

# B/L-EDIFACT

## EDI-Szenarios

### (Confirmation Messages For The Transmission Of B/L Data)



## Version 1.3e

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# 1 Introduction And Area Of Application

This document describes the EDI scenarios for the transmission of B/L data in EDIFACT format. The main emphasis is on the description of the syntax check/report (CONTRL) and the semantic check with the confirmation message (APERAK).

The structure of the B/L-EDIFACT message IFTMIN itself is not explained in this document. For further information on this subject please refer to the „EDIFACT Manual For The Exchange Of B/L Data“.

Currently, the procedures and messages detailed below are specific to DAKOSY and the Port of Hamburg. However, the dbh are actively working to implement an analogous conversion for the Port of Bremen/Bremerhaven.

## 2 Organisation Of B/L Data Transmission

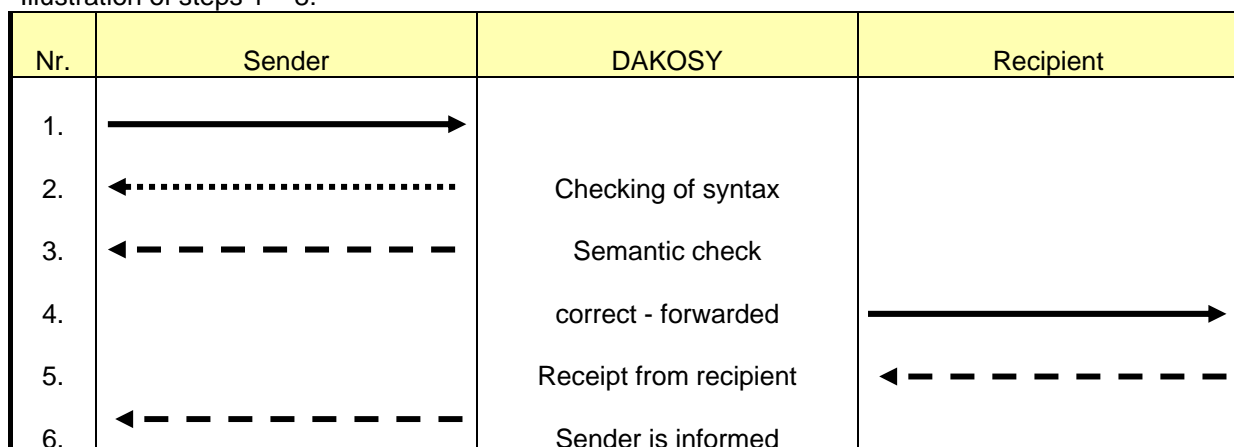
The EDI-supported transmission of B/L data is organised as follows:

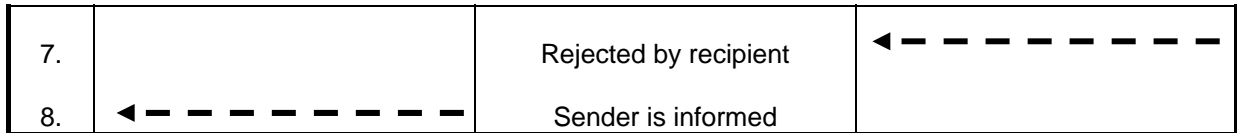
1. The sender transmits B/L data in EDIFACT format (IFTMIN).
2. DAKOSY carries out a syntax check for the entire transmitted file/interchange. The result (syntactically correct or incorrect) is shown with the EDIFACT message CONTRL and is made available (or sent) to the sender. However, should an error be found, the transmitted file will not be further processed.
3. If the Interchange is syntactically correct, the semantic check is carried out subsequently per B/L. The check result (positive as negatively) is shown with the EDIFACT message APERAK (for each B/L one APERAK) and is made available (or sent) to the sender.
4. If the semantic check has supplied a faultless result, the B/L is made available (or sent) for the addressed recipient.
5. The recipient confirms the receipt of the B/L to DAKOSY with the message APERAK.
6. DAKOSY notifies the sender/initiator that the B/L data have been transmitted to the recipient. This is done by using the message APERAK .

-----step 7 and 8 are optional !-----

7. In case the B/L can not be created due to incorrect contentst – for example the booking number – the recipient can refuse the B/L. For this the EDIFACT message APERAK with the status 'RE' (= rejected) is used. This status information isoptional. It has to be checked if this option is enabled for the particular recipient.
8. DAKOSY/dbh transmits the message to the B/L sender/initiator. If a B/L is rejected by the recipient in this manner, a retransmission of the B/L has to be communicated as a replacement as a matter of principle.

Illustration of steps 1 – 8:





B/L-data – message IFTMIN = —————→

Syntax report/confirmation – message CONTRL = .....→

Application confirmation/error– message APERAK = - - - - -→

## 3 The Syntax Check And The Syntax Report (CONTRL)

This chapter deals mainly with the syntax report which shows the result of the syntax check of incoming B/L messages (i.e. from sender to DAKOSY).

### 3.1 What is tested with the Syntax check?

Initially, all incoming EDIFACT messages are always checked for syntax. If an error is found this leads to the rejection of the entire interchange (UNB to UNZ).

