

1 SECTION

2 III

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General Acknowledgement Message Acknow

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Version 5.0

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*prototype release B
for Proof of concept
implementation*

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EASEE-gas/Edig@s Workgroup

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Document version: B

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25	TABLE OF CONTENTS	
26	1 GENERAL OVERVIEW	4
27	2 FUNCTIONAL DEFINITION	4
28	2.1 Technical Acknowledgement	4
29	2.2 Application acknowledgement	4
30	3 GENERAL ACKNOWLEDGEMENT WORKFLOW	5
31	4 REFERENCES	6
32	5 INFORMATION MODEL FOR ACKNOW	7
33	5.1 Information Model Structure.....	7
34	5.2 Information model description	8
35	5.2.1 <i>Rules governing the Acknowledgement document Class</i>	8
36	5.2.2 <i>Rules governing the Connection Point Rejection class</i>	11
37	5.2.3 <i>Rules governing the Reason class</i>	11
38	6 XML IMPLEMENTATION OF ACKNOW	12
39	6.1 Introduction.....	12
40	6.2 XML Structure	12
41	6.3 XML Schema	13
42	7 DOCUMENT CHANGE LOG	15
43		

44 1 GENERAL OVERVIEW

45 The objective of this guide is to define the generic technical and application
46 acknowledgement document that can be used in all EDIGAS processes.
47 A document is controlled within the system environment at two levels:
48 • It is first controlled at system level to detect syntax errors (XML parsing
49 errors, file processing errors, etc.);
50 • It is then controlled at the application level to detect any semantic errors
51 (invalid data, wrong process, etc.).

52 If there is a problem encountered at the first level then a technical
53 acknowledgement may be sent to inform the originator of the problem. If errors
54 are encountered at the second level or if the application can successfully process
55 the information then an application acknowledgement may be sent to inform the
56 originator of the situation.

57 **It is strongly recommended to read the Introduction to the Edig@s MIG**
58 **before implementing a template since it contains a number of general**
59 **rules that are applicable for all the Edig@s messages.**

60 2 FUNCTIONAL DEFINITION

61 The Acknowledgement document fits into a general Edig@s acknowledgement
62 process and is divided into two categories:

63 2.1 TECHNICAL ACKNOWLEDGEMENT

64 A technical acknowledgement occurs when an XML document is received that
65 cannot be correctly processed for submission to the application. Such an error
66 could occur for example whenever the XML parser cannot correctly parse the
67 incoming document. Other instances could be the incapacity to correctly identify
68 the sender of the document in relation to the process requested.

69 In such a case a technical acknowledgement can be sent to the document
70 sender providing the information that the XML document in question cannot be
71 correctly processed by the system.

72 2.2 APPLICATION ACKNOWLEDGEMENT

73 Whenever it is necessary to send a response that can provide additional
74 information to the sender and in order to implement effective data exchange the
75 following procedure should be applied upon reception of a document to verify at
76 the application level that it contains no faults that could prevent correct
77 processing:

- 78 • A document that is valid after this verification shall necessitate the
79 generation of an Acknowledgement document accepting in its entirety the
80 document in question.
- 81 • A document that has an error in it shall necessitate the generation of an
82 Acknowledgement document that can completely or partially reject the
83 document in question.

84 This acknowledgment sequence will not be described systematically in the
85 information flows, but it shall be flagged as an integral part of each transmission
86 wherever it is required.

