Delphi Vega
Supplier EDI Specification

Application Error & Acknowledgment Message
APERAK

EDIFACT APERAK D.97A
Delphi Version 1.1

Final

Document Change Log

Version	Date	Description
1.0	2001.02.08	Document issued.
1.1	2001.03.23	Corrections made to FTX+AAP definition. Corrections made to example of APERAK transaction.

0. TABLE OF CONTENT

1. INTRODUCTION

This document provides the specific description of a subset of the EDIFACT APERAK D97.A message to be used between a Trading Partner and Delphi.

2. MESSAGE DEFINITION

This document provides the definition of an Application Error and Acknowledgment Message, based on the EDIFACT DESADV D97.A, to be used in Electronic Data Interchange (EDI) between a Trading Partner and Delphi.

This documentation is fully comprehensive and allows the implementation of the EDIFACT APERAK without the necessity for any additional standard related documentation.

2.1. FUNCTIONAL DEFINITION

The Application error and Acknowledgement message is a message to a Delphi Supplier regarding any errors encountered in processing the DESADV into Delphi's application. It gives information concerning specific errors which caused the DESADV not to be processed successfully in order to prevent further errors from occurring. This message is for informational use only - another DESADV should NOT be sent to Delphi.

2.2. PRINCIPLES

The Application Error and Acknowledgement message intends to:

- advise the recipient of the specific errors encountered during the processing of the Shipment Advise message.
- allow the recipient to correct any errors to prevent further errors in future shipment advises.

An Application Error and Acknowledgement message can relate to:

- only the DESADV message currently.

The Application Error and Acknowledgement message will always include the Shippers Identification Number and/or the Document Number along with the sender and receiver identification.

As the information transmitted in the Application Error and Acknowledgement message is informational only, **it is not necessary to send another DESADV with the changes. Please use only to prevent future errors.**

2.3. REFERENCES

The content of this message is based on:

- the message structure as defined by EDIFACT for the UNSM Application Error and Acknowledgement message APERAK as published in the UN/EDIFACT D97.A Directory.

- the agreement between the Trading Partners on the data elements to be used, their unique definition, their representation and their values (coded or clear form) as identified in this document.

Delphi has opted for the EDIFACT D97.A Directory and consistently uses this directory for all its EDIFACT messages. Although the AVIEXP subset defined by ODETTE has been based on the EDIFACT D96.A Directory, the subset defined by Delphi and described in this document follows as close as possible the structure of the ODETTE subset.

2.4. FIELD OF APPLICATION

The following definition of an Application Error and Acknowledgement message in EDIFACT format is applicable for the interchange of errors received from processing the DESADV message.

3. MESSAGE DESCRIPTION

Following pages contain a full description of the EDIFACT APERAK D97.A message as implemented by Delphi. All segments are included regardless whether used or not used in the interchange with Delphi. The official EDIFACT segment description is complemented with remarks pertaining to the specific requirements for an interchange with Delphi. Those remarks contain specific code values used, additional information on the values shown in a specific field, etc.

3.1. INTRODUCTION

3.1.1. How to read the documentation

All segments in the subset used by Delphi are described in the following pages. The segment description is to be read as follows:

❶	**0020**		**BGM** - **BEGINNING OF MESSAGE**	
❷	Segment group:	none.	Level:	1.
❸	EDIFACT status:	mandatory.	Delphi status:	mandatory.
❹	Maximum use:	1 per message.	Delphi occurrences:	1 per message.
❺	Function:	segment for the unique identification of the delivery schedule document, by means of its name and its number.		
❺	Delphi interchange:	see remarks.		

---

❻ Example: **BGM+351+12+5'**

A   B   C

REF	TAG	EDIFACT STANDARD DEFINITION				Delphi IMPLEMENTATION		
		NAME	ST	FT	SP	ST	FT	REMARKS
A	C002	*DOCUMENT/MESSAGE NAME*	C			C		
	1001	Document/message name, coded	C	an..3	:	C	an..3	'351' = Despatch Advice
	1131	Code list qualifier	C	an..3	:			
	3055	Code list responsible agency, coded	C	an..3	:			
	1000	Document/message name	C	an..35	+			
B	C106	*DOCUMENT/MESSAGE IDENTIFICATION*	C					
	1004	Document/message number	C	an..35	:	C	an..35	Delphi assigned release number
	1056	Version	C	an..9	:			
	1060	Revision number	C	an..6	+			
C	1225	MESSAGE FUNCTION, CODED	C	an..3	+	C	an..3	Function of the message. For code values see below.
	4343	RESPONSE TYPE, CODED	C	an..3	'			

❿ **COMMENTS**

❿ **CODE VALUES**

LEGEND

❶ segment position in the message structure, segment tag and segment name.

❷ identification (when applicable) of the segment group in which the segment is situated and indication at which level the segment is in the message.

❸ status of the segment: as defined by EDIFACT and by Delphi.

❹ number of occurrences of the segment: as defined by EDIFACT and as used by Delphi.

