



ENTSO-E PROBLEM STATEMENT DOCUMENT (EPSD) IMPLEMENTATION GUIDE

2013-09-27

DOCUMENT APPROVED
VERSION: 2.0

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Revision History

Version	Release	Date	Paragraphs	Comments
1	0	2007-10-12		Initial release. Submitted for approval to the 60th ETSO Steering Committee meeting.
2	0	2013-09-27		To correct the schema in order to bring it into line with the model (Receiver information is mandatory and was specified as optional in the schema). Adapt the schema to use namespaces. Move the document to ENTSO-E logo and layout. Removal of DtdVersion and DtdRelease. Approved by ENTSO-E Market Committee on 2013-10-22.

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NOTE CONCERNING WORDING USED IN THIS DOCUMENT

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The force of the following words is modified by the requirement level of the document in which they are used.

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- **MUST:** This word, or the terms “REQUIRED” or “SHALL”, means that the definition is an absolute requirement of the specification.

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- **MUST NOT:** This phrase, or the phrase “SHALL NOT”, means that the definition is an absolute prohibition of the specification.

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- **SHOULD:** This word, or the adjective “RECOMMENDED”, means that there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.

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- **SHOULD NOT:** This phrase, or the phrase “NOT RECOMMENDED”, means that there may exist valid reasons in particular circumstances when the particular behaviour is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behaviour described with this label.

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- **MAY:** This word, or the adjective “OPTIONAL”, means that an item is truly optional. One vendor may choose to include the item because a particular marketplace requires it or because the vendor feels that it enhances the product while another vendor may omit the same item. An implementation which does not include a particular option **MUST** be prepared to interoperate with another implementation which does include the option, though perhaps with reduced functionality. In the same vein an implementation which does include a particular option **MUST** be prepared to interoperate with another implementation which does not include the option (except, of course, for the feature the option provides.)

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- **DEPRECATED:** this word means that a previously permitted entity should no longer be used in new implementations as in a future release the object in question may be suppressed.

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1 OBJECTIVE

The objective of this document is to provide:

- ✓ a means of informing a party that a document could not be issued by the expected time and thus will be delayed (the approval of this delay depends upon the rules that have been established between the parties);
- ✓ an automated support in the case where an escalation procedure has to be put into place when an expected event does not occur or a critical situation has to be resolved..

In all data exchanges, there are two parties involved:

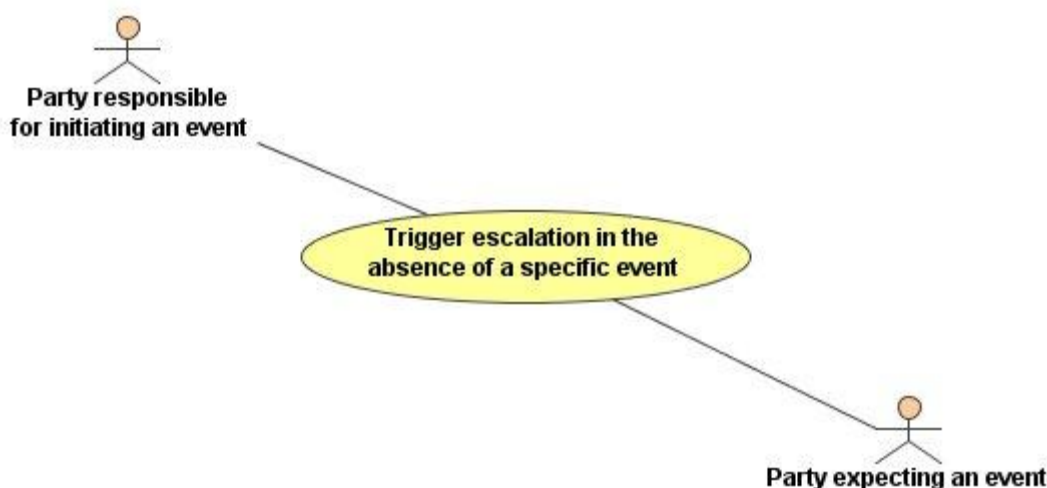


FIGURE 1: ESCALATION SCENARIO USE CASE

In a normal document exchange the “Party responsible for initiating an event” such as the transmission of a document transmits this within a specified time period. The “Party expecting an event” is waiting for the reception of the document in question within the agreed timeframe.