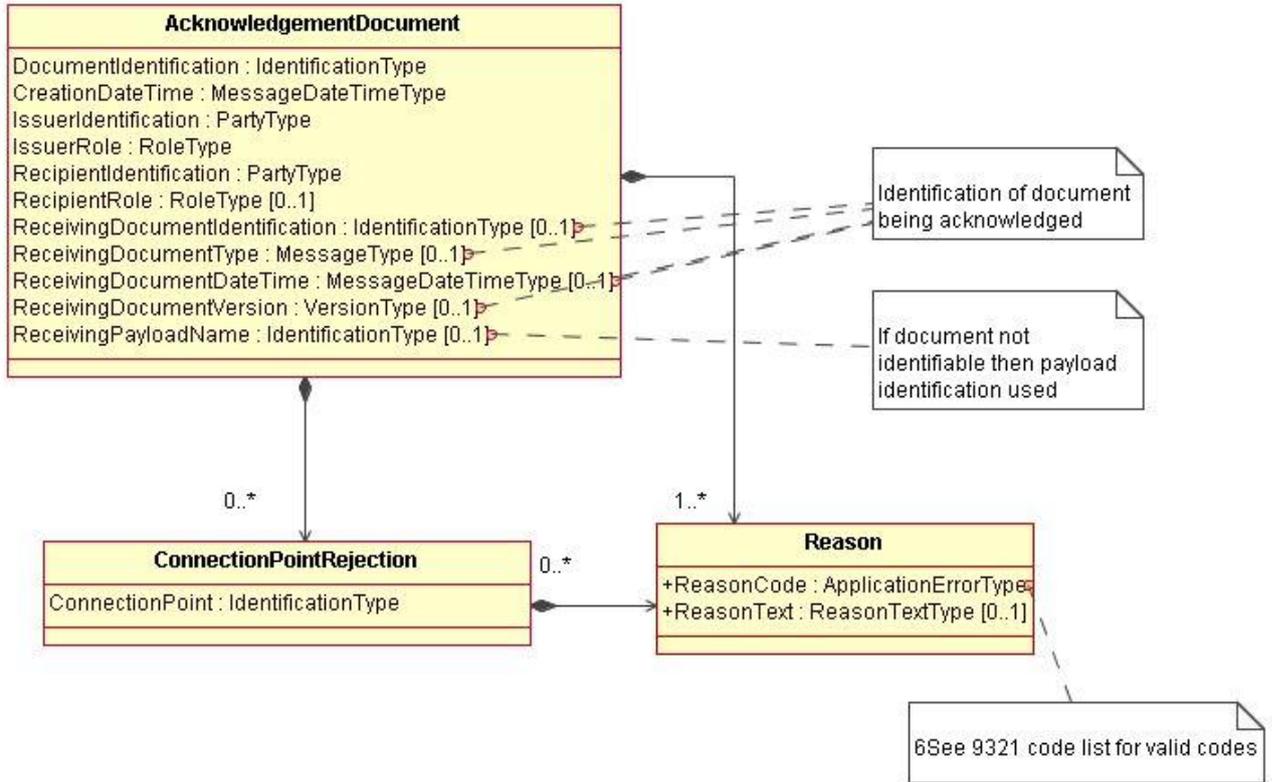
- 117
118
- At the system level when a technical incident prevents it from being processed by an application.
- 119
120
121
- At the application level where it should be generated by the application software and NOT by EDI-translator software. In this context it must mention the parties as stated in the message that is being acknowledged.

122 **4 REFERENCES**

123 The content of the ACKNOW message is based on the definition of terms and
124 codes as agreed by the Edig@s Workgroup.

125 **5 INFORMATION MODEL FOR ACKNOW**

126 **5.1 Information Model Structure**



127

128 **5.2 INFORMATION MODEL DESCRIPTION**129 **5.2.1 Rules governing the Acknowledgement document Class**130 **5.2.1.1 DOCUMENT IDENTIFICATION**

ACTION	DESCRIPTION
Definition of element	Unique identification of the document describing the Acknowledgement Document.
Description	An Acknowledgement Document must have a unique identification assigned by the initiator of the document to be sent to a recipient. The identification may take the following form: ACKNOW followed by the date in the form YYYYMMDD followed by the letter "A" followed by a 5 character sequential number (e.g. 00001) providing the unique identification of the document. Example "ACKNOW20090101A00001". The sender must guarantee that this identification is unique over time
Size	The identification of an Acknowledgement Document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

131 **5.2.1.2 CREATION DATE TIME**

ACTION	DESCRIPTION
Definition of element	Date and time of the creation of the document.
Description	The date and time that the document was prepared for transmission by the application of the initiator.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is mandatory.
Dependence requirements	None.

132 **5.2.1.3 ISSUER IDENTIFICATION – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	Identification of the party who sending the acknowledgement.
Description	The party sending the acknowledgement is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute. It should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC code.
Size	The maximum length of a sender's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

133 5.2.1.4 ISSUER ROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party that is sending the acknowledgement document is playing.
Description	The role being played by the initiator of the document for this transmission. This should be the same role as identified in the receiving document
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

134 5.2.1.5 RECIPIENT IDENTIFICATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who has initiated the document that is being acknowledged.
Description	The initiator of the document being acknowledged is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute. It should indicate either the code "321" if it is an Edig@s code or the code "305" if it is an EIC code.
Size	The maximum length of an original initiator's identification is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

135 5.2.1.6 RECIPIENT ROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that the party who has initiated the document being acknowledged is playing.
Description	The role being played by the initiator of the document for this transmission. This should be the same role as identified in the receiving document
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

136 5.2.1.7 RECEIVING DOCUMENT IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document being acknowledged
Description	This provides the identification of the original message being acknowledged
Size	The identification of a Document may not exceed 35 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The information is only provided if the document can be successfully interpreted. Otherwise the payload identification shall be used to identify the exchange.