❺ description of the function of the segment as defined by EDIFACT and as used by Delphi.

❻ example of the segment as it may appear in an interchange. This example is only illustrative and does not necessarily represent an actual situation. It should **NOT** be used as a basis to implement this message.

❼ definition of the segment content as defined by EDIFACT and as implemented by Delphi.

❽ identification of the data elements in the segment
  - reference to the example.
  - data element tag - data elements with a 'C' denote a composite data element.
  - data element name - *italic CAPITALS* denote a composite data element.
  - **ST** - the status of the data element.
  - **FT** - the format of the data element, i.e. the indication of the number of characters (numerical or alphabetical) for this data element.
  - **SP** - the separator used between the data elements.
  - remarks on the specific use of the data element in the interchange with Delphi.

❾ Shaded areas in the Delphi description mean that Delphi does not use the data elements.

❿ the segment description can be followed by:
  - comments providing more information regarding specific data elements and how they must be used and/or understood in messages from Delphi.
  - code values to be used for data elements contained in the message.

3.1.2. General remarks

Following remarks are applicable for the complete documentation:

Dates
Unless otherwise specified in the field explanation in the documentation, dates are always expressed as **CCYYMMDD** (qualifier 2379 = 102).

Times

Unless otherwise specified in the field explanation in the documentation, times are always expressed as **HHMM**.

3.2. SEGMENT TABLE

The following table shows the segments defined for the EDIFACT UNSM APERAK D97.A Application Error and Acknowledgement message. Shaded areas identify the segments that are not used in the subset of APERAK used by Delphi. This table, which should be read in conjunction with the branching diagram indicates the maximum number of occurrences for each segment.

POS.	TAG	NAME	ST	REPEATS	
0010	UNH	Message header	M	1	
0020	BGM	Beginning of message	M	1	
0030	DTM	Date/time/period	C	9	
0040	FTX	Free text	C	9	
0050	CNT	Control Total	C	9	
0060		**Segment group 1 REF-DTM**	**C**	**9**	
0070	RFF	Reference	M	1	
0080	DTM	Date/time/period	C	9	
0900		**Segment group 2 NAD-CTA-COM**	**C**	**10**	
0100	NAD	Name and address	M	1	
0110	CTA	Contact information	C	9	
0120	COM	Communication contact	C	9	
0130		**Segment group 3 ERC-FTX-SG4**	**C**	**99999**	
0140	ERC	Application Error Information	M	1	
0150	FTX	Free text	C	1	
0160		**Segment group 4 REF-FTX**	**C**	**10**	
0170	RFF	Reference	M	1	
0180	FTX	Free text	C	9	
0190	UNT	Message trailer	M	1	

3.3. MESSAGE STANDARD DESCRIPTION

This section provides the description of the UN Standard Message APERAK as defined in the 97.A Directory. Only the segments printed in bold are used in the subset defined by Delphi and will be further explained in section 3.6.

3.3.1   Header section

Information to be provided in the Header section:

0010   UNH, Message header
A service segment starting and uniquely identifying a message. The message type code for the Application Error and Acknowledgment Message is the APERAK.

0020   BGM, Beginning of message
A segment for unique identification of the Application Error and Acknowledgment Message, by means of its name and its number.

0030   DTM, Date/time/period
Date/time/period related to the whole message. The DTM segment is specified at least once to identify the Application Error and Acknowledgment Message date.

0040   FTX, Free Text
A segment indicating that the message to which the APERAK is responding.a

0050   CNT, Control Total
A segment by which control totals may be provided by sender for checking by the receiver.

0060   Segment group 1: RFF-DTM
A group of segments giving references where necessary, their dates relating to the whole message, e.g. contract number.

0070   RFF, Reference
A segment for referencing documents relating to the whole error application and acknowledgement message, e.g. Document number or Shipper's Identification Number

0080   DTM, Date/time/period
Date/time/period from the referred document.

0090   Segment group 2: NAD-CTA-COM
A group of segments identifying names, addresses, locations, and required supporting documents relevant to the whole Despatch Advice.

0100   NAD, Name and address
A segment for identifying names, addresses, and their functions relevant to the whole Application Error and Acknowledgment message. Identification of the parties involved is recommended for the Application Error and Acknowledgment message, and is to be given in the NAD segment.
It is recommended that the coded form of the party ID should be specified, e.g. the buyer and seller are known to each other, thus only the coded ID is required. The consignee or delivery address may vary and would have to be clearly specified, preferably in structured format.

0110   CTA, Contact information
A segment to identify the person, function or department to whom communication should be directed.

0120   COM, Communication contact
A segment to identify communication types and numbers for the person, function or department identified in the CTA.

3.3.2   Detailed section

0130   Segment group 3: ERC-FTX-SG4
A group of segments to identify the application error(s) within a specified received message and to give specific message and to give specific details related to the error type or to precise the type of acknowledgment.

