

SECTION

III

01

General Messages

CONTRL

***Syntax and service report
Message***

Version 4.0



EASEE-gas/Edig@s Workgroup

Document version: 2

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Please note that as of version 5 of the Edig@s message set;
only the XML syntax shall be supported
This is in compliance with the EASEE-gas CBP 2007-005/01

1 INTRODUCTION

This document provides the definition of the Edig@s Syntax and Service Report - CONTRL - message to be used in Electronic Data Interchange (EDI) between Gas Companies.

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

1.1 FUNCTIONAL DEFINITION

A CONTRL message can be used to:

- a) reject a received interchange or message and list any errors contained therein, or
- b) indicate only the receipt of an interchange.

The response shall be sent from the recipient (B) of the subject interchange to the sender of the subject interchange (A) as a single CONTRL message.

The current definition of the message, as described in this guideline reflects its use in the current Gas Industry procedure. It does not however preclude the use of this message between other parties than those indicated in this description. The criteria for the use of the message should be its functionality rather than the parties involved.

1.2 PRINCIPLES

A CONTRL message indicates

- the action taken by the recipient as the result of a syntactical check of the subject interchange, or alternatively
- only receipt of the interchange.

In the first case, the rejection indicates the result of a syntactical check of the complete received interchange. The action may be indicated for the complete interchange, or it may be indicated for individual parts of it. The CONTRL message must indicate the action for all parts of the subject interchange.

In the second case, only receipt of the subject interchange is indicated.

Indication of interchange receipt implies that the recipient of the subject interchange

- has received the interchange, and
- acknowledges the parts of the interchange that have been checked in order to assure that the data elements copied into the reporting UCI segment are syntactically correct, and
- has accepted liability for notifying the sender of acknowledgement or rejection of the other parts of the interchange, and
- has taken reasonable precautions in order to ensure that the sender is so notified.

Rejection implies that the recipient of the subject interchange

- can not acknowledge the interchange, or relevant part of it, for reasons indicated in the CONTRL message, and
- will not take any further action on business information contained in the rejected part of the interchange.

Edig@s recommends that the CONTRL message be used to syntactically reject, with error indication, a received interchange, or message.

1.3 FIELD OF APPLICATION

The CONTRL message shall be used for the receipt or rejection of a received interchange, group or message and list any syntactical errors or unsupported functionality therein.