The syntax check deals exclusively with the EDIFACT-specific requirements to the structure and to the syntax of the received message(s). Application-specific controls are not carried out in this check (see semantic check).

The syntax check covers mainly the following areas:

- \* Address (sender, recipient) in the UNB and the UNG
- \* Separation signs
- \* Segment structures (incl. numeric test)
- \* Message structure

## 3.2 Description Of The Syntax Report CONTRL

The CONTRL is a message, which either syntactically confirms or refuses (with an error message) a received file, a group message or an individual message.

### 3.2.1 Comments On The Structure Of A Message

The following illustration gives an example of a syntax error defined in the CONTRL. This list contains documented or used segments and segment groups only.

	S	Max. Wdh	
<b>UNA</b>	C	1	Service string advice
<b>UNB</b>	M	1	Interchange header
<b>UNH</b>	M	1	Message header
<b>UCI</b>	M	1	Interchange response
<b>SG3</b>	C	99999	UCF-SG4
<b>UCF</b>	M	1	Functional group response
<b>SG4</b>	C	99999	UCM-SG5
<b>UCM</b>	M	1	Message response
<b>SG5</b>	C	999	UCS-UCD
<b>UCS</b>	M	1	Segment error indication
<b>UCD</b>	C	99	Data element error indication
<b>UNT</b>	M	1	Message trailer
<b>UNZ</b>	M	1	Interchange trailer

#### Comments:

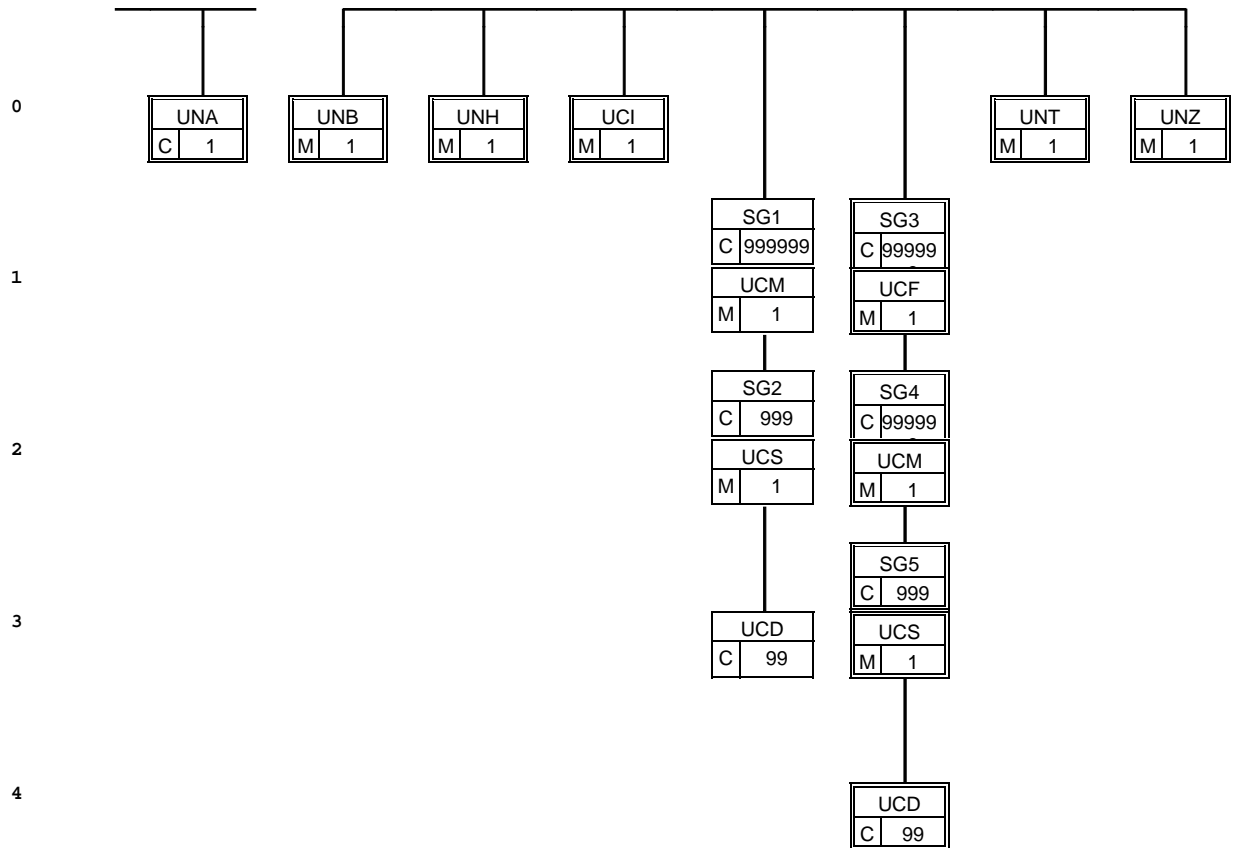
**UCI:** This segment shows whether the entire interchange (UNB - UNZ) is syntactically correct or incorrect. If no error is found the CONTRL is closed with the segment UNT.  
However, if an error is detected in the message group or/and the message, segment group 3 will follow.

**SG3-5:** The segment group 3 is produced for erroneous message groups/ messages only.  
Syntax errors are documented either in the message group header segment or in the trailer segment (UNG and UNE) in segment UCF. The segment groups 4 and 5 list errors which have occurred within the message itself (UNH – UNT).