137 5.2.1.8 RECEIVING DOCUMENT TYPE

ACTION	DESCRIPTION
Definition of element	Identification of the type of document being received.
Description	Identification of the type of document being acknowledged. This corresponds to the code used by Edigas to identify a type of document
Size	The maximum length of this information is 3 alphanumeric characters
Applicability	This information is dependent.
Dependence requirements	The information is only provided if the document can be successfully interpreted. Otherwise the payload identification shall be used to identify the exchange.

138 5.2.1.9 RECEIVING DOCUMENT DATE TIME

ACTION	DESCRIPTION
Definition of element	The date and time of the creation of the original message.
Description	The date and time of the creation of the original message being acknowledged.
Size	Refer to section 1.20 of the Edig@s General Guidelines for information on the attribute structure.
Applicability	This information is dependent.
Dependence requirements	The information is only provided if the document can be successfully interpreted. Otherwise the payload identification shall be used to identify the exchange.

139 5.2.1.10 RECEIVING DOCUMENT VERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being acknowledged.
Description	The version of the receiving document is provided if the document being acknowledged has a version.
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is dependent.
Dependence requirements	The information is only provided if the document can be successfully interpreted and has a Version attribute. If there is no Receiving Document Identification there shall be no Receiving Document Version.

140 5.2.1.11 RECEIVING PAYLOAD NAME

ACTION	DESCRIPTION
Definition of element	The identification of the payload object used to transmit the document
Description	This provides the identification of the payload object, such as a file name, that has been used to transmit the document
Size	The maximum length of the status is 35 alphanumeric characters
Applicability	The status is dependent.
Dependence requirements	This identification is only provided if the document cannot be successfully interpreted. The attributes Receiving Document Identification, Receiving Document Type and Receiving Document Data Time shall not be provided.

141 **5.2.2 Rules governing the Connection Point Rejection class**

142 If a specific Connection Point is being rejected this class shall be used to identify it.

143 **5.2.2.1 CONNECTION POINT – CODING SCHEME**

ACTION	DESCRIPTION
Definition of element	The identification of a Connection Point.
Description	The identification of a connection point whose information is being rejected within a document. The codification scheme used for the coded identification is indicated by the coding scheme attribute. It should indicate either the code "321" if it is an Edig@s code, the code "305" if it is an EIC code, the code "9" if it is a GS1 code or the code "ZSO" if it is a System Operator code.
Size	The maximum length of the connection point identification is 16 alphanumeric characters. The maximum length of the coding scheme is 3 alphanumeric characters
Applicability	Both the connection point identification and the coding scheme are dependent
Dependence requirements	This is only used whenever a specific connection point is being rejected in a document

144 **5.2.3 Rules governing the Reason class**

145 The Reason class shall provide any coded or textual information that is necessary to completely
 146 describe the conditions of the acknowledgement. It may provide additional information at the
 147 Connection Point level describing any eventual amendment or rejection.

148 **5.2.3.1 REASON CODE**

ACTION	DESCRIPTION
Definition of element	A code providing the conditions of the acknowledgement.
Description	The reason code provides the conditions of the acknowledgement as well as at the Connection Point level the reason for and eventual amendments or rejections. As many reason elements as necessary may be used. Refer to the Edigas 9321 codelist for the list of valid codes
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory at the header level and dependent at the Connection Point level.
Dependence requirements	None at the header level. It may provide additional information at the Connection Point Level describing an eventual amendment or rejection.

149 **5.2.3.2 REASON TEXT**

ACTION	DESCRIPTION
Definition of element	Textual explanation of the reason code.
Description	If the code does not provide all the information to clearly identify the justification of an eventual amendment or a rejection then the textual information may be provided.
Size	The maximum length of this information is 512 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Used only if the reason code is insufficient to identify an amendment or an error.