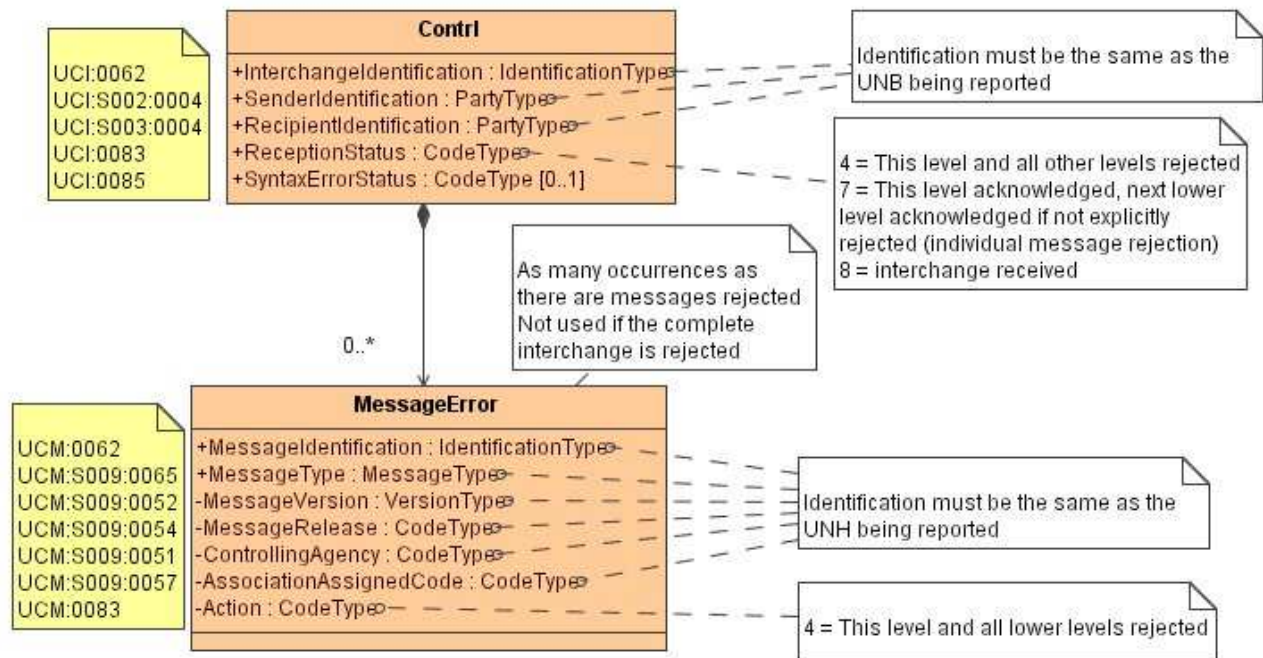
1.4 REFERENCES

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

2 INFORMATION MODEL FOR CONTRL

2.1 Information model

The CONTRL template is based on the EDIFACT CONTRL message. This structure illustrates how the segments will be used in this template.



2.2 INFORMATION MODEL DESCRIPTION

2.2.1 Rules governing the Contrl Class

2.2.1.1 INTERCHANGE IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification of the EDIFACT UNB that the Contrl document is replying to.
Description	This provides the identification of the EDIFACT UNB segment that the Contrl messages refers to (i.e. Data element 0020 – Interchange Control Reference).
Size	The identification may not exceed 14 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

2.2.1.2 SENDER IDENTIFICATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who has initiated the EDIFACT interchange that is being acknowledged.
Description	This should provide the identification of the sender as defined in the EDIFACT UNB (e.g. S002:0004 Sender Identification). The codification scheme that was used for the coded identification is indicated by the coding scheme attribute and shall be the same as that provided in the EDIFACT UNB segment (i.e. S002:0007 Partner Identification Code qualifier).
Size	The maximum length of Sender Identification is 35 alphanumeric characters. The maximum length of the coding scheme code is 4 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

2.2.1.3 RECIPIENT IDENTIFICATION – CODING SCHEME

ACTION	DESCRIPTION
Definition of element	Identification of the party who received the EDIFACT interchange that is being acknowledged.
Description	This should provide the identification of the recipient as defined in the EDIFACT UNB (e.g. S003:0010 Recipient Identification). The codification scheme that was used for the coded identification is indicated by the coding scheme attribute and shall be the same as that provided in the EDIFACT UNB segment (i.e. S003:0007 Partner Identification Code qualifier).
Size	The maximum length of a recipient identification is 35 alphanumeric characters. The maximum length of the coding scheme code is 4 alphanumeric characters.
Applicability	Both the identification and the coding scheme are mandatory.
Dependence requirements	None.

2.2.1.4 RECEPTION STATUS

ACTION	DESCRIPTION
Definition of element	The status of the interchange being acknowledged
Description	This provides the status of the EDIFACT interchange being acknowledged. The permitted codes are: 4 = This level and all lower levels rejected 7 = This level acknowledged, next lower level acknowledged if not explicitly rejected (individual message rejection) 8 = Interchange received
Size	The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None

2.2.1.5 SYNTAX ERROR STATUS

ACTION	DESCRIPTION
Definition of element	The status of the errors that have occurred in the interchange being acknowledged
Description	This provides the status of the errors that have occurred in the EDIFACT interchange being acknowledged. The permitted codes are: 2 = Syntax version or level not supported 7 = Interchange recipient not actual recipient 17 = No agreement 18 = Unspecified error 19 = Invalid decimal notation 21 = Invalid character(s) 23 = Unknown interchange sender 24 = Too old 25 = Test indicator not supported 26 = Duplicate detected 28 = References do not match 29 = Control count does not match number of instances received 32 = Lower level empty 35 = Too many segment repetitions 36 = Too many segment group repetitions 41 = Permanent communication network error 42 = Temporary communication network error 43 = Unknown interchange recipient
Size	The maximum length of the coding scheme code is 3 alphanumeric characters.
Applicability	This information is dependent.
Dependence requirements	The syntax error status is provided only where the Reception Status equals 4 or 7

2.2.2 Rules governing the Message Error class

The Message Error class may provide any coded or textual information that is necessary to completely describe a rejection of a specific message in an interchange.