### 3.2.2 The Diagram Of The Message Structure

Used or documented segments and segment groups are shown with a double borderline.

Segments or segment groups which are not used or documented are shown with a single borderline. These are shown here for information only and will not be mentioned again in the following documentation.



### 3.2.3 Detailed Description Of The Segments / Segment Groups Of The CONTRL (incl. Interchange UNA/UNB-UNZ)

Segment: 1 **UNA** Variant No.: 1 Status: R Max. Occ.: 1  
SERVICE STRING ADVICE

EDIFACT	Example	S	Use/references
<b>UNA</b>	UNA		
<b>UNA1</b> M an1 COMPONENT DATA ELEMENT SEPARATOR	:	R	
<b>UNA2</b> M an1 DATA ELEMENT SEPARATOR	+	R	
<b>UNA3</b> M an1 DECIMAL NOTATION	.	R	
<b>UNA4</b> M an1 RELEASE INDICATOR	?	R	
<b>UNA5</b> M an1 RESERVED FOR FUTURE USE		R	Blank/space
<b>UNA6</b> M an1 SEGMENT TERMINATOR	'	R	
<u>Comments about the Segment:</u>			
It is recommended to use the separators shown in the example.			
<b>UNA:+.? '</b>			

Segment: **2 UNB** Variant No.: 1 Status: R Max. Occ.: 1  
Interchange header

EDIFACT	Example	S	Use/references
<b>UNB</b>	UNB		
<b>S001</b> M Syntax identifier		R	
<b>0001</b> M a4 Syntax identifier	+UNOB	R	<b>UNOB UN/ECE level B</b>
<b>0002</b> M n1 Syntax version number	:4	R	<b>4 Version 4</b> Syntax release 4 was chosen to facilitate an eight-digit (DE 0017) date display. Further changes from syntax release 4, e.g. Composite Repetition, are not used.
<b>S002</b> M Interchange sender		R	
<b>0004</b> M an..35 Sender identification	+DAKOS Y	R	<b>DAKOSY</b>
<b>0007</b> C an..4 Recipient's identification qualifier		N	Not used
<b>0008</b> C an..14 Address for reverse routing		N	Not used
<b>S003</b> M Interchange recipient		R	
<b>0010</b> M an..35 Recipient identification	+USER- CODE	R	The "user code" from the checked message (Sender in UNB / DE 0004) is used.
<b>0007</b> C an..4 Recipient's identification qualifier		N	Not used
<b>0014</b> C an..14 Routing address		N	Not used
<b>S004</b> M Date/time of preparation		R	
<b>0017</b> M n8 Date of preparation	+200001 03	R	Format: CCYYMMDD
<b>0019</b> M n4 Time of preparation	:1716	R	
<b>0020</b> M an..14 INTERCHANGE CONTROL REFERENCE	+X'	R	Reference must be assigned uniquely.
<b>S005</b> C Recipient's reference password		N	Not used
<b>0022</b> M an..14 Recipient's reference/password		N	Not used
<b>0025</b> C an2 Recipient's reference/password qualifier		N	Not used
<b>0026</b> C an..14 APPLICATION REFERENCE		N	Not used
<b>0029</b> C a1 PROCESSING PRIORITY CODE		N	Not used
<b>0031</b> C n1 ACKNOWLEDGEMENT REQUEST		N	Not used
<b>0032</b> C an..35 COMMUNICATIONS AGREEMENT ID		N	Not used
<b>0035</b> C n1 TEST INDICATOR		N	Not used

Comments about the Segment:

**UNB+UNOB:4+DAKOSY+USER-CODE+20000103:1716+X'**

Segment: **3**      **UNH**    Variant No.: 1      Status: R      Max. Occ.: 1  
Message header

EDIFACT	Example	S	Use/references
<b>UNH</b>	UNH		
<b>0062</b> M an..14 MESSAGE REFERENCE NUMBER	+X	R	Reference must be assigned uniquely.
<b>S009</b> M Message identifier		R	
<b>0065</b> M an..6 Message type	+CONTRL	R	<b>CONTRL report of syntax and service</b>
<b>0052</b> M an..3 Message version number	:D	R	<b>D Draft version</b>
<b>0054</b> M an..3 Message release number	:3	R	<b>3 Release 3</b>
<b>0051</b> M an..2 Controlling agency	:UN'	R	<b>UN UN/ECE/TRADE/WP.4, United Nations Standard Messages (UNSM)</b>
<b>0057</b> C an..6 Association assigned code		N	Not used
<b>0068</b> C an..35 COMMON ACCESS REFERENCE		N	Not used
<b>S010</b> C Status of the transfer		N	Not used
<b>0070</b> M n..2 Sequence of transfers		N	Not used
<b>0073</b> C a1 First and last transfer		N	Not used
<u>Comments about the Segment:</u>			
<b>UNH+X+CONTRL:D:3:UN'</b>			

