Nordea

Implementation Guideline for CONTRL

Corporate eGateway

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1 Introduction

The purpose of this documentation is to define how information in control messages will be structured for the exchange between the EDI-Centre at Nordea and the Customer.

This MIG fully complies to the international definitions for content and use of an UN/EDIFACT Syntax and service report message (CONTRL).

This MIG does not include any issues such as retransmissions and error handling on receipt of a negative CONTRL message. These issues as well as the service-segments related to the exchange are described in other parts of the customer documentation.

For a full understanding of the use of the CONTRL message we refer to documents "User guide for EDIFACT" and "Security and Communication description".

2 Document references

This chapter contains references to documents relevant for this MIG:

[1] UN/EDIFACT Standard message, Syntax and service report message - CONTRL, dated 1997-01-31, based on version 3 of ISO 9735 (Edifact syntax).

[2] *Guide to the development of implementation guidelines for users of UNSM*. 6th draft, dated 1992-09-17, JRT UNSM User Implementation Guidelines Group.

3 Syntax and service report message identifications

Identification of report levels:

Reference type	Position in Message	Description
Interchange reference number	UCI	Reference to Interchange
Message reference number	UCM	Reference to message

4 Principles of use

One CONTRL message shall be generated for one (and only one) interchange.

The use of CONTRL messages will be specified in the main EDI Agreement, together with enclosed Appendix A to the main EDI Agreement.

- A CONTRL message may be sent for each received interchange, or a CONTRL message is only sent when requested in the UNB segment in element 0031. Nordea will always send CONTRL for each received interchange, independent of the value in element 0031. Unless specified in the EDI agreement Nordea will always request a CONTRL in element 0031 on outgoing interchanges.
- CONTRL will be sent by Nordea for all message types except CONTRL, AUTACK, CIPHER and CONFID. Note that this means that Nordea never will reject security errors with a negative CONTRL.
- Nordea expects to receive CONTRL on all messages except CONTRL, AUTACK, CIPHER and CONFID, since Nordea will always request CONTRL in element 0031 in UNB. Note that this means that Nordea does not expect to receive a negative CONTRL for security errors.
- The CONTRL message may acknowledge or reject a complete interchange without referencing messages contained within it (using only the UCI segment). Nordea will reject errors in the UNB segment (duplicate interchanges or interchange too old) with this kind of negative CONTRL message, independent of the message type included in the interchange. Nordea may also send this kind of negative CONTRL for errors in the service segments (UNA, UNB, UNZ) in messages where CONTRL is not supported on messages level (i.e. CONTRL etc).
- The CONTRL message may also acknowledge or reject on message level within an interchange (using the UCI and UCM segments). For errors other than the above, Nordea will always specify all messages within the interchange with an UCM segment, even if the error is on interchange level. However, Nordea will never reject a single message, but all messages in an interchange will be rejected if an error is found in one of the messages.
- Errors can be specified on interchange level (in UCI segment), on message level (in UCM segment), on segment level (in UCS segment) or on element level (in UCD segment). This error specification is used to locate the erroneous message and/or segment within the interchange.

5   Segment table

The segment table below, lists all segments and segment groups that are included in the CONTRL (Syntax and service report message). Segments and groups which are used according to this MIG, are listed in bold. The status and number of repeats are listed for EDIFACT and for usage according to this MIG under Nordea.

```
                             Status/Repeats
Tag  Name                                        EDIFACT Nordea        Loop

UNH  Message header                                M1 M1
UCI  Interchange response                          M1 M1

     ------ Segment group 1  ------------ C999999 O999999------+
UCM  Message response                              M1 M1               ¦
                                                                       ¦
     ------ Segment group 2  -------------- C999 O999 -------+¦
UCS  Segment error indication                      M1 M1            ¦¦
UCD  Data element error indication                 C99 O99 ---------+

     ------ Segment group 3  ------------ C999999  0 ----------+
UCF  Functional group response                     M1  0              ¦
                                                                      ¦
     ------ Segment group 4  ------------ C999999  0 ---------+¦
UCM  Message response                              M1  0           ¦¦
                                                                   ¦¦
     ------ Segment group 5  -------------- C999  0 --------+¦¦
UCS  Segment error indication                      M1  0         ¦¦¦
UCD  Data element error indication                 C99  0 ----------+

UNT  Message trailer                               M1 M1
```

6 Specification of segments and segment groups

UNH - Message header (M1)

Function: A service segment starting and uniquely identifying the message.