150

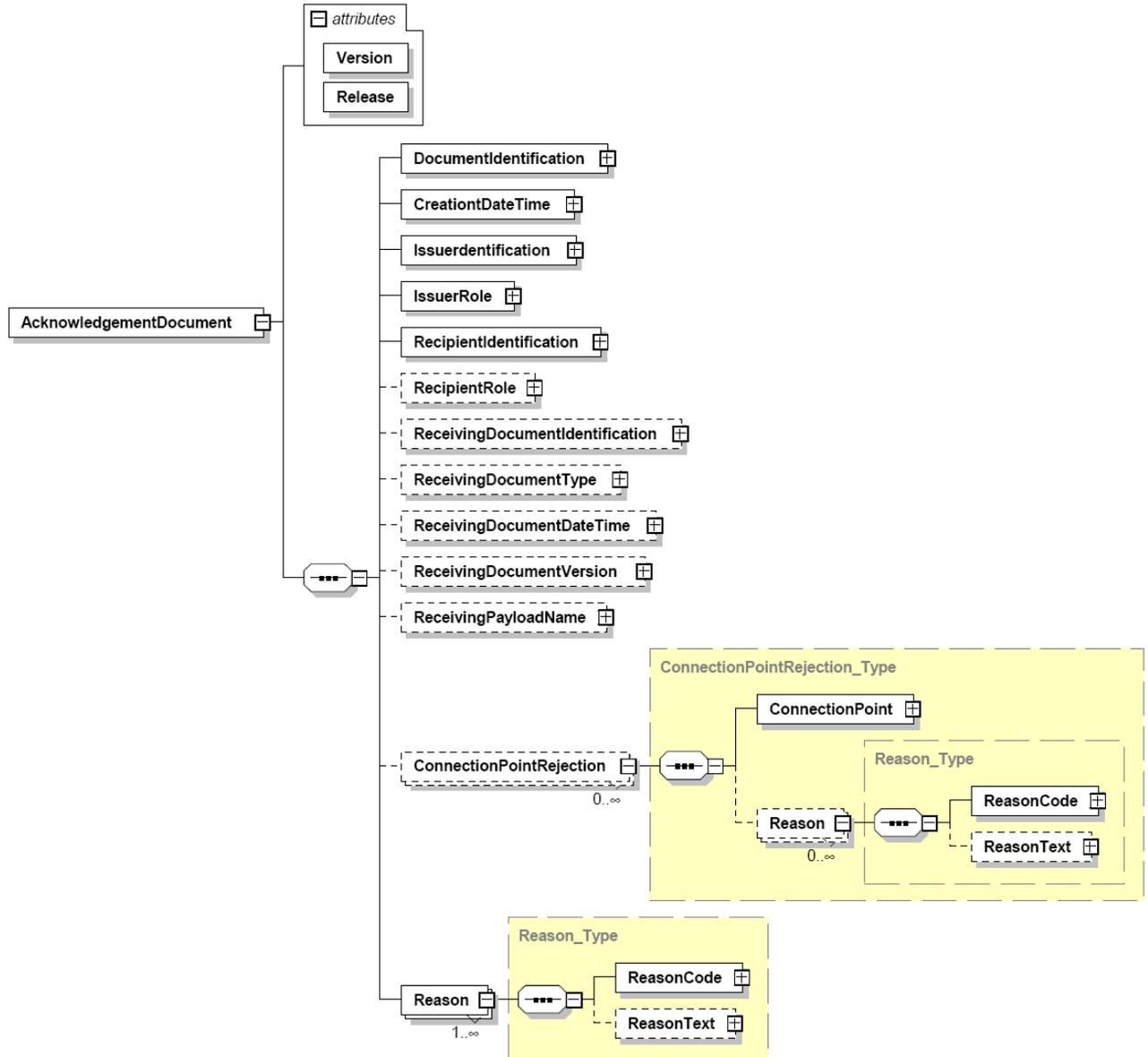
151 **6 XML IMPLEMENTATION OF ACKNOW**

152 **6.1 INTRODUCTION**

153 All electronic documents using this Implementation guide Specification shall complete the document
 154 Version and Release attributes as follows:

- 155 • Version: "EGAS50". This corresponds to the Edig@s package identification.
- 156 • Release: "A". This corresponds to the Message Implementation Guide Version number.