The “Problem Statement Document” has a two-fold purpose hereafter described.

- ✓ The first is in case where the “party responsible for initiating an event” is not in a position (IT problems, etc.) to transmit an electronic document at the expected time. This party may issue to the other party a Trouble Shooting Document stating when he will be in a position to send the expected document. In such a case, this specific exchange is for information and depending upon the rules agreed between the parties, other data exchanges may occur such as confirmation of the time delay, etc.
- ✓ The second is in the case where the expected document does not arrive by the time specified the “party expecting an event” triggers the transmission of an Escalation Document to inform the “party responsible for initiating an event” to initiate an escalation procedure instead of sending the expected document.

2 PROBLEM STATEMENT DOCUMENT IMPLEMENTATION REQUIREMENTS

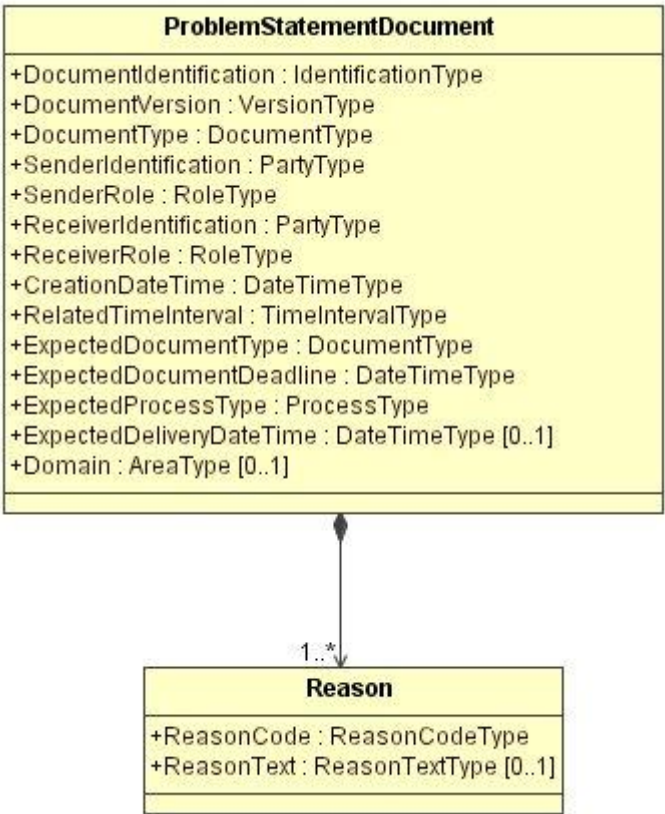


FIGURE 2: PROBLEM STATEMENT DOCUMENT INFORMATION MODEL

109 2.1 PROBLEM STATEMENT DOCUMENT CLASS SPECIFICATIONS

110 2.1.1 DOCUMENT IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	Unique identification of the document.
Description	Each Problem Statement Document shall be allocated a unique identification by the sender
Size	The identification of document may not exceed 35 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

111 2.1.2 DOCUMENT VERSION

ACTION	DESCRIPTION
Definition of element	Version of the document being sent. A document may be sent several times, each transmission being identified by a different version number that starts at 1 and increases sequentially.
Description	<p>The document version is used to identify a given version of a Problem Statement document and is used in the case of possible erroneous transmissions.</p> <p>The first version number for a given document identification shall normally be 1.</p> <p>The document version number must be incremented for each retransmission of a document that contains changes to the previous version.</p> <p>The receiving system should ensure that the version number for a document is superior to the previous version number received.</p>
Size	A version number may not exceed 3 numeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

112 2.1.3 DOCUMENT TYPE

ACTION	DESCRIPTION
Definition of element	The coded type of the document being sent.
Description	<p>The document type identifies the information flow characteristics. The following codes have been initially identified:</p> <ul style="list-style-type: none"> ✓ A34: Escalation Document ✓ A35: Trouble shooting Document <p>Refer to Code list document for valid codes.</p>
Size	The document type value may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