0140   ERC, Application Error Information
A segment identifying the type of application error or acknowledgment within the referenced message. **In case of an error, the error code may specify the error in detail (e.g. a measurement relating to a piece of equipment is wrong) or as a rough indication (e.g. a measurement is wrong).**

0150   FTX, Free text
A segment to provide explanation and/or supplementary information related to the specified application error or acknowledgment. For example, the explanation may provide exact details relating to a generic error code.

0160   Segment group 4: RFF-FTX
A group of segments to specify the functional entity reference (e.g. goods item level, equipment level) relating to the specified error; further details can be added to identify the error more precisely.

0170   RFF, Reference
A segment to provide a reference relating to the acknowledgment type or the specified error (e.g. functional entity reference such as equipment level.)

0180   FTX, Free Text
A segment to provide additional details relating to the reference, e.g. the content of the wrong data (and its exact place in the message).

3.3.3   Summary section

0190   UNT, Message trailer
A service segment ending a message, giving the total number of segments in the message and the control reference number of the message.

3.4. MESSAGE STRUCTURE

The message structure illustrates how the segments can be repeated in the Application Error and Acknowledgement message to accommodate the requirements identified by Delphi.

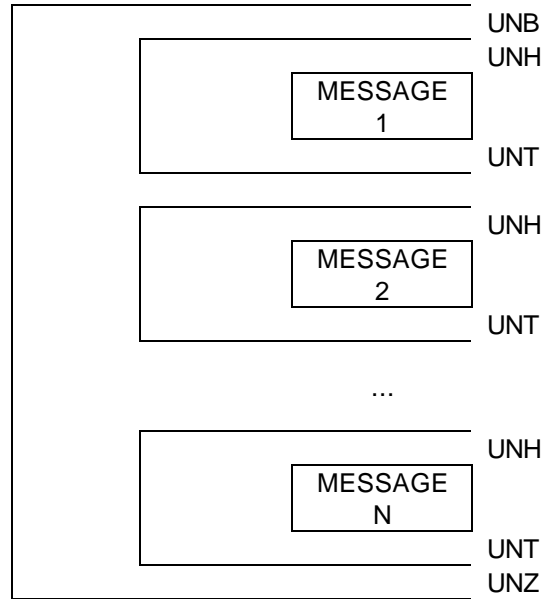|	
0010.UNH	Start of Application Error and Acknowledgement Message
0020.BGM	Message identification
0030.DTM	Message generation date/time
0040.FTX	Free Text information
0050.CNT	Control Totals - *Not used with Delphi*
0070.RFF	Shipper ID number or Document Number
0080.DTM	Date the DESADV was processed
0090-1.NAD	Sender of message - DELPHI
0100-2.NAD	Message recipient
0110.[NAD]**CTA**	Contact Information - *Not used with Delphi*
0120.[NAD]**COM**	Communication Contact - *Not used with Delphi*
0140.ERC	Application Error Information
0150.[ERC]**FTX**	Free Text - *Not used with Delphi*
0170.[ERC.REF].**REF**	Error reference codes
0180.[ERC.REF].**FTX**	Free Text – Error Description
0190.UNT	Message Trailer

3.5. SERVICE SEGMENTS DESCRIPTION

Following service segments are as defined by UN/EDIFACT and presented under ISO 9735.

The UNB, UNH, UNT and UNZ segments are the envelope of any message, enclosing all the data that is being transmitted.

The UNB (Interchange header) and UNZ (Interchange trailer) segments mark respectively the beginning and the end of an interchange thereby providing a unique interchange control reference.

Within the interchange the UNH (message header) and UNT (Message trailer) segments uniquely begin and end the various messages contained in an interchange.

EXAMPLE OF AN INTERCHANGE STRUCTURE

```
                                                                    UNB
                                                                    UNH
                              MESSAGE
                                 1
                                                                    UNT

                                                                    UNH
                              MESSAGE
                                 2
                                                                    UNT

                                 ...
                                                                    UNH
                              MESSAGE
                                 N
                                                                    UNT
                                                                    UNZ
```

NOTE:
All data elements marked "M" for Mandatory in the "ST" field of the Delphi implementation must be included in the message. Missing or incorrect entries will result in the rejection of the message.

3.6. DATA SEGMENTS DESCRIPTION

0000   UNB - INTERCHANGE HEADER

Segment Group:	none
EDIFACT status:	mandatory
Maximum use:	1 per interchange
Function	service segment providing the unique identification of an interchange. It allows the identification of the sender and the receiver of the interchange, gives date and time of preparation as well as the interchange control reference and the application reference.
Delphi interchange:	see remarks.

