

Delphi Vega

Supplier EDI Specification



Control Message

EDIFACT CONTRL 2.2

Delphi Version 1.4

FINAL

**EDI IMPLEMENTATION GUIDELINES FOR Delphi EDIFACT CONTRL / ACKNOWLEDGEMENT/REJECTION
ADVICE MESSAGE**

Document Change Log

Version	Date	Description
1.2	1998.12.18	Document issued.
1.3	2000.03.15	Document re-issued, with the following changes.
	2000.03.15	Segment 0020 UCI, element 0083 will now contain only values "4" or "7", all others have been removed.
	2000.03.15	Segment 0030 UCM, element 0083 will now contain only values "4" or "7", all others have been removed.
1.4	2001.02.08	PIR 1311, Segments 0020UCI & 0030 UCM, element 0083 removed "8" as a valid value. Should have been removed in release 1.3

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GENERAL INFORMATION

PURPOSE

This Implementation Guideline details how DELPHI intends to exchange information using the Acknowledgement/Rejection Advice message. The same interpretation of the data elements should be used by both trading partners, whether they are the sender or receiver of the message. This message is commonly referred to as the CONTRL Message. CONTRL is a message syntactically acknowledging or rejecting, an interchange. Within the interchange it might also be used to notify the trading partners of an acknowledgement or rejection of any of its functional groups or messages. Explanations for the rejection are also clarified and communicated within the message.

APPLICATION

DELPHI plans to send the EDIFACT CONTRL message to acknowledge each interchange received, and to notify trading partners of a syntactically problem received in a previous interchange. Plans to migrate from the ANSI ASC X12 997 or other proprietary standards will be communicated as business plans dictate the need to change.

The typical business practice with most DELPHI applications will be to send a separate application communication (envelops) for each interchange. Thus, the use of functional groups will not be widely used. The effect of this on the CONTRL Guideline will be to limit the message to the use of the header, the UCI Segment, Segment Group 1, Segment Group 2 and the trailer.

Occasionally there may be a need for the use of functional groups. Responses to message with functional groups should only use the header, the UCI Segment, Segment Group 3, Segment Group 4, Segment Group 5 and the trailer.

A single CONTRL Message should never include both Segment Group 1 and Segment Group 3.

STRUCTURE OF THE DELPHI IMPLEMENTATION GUIDELINE

The DELPHI Implementation Guideline appearing on the following pages, include the EDIFACT Boilerplate, the Segment Table, Segment explanations and various examples of the CONTRL Message. The Segment Table is a summary of the entire EDIFACT Message, in the left-hand column DELPHI has identified when/if each Segment Group/ Segment is used. Each segment is defined as "Must Use", Not Used or a blank denotes that the segment may be used by

some DELPHI entities. User documentation may also be available for the DELPHI Application using the data provided from the message.

In the next portion of the document, the segment information requirements for data element usage are also defined. DELPHI will use the following symbols in the left column:

- >> DELPHI requires that information is provided
- X DELPHI does not expect to receive this information
- (blank) Some DELPHI locations may expect to receive this data.

The Attributes column, located on the right side of the Segment information, provides the EDIFACT status and element size. DELPHI plans to conform to the EDIFACT field parameters.

VERSION

The CONTRL message has been developed based on version 2/release 2 of the EDIFACT Standard.

RESPONSIBILITY

This document was developed by the DELPHI EDIFACT Guideline Development group with the approval of the DELPHI Electronic Commerce Business Process Team (ECBPT) and distributed internally to all DELPHI EDI and CISCO Coordinators.

MAINTENANCE

Changes to this document will be reviewed by one of the DELPHI Maintenance Work Group and will be subject to corporate approval through the ECBPT. The change process can only be initiated by individuals/ organizations within the DELPHI Organization.

SEGMENT DIRECTORY

CONTRL Syntax and Service Report Message

Introduction:

CONTRL is a message syntactically acknowledging or rejecting, with error indication, a received interchange, functional group or message. A CONTRL message can be used to acknowledge or reject a received interchange, functional group or message and list any errors contained therein.