157 **6.2 XML Structure**



158

159 **6.3 XML Schema**

```

160 <?xml version="1.0" encoding="UTF-8"?>
161 <xsd:schema xmlns:ecc="core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
162 attributeFormDefault="unqualified" ecc:VersionRelease="1.0">
163   <xsd:import namespace="core-cmpts.xsd" schemaLocation="../../cclib/core-cmpts.xsd"/>
164   <!--
165           EDIGAS Document Automatically generated from a UML class diagram using XML.
166           Generation tool version 1.7
167   -->
168   <xsd:element name="AcknowledgementDocument">
169     <xsd:complexType>
170       <xsd:annotation>
171         <xsd:documentation/>
172       </xsd:annotation>
173       <xsd:sequence>
174         <xsd:element name="DocumentIdentification" type="ecc:IdentificationType">
175           <xsd:annotation>
176             <xsd:documentation/>
177           </xsd:annotation>
178         </xsd:element>
179         <xsd:element name="CreationDateTime" type="ecc:MessageDateTimeType">
180           <xsd:annotation>
181             <xsd:documentation/>
182           </xsd:annotation>
183         </xsd:element>
184         <xsd:element name="IssuerIdentification" type="ecc:PartyType">
185           <xsd:annotation>
186             <xsd:documentation/>
187           </xsd:annotation>
188         </xsd:element>
189         <xsd:element name="IssuerRole" type="ecc:RoleType">
190           <xsd:annotation>
191             <xsd:documentation/>
192           </xsd:annotation>
193         </xsd:element>
194         <xsd:element name="RecipientIdentification" type="ecc:PartyType">
195           <xsd:annotation>
196             <xsd:documentation/>
197           </xsd:annotation>
198         </xsd:element>
199         <xsd:element name="RecipientRole" type="ecc:RoleType" minOccurs="0">
200           <xsd:annotation>
201             <xsd:documentation/>
202           </xsd:annotation>
203         </xsd:element>
204         <xsd:element name="ReceivingDocumentIdentification" type="ecc:IdentificationType"
205 minOccurs="0">
206           <xsd:annotation>
207             <xsd:documentation/>
208           </xsd:annotation>
209         </xsd:element>
210         <xsd:element name="ReceivingDocumentType" type="ecc:MessageType" minOccurs="0">
211           <xsd:annotation>
212             <xsd:documentation/>
213           </xsd:annotation>
214         </xsd:element>
215         <xsd:element name="ReceivingDocumentDateTime" type="ecc:MessageDateTimeType"
216 minOccurs="0">
217           <xsd:annotation>
218             <xsd:documentation/>
219           </xsd:annotation>
220         </xsd:element>
221         <xsd:element name="ReceivingDocumentVersion" type="ecc:VersionType" minOccurs="0">
222           <xsd:annotation>
223             <xsd:documentation/>
224           </xsd:annotation>
225         </xsd:element>
226         <xsd:element name="ReceivingPayloadName" type="ecc:IdentificationType" minOccurs="0">
227           <xsd:annotation>
228             <xsd:documentation/>
229           </xsd:annotation>
230         </xsd:element>
231         <xsd:element name="ConnectionPointRejection" type="ConnectionPointRejection_Type"
232 minOccurs="0" maxOccurs="unbounded"/>
233         <xsd:element name="Reason" type="Reason_Type" maxOccurs="unbounded"/>
234       </xsd:sequence>
235       <xsd:attribute name="Version" type="xsd:string" use="required"/>

```

```
236         <xsd:attribute name="Release" type="xsd:string" use="required"/>
237     </xsd:complexType>
238 </xsd:element>
239 <xsd:complexType name="ConnectionPointRejection_Type">
240     <xsd:annotation>
241         <xsd:documentation/>
242     </xsd:annotation>
243     <xsd:sequence>
244         <xsd:element name="ConnectionPoint" type="ecc:IdentificationType">
245             <xsd:annotation>
246                 <xsd:documentation/>
247             </xsd:annotation>
248         </xsd:element>
249         <xsd:element name="Reason" type="Reason_Type" minOccurs="0" maxOccurs="unbounded"/>
250     </xsd:sequence>
251 </xsd:complexType>
252 <xsd:complexType name="Reason_Type">
253     <xsd:annotation>
254         <xsd:documentation/>
255     </xsd:annotation>
256     <xsd:sequence>
257         <xsd:element name="ReasonCode" type="ecc:ApplicationErrorType">
258             <xsd:annotation>
259                 <xsd:documentation/>
260             </xsd:annotation>
261         </xsd:element>
262         <xsd:element name="ReasonText" type="ecc:ReasonTextType" minOccurs="0">
263             <xsd:annotation>
264                 <xsd:documentation/>
265             </xsd:annotation>
266         </xsd:element>
267     </xsd:sequence>
268 </xsd:complexType>
269 </xsd:schema>
270
```

271

272

7 DOCUMENT CHANGE LOG

Package	Version	Date	Description
5.0	A	2010-02-17	Initial release of the prototype for proof of concept implementation
5.0	B	2011-03-25	Added the description of ReceivingDocumentVersion that was missing in the text

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