113 2.1.4 SENDER IDENTIFICATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who is sending the document.
Description	<p>The sender of the document is identified by a unique coded identification. This code identifies the party that is the “owner” of the information being transmitted in the document.</p> <p>The codification scheme used for the coded identification is indicated by the coding scheme attribute. It is a 3 character alphanumeric code.</p> <p>Refer to Code list document for valid coding scheme codes.</p>
Size	<p>The maximum length of a sender’s identification is 16 alphanumeric characters.</p> <p>The maximum length of the coding scheme code is 3 alphanumeric characters.</p>
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

114 2.1.5 SENDER ROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role that is played by the sender.
Description	The sender role, which identifies the role of the sender within the document. The role shall be the one in relation with the “expected document”. Refer to Code list document for valid role codes.
Size	The maximum length of a sender role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

115 2.1.6 RECEIVER IDENTIFICATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who is receiving the document.
Description	The receiver of the document is identified by a unique coded identification. The codification scheme used for the coded identification is indicated by the coding scheme attribute. It is a 3 character alphanumeric code. Refer to Code list document for valid coding scheme codes.
Size	The maximum length of a receiver’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.

116 2.1.7 RECEIVER ROLE

ACTION	DESCRIPTION
Definition of element	Identification of the role played by the receiver.
Description	The receiver role, which identifies the role of the receiver within the document. The role shall be the one in relation with the “expected document”. Refer to Code list document for valid role codes.
Size	The maximum length of a receiver role is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

117 2.1.8 CREATIONDATE AND TIME

ACTION	DESCRIPTION
Definition of element	Date and time of that the document was prepared.
Description	The date and time that the document was prepared for transmission by the application of the sender.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

118 2.1.9 RELATED TIME INTERVAL

ACTION	DESCRIPTION
Definition of element	The beginning and ending date and time of the period concerned by the document, i.e., the one of the “expected document”.
Description	This information provides the start and end date and time covered by the document that is expected.
Size	The start and end date and time must be expressed as YYYY-MM-DDTHH:MMZ/YYYY-MM-DDTHH:MMZ.
Applicability	This information is mandatory.
Dependence requirements	None.

119 2.1.10 EXPECTED DOCUMENT TYPE

ACTION	DESCRIPTION
Definition of element	The coded type of the document either expected (escalation procedure) or not issued (problem statement).
Description	The document type identifies the information that was either not received (escalation) or not sent (problem statement). Refer to Code list document for valid codes.
Size	The document type value may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

120 2.1.11 EXPECTED DOCUMENT DEADLINE

ACTION	DESCRIPTION
Definition of element	Date and time of the expected transmission of the expected document.
Description	The date and time that the document was expected by the receiver.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	This information is mandatory.
Dependence requirements	None.

121 2.1.12 EXPECTED PROCESS TYPE

ACTION	DESCRIPTION
Definition of element	The nature of the process that the expected document is directed at.
Description	The process type identifies the process to which the information flow of the expected document is directed. Refer to ETSO Code list document for the valid list of codes.
Size	The expected process type value may not exceed 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

122 2.1.13 EXPECTED DELIVERY DATE TIME

ACTION	DESCRIPTION
Definition of element	Date and time of expected delivery of the document.
Description	The date and time when the document is expected to be prepared for transmission by the application of the sender.
Size	The date and time must be expressed in UTC as YYYY-MM-DDTHH:MM:SSZ.
Applicability	.Dependent
Dependence requirements	This information is mandatory for the Problem Statement Document when the reason code is A92 but not for the Escalation Document.

123 2.1.14 DOMAIN -CODINGSCHEME

ACTION	DESCRIPTION
Definition of element	The domain covered within the Escalation Document.
Description	The codification scheme used for the coded identification is indicated by the coding scheme attribute. It is a 3 character alphanumeric code. Refer to Code list document for valid coding scheme codes.
Size	The maximum length of this information is 16 alphanumeric characters. The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Usage is defined by local market rules

2.2 RULES GOVERNING THE REASON CLASS

The reason class provides the reason for the transmission of the Problem Statement Document.