Level:	0
Delphi status:	mandatory
Delphi occurrences:	1 per interchange

Example: **UNB+UNOA:2+MBXNOSUPPLIER+MBXNODelphi+970607:0735+1234++APERAK'**
                          A   B   C   D   E   F   G

		EDIFACT STANDARD DEFINITION				Delphi IMPLEMENTATION		
REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS
A	S001	*SYNTAX IDENTIFIER*	M			M		
	0001	Syntax identifier	M	a4	:	**M**	a4	"**UNOA**".
B	0002	Syntax version number	M	n1	+	**M**	n1	Indication of the syntax version used for this message.
C	S002	*INTERCHANGE SENDER*	M			M		
	0004	Sender identification	M	an..35	:	**M**	an..35	Communication Code/Mailbox number of the party originating the message.
	0007	Identification code qualifier	C	an..4	:			
	0008	Address for Reverse Routing	C	an..14	+			
D	S003	*INTERCHANGE RECIPIENT*	M			M		
	0010	Recipient identification	M	an..35	:	**M**	an..35	Communication Code/Mailbox number of the party receiving the message.
	0007	Identification code qualifier	C	an..4	:			
	0014	Routing address	C	an..14	+			
E	S004	*DATE / TIME OF PREPARATION*	M			M		
	0017	Date of preparation	M	n6	:	**M**	n6	YYMMDD Format.
F	0019	Time of preparation	M	n4	+	**M**	n4	HHMM Format.
G	0020	INTERCHANGE CONTROL REFERENCE	M	an..14	+	**M**	an..14	Reference number assigned by the sender of the message. This number must uniquely identify each interface and must be **UNIQUE** within an inventory year.
	S005	*RECIPIENTS REFERENCE PASSWORD*	C					
	0022	Recipient's reference / password	M	an..14	:			
	0025	Recipient's reference / password qualifier	C	an2	+			
	0026	APPLICATION REFERENCE	C	an..14	+	**M**	n6	APERAK
	0029	PROCESSING PRIORITY CODE	C	a1	+			
	0031	ACKNOWLEDGEMENT REQUEST	C	n1	+			
	0032	COMMUNICATIONS AGREEMENT ID	C	an..35	+			
	0035	TEST INDICATOR	C	n1	'			

0010   UNH - MESSAGE HEADER

Segment group: none   Level: 0
EDIFACT status: mandatory.   Delphi status: mandatory.
Maximum use: 1 per message.   Delphi occurrences: 1 per message.
Function: service segment starting and uniquely identifying a message. The message type code for the
                  Despatch Advice message is DESADV.
Delphi interchange: see remarks.

Example: **UNH+1+APERAK:D:97A:UN'**
                       A   B   C D   E

		EDIFACT STANDARD DEFINITION				Delphi IMPLEMENTATION		
REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS
A	0062	MESSAGE REFERENCE NUMBER	M	an..14	+	M	an..14	Message Control number assigned by the sender to the message.
B	S009	*MESSAGE IDENTIFIER*	M			M		
	0065	Message type	M	an..6	:	M	an..6	"**APERAK**"
C	0052	Message version number	M	an..3	:	M	an..3	"**D**"
D	0054	Message release number	M	an..3	:	M	an..3	"**97A**"
E	0051	Controlling agency	M	an..2	:	M	an..2	"**UN**"
	0057	Association assigned code	C	an..6	+			
	0068	COMMON ACCESS REFERENCE	C	an..35	+			
	S010	*STATUS OF TRANSFER*	C					
	0070	Sequence of transfer	M	n..2	:			
	0073	First and last transfer	C	a1	'			

0190   UNT - MESSAGE TRAILER

Segment group: none   Level: 0
EDIFACT status: mandatory   Delphi status: mandatory
Maximum use: 1 per message   Delphi occurrences: 1 per message
Function: service segment ending a message, giving the total number of segments in the message and the
                  control reference number of the message.
Delphi interchange:

Example: **UNT+11+1'**
                       A   B

		EDIFACT STANDARD DEFINITION				Delphi IMPLEMENTATION		
REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS
A	0074	NUMBER OF SEGMENTS IN THE MESSAGE	M	n..6		M	n..6	Control count of the number of segments in the message, including UNH and UNT.
B	0062	MESSAGE REFERENCE NUMBER	M	an..14		M	an..14	Number must be identical to UNH - tag 0062

1050   UNZ - INTERCHANGE TRAILER

Segment Group:	none
EDIFACT status:	mandatory
Maximum use:	1
Function:	service segment ending an interchange and giving the number of messages contained in the interchange as well as the Interchange Control Reference number.

Level:	0
Delphi status:	mandatory
Delphi occurrences:	1 per interchange

Delphi interchange:

Example: **UNZ+1+1234'**
               A   B

		EDIFACT STANDARD DEFINITION				Delphi IMPLEMENTATION		
REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS
A	0036	INTERCHANGE CONTROL COUNT	M	n..6	+	**M**	n..6	Number of messages in an interchange.
B	0020	INTERCHANGE CONTROL REFERENCE	M	an..14	'	**M**	an..14	Value must be the same as 0020 - Interchange Control Reference in UNB.

3.6. DATA SEGMENTS DESCRIPTION

This part includes only the segments defined in the standard and used in the subset exchanged between the Trading Partners and Delphi. The segments are described in the same sequence as they appear in the message.