Tag:	Name:	Status:	Repr:	Use:	Use of elements in the message:
0 062	MESSAGE REFERENCE NUMBER	M	an..14	M	Senders unique identification of the message
S009	MESSAGE IDENTIFIER	M		M	
0 065	Message type	M	an..6	M	CONTRL
0 052	Message version number	M	an..3	M	D
0 054	Message release number	M	an..3	M	3
0 051	Controlling agency	M	an..2	M	UN United Nations
0 057	*Association assigned code*	*C*	*an..6*	*N*	
0 068	*COMMON ACCESS REFERENCE*	*C*	*an..35*	*N*	
S010	*STATUS OF THE TRANSFER*	*C*		*N*	
0 070	*Sequence message transfer number*	*M*	*n..2*		
0 073	*First/last sequence message transfer indication*	*C*	*a1*		

Example: UNH+1001+CONTRL:D:3:UN'

UCI – Interchange response (M1)

Function: A segment identifying the interchange being responded to. It also indicates
              interchange receipt, acknowledgement or rejection of the UNA, UNB and UNZ
              segments, and identifies any error related to these segments.

Use: Data elements 0083 and 0085 are used to indicate the status of the interchange, and in
              cases where errors are present, to identify the error.

              Errors in the UNA, UNB or UNZ segments may be identified in data elements 0013,
              S011. Data elements 0085, 0013 and S011 are only used when errors are being
              reported.

Tag:	Name:	Status:	Repr:	Use:	Use of elements in the message:
0020	INTERCHANGE CONTROL REFERENCE	M	an..14	M	**<Interchange number of interchange being responded to>**
S002	INTERCHANGE SENDER	M		M	Sender of interchange being responded to
0004	Sender identification	M	an..35	M	
0007	Partner identification code qualifier	C	an..4	O	
0008	Address for reverse routing	C	an..14	O	
S003	INTERCHANGE RECIPIENT	M		M	Recipient of interchange being responded to
0010	Recipient identification	M	an..35	M	
0007	Partner identification code qualifier	C	an..4	O	
0014	Routing address	C	an..14	O	
0083	ACTION, CODED	M	an..3	M	4 This level and all lower levels rejected 7 This level acknowledged, next lower level acknowledged if not explicitly rejected
0085	SYNTAX ERROR, CODED	C	an..3	D	
0013	SEGMENT TAG, CODED	C	a..3	D	UNA, UNB or UNZ
S011	DATA ELEMENT IDENTIFICATION	C		D	
0098	Erroneous data element position in segment	M	n..3	M	
0104	Erroneous component data element position	C	n..3	O	

Example: UCI+131+333666999+NORDEATEST:ZZ+7'

Code list for data element 0085:
                   2 = Syntax version not supported
                   12 = Invalid Value
                   13 = Missing
                   16 = Too many constituents
                   18 = Unspecified error
                   24 = Too old
                   26 = Duplicate detected
                   28 = References do not match
                   29 = Control count does not match number of instances received
                   39 = Data element too long

40 = Data element too short

Other errors sent to Nordea will be qualified as 18 = unspecified error.

Segment group 1 (O999999)

Function: A group of segments sent in response to a message in the interchange identified in the UCI segment.

UCM - Message response **(M1)**   **Segment group 1**

Function: A segment identifying a message in the interchange, indicating that message's acknowledgement or rejection.

Use: Data element 0083 is used to acknowledge or reject the message. Code 7 is used if the whole message with all lower levels has been acknowledged. Code 4 is used if the message has been rejected.