Segment: **4 UCI** Variant No.: 1 Status: R Max. Occ.: 1  
Interchange response

EDIFACT	Example	S	Use/references
<b>UCI</b>	UCI		
<b>0020</b> M an..14 INTERCHANGE CONTROL REFERENCE	+X	R	Information of interchange reference (UNB / DE 0020) to which the CONTRL itself refers.
<b>S002</b> M Interchange sender		R	
<b>0004</b> M an..35 Sender identification	+X	R	The "user code" from the checked message (Sender in UNB / DE 0004) is used.
<b>0007</b> C an..4 Recipient's identification qualifier		N	Not used
<b>0008</b> C an..14 Address for reverse routing		N	Not used
<b>S003</b> M Interchange recipient		R	
<b>0010</b> M an..35 Recipient identification	+X	R	<b>DAKOSY</b>
<b>0007</b> C an..4 Recipient's identification qualifier		N	Not used
<b>0014</b> C an..14 Routing address		N	Not used
<b>0083</b> M an..3 ACTION, CODED	+4	R	<b>4 This level and all lower levels rejected</b>
<b>0085</b> C an..3 SYNTAX ERROR, CODED	+35	D	<b>8 Interchange received (no syntax errors)</b> The error code is shown in this DE, if a syntax error was found in the segments UNA, UNB or UNZ, Code, e.g. 35 = Too many segment repetitions
<b>0013</b> C a3 SERVICE SEGMENT TAG, CODED	+UNA'	D	<b>UNA Service string advice</b> <b>UNB Interchange header segment</b> <b>UNZ Interchange trailer segment</b> The erroneous segment is shown in this DE, if a syntax error was found in the segments UNA, UNB or UNZ.
<b>S011</b> C Data element identification		N	Not used
<b>0098</b> M n..3 Erroneous data element position in segment		N	Not used
<b>0104</b> C n..3 Erroneous component data element position		N	Not used
<u>Comments about the Segment:</u>			
This segment displays whether the entire interchange (UNB - UNZ) is syntactically correct or incorrect. Should an error be found, the processing will stop after the generation of the CONTRL. However, if the data are syntactically correct, the semantic check will follow.			
<b>UCI+X+X+X+4+35+UNA'</b>			

Segment Group: **SG3** Variant No.: 1 Status: D Max. Occ.: 999999  
UCF-SG4

This segment group is only generated for message groups in which a syntax error was found.

Segment: **5 UCF** Variant No.: 1 Status: R Max. Occ.: 1  
Functional group response

EDIFACT	Example	S	Use/references
<b>UCF</b>	UCF		
<b>0048</b> M an..14 FUNCTIONAL GROUP REFERENCE NUMBER	+X	R	Information of functional group reference (UNG /DE 0048) to which this segment group itself refers.
<b>S006</b> M Application sender's identification		R	
<b>0040</b> M an..35 Sender identification	+X	R	The "user code" from the erroneous functional group (Sender in UNG / DE 0040) is used.
<b>0007</b> C an..4 Recipient's identification qualifier		N	Not used
<b>S007</b> M Application recipient's identification		R	
<b>0044</b> M an..35 Recipient's identification	+X	R	The "user code" from the erroneous functional group (Recipient in UNG / DE 0044) is used.
<b>0007</b> C an..4 Recipient's identification qualifier		N	Not used
<b>0083</b> M an..3 ACTION, CODED	+4	R	<b>4 This level and all lower levels rejected</b>
<b>0085</b> C an..3 SYNTAX ERROR, CODED	+12	D	The error code is indicated in this De if a syntax error was found in the segments UNG or UNE. Code, e.g. 12 = Invalid value, 35 = Too many segment repetitions
<b>0013</b> C a3 SERVICE SEGMENT TAG, CODED	+UNG'	D	<b>UNG Functional group header segment UNE Functional group trailer segment</b> The erroneous segment is shown in this DE if a syntax error was found in the segments UNG or UNE.
<b>S011</b> C Data element identification		N	Not used
<b>0098</b> M n..3 Erroneous data element position in segment		N	Not used
<b>0104</b> C n..3 Erroneous component data element position		N	Not used
<u>Comments about the Segment:</u>			
<b>UCF+X+X+X+4+12+UNG'</b>			

Segment Group: **SG4** Variant No.: 1 Status: D Max. Occ.: 999999  
UCM-SG5

This segment group is only generated for message in which a syntax error was found.

Segment: **6 UCM** Variant No.: 1 Status: R Max. Occ.: 1  
Message response

EDIFACT	Example	S	Use/references
<b>UCM</b>	UCM		
<b>0062</b> M an..14 MESSAGE REFERENCE NUMBER	+X	R	Information of message reference (UNH / DE 0062) to which this segment group itself refers.
<b>S009</b> M Message identifier		R	
<b>0065</b> M an..6 Message type	+IFTMIN	R	<b>IFTMIN Transport/shipping order</b>
<b>0052</b> M an..3 Message version number	:D	R	<b>D Draft version/UN/EDIFACT Directory</b>
<b>0054</b> M an..3 Message release number	:99A	R	<b>99A Release 1999 - A</b>
<b>0051</b> M an..2 Controlling agency	:UN	R	<b>UN UN/ECE/TRADE/WP.4, United Nations Standard Messages (UNSM)</b>
<b>0057</b> C an..6 Association assigned code	:DEBL02	O	<b>DEBL02 = Deutsches Institut für Normung, Bill of Lading, Version 2</b>
<b>0083</b> M an..3 ACTION, CODED	+4	R	<b>4 This level and all lower levels rejected</b>
<b>0085</b> C an..3 SYNTAX ERROR, CODED	+12	R	The error code is shown in this DE if a syntax error was found in the segments UNH or UNT. Code, e.g. 12 = Invalid value, 35 = Too many Segment repetitions
<b>0013</b> C a3 SERVICE SEGMENT TAG, CODED	+UNH'	D	<b>UNH Message header segment UNT Message trailer segment</b> The erroneous segment is shown in this DE if a syntax error was found in the segments UNH or UNT.
<b>S011</b> C Data element identification		N	Not used
<b>0098</b> M n..3 Erroneous data element position in segment		N	Not used
<b>0104</b> C n..3 Erroneous component data element position		N	Not used
<u>Comments about the Segment:</u>			
<b>UCM+X+IFTMIN:D:99A:UN:DEBL02+4+12+UNH'</b>			