2.2.2.1 MESSAGE IDENTIFICATION

ACTION	DESCRIPTION
Definition of element	The identification of the message being rejected
Description	The Message Identification shall be the same as the identification identified in the EDIFACT UNH segment (i.e. 0062, Message Reference Number).
Size	The maximum length of this information is 14 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.2.2 MESSAGE TYPE

ACTION	DESCRIPTION
Definition of element	The type of the message being rejected
Description	The Message Type shall be the same as that identified in the EDIFACT UNH segment (i.e. S009:0065, Message Type).
Size	The maximum length of this information is 6 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.2.3 MESSAGE VERSION

ACTION	DESCRIPTION
Definition of element	The version of the message being rejected
Description	The Message Version shall be the same as that identified in the EDIFACT UNH segment (i.e. S009:0052, Message Version Number).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.2.4 MESSAGE RELEASE

ACTION	DESCRIPTION
Definition of element	The release of the message being rejected
Description	The Message Release shall be the same as that identified in the EDIFACT UNH segment (i.e. S009:0064, Message Release Number).
Size	The maximum length of this information is 3 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.2.5 CONTROLLING AGENCY

ACTION	DESCRIPTION
Definition of element	The rControlling Agency of the message being rejected
Description	The Controlling Agency shall be the same as that identified in the EDIFACT UNH segment (i.e. S009:0051, Controlling Agency).
Size	The maximum length of this information is 2 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

2.2.2.6 ASSOCIATION ASSIGNED CODE

ACTION	DESCRIPTION
Definition of element	The code assigned for the message set of the message being rejected
Description	The Association Assigned Code shall be the same as that identified in the EDIFACT UNH segment (i.e. S009:0057, Message Release Number).
Size	The maximum length of this information is 6 alphanumeric characters.
Applicability	This information is mandatory.
Dependence requirements	None.

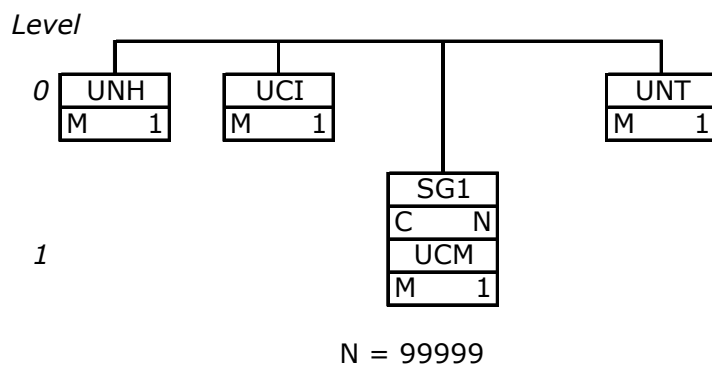
2.2.2.7 ACTION

ACTION	DESCRIPTION
Definition of element	The identification of the action taken concerning a message
Description	The Action shall identify any messages that have been explicitly rejected in the interchange.
Size	The maximum length of this information is 3 alphanumeric characters. The permitted codes are: 4 = This level and all lower levels rejected
Applicability	This information is mandatory.
Dependence requirements	None.

3 EDIFACT IMPLEMENTATION OF CONTRL

Note: The Information Model Description in section 2 shall always take precedence if there is any contradictory information provided in this section.

3.1 Edig@s subset of the UN/EDIFACT CONTRL Branching Diagram



4 EDIFACT TEMPLATE DESCRIPTION

This template is applicable when the *CONTRL* message is used for the following purpose(s):

Message purpose	UNH - 0057=
CONTRL: message syntactically rejecting, with error indication, a received interchange, group or message.	EGAS04

The segments are shown in abbreviated form. For a full description of the segments refer to the description as found in section V Segment Directory.

HEADER SECTION

The content of UN/EDIFACT Interchange segments UNB/UNZ are defined in the general introduction. The basic principle for an [Edig@s](#) Interchange being that there shall be only one UN/EDIFACT Message per Interchange.

UNH	MESSAGE HEADER – To head, identify and specify a Message			
0062	M	an..14	MESSAGE REFERENCE NUMBER	Unique message reference assigned by the sender.
S009:0065	M	an..6	Message type	Code identifying a type of message and assigned by its controlling agency. CONTRL (=Control message)
S009:0052	M	an..3	Message version number	Version number of a message type. D (=Directory)
S009:0054	M	an..3	Message release number	Release number within the current message type version number (0052). 3 (= directory release)
S009:0051	M	an..2	Controlling agency	Code to identify the agency controlling the specification, maintenance and publication of the message type. UN (=UN/ECE)
S009:0057	M	an..6	Association assigned code	A code assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message. EGAS40 (=Edig@s subset identification)
0068	N	an..35	COMMON ACCESS REFERENCE	Reference serving as a key to relate all subsequent transfers of data to the same business case or file. NOT USED
S010:0070	N	n..2	Sequence of transfers	Number assigned by the sender indicating the numerical sequence of one or more transfers. NOT USED
S010:0073	N	a1	First and last transfer	Indication used for the first and last message in a sequence of the same type of message relating to the same topic. NOT USED
Remarks	There is one mandatory occurrence of UNH per message.			
Example	UNH+1+CONTRL:D:3:UN:EGAS40'			