The EDIFACT APERAK segments that are not used in the subset used by Delphi are included in alphabetical sequence under item 3.9.

> **NOTE: All data elements marked "M" for Mandatory in the "ST" field of the Delphi implementation must be included in the message. Missing or incorrect entries will result in the rejection of the message.**

0020   BGM - BEGINNING OF MESSAGE

Segment group: none	Level: 1
EDIFACT status: mandatory	Delphi status: mandatory
Maximum use: 1 per message	Delphi occurrences: 1 per message

Function: segment for unique identification of the Application Error and Acknowledgment Message, by means of its name and its number.

Delphi interchange:

Example: **BGM+7+123456789+9+RE'**
                                        A   B

		EDIFACT STANDARD DEFINITION				Delphi IMPLEMENTATION		
REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS
A	C002	*DOCUMENT/MESSAGE NAME*	C			**M**		
	1001	Document/message name, coded	C	an..3	:	**M**	an..3	Identify the purpose of this report which is a process data report.
	1131	Code list qualifier	C	an..3	:			
	3055	Code list responsible agency, coded	C	an..3	:			
	1000	Document/message name	C	an..35	+			
B	C106	*DOCUMENT/MESSAGE IDENTIFICATION*	C			**M**		
	1004	Document/message number	C	an..35	:	**M**	an..35	A unique control number, Delphi is using the Document number created from SAP.
	1056	Version	C	an..9	:			
	1060	Revision number	C	an.6	+			
C	1225	MESSAGE FUNCTION, CODED	C	an..3	+	**M**	an..3	Function of the message. For code values see below.
	4343	RESPONSE TYPE, CODED	C	an..3	'	**M**	an..3	Code to specify the type of an acknowledgment transmitted.

CODE VALUES

1001 – Document/Message Name, coded

7   Report on the data processed (specifically the status of how the DESADV processed).

1225 - Message function, coded

9   Original
                Initial transmission related to a given transaction. The issuer's first transmission of a message for a particular SID (1004).

4343 – Response type, coded

RE   Rejected – The DESADV received was rejected.

0030 DTM - DATE/TIME/PERIOD

Segment group:	none
EDIFACT status:	mandatory
Maximum use:	9 per message at level 1

Level:	1
Delphi status:	mandatory (see comments)
Delphi occurrences:	max. 1 per message

Function: segment specifying the date/time/period related to the whole message. The DTM segment is specified at least once to identify the Application Error and Acknowledgment message date.

Delphi interchange: There may be max. 1 occurrence of DTM in position 0030: to specify the message issue date

Example: **DTM+137:199803051400:203'** Document generation
A B C

EDIFACT STANDARD DEFINITION						Delphi IMPLEMENTATION		
REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS

Document generation date.

	C507	*DATE/TIME/PERIOD*	M			M		
A	2005	Date/time/period qualifier	M	an..3	:	**M**	an..3	"**137**" = Document/message date/time.
B	2380	Date/time/period	C	an..35	:	**M**	an..35	Date/time when the document is issued.
C	2379	Date/time/period format qualifier	C	an..3	"	**M**	an..3	"**203**" = CCYYMMDDHHMM.

0040   FTX - FREE TEXT

Segment group: none   Level: 1
EDIFACT status: conditional   Delphi status: mandatory
Maximum use: 9   Delphi occurrences: as required
Function: segment with free text in coded or clear form to give further clarification when required.
Delphi interchange: see remarks.

Example: **FTX+AAP+++DESADV'**
                                A   B

		EDIFACT STANDARD DEFINITION				**Delphi IMPLEMENTATION**		
REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS
A	4451	TEXT SUBJECT QUALIFIER	M	an..3	+	M	an..3	"**AAP**" = Response to
	4453	TEXT FUNCTION, CODED	C	an..3	+			
B	C107	*TEXT REFERENCE*	C					
	4441	Free text, coded	M	an..3	:			
	1131	Code list qualifier	C	an..3	:			
	3055	Code list responsible agency, coded	C	an..3	+			
	C108	*TEXT LITERAL*	C			C		
	4440	Free text	M	an..70	:	M	an..70	"**DESADV**" = Actual name of message for which this response is generated.
	4440	Free text	C	an..70	:			
	4440	Free text	C	an..70	:			
	4440	Free text	C	an..70	:			
	4440	Free text	C	an..70	+			
	3453	LANGUAGE, CODED	C	an..3	'			
		REST OF SEGMENT NOT USED						

Segment group 1: RFF-DTM

Segment group:	1	Level:	1
EDIFACT status:	conditional	Delphi status:	mandatory
Maximum use:	9 per message at level 1	Delphi occurrences:	max. 2 per message
Function:	group of segments giving references where necessary, their dates relating to the whole message, e.g. document number and/or Shipper's Identification Number.		
Delphi interchange:	**Only RFF is required in segment group 1**.		