Segment Group: **SG5** Variant No.: 1 Status: D Max. Occ.: 999  
UCS-UCD

This segment group is generated for segments in which a syntax error was found.

Segment: **7 UCS** Variant No.: 1 Status: R Max. Occ.: 1  
Segment error indication

EDIFACT	Example	S	Use/references
<b>UCS</b> <b>0096</b> M n..6 SEGMENT POSITION IN MESSAGE	UCS +9	R	Number of the erroneous segment within the message. The numbering starts with the UNH segment as segment number 1. Should a segment be missing, the number of the last segment will be indicated.
<b>0085</b> C an..3 SYNTAX ERROR, CODED	+12'	R	Syntax error, coded Code, e.g. 12 = Invalid value, 35 = Too many segment repetitions
<u>Comments about the Segment:</u>			
<b>UCS+9+12'</b>			

Segment Group: **SG5** Variant No.: 1 Status: D Max. Occ.: 999  
 UCS-UCD  
 Segment: **8 UCD** Variant No.: 1 Status: O Max. Occ.: 99  
 Data element error indication

EDIFACT	Example	S	Use/references
<b>UCD</b> <b>0085</b> M an..3 SYNTAX ERROR, CODED	UCD +2	R	Syntax error, coded Code, e.g. 12 = Invalid value, 35 = Too many segment repetitions
<b>S011</b> M Data element identification		R	
<b>0098</b> M n..3 Erroneous data element position in segment	+9'	R	
<b>0104</b> C n..3 Erroneous component data element position		N	Not used
<u>Comments about the Segment:</u>			
The error can be specified and/or localized more closely in this segment. However, its use is not planned by DAKOSY at the moment.			
<b>UCD+2+9'</b>			

Segment: **9 UNT** Variant No.: 1 Status: R Max. Occ.: 1  
Message trailer

EDIFACT	Example	S	Use/references
<b>UNT</b>	UNT		
<b>0074</b> M n..6 NUMBER OF SEGMENTS IN THE MESSAGE	+10	R	Number of segments. The segments UNH and UNT are included in the count.
<b>0062</b> M an..14 MESSAGE REFERENCE NUMBER	+X'	R	This reference must be unique for the message occurrence regardless of the message type and business application area. Data element [0062] must be identical in the UNH- and UNT-segment.
<u>Comments about the Segment:</u>			
<b>UNT+10+X'</b>			

Segment: **10 UNZ** Variant No.: 1 Status: R Max. Occ.: 1  
Interchange trailer

EDIFACT	Example	S	Use/references
<b>UNZ</b>	UNZ		
<b>0036</b> M n..6 INTERCHANGE CONTROL COUNT	+1	R	Number of messages.
<b>0020</b> M an..14 INTERCHANGE CONTROL REFERENCE	+X'	R	Reference no. as in UNB/0020
<u>Comments about the Segment:</u>			
<b>UNZ+1+X'</b>			

### 3.2.4 Sample Message/Example

The following sample message is the only example given in this document. More practical examples will soon be available on the B/L Internet page ([www.bill-of-lading.de](http://www.bill-of-lading.de)).

	S	Max. Wdh	Nr.	Segment
<b>UNA</b>		1	1	UNA:+.? '
<b>UNB</b>		1	2	UNB+UNOB:4+DAKOSY+USER-CODE+20000103:1716+X'
<b>UNH</b>		1	3	UNH+X+CONTRL:D:3:UN'
<b>UCI</b>		1	4	UCI+X+X+X+4+35+UNA'
<b>SG3</b>		999999		
<b>UCF</b>		1	5	UCF+X+X+X+4+12+UNG'
<b>SG4</b>		999999		
<b>UCM</b>		1	6	UCM+X+IFTMIN:D:99A:UN:DEBL02+4+12+UNH'
<b>SG5</b>		999		
<b>UCS</b>		1	7	UCS+9+12'
<b>UCD</b>		99	8	UCD+2+9'
<b>UNT</b>		1	9	UNT+10+X'
<b>UNZ</b>		1	10	UNZ+1+X'

## 4 The Semantic Check And The Confirmation Message (APERAK)

The acknowledgement of receipt („addressed“ recipient to DAKOSY) should also be transmitted with the APERAK and it conforms to a great extent to the following message description (see chapter 4.3 ff.). There are a few deviations, which are described in chapter 4.3.5.