UCI - M		0020 – INTERCHANGE RESPONSE – To identify the subject interchange, to indicate interchange receipt, to indicate acknowledgement or rejection (action taken) of the UNA, UNB and UNZ segments, and to identify any error related to these segments. Depending on the action code, it may also indicate the action taken on the functional groups and messages within that interchange.		
0020	M	An..14	INTERCHANGE CONTROL REFERENCE	Unique reference assigned by the sender to an interchange <i>Identical to ICR number in UNB-0020 of subject interchange</i>
S002:0004	M	an..35	Sender identification	Name or coded representation of the sender of a data interchange <i>Identical to UNB-S002:0004 of the subject interchange</i>
S002:0007	M	an..4	Partner identification code qualifier	Qualifier referring to the source of codes for the identifiers of interchanging partners <i>Identical to UNB-S002:0007 in subject interchange</i>
S002:0008	N	An..14	Address for reverse routing	Address specified by the sender of an interchange to be included by the recipient in the response interchanges to facilitate internal routing NOT USED
S003:0010	M	an..35	Recipient identification	Name or coded representation of the recipient of a data interchange <i>Identical to UNB-S003:0010 of the subject interchange</i>
S003:0007	M	an..4	Partner identification code qualifier	Qualifier referring to the source of codes for the identifiers of interchanging partners <i>Identical to UNB-S003:0007 in subject interchange</i>
S003:0014	N	An..14	Routing address	Address specified by the recipient of an interchange to be included by the sender and used by the recipient for routing of received interchanges inside his organisation NOT USED
0083	M	an..3	ACTION, CODED	A code indicating acknowledgement, or rejection (the action taken) of a subject interchange, or part of the subject interchange <i>See restricted code list below</i>
0085	M	an..3	SYNTAX ERROR, CODED	A code indicating the syntax error detected
0013	N	a3	SERVICE SEGMENT TAG, CODED	Code identifying a segment NOT USED
S011:0098	N	n..3	Erroneous data element position in segment	The numerical count position of the simple or composite data element in error. The segment code and each following simple or composite data element defined in the segment description shall cause the count to be incremented. The segment tag has position number 1 NOT USED
S011:0104	N	n..3	Erroneous component data element position	The numerical count position of the component data element in error. Each component data element position defined in the composite data element description shall cause the count to be incremented. The count starts at 1 NOT USED
Remarks		<i>There is one mandatory occurrence of the UCI segment per message.</i>		
Example		UCI+2003003096+8712423009165:14+8717185180008:14+4+2'		

Restricted code list for UCI-0083

4	This level and all lower levels rejected
7	This level acknowledged, next lower level acknowledged if not explicitly rejected (individual message rejection)
8	Interchange received

Restricted code list for UCI-0085	
2	Syntax version or level not supported
7	Interchange recipient not actual recipient
17	No agreement
18	Unspecified error
19	Invalid decimal notation
21	Invalid character(s)
23	Unknown interchange sender
24	Too old
25	Test indicator not supported
26	Duplicate detected
28	References do not match
29	Control count does not match number of instances received
32	Lower level empty
35	Too many segment repetitions
36	Too many segment group repetitions
41	Permanent communication network error
42	Temporary communication network error
43	Unknown interchange recipient