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Group Repeat</u>	<u>Notes and Comments</u>
Must Use	010	UNH	Message Header	M	1		
Must Use	020	UCI	Interchange Response	M	1		
			Segment Group 1: UCM-SG2	C		999999	Messages without Functiona 1 Groups
	030	UCM	Message Response	M	1		
			Segment Group 2: UCS-UCD	C		999	
	040	UCS	Segment Error Indication	M	1		
	050	UCD	Data Element Error Indication	C	1		
			Segment Group 3: UCF-SG4	C		999999	Messages with Functiona 1 Groups
Must Use	100	UNT	Message Trailer	M	1		

DATA SEGMENTS

Segment: **UNH** Message Header
Position: 010
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To head, identify and specify a Message
Notes: UNH+0001+CONTRL:2:2:UN'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
>>	0062		Message reference number Unique message reference assigned by the sender. Must match the message reference number in the UNT.	M an..14
>>	S009		Message Identifier Identification of the type, version etc. of the message being interchanged.	M
>>		0065	Message type identifier Code identifying a type of message and assigned by its controlling agency. CONTRL Control message	M an..6
>>		0052	Message type version number Version number of a message type. 2	M an..3
>>		0054	Message type release number Release number within the current message type version number (0052). 2	M an..3
>>		0051	Controlling agency Code identifying the agency controlling the specification, maintenance and publication of the message type. UN UN/ECE/TRADE/WP.4, United Nations Standard Messages (UNSM)	M an..2
X		0057	Association assigned code Code, assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message.	C an..6
X	0068		Common access reference Reference serving as a key to relate all subsequent transfers of data to the same business case or file.	C an..35
X	S010		Status of the Transfer Statement that the message is one in a sequence of transfers relating to the same topic.	C
X		0070	Sequence message transfer number Number assigned by the sender indicating that the message is an addition or change of a previously sent message relating to the same topic.	M n..2
X		0073	First/last sequence message transfer indication	C a1

Indication used for the first and last message in a sequence of the same type of message relating to the same topic.

Segment: **UCI** Interchange Response
Position: 020
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To identify the subject interchange and 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.

Syntax Notes:

Semantic Notes:

Comments:

Notes:

UCI+00000000000064+BFT:ZZ+MZ7:ZZ+7'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
>>	0020		Interchange control reference Unique reference assigned by the sender to an interchange. Reference identification number unique for a calendar year.	M an..14
>>	S002		Interchange sender Identification of the sender of the interchange.	M
>>		0004	Sender identification Name or coded representation of the sender of a data interchange. Com Code or Mailbox of the sender of the initial interchange.	M an..35
		0007	Identification code qualifier Qualifier referring to the source of codes for the identifiers of interchanging partners.	C an..4
X		0008	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.	C an..14
>>	S003		Interchange recipient Identification of the recipient of the interchange.	M
>>		0010	Recipient identification Name or coded representation of the recipient of a data interchange. Com Code or Mailbox of the receiver of the initial interchange.	M an..35
		0007	Identification code qualifier Qualifier referring to the source of codes for the identifiers of interchanging partners.	C an..4
X		0014	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 organization.	C an..14

>>	0083	Action, coded	M an..3
		A code indicating acknowledgement, or rejection (the action taken) of a subject interchange, or part of the subject interchange.	
		4	This level and all lower levels rejected. The corresponding referenced-level and all lower referenced-levels are rejected. One or more errors are reported at this reporting-level or a lower reporting-level.
		7	This level acknowledged, next lower level acknowledged if not explicitly rejected. This corresponding reference-level is acknowledged. All messages or functional groups at the next lower reference-level are acknowledged except those explicitly reported as rejected at the Lower reporting-level in this CONTRL message.
	0085	Syntax error, coded	C an..3
		A code indicating the error detected. See Addendum A for complete listing of codes.	
	0013	Service segment tag, coded	C a..3
		Code identifying a segment	
	S011	Data Element Identification	C
		Identification of the position for an erroneous data element. This can be the position of a simple or composite data element in the definition of a segment or a component data element in the definition a composite data element.	
	0098	Erroneous data element position in segment.	M n..3
		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.	
	0104	Erroneous component data element position	C n..3
		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.	