### 4.1 What is considered in the semantic check?

If the results of the syntactical check (see chapter 3 ff.) are correct, the semantic check will follow.

The semantic check examines the application-based rules and relationships to the Bill of Lading. For further details on this please refer to the relevant B/L-MIG (Message Implementation Guide).

The semantic check can be divided as follows:

- Used qualifier/codes permitted?  
Each individual segment is checked with the B/L –MIGs to determine whether the used qualifier and/or code may be used. If the MIG allows all qualifiers or codes for one data element this then will be checked against the relevant code list (UN-Code list, UN/Location Code).
- Compulsory details given?  
The existence of all compulsory details is checked on the basis of the B/L-MIGs. This includes cross-segmental checks to determine for example, whether all compulsory details are given for an item or a SENDUNGSPPOSITION.
- Organisational Check  
This check determines whether an „original“ (first transmission of a B/L) really is an original or/and whether a B/L has already been transmitted successfully for a „replacement“ or a „cancellation“.

### 4.2 Exception „Font Error“

The presence of a non-permitted character in an interchange (UNB –UNZ) is usually considered a syntax error and should lead to the rejection of the entire interchange (which may contain several B/L messages).

However, given that such an error may occur frequently in the introductory phase, an attempt was made to avoid the rejection of all B/Ls of one interchange. This check was therefore placed into the semantic check, i.e. only the B/L with the non-permitted character will be rejected.

The segment containing the non-permitted character and its position/segment number within the message is indicated in the segment group 5 of the APERAK message.

## 4.3 Description Of The Confirmation Message APERAK

### 4.3.1 Comments On The Structure Of A Message

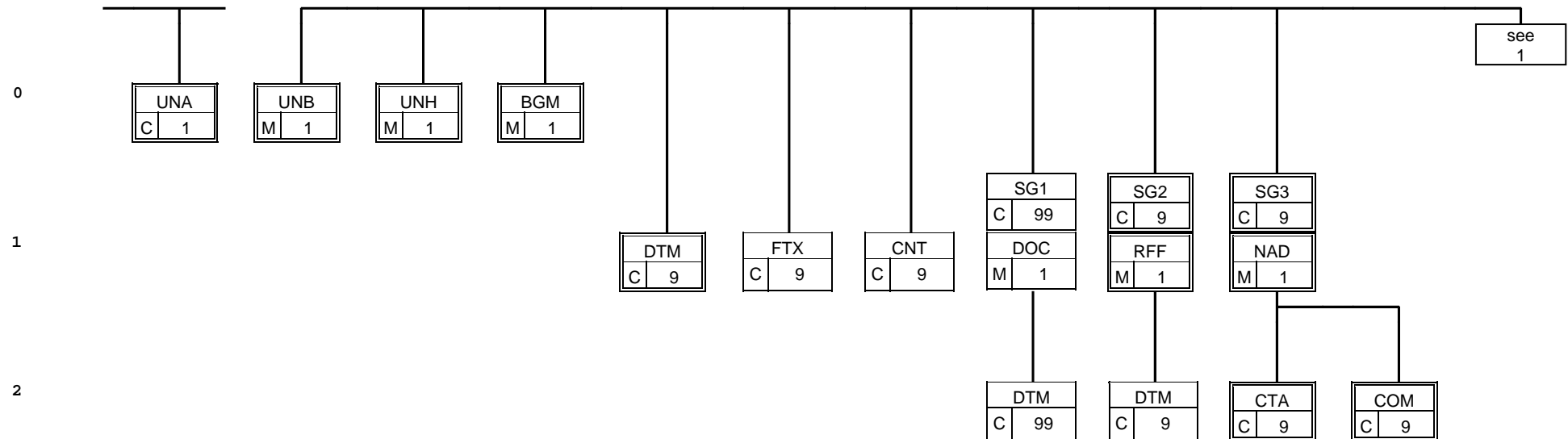
The following table describes how an „ACCEPTED“, i.e. an error-free transmission of the B/L or an application error is presented with the APERAK. This list contains the documented and/or used segments and segment groups only.