0070   RFF - REFERENCE

Segment group:	1 [RFF]	Level:	1
EDIFACT status:	mandatory if segment group 1 is used	Delphi status:	mandatory
Maximum use:	1 per segment group 1 (max. 9)	Delphi occurrences:	1 per segment group 1
Function:	segment for referencing documents relating to the whole application error and acknowledgment message, e.g. document number.		
Delphi interchange:	**At least one iteration is mandatory.**		
Example:	**RFF+SI:2424539'**		
	A B		

		EDIFACT STANDARD DEFINITION					Delphi IMPLEMENTATION		
REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS	

Shipper's Identification number

REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS
	C506	*REFERENCE*	M			M		
A	1153	Reference qualifier	M	an..3	:	**M**	an..3	"**SI**" = Shippers Identification Number.
B	1154	Reference number	C	an..35	:	**M**	an..35	Number as referenced in 1153 above.
	1156	Line number	C	an..6	:			
	4000	Reference version number	C	an..35	'			

Document Number

REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS
	C506	*REFERENCE*	M			M		
A	1153	Reference qualifier	M	an..3	:	**M**	an..3	"**DM**" = Document Number.
B	1154	Reference number	C	an..35	:	**M**	an..35	Number as referenced in 1153 above.
	1156	Line number	C	an..6	:			
	4000	Reference version number	C	an..35	'			

0080   DTM - DATE/TIME/PERIOD

Segment group:	1
EDIFACT status:	mandatory
Maximum use:	9 per message at level 1
Function:	segment specifying the date/time/period the DESADV was processed.
Delphi interchange:	There may be max. 1 occurrence of DTM in position 0090: to specify the ASN processed date

Level:	1
Delphi status:	mandatory
Delphi occurrences:	max. 1 per message

Example: **DTM+9:199803051400:203'**
                  A   B   C

		EDIFACT STANDARD DEFINITION				Delphi IMPLEMENTATION		
REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS

DESADV processed date.

REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS
	C507	*DATE/TIME/PERIOD*	M			M		
A	2005	Date/time/period qualifier	M	an..3	:	**M**	an..3	"**9**" = Processing date/time.
B	2380	Date/time/period	C	an..35	:	**M**	an..35	Date/time when the DESADV document was processed
C	2379	Date/time/period format qualifier	C	an..3	"	**M**	an..3	"**203**" = CCYYMMDDHHMM.

Segment group 2: NAD-CTA-COM

Segment group:	2	Level:	1
EDIFACT status:	conditional	Delphi status:	mandatory
Maximum use:	9 per message at level 1	Delphi occurrences:	maximum 5 per message
Function:	group of segments identifying names, addresses, locations, and required supporting documents relevant to the whole Application Error and Acknowledgement message.		

Delphi interchange: **Only NAD is required in segment group 2**.

0100   NAD - NAME AND ADDRESS

Segment group:	02 [NAD]	Level:	1
EDIFACT status:	mandatory if segment group 02 is used	Delphi status:	mandatory
Maximum use:	1 per segment group 02 (max. 0)	Delphi occurrences:	2 per segment group 2
Function:	segment for identifying names, addresses, and their functions relevant to the whole Application Error and Acknowledgement message.		

Delphi interchange: **The message may contain max. 2 NAD segments as detailed below**.

Example: **NAD+FR+987654321 ::16'**   Message from Party, where message comes from (Delphi)
                  NAD+MR+123456 ::92'   Message recipient
                    A   B   C

		EDIFACT STANDARD DEFINITION				Delphi IMPLEMENTATION		
REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS

Message From Party .

REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS
A	3035	PARTY QUALIFIER	M	an..3	+	**M**	an..3	"**FR**" = Message from Party – Delphi's plant number that the DESADV shipment was intended.
B	C082	*PARTY IDENTIFICATION DETAILS*	C			**M**		
	3039	Party id. Identification	M	an..35	:	**M**	an..35	Code identifying the material release issuer. For code value see below.
	1131	Code list qualifier	C	an..3	:			
C	3055	Code list responsible agency, coded	C	an..3	+	**M**	an..3	For code value see below.
		REST OF SEGMENT NOT USED	C					

Message Recipient

		EDIFACT STANDARD DEFINITION				Delphi IMPLEMENTATION		
REF	TAG	NAME	ST	FT	SP	ST	FT	REMARKS
A	3035	PARTY QUALIFIER	M	an..3	+	**M**	an..3	"**MR**" = Message Recipient
B	C082	*PARTY IDENTIFICATION DETAILS*	C			**M**		
	3039	Party id. Identification	M	an..35	:	**M**	an..35	Code identifying the plant where the material must be delivered. For code value see below.
	1131	Code list qualifier	C	an..3	:			
C	3055	Code list responsible agency, coded	C	an..3	+	**M**	an..3	For code value see below.
		REST OF SEGMENT NOT USED.						