Segment: **UCM** Message Response
Position: 030
Group: Segment Group 1 Conditional
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: 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.

Syntax Notes:

Semantic Notes:

Comments:

Notes:

All elements contained within this Segment were extracted from the UNH Segment of the originating message.

UCM+640001+DELFOR:D:97A:UN+7'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
>>	0062		Message reference number Unique message reference assigned by the sender.	M an..14
>>	S009		Message Identifier Identification of the type, version etc. of the message being interchanged.	M
>>		0065	Message type identifier Code identifying a type of message and assigned by its controlling agency.	M an..6
>>		0052	Message type version number Version number of a message type.	M an..3
>>		0054	Message type release number Release number within the current message type version number (0052).	M an..3
>>		0051	Controlling agency Code identifying the agency controlling the specification, maintenance and publication of the message type.	M an..2
X		0057	Association assigned code Code, assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message.	C an..6
>>	0083		Action, coded A code indicating acknowledgement, or rejection (the action taken) of a subject interchange, or part of the subject interchange.	M an..3
		4	This level and all lower levels rejected. The corresponding referenced-level and all lower referenced-levels are rejected. One or more errors are reported at this reporting-level or a lower reporting-level.	
		7	This level acknowledged, next lower level acknowledged if not explicitly rejected. This corresponding reference-level is acknowledged. All messages or functional groups at the next lower reference-level are acknowledged except those explicitly reported as rejected at the Lower reporting-level in this CONTRL message.	

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>>	0085	Syntax error, coded	C	a..3
		A code indicating the error detected. See Addendum A for complete listing of codes.		
>>	0013	Service segment tag, coded	C	a..3
		Code identifying a service segment		
>>	S011	Data Element Identification	C	
		Identification of the position for an erroneous data element. This can be the position of a simple or composite data element in the definition of a segment or a component data element in the definition a composite data element.		
>>	0098	Erroneous data element position in segment.	M	n..3
		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.		
>>	0104	Erroneous component data element position	C	n..3
		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.		

Segment: **UCS** Segment Error Indication
Position: 040
Group: Segment Group 2 Conditional
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: To identify either a segment containing an error or a missing segment, and to identify any error related to the complete segment.

Syntax Notes:
Semantic Notes:
Comments:

Notes: This Segment will only be used when the UCM Segment/data element 0083 is value 4 - rejected.

UCS+3' (Data element error - additional information in UCD Segment)
 UCS+3+13' (Segment error - syntax error included in this segment)

Data Element Summary

<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
>> 0096		Segment position in message	M n..6
		The numerical count position of a specific segment that is within the actual received message. The numbering starts with, and includes, the UNH segment as segment number 1. To identify a segment that contains an error, this is the numerical count position of that segment. To report that a segment is missing, this is the numerical count position of the last segment that was processed before the position where the missing segment was expected to be. A missing segment group is denoted by identifying the first segment in the group as missing.	
0085		Syntax error, coded	C an..3
		A code indicating the error detected. See Addendum A for complete listing of codes.	
		This element will only occur if the error is related to a segment rather than an element.	

Segment: **UCD** Data Element Error Indication
Position: 050
Group: Segment Group 2 Conditional
Level: 3
Usage: Conditional
Max Use: 1
Purpose: To identify an erroneous simple, composite or component data element, and to identify the nature of the error.

Syntax Notes:
Semantic Notes:
Comments:

Notes: This segment will only occur if the error is related to an element rather than a segment.