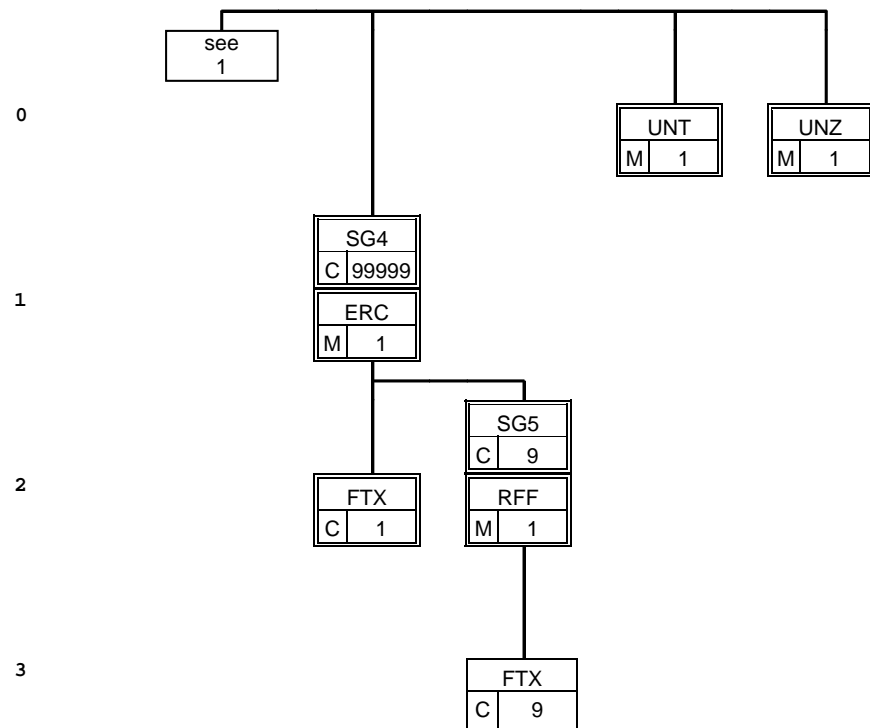
	S	Max. Wdh	
<b>UNA</b>	C	1	Service string advice
<b>UNB</b>	M	1	Interchange header
<b>UNH</b>	M	1	Message header
<b>BGM</b>	M	1	Beginning of message / result of check
<b>DTM</b>	C	9	Date of the semantic check/message production
<b>SG2</b>	C	9	RFF-DTM
<b>RFF</b>	M	1	References from checked B/L message
<b>SG3</b>	C	9	NAD-CTA-COM
<b>NAD</b>	M	1	Name/department of DAKOSY and B/L recipient
<b>CTA</b>	C	9	Department
<b>COM</b>	C	9	Communication number
<b>SG4</b>	C	99999	ERC-FTX-SG5
<b>ERC</b>	M	1	Error code
<b>FTX</b>	C	1	Description of error (clear text)
<b>SG5</b>	C	9	RFF-FTX
<b>RFF</b>	M	1	Segment name + no. with non-permitted characters in the message
<b>UNT</b>	M	1	Message trailer
<b>UNZ</b>	M	1	Interchange trailer

### 4.3.2 The Diagram Of The Message Structure

Used or documented segments and segment groups are shown with a double borderline.

Segments or segment groups which are not used or documented are shown with a single borderline. These are shown here for information only and will not be mentioned again in the following documentation.





### 4.3.3 Detailed Description Of The Segments / Segment Groups Of The APERAK (incl. Interchange UNA/UNB-UNZ)

Segment: 1 **UNA** Variant No.: 1 Status: R Max. Occ.: 1  
SERVICE STRING ADVICE

EDIFACT	Example	S	Use/references
<b>UNA</b>	UNA		
<b>UNA1</b> M an1 COMPONENT DATA ELEMENT SEPARATOR	:	R	
<b>UNA2</b> M an1 DATA ELEMENT SEPARATOR	+	R	
<b>UNA3</b> M an1 DECIMAL NOTATION	.	R	
<b>UNA4</b> M an1 RELEASE INDICATOR	?	R	
<b>UNA5</b> M an1 RESERVED FOR FUTURE USE		R	Blank/space
<b>UNA6</b> M an1 SEGMENT TERMINATOR	'	R	
<u>Comments about the Segment:</u>			
The use of the separators shown in the example is recommended.			
<b>UNA:+.? '</b>			

Segment: **2 UNB** Variant No.: 1 Status: R Max. Occ.: 1  
Interchange header

EDIFACT	Example	S	Use/references
<b>UNB</b>	UNB		
<b>S001</b> M Interchange sender			
<b>0001</b> M a4 Syntax identifier	+UNOB	R	<b>UNOB UN/ECE level B</b>
<b>0002</b> M n1 Syntax version number	:4	R	<b>4 Version 4</b> Syntax release 4 was chosen to facilitate an eight-digit (DE 0017) date display. Further changes from syntax release 4, e.g. Composite Repetition, are not used.
<b>S002</b> M Interchange sender		R	
<b>0004</b> M an..35 Sender identification	+DAKOS Y	R	<b>DAKOSY</b>
<b>0007</b> C an..4 Partner identification code qualifier		N	Not used
<b>0008</b> C an..14 Address for reverse routing		N	Not used
<b>S003</b> M Interchange recipient		R	
<b>0010</b> M an..35 Recipient identification	+USER- CODE	R	The "user code" from the checked message (Sender in UNB / DE 0004) is used.
<b>0007</b> C an..4 Partner identification code qualifier		N	Not used
<b>0014</b> C an..14 Routing address		N	Not used
<b>S004</b> M Date/time of preparation		R	
<b>0017</b> M n8 Date of preparation	+200001 13	R	Format: CCYYMMDD
<b>0019</b> M n4 Time of preparation	:1320	R	
<b>0020</b> M an..14 INTERCHANGE CONTROL REFERENCE	+X'	R	Reference must be assigned uniquely.
<b>S005</b> C Recipient's reference, password		N	Not used
<b>0022</b> M an..14 Recipient's reference/password		N	Not used
<b>0025</b> C an2 Recipient's reference/password qualifier		N	Not used
<b>0026</b> C an..14 APPLICATION REFERENCE		N	Not used
<b>0029</b> C a1 PROCESSING PRIORITY CODE		N	Not used
<b>0031</b> C n1 ACKNOWLEDGEMENT REQUEST		N	Not used
<b>0032</b> C an..35 COMMUNICATIONS AGREEMENT ID		N	Not used
<b>0035</b> C n1 TEST INDICATOR		N	Not used