2.2.1 REASON CODE

ACTION	DESCRIPTION
Definition of element	A coded indication of the reason for the transmission of the document..
Description	<p>The reason code is used to identify the reason for the transmission of the .document. If necessary additional information may be provided in the Reason Text.</p> <p>The following codes have currently been identified:</p> <ul style="list-style-type: none"> ✓ A91: Expected document not received. ✓ A92: Not possible to send document on time, but estimated delivery time is provided. ✓ A93: Not possible to send document on time, and furthermore no expected time of return to normal situation.
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is Mandatory.
Dependence requirements	None

2.2.2 REASON TEXT

ACTION	DESCRIPTION
Definition of element	Additional textual information.
Description	Additional textual information may be provided to further detail the motivations for the transmission of the document.
Size	The maximum length of this information is 512 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	Only used if additional explanatory information is necessary.

3 XML DEFINITIONS

3.1 PROBLEM STATEMENT DOCUMENT

3.1.1 PROBLEM STATEMENT DOCUMENT - SCHEMA STRUCTURE

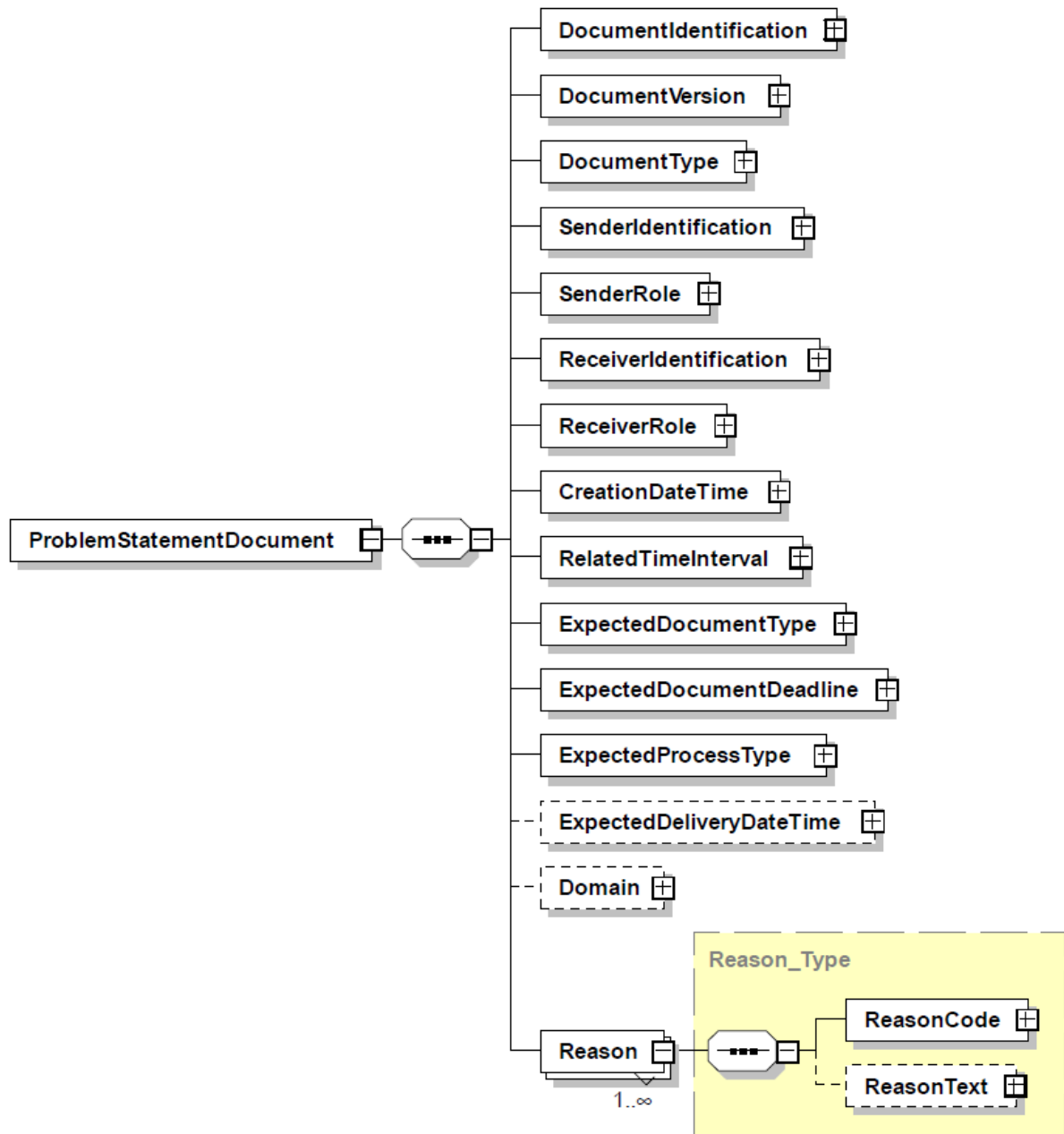


FIGURE 3: PROBLEM STATEMENT DOCUMENT XML SCHEMA STRUCTURE

3.1.2 PROBLEM STATEMENT DOCUMENT - SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="urn:entsoe.eu:wgedi:components" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="urn:entsoe.eu:wgedi:epspd:problemstatementdocument:2:0"
targetNamespace="urn:entsoe.eu:wgedi:epspd:problemstatementdocument:2:0" elementFormDefault="qualified"
attributeFormDefault="unqualified" ecc:VersionRelease="15.0">
  <xsd:import namespace="urn:entsoe.eu:wgedi:components" schemaLocation="../../core/urn-entsoe-eu-wgedi-
components.xsd"/>
  <xsd:include schemaLocation="urn-entsoe-eu-wgedi-epspd-problemstatementdocument-2-0-restricted-codes.xsd"/>
  <!--
      ENTSO-E Document Automatically generated from a UML class diagram using XML.
      Generation tool version 1.7
  -->