If the error causing the rejection has occurred in the UNH or UNT segments of a message, data elements 0013, S011 are used to identify the error. If the error has occurred in another segment within the message, the error is specified in segments UCS and possibly UCD. Data element 0085 should also be used to specify the type of error that has occurred.

Data elements 0085, 0013 and S011 are only used when errors are being reported.

Tag:	Name:	Status:	Repr:	Use:	Use of elements in the message:
0062	MESSAGE REFERENCE NUMBER	M	an..14	M	**<Message number of message being responded to>**
S009	MESSAGE IDENTIFIER	M		M	Message identification of message being responded to
0065	Message type identifier	M	an..6	M	
0052	Message type version number	M	an..3	M	
0054	Message type release number	M	an..3	M	
0051	Controlling agency	M	an..2	M	
0057	Association assigned code	C	an..6	O	
0083	ACTION CODED	M	an..3	M	4 This level and all lower levels rejected 7 This level acknowledged
0085	SYNTAX ERROR, CODED	C	an..3	D	
0013	SEGMENT TAG, CODED	C	a3	D	UNH or UNT
S011	DATA ELEMENT IDENTIFICATION	C		D	
0098	Erroneous data element position in segment	M	n..3	M	
0104	Erroneous component data element position	C	n..3	O	

Example: UCM+1+PAYMUL:D:96A:UN+4+13+UNH+2:4'

Code list for data element 0085:
        12 = Invalid Value
        13 = Missing
        16 = Too many constituents
        18 = Unspecified error
        28 = References do not match
        29 = Control count does not match number of instances received
        39 = Data element too long
        40 = Data element too short

Other errors sent to Nordea will be qualified as 18 = unspecified error.

Segment group 2 (O999)

Function: A group of segments sent in response to a segment containing one or more errors, which was part of the message identified by the UCM segment in segment group 1.

UCS – Segment error indication (M1)   Segment group 2

Function: A segment identifying a segment in the message, indicating that this segment contains an error, and identifying any error related to the complete segment.

Tag:	Name:	Status:	Repr:	Use:	Use of elements in the message:
0096	SEGMENT POSITION IN MESSAGE	M	n..6	M	
0085	SYNTAX ERROR, CODED	C	an..3	O	

Example: UCS+17+16'

Code list for data element 0085:
  12 = Invalid Value
  13 = Missing
  16 = Too many constituents
  18 = Unspecified Error
  35 = Too many segment repetitions
  36 = Too many segment group repetitions

Other errors sent to Nordea will be qualified as 18 = unspecified error.

UCD - Data element error indication **(O99)**   **Segment group 2**

Function: A segment identifying an erroneous simple, composite or component data element in the segment identified by the
UCS segment in segment group 2, and identifying the nature of the error.

Tag:	Name:	Status:	Repr:	Use:	Use of elements in the message:
0085	SYNTAX ERROR, CODED	M	an..3	M	
S011	DATA ELEMENT IDENTIFICATION	M		M	
0098	Erroneous data element position in segment	M	n..3	M	
0104	Erroneous component data element position	C	n..3	O	

Example: UCD+39+3:1'

Code list for data element 0085:
        12 = Invalid Value
        13 = Missing
        18 = Unspecified error
        39 = Data element too long
        40 = Data element too short

        Other errors sent to Nordea will be qualified as 18 = unspecified error.

UNT - Message trailer (M1)

Function: A service segment ending a message, giving the total number of segments in the message
                and the control reference number of the message.

Use: The control reference number in element 0062 must be the same as in UNH, and the total
                number of segments in the message, including UNH- and UNT-segments, must be stated
                in element 0074. The segment is used to verify a correctly transmitted message.

Tag:	Name:	Status:	Repr:	Use:	Use of elements in the message:
0074	NUMBER OF SEGMENTS IN A MESSAGE	M	n..6	M	Total number of segments in the message
0062	MESSAGE REFERENCE NUMBER	M	an..14	M	Message reference no

Example: UNT+20+1'