CODE VALUES

3055 - Code list responsible agency, coded

16   DUN & Bradstreet (DUNS)
92   Assigned by buyer or buyer's agent.

Segment group 3: ERC-FTX-SG4

Segment group:	3	Level:	1
EDIFACT status:	conditional	Delphi status:	mandatory
Maximum use:	99999 per message at level 1	Delphi occurrences: max. 1 per error	
Function:	group of segments to identify the application errors within a specified received message and to give specific details related to the error type or to precise the type of acknowledgement.		
Delphi interchange:	**Only ERC and SG4 are used in group 3.**		

0140   ERC – APPLICATION ERROR INFORMATION

Segment group:	3	Level:	1
EDIFACT status:	mandatory if segment group 3 is used	Delphi status:	mandatory
Maximum use:	1 per segment group 3 (max. 99999)	Delphi occurrences: 1 per segment group 3	
Function:	To identify the type of application error within a message.		
Delphi interchange: ERC & SG4 are the only segments used in this group 3.			

Example: **ERC+E01::ZZZ'**
                          A   B

REF	TAG	EDIFACT STANDARD DEFINITION				Delphi IMPLEMENTATION		
		NAME	ST	FT	SP	ST	FT	REMARKS
A	C901	APPLICATION ERROR DETAIL	M			**M**		
	9321	Application Error identification	M	an..8	:	**M**	an..3	Delphi assigned codes based on error message
	1131	Code List Qualifier	C	an..8	:			
B	3055	Code list responsible agency,coded	C	an..3	+	**M**	an..3	For code value see below.

CODE VALUES

9321 – Application error identification

E01   **ASN with Duplicate SID**
E02   **Missing SID number**
E03   **Late ASN**
E04   **Missing PO number on RFF segment ON qualifier**
E05   **Invalid PO number on RFF segment ON qualifier**
E06   **Invalid or missing Vendor num on NAD segment SU qualifier**
E08   **Invalid or missing Material num on LIN segment**
E09   **Invalid or missing Plant code on NAD segment ST qualifier**
E10   **Invalid or missing Storage Loc on PCI segment 16 qualifier**
E11   **Invalid or missing Kanban serial num on GIR segment AW qualifier**

Code list responsible agency, coded

ZZZ   **Mutually defined**

Segment group 4: RFF-FTX

Segment group: 4   Level: 1
EDIFACT status: conditional   Delphi status: mandatory
Maximum use: 1 per message at level 1   Delphi occurrences: max. 1per message
Function: group of segments to specify the functional entity reference (e.g. goods item level, equipment level)
                     related to the specified error; further details can be added to identify the error more precisely.
Delphi interchange: **Both RFF and FTX are used in group 4.**

0170   RFF - REFERENCE

Segment group: 4   Level: 1
EDIFACT status: conditional   Delphi status: mandatory
Maximum use: 1 per ERC group   Delphi occurrences: 1 per ERC in segment group 3
Function: segment for referencing the error reference number. It will contain the reference number that Delphi
                     rejected in processing (e.g. SID number, Scheduling agreement number, material number, etc.)
Delphi interchange: see remarks.

Example: **RFF+ACD:06353483'**
                           A   B

REF	TAG	EDIFACT STANDARD DEFINITION				Delphi IMPLEMENTATION		
		NAME	ST	FT	SP	ST	FT	REMARKS
	C506	*REFERENCE*	M			M		
A	1153	Reference qualifier	M	an..3	:	M	an..3	For code values see below.
B	1154	Reference number	C	an..35	:	C	an..35	Number as qualified in 1153 above.
	1156	Line number	C	an..6	:			
	4000	Reference version number	C	an..35	'			

CODE VALUES

1153 - Reference qualifier.

ACD   Additional Reference Number - reference number that Delphi rejected in processing (e.g. SID
                number, Scheduling agreement number, material number, etc.)

0180   FTX - FREE TEXT

Segment group: 4   Level: 1
EDIFACT status: conditional   Delphi status: mandatory
Maximum use: 9   Delphi occurrences: as required
Function: segment with free text in coded or clear form to give further clarification when required. This
                   segment contains the error message text
Delphi interchange: see remarks.

Example: **FTX+AAO+++Invalid or missing Storage Location on PCI Segment with 16 qualifier**
                        A   B

REF	TAG	EDIFACT STANDARD DEFINITION NAME	ST	FT	SP	Delphi IMPLEMENTATION ST	FT	REMARKS
A	4451	TEXT SUBJECT QUALIFIER	M	an..3	+	M	an..3	"**AAO**" = Error message
	4453	TEXT FUNCTION, CODED	C	an..3	+			
	C107	*TEXT REFERENCE*	C					
	4441	Free text, coded	M	an..3	:			
	1131	Code list qualifier	C	an..3	:			
	3055	Code list responsible agency, coded	C	an..3	+			
	C108	*TEXT LITERAL*	C			C		
B	4440	Free text	M	an..70	:	M	an..70	Error message associated with error code on the ERC segment
	4440	Free text	C	an..70	:			
	4440	Free text	C	an..70	:			
	4440	Free text	C	an..70	:			
	4440	Free text	C	an..70	+			
	3453	LANGUAGE, CODED	C	an..3	'			
		REST OF SEGMENT NOT USED						