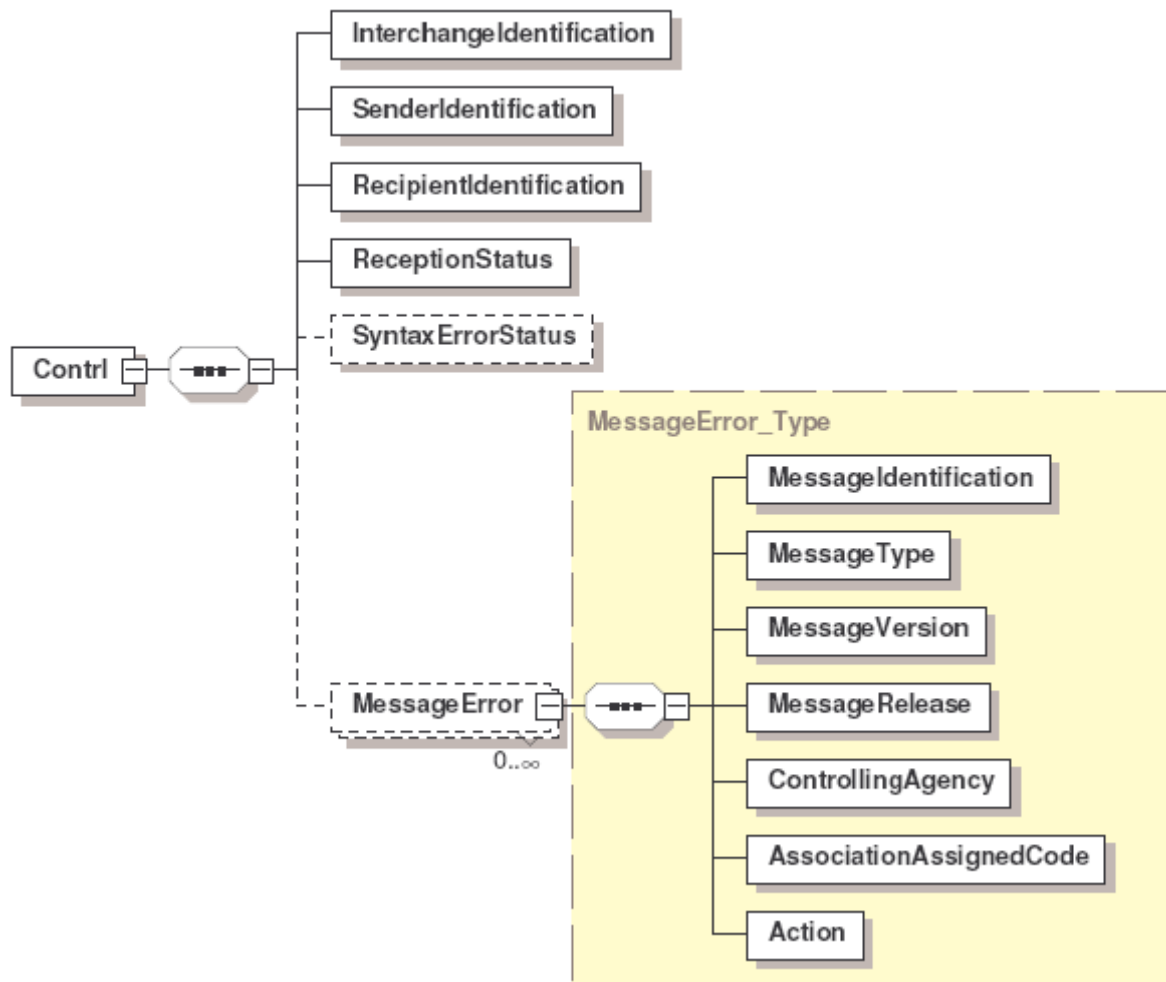
SG1 – C	UCM
Remarks	A group of segments sent in response to a message in the subject interchange identified in the UCI segment. This segment group is only used in the case where a message is rejected.

UCM – M		0040 – MESSAGE RESPONSE – To identify a message in the subject interchange, and to indicate that message's acknowledgement or rejection (action taken), and to identify any error related to the UNH and UNT segments		
0062	M	an..14	MESSAGE REFERENCE NUMBER	Unique message reference assigned by the sender <i>Identical to UNH:0062 of the original message</i>
S009:0065	M	an..6	Message type	Identification of the type, version etc. of the message being interchanged <i>Identical to UNH:S009:0065 of the original message</i>
S009:0052	M	an..3	Message version number	Code identifying a type of message and assigned by its controlling agency <i>Identical to UNH:S009:0052 of the original message</i>
S009:0054	M	an..3	Message release number	Version number of a message type <i>Identical to UNH:S009:0054 of the original message</i>
S009:0051	M	an..2	Controlling agency	Release number within the current message type version number (0052) <i>Identical to UNH:S009:0051 of the original message</i>
S009:0057	M	an..6	Association assigned code	Code to identify the agency controlling the specification, maintenance and publication of the message type <i>Identical to UNH:S009:0057 of the original message</i>
0083	M	an..3	ACTION, CODED	A code assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message 4 (=This level and all lower levels rejected)
0085	N	C	SYNTAX ERROR, CODED	A code indicating the syntax error detected NOT USED
0013	N	C	SERVICE SEGMENT TAG, CODED	Code identifying a segment NOT USED
S011:0098	N	n..3	Erroneous data element position in segment	The numerical count position of the simple or composite data element in error. The segment code and each following simple or composite data element defined in the segment description shall cause the count to be incremented. The segment tag has position number 1 NOT USED
S011:0104	N	n..3	Erroneous component data element position	The numerical count position of the component data element in error. Each component data element position defined in the composite data element description shall cause the count to be incremented. The count starts at 1 NOT USED
Remarks				
Example UCM+2003003096+ ORDERS:D:07A:UN +4'				

