <element name="OrderID"
5615    type="rm:OrderIDType" minOccurs="0" maxOccurs="1"/>
5616                                               </sequence>
5617                                           </complexType>
5618                                       </element>
5619                                   <element name="ScheduleInformation" minOccurs="0"
5620    maxOccurs="unbounded">
5621                                           <complexType>
5622                                               <sequence>
5623                                                   <element name="ScheduleType">
5624                                                       <simpleType>
5625                                                           <restriction
5626    base="rm:ScheduleTypeType">
5627                                                               <enumeration
5628    value="RequestedArrival"/>
5629                                                               <enumeration
5630    value="EstimatedArrival"/>
5631                                                               <enumeration
5632    value="ActualArrival"/>
5633                                                               <enumeration
5634    value="RequestedDeparture"/>
5635                                                               <enumeration
5636    value="EstimatedDeparture"/>
5637                                                               <enumeration
5638    value="ActualDeparture"/>
5639                                                               <enumeration
5640    value="RequestedReturnArrival"/>
5641                                                               <enumeration
5642    value="Committed"/>
5643                                                               <enumeration
5644    value="ReportTo"/>
5645                                                               <enumeration
5646    value="RequestedReturnDeparture"/>
5647                                                               <enumeration
5648    value="EstimatedReturnDeparture"/>
5649                                                               <enumeration
5650    value="EstimatedReturnArrival"/>
5651                                                               <enumeration
5652    value="Route"/>
5653                                                           </restriction>
5654                                                       </simpleType>
5655                                                   </element>
5656                                                   <element name="DateTime"
5657    type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5658                                                   <element name="Location"
5659    type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
5660                                               </sequence>
5661                                           </complexType>
```

```
5662                        </element>
5663                    </sequence>
5664                </complexType>
5665            </element>
5666        </sequence>
5667    </complexType>
5668 </element>
5669 </schema>
```

A.18 Response to Request Extended Deployment Duration Message Schema

```
5672 <schema xmlns="http://www.w3.org/2001/XMLSchema"
5673
5674 targetNamespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0:ResponseToRequestEx
5675 tendedDeploymentDuration"
5676     xmlns:rm="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5677     xmlns:xsd="http://www.w3.org/2001/XMLSchema"
5678     elementFormDefault="qualified"
5679     attributeFormDefault="unqualified">
5680     <xsd:import namespace="urn:oasis:names:tc:emergency:EDXL:RM:1.0"
5681 schemaLocation="EDXL-RMCommonTypes.xsd"/>
5682     <!-- This schema describes the structure of EDXL-RM "Requisition
5683 Resource" messages.-->
5684     <element name="EDXLResourceMessage">
5685         <complexType>
5686             <sequence>
5687                 <element name="MessageID" type="rm:MessageIDType"/>
5688                 <element name="SentDateTime" type="rm:DateTimeType"/>
5689                 <element name="MessageContentType">
5690                     <simpleType>
5691                         <restriction base="rm:MessageContentTypeType">
5692                             <enumeration value="Response to Request Extended
5693 Deployment Duration"/>
5694                         </restriction>
5695                     </simpleType>
5696                 </element>
5697                 <element name="MessageDescription"
5698 type="rm:MessageDescriptionType" minOccurs="0" maxOccurs="1"/>
5699                 <element name="OriginatingMessageID"
5700 type="rm:MessageIDType"/>
5701                 <element name="PrecedingMessageID" type="rm:MessageIDType"/>
5702
5703                 <element name="IncidentInformation"
5704 type="rm:IncidentInformationType" minOccurs="0" maxOccurs="unbounded"/>
5705                 <element name="MessageRecall" type="rm:MessageRecallType"
5706 minOccurs="0" maxOccurs="1"/>
5707                 <element name="Funding" type="rm:FundingType" minOccurs="0"
5708 maxOccurs="unbounded"/>
5709                 <element name="ContactInformation"
5710 type="rm:ContactInformationType" minOccurs="1" maxOccurs="unbounded"/>
5711                 <element name="ResourceInformation" minOccurs="1"
5712 maxOccurs="unbounded">
5713                     <complexType>
5714                         <sequence>
```