CODE VALUES

4451 – Text subject qualifier

AAO   **Error description (free text)**

ERROR MESSAGES
ASN with Duplicate SID
Missing SID number
Late ASN
Missing PO number on RFF segment ON qualifier
Invalid PO number on RFF segment ON qualifier
Invalid or missing Vendor num on NAD segment SU qualifier
Invalid or missing Material num on LIN segment
Invalid or missing Plant code on NAD segment ST qualifier
Invalid or missing Storage Loc on PCI segment 16 qualifier
Invalid or missing Kanban serial num on GIR segment AW qualifier

3.7. EXAMPLE OF MESSAGE

Following example is only illustrative and does not necessarily reflect an existing situation. It **MAY NEVER** be used as a basis for programming or implementing this message.

One message will be created for each DESADV with and error. The following are a sample of one error in multiple DESADV's.

```
UNB+UNOA:2+VG4:ZZ+DYY:ZZ+001016:1039+1++APERAK++++1'
UNH+1+APERAK:D:97A:UN'
BGM+7+0000000000225034+9+RE'
DTM+137:200010091116:203'
FTX+AAP+++DESADV'
RFF+SI:LIFEX99103'
RFF+DM:0000000000225033'
DTM+9:200010091113:203'
NAD+FR+999999999::16'
NAD+MR+245760088::16'
ERC+E05::ZZZ'
RFF+ACD:LIFEX99103'
FTX+AAO+++Invalid Material Number'
UNT+13+1'
UNH+2+APERAK:D:97A:UN'
BGM+7+0000000000225181+9+RE'
DTM+137:200010111626:203'
FTX+AAP+++DESADV'
RFF+SI:LIFEX99103'
RFF+DM:0000000000225180'
DTM+9:200010111626:203'
NAD+FR+999999999::16'
NAD+MR+245760088::16'
ERC+E02::ZZZ'
RFF+ACD:LIFEX99103'
FTX+AAO+++Late ASN'
UNT+13+2'
UNH+3+APERAK:D:97A:UN'
BGM+7+0000000000225183+9+RE'
DTM+137:200010111647:203'
FTX+AAP+++DESADV'
RFF+SI:LIFEX99103'
RFF+DM:0000000000225182'
DTM+9:200010111647:203'
NAD+FR+999999999::16'
NAD+MR+245760088::16'
ERC+E01::ZZZ'
RFF+ACD:LIFEX99103'
FTX+AAO+++Duplicate SID Number'
UNT+13+3'
UNZ+3+1'
```

For ease of reading the message has been shown with each segment type on a separate line, which will not be the case when the message is normally transmitted.

One message will be created for each DESADV with and error. The following is an example of multiple errors in one message.

```
UNB+UNOA:2+VG4:ZZ+DYY:ZZ+001016:1039+1++APERAK++++1'
UNH+1+APERAK:D:97A:UN'
BGM+7+0000000000225034+9+RE'
DTM+137:200010091116:203'
FTX+AAP+++DESADV'
```

```
RFF+SI:LIFEX99103'
RFF+DM:000000000225033'
DTM+9:200010091113:203'
NAD+FR+999999999::16'
NAD+MR+245760088::16'
ERC+E05::ZZZ'
RFF+ACD:38293758'
FTX+AAO+++Invalid Material Number'
ERC+E02::ZZZ'
RFF+ACD:LIFEX99103'
FTX+AAO+++Late ASN'
ERC+E01::ZZZ'
RFF+ACD:LIFEX99103'
FTX+AAO+++Duplicate SID Number'
UNT+19+1'
UNZ+1+1'
```

For ease of reading the message has been shown with each segment type on a separate line, which will not be the case when the message is normally transmitted.

4. MESSAGE INFORMATION

This section contains additional information related to the EDIFACT APERAK D97.A message.

4.1. SEGMENTS REPERTORY

The following tables show all the data segments defined for the EDIFACT APERAK D97.A message, used as basis for the Delphi Application Error and Acknowledgment Message.

4.1.1. Segments in alphabetical sequence

Segment name	Tag
Beginning of message	BGM
Communication contact	COM
Contact information	CTA
Control total	CNT
Date/time/period	DTM
Error Application Information	ERC
Free text	FTX
Name and address	NAD
Reference	RFF

4.1.2. Segments in segment tag sequence

Tag	Segment name
BGM	Beginning of message
CNT	Control total
COM	Communication contact
CTA	Contact information
DTM	Date/time/period
ERC	Error Application Information
FTX	Free text
NAD	Name and address
RFF	Reference

4.2. DATA ELEMENTS REPERTORY

The following listings show all the data elements defined for the EDIFACT DESADV D97.A message, used as basis for the Delphi Delivery Instruction message.

4.2.1. Service data elements in alphabetical sequence

List of data elements defined for the UNB, UNH, UNT and UNZ service segments.

4.2.2. Service data elements in tag sequence