  <xsd:element name="ProblemStatementDocument">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="DocumentIdentification" type="ecc:IdentificationType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="DocumentVersion" type="ecc:VersionType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="DocumentType" type="DocumentType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="SenderIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="SenderRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ReceiverIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ReceiverRole" type="ecc:RoleType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="CreationDateTime" type="ecc:DateTimeType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="RelatedTimeInterval" type="ecc:TimeIntervalType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ExpectedDocumentType" type="ecc:DocumentType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
```



```

203         <xsd:element name="ExpectedDocumentDeadline" type="ecc:DateTimeType">
204             <xsd:annotation>
205                 <xsd:documentation/>
206             </xsd:annotation>
207         </xsd:element>
208         <xsd:element name="ExpectedProcessType" type="ecc:ProcessType">
209             <xsd:annotation>
210                 <xsd:documentation/>
211             </xsd:annotation>
212         </xsd:element>
213         <xsd:element name="ExpectedDeliveryDateTime" type="ecc:DateTimeType"
214             minOccurs="0">
215             <xsd:annotation>
216                 <xsd:documentation/>
217             </xsd:annotation>
218         </xsd:element>
219         <xsd:element name="Domain" type="ecc:AreaType" minOccurs="0">
220             <xsd:annotation>
221                 <xsd:documentation/>
222             </xsd:annotation>
223         </xsd:element>
224         <xsd:element name="Reason" type="Reason_Type" maxOccurs="unbounded"/>
225     </xsd:sequence>
226 </xsd:complexType>
227 </xsd:element>
228 <xsd:complexType name="Reason_Type">
229     <xsd:annotation>
230         <xsd:documentation/>
231     </xsd:annotation>
232     <xsd:sequence>
233         <xsd:element name="ReasonCode" type="ReasonCodeType">
234             <xsd:annotation>
235                 <xsd:documentation/>
236             </xsd:annotation>
237         </xsd:element>
238         <xsd:element name="ReasonText" type="ecc:ReasonTextType" minOccurs="0">
239             <xsd:annotation>
240                 <xsd:documentation/>
241             </xsd:annotation>
242         </xsd:element>
243     </xsd:sequence>
244 </xsd:complexType>
245 </xsd:schema>
246

```