```
5715                              <element name="SequenceNumber"
5716    type="rm:SequenceNumberType"/>
5717                              <element name="ResponseInformation"
5718    type="rm:ResponseInformationType"/>
5719                              <element name="Resource" minOccurs="0"
5720    maxOccurs="1">
5721                                  <complexType>
5722                                      <sequence><!-- One (or more) of first
5723    three elements is required -->
5724                                          <element name="ResourceID"
5725    type="rm:ResourceIDType" minOccurs="0" maxOccurs="1"/>
5726                                          <element name="Name"
5727    type="rm:ResourceNameType" minOccurs="0" maxOccurs="1"/>
5728                                          <element name="TypeStructure"
5729    type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
5730                                          <element name="TypeInfo"
5731    type="rm:TypeInfoType" minOccurs="0" maxOccurs="1"/>
5732                                          <element name="Keyword"
5733    type="rm:ValueListType" minOccurs="0" maxOccurs="unbounded"/>
5734                                          <element name="Description"
5735    type="rm:DescriptionType" minOccurs="0" maxOccurs="1"/>
5736                                          <element name="Credentials"
5737    type="rm:CredentialsType" minOccurs="0" maxOccurs="1"/>
5738                                          <element name="Certifications"
5739    type="rm:CertificationsType" minOccurs="0" maxOccurs="1"/>
5740                                          <element name="SpecialRequirements"
5741    type="rm:SpecialRequirementsType" minOccurs="0" maxOccurs="1"/>
5742                                          <element name="ResponsibleParty"
5743    type="rm:ContactInformationType" minOccurs="0" maxOccurs="1"/>
5744                                          <element name="OwnershipInformation"
5745    type="rm:OwnershipInformationType" minOccurs="0" maxOccurs="1"/>
5746                                          <element name="ResourceStatus"
5747    minOccurs="0" maxOccurs="1">
5748                                              <complexType>
5749                                                  <sequence>
5750                                                      <element
5751    name="DeploymentStatus" type="rm:ValueListType" minOccurs="0" maxOccurs="1"/>
5752                                                      <element
5753    name="Availability" type="rm:AvailabilityType" minOccurs="0" maxOccurs="1"/>
5754                                                  </sequence>
5755                                              </complexType>
5756                                          </element>
5757                                      </sequence>
5758                                  </complexType>
5759                              </element>
5760                              <element name="AssignmentInformation"
5761    minOccurs="0" maxOccurs="1">
5762                                  <complexType>
5763                                      <sequence>
5764                                          <element name="Quantity"
5765    type="rm:QuantityType" minOccurs="0" maxOccurs="1"/>
5766                                          <element name="Restrictions"
5767    type="rm:RestrictionsType" minOccurs="0" maxOccurs="1"/>
5768                                          <element name="AnticipatedFunction"
5769    type="rm:AnticipatedFunctionType" minOccurs="0" maxOccurs="1"/>
5770                                          <element name="PriceQuote"
5771    type="rm:PriceQuoteType" minOccurs="0" maxOccurs="1"/>
```

```
5772                                                        <element name="OrderID"
5773    type="rm:OrderIDType" minOccurs="0" maxOccurs="1"/>
5774                                                        <element
5775    name="AssignmentInstructions" type="rm:AssignmentInstructionsType"
5776    minOccurs="0" maxOccurs="1"/>
5777                                                    </sequence>
5778                                                </complexType>
5779                                            </element>
5780                                            <element name="ScheduleInformation" minOccurs="0"
5781    maxOccurs="unbounded">
5782                                                <complexType>
5783                                                    <sequence>
5784                                                        <element name="ScheduleType">
5785                                                            <simpleType>
5786                                                                <restriction
5787    base="rm:ScheduleTypeType">
5788                                                                    <enumeration
5789    value="EndAvailable"/>
5790                                                                    <enumeration
5791    value="RequestedArrival"/>
5792                                                                    <enumeration
5793    value="EstimatedArrival"/>
5794                                                                    <enumeration
5795    value="ActualArrival"/>
5796                                                                    <enumeration
5797    value="RequestedDeparture"/>
5798                                                                    <enumeration
5799    value="EstimatedDeparture"/>
5800                                                                    <enumeration
5801    value="ActualDeparture"/>
5802                                                                    <enumeration
5803    value="RequestedReturnArrival"/>
5804                                                                    <enumeration
5805    value="Committed"/>
5806                                                                    <enumeration
5807    value="ReportTo"/>
5808                                                                    <enumeration
5809    value="RequestedReturnDeparture"/>
5810                                                                    <enumeration
5811    value="EstimatedReturnDeparture"/>
5812                                                                    <enumeration
5813    value="EstimatedReturnArrival"/>
5814                                                                    <enumeration
5815    value="Route"/>
5816                                                                </restriction>
5817                                                            </simpleType>
5818                                                        </element>
5819                                                        <element name="DateTime"
5820    type="rm:DateTimeType" minOccurs="0" maxOccurs="1"/>
5821                                                        <element name="Location"
5822    type="rm:LocationType" minOccurs="0" maxOccurs="1"/>
5823                                                    </sequence>
5824                                                </complexType>
5825                                            </element>
5826                                        </sequence>
5827                                    </complexType>
5828                                </element>
```

```
5829                  </sequence>
5830              </complexType>
5831          </element>
5832      </schema>
```

B. Acknowledgements

C. Revision History

5870

5871 [optional; should not be included in OASIS Standards]

5872

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

5873

5874