UNT – M		MESSAGE TRAILER – To end and check the completeness of a Message		
0074	M	n..6	NUMBER OF SEGMENTS IN THE MESSAGE	Control count of number of segments in a message. Total number of segments in message (including UNH & UNT)
0062	M	an..14	MESSAGE REFERENCE NUMBER	Unique message reference assigned by the sender. <i>Must be identical to UNH-0062</i>
Remarks There is one mandatory occurrence of UNT at the end of the message.				
Example UNT+175+1'				

5 XML IMPLEMENTATION OF CONTRL

5.1 XML Structure



5.2 XML Schema

5.2.1 Introduction

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

- Version: "EGAS40". This corresponds to the Edig@s package identification.
- Release: "2". This corresponds to the Message Implementation Guide Version number.

5.2.2 Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns:ecc="core-cmpts.xsd" xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified" ecc:VersionRelease="3.5">
  <xsd:import namespace="core-cmpts.xsd" schemaLocation="../../cclib/core-cmpts.xsd"/>
  <!--
    EDIGAS Document Automatically generated from a UML class diagram using XML.
    Generation tool version 1.7
  -->
  <xsd:element name="Contrl">
    <xsd:complexType>
      <xsd:annotation>
        <xsd:documentation/>
      </xsd:annotation>
      <xsd:sequence>
        <xsd:element name="InterchangeIdentification" type="ecc:IdentificationType">
          <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="RecipientIdentification" type="ecc:PartyType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="ReceptionStatus" type="ecc:CodeType">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="SyntaxErrorStatus" type="ecc:CodeType" minOccurs="0">
          <xsd:annotation>
            <xsd:documentation/>
          </xsd:annotation>
        </xsd:element>
        <xsd:element name="MessageError" type="MessageError_Type" minOccurs="0" maxOccurs="unbounded"/>
      </xsd:sequence>
      <xsd:attribute name="Version" type="xsd:string" use="required"/>
      <xsd:attribute name="Release" type="xsd:string" use="required"/>
    </xsd:complexType>
  </xsd:element>
  <xsd:complexType name="MessageError_Type">
    <xsd:annotation>
      <xsd:documentation/>
    </xsd:annotation>
    <xsd:sequence>
      <xsd:element name="MessageIdentification" type="ecc:IdentificationType">
        <xsd:annotation>
          <xsd:documentation/>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="MessageType" type="ecc:MessageType">
        <xsd:annotation>
          <xsd:documentation/>
        </xsd:annotation>
      </xsd:element>
      <xsd:element name="MessageVersion" type="ecc:VersionType">
```



```
<xsd:annotation>
  <xsd:documentation/>
</xsd:annotation>
</xsd:element>
<xsd:element name="MessageRelease" type="ecc:CodeType">
  <xsd:annotation>
    <xsd:documentation/>
  </xsd:annotation>
</xsd:element>
<xsd:element name="ControllingAgency" type="ecc:CodeType">
  <xsd:annotation>
    <xsd:documentation/>
  </xsd:annotation>
</xsd:element>
<xsd:element name="AssociationAssignedCode" type="ecc:CodeType">
  <xsd:annotation>
    <xsd:documentation/>
  </xsd:annotation>
</xsd:element>
<xsd:element name="Action" type="ecc:CodeType">
  <xsd:annotation>
    <xsd:documentation/>
  </xsd:annotation>
</xsd:element>
</xsd:sequence>
</xsd:complexType>
</xsd:schema>
```

6 DOCUMENT CHANGE LOG

Package	Version	Date	Description
4.0	1	2007-12-31	Version 4 issued
4.0	2	2009-04-27	Addition of the model definition