UCD+13+4'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
>>	0085		Syntax error, coded A code indicating the error detected. See Addendum A for complete listing of codes.	M an..3
>>	S011		Data Element Identification Identification of the position for an erroneous data element. This can be the position of a simple or composite data element in the definition of a segment or a component data element in the definition a composite data element.	M
>>		0098	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.	M n..3
		0104	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.	C n..3

UNT Message Trailer

Segment: 100
Position: 100
Group: 0
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To end and check the completeness of a Message
Syntax Notes:
Semantic Notes:
Comments:
Notes: UNT+5+0001'

Data Element Summary

	<u>Data Element</u>	<u>Component Element</u>	<u>Name</u>	<u>Attributes</u>
>>	0074		Number of segments in a message Control count of number of segments in a message.	M n..6
>>	0062		Message reference number Unique message reference assigned by the sender.	M an..14

EXAMPLES

Example #1 – Interchange Acknowledged (Interchange contained 2 UN/EDIFACT messages)

UNB+UNOA:2+VG4:ZZ+BFT:ZZ+980529:1639+00000000000065'
UNH+0001+CONTRL:2:2:UN'
UCI+00000000000064+BFT+VG4+7'
UCM+640001+DELFOR:D:97A:UN+7'
UCM+640002+DELFOR:D:97A:UN+7'
UNT+5+0001'
UNZ+1+00000000000065'

Example #2 - 4 Message Interchange/ 1 Message Rejected Segment Error

UNB+UNOA:2+VG4:ZZ+PBR:ZZ+991210:0051+296++CONTRL'
UNH+1+CONTRL:2:2:UN'
UCI+78+PBR:ZZ+VG4:ZZ+4'
UCM+1+DESADV:D:97A:UN+4+18+GIR'
UNT+4+1'
UNZ+1+296'

UNB+UNOA:2+VG4:ZZ+QBF:ZZ+991210:1421+61++CONTRL'
UNH+1+CONTRL:2:2:UN'
UCI+00000000000098+QBF:ZZ+VG4:ZZ+4'
UCM+00000000000076+DESADV:D:97A:UN+4+13+PCI+2'
UNT+4+1'
UNZ+1+61'

Example #3 - 3 Message Interchange/ 1 Message Rejected Data Element Error

UNB+UNOA:2+VG4:ZZ+BFT:ZZ+980601:1639+00000000210611'
UNH+0003+CONTRL:2:2:UN'
UCI+12345+BFT:ZZ+VG4:ZZ+7'
UCM+2224+DELFOR:D:97A:UN+7'
UCM+1168+DELFOR:D:97A:UN+4'
UCS+3'
UCD+13+4'
UCM+3340+DELFOR:D:97A:UN+7'
UNT+7+0003'
UNZ+1+00000000210611'

ADDENDUM A
Use of Error Codes - Data Element 0085

The table below describes the value of codes that may be sent in data element 0085 and at which reporting-level an error code may be used.

Code	Code Name	Segment				
		U C I	U C F	U C M	U C S	U C D
2	Syntax version or level not supported	x	—	—	—	—
7	Interchange recipient not actual recipient	x	—	—	—	—
12	Invalid value	x	x	x	x	x
13	Missing	x	x	x	x	x
14	Value not supported in this position	x	x	x	x	x
15	Not supported in this position	x	x	x	x	x
16	Too many constituents	x	x	x	x	x
17	No agreement	x	x	x	—	—
18	Unspecified error	x	x	x	x	x
20	Character invalid as service character	x	—	—	—	—
21	Invalid character(s)	x	x	x	x	x
22	Invalid service character(s)	x	x	x	x	x
23	Unknown Interchange sender	x	—	—	—	—
24	Too old	x	x	—	—	—
25	Test indicator not supported	x	x	x	—	—
26	Duplicate detected	x	x	x	—	—
28	References do not match	x	x	x	—	—
29	Control or octet count does not match number of instances received	x	x	x	—	—
30	Groups and messages/packages mixed	x	x	x	—	—
32	Lower level empty	x	x	—	—	—
33	Invalid occurrence outside message, package or group	x	x	—	—	—
35	Too many repetitions	—	—	x	x	x
36	Too many segment group repetitions	—	—	—	x	—
37	Invalid type of character(s)	x	x	x	—	x
39	Data element too long	x	x	x	—	x
40	Data element too short	x	x	x	—	x
45	Trailing separator	x	x	x	x	—
46	Character set not supported	x	—	—	—	—
47	Envelope functionality not supported	—	x	x	—	—
Legend:						
x = may be used						
— = shall not be used						