Comments about the Segment:

**UNB+UNOB:4+DAKOSY+USER-CODE+20000113:1320+X'**

Segment: **3 UNH** Variant No.: 1 Status: R Max. Occ.: 1  
Message header

EDIFACT	Example	S	Use/references
<b>UNH</b>	UNH		
<b>0062</b> M an..14 MESSAGE REFERENCE NUMBER	+X	R	Reference must be assigned uniquely.
<b>S009</b> M Message identifier		R	
<b>0065</b> M an..6 Message type identifier	+APERAK	R	<b>APERAK Application error and acknowledgement message</b>
<b>0052</b> M an..3 Message type version number	:D	R	<b>D Draft version</b>
<b>0054</b> M an..3 Message type release number	:99A	R	<b>99A Release 1999 - A</b>
<b>0051</b> M an..2 Controlling agency	:UN'	R	<b>UN UN/ECE/TRADE/WP.4, United Nations Standard Messages (UNSM)</b>
<b>0057</b> C an..6 Association assigned code		N	Not used
<b>0068</b> C an..35 COMMON ACCESS REFERENCE		N	Not used
<b>S010</b> C Status of the transfer		N	Not used
<b>0070</b> M n..2 Sequence message transfer number		N	Not used
<b>0073</b> C a1 First/last sequence message transfer indication		N	Not used
<u>Comments about the Segment:</u>			
<b>UNH+X+APERAK:D:99A:UN'</b>			

Segment: **4 BGM** Variant No.: 1 Status: R Max. Occ.: 1  
Beginning of message

EDIFACT	Example	S	Use/references
<b>BGM</b>	BGM		
<b>C002</b> C Document/message name		R	
<b>1001</b> C an..3 Document/message name, coded	+705	R	<b>705 Bill of lading</b>
<b>1131</b> C an..3 Code list qualifier		N	Not used
<b>3055</b> C an..3 Code list responsible agency, coded		N	Not used
<b>1000</b> C an..35 Document/message name		N	Not used
<b>C106</b> C Document/message identification		R	Reference must be assigned uniquely.
<b>1004</b> C an..35 Document/message number	+X	R	Reference must be assigned uniquely.
<b>1056</b> C an..9 Version		N	Not used
<b>1060</b> C an..6 Revision number		N	Not used
<b>1225</b> C an..3 MESSAGE FUNCTION, CODED	+9	R	<b>9 Original</b>
<b>4343</b> C an..3 RESPONSE TYPE, CODED	+AP'	R	<b>AP Accepted</b> <b>CA Conditionally accepted</b> <b>RE Rejected</b> AP = Selling agent confirmed the reception of the B/L data. CA = B/L data were stored by DAKOSY without error, however they have not yet been sent to the agents/broker. RE = An application error was found. The rejection can be articulated the EDI system (DAKOSY/dbh) or by the addressed agent/broker. A rejection by an agent/broker always contains the error code 600 (SG4/ERC/DE9321) and the clear text error description (FTX). Further details of the error description are placed in segment group 4.
<u>Comments about the Segment:</u>			
<b>BGM+705+X+9+AP'</b>			

Segment: **5 DTM** Variant No.: 1 Status: R Max. Occ.: 9  
Date/time/period

EDIFACT	Example	S	Use/references
<b>DTM</b>	DTM		
<b>C507</b> M Date/time/period		R	
<b>2005</b> M an..3 Date/time/period qualifier	+9	R	<b>9 Processing date/time</b>
<b>2380</b> C an..35 Date/time/period	:	R	
<b>2379</b> C an..3 Date/time/period format qualifier	2000011 41200 :203'	R	<b>203 CCYYMMDDHHMM</b>
<u>Comments about the Segment:</u>			
Date/time of the semantic check.			
<b>DTM+9:200001141200:203'</b>			

Segment Group: **SG2** Variant No.: 1 Status: R Max. Occ.: 1  
RFF-DTM  
Segment: **6 RFF** Variant No.: 1 Status: R Max. Occ.: 1  
Reference

EDIFACT	Example	S	Use/references
<b>RFF</b>	RFF		
<b>C506</b> M Reference			
<b>1153</b> M an..3 Reference qualifier	+AGO	R	<b>AGO Sender's reference to the original message</b> The reference from the segment UNH, DE0062 of the B/L-message is indicated.
<b>1154</b> C an..35 Reference number	:X'	R	reference number
<b>1156</b> C an..6 Line number		N	Not used
<b>4000</b> C an..35 Reference version number		N	Not used
<b>1060</b> C an..6 Revision number		N	Not used
<u>Comments about the Segment:</u>			
<b>RFF+AGO:X'</b>			

Segment Group: **SG2** Variant No.: 2 Status: R Max. Occ.: 1  
RFF-DTM  
Segment: **7 RFF** Variant No.: 1 Status: R Max. Occ.: 1  
Reference number to previous message

EDIFACT	Example	S	Use/references
<b>RFF</b>	RFF		
<b>C506</b> M Reference			
<b>1153</b> M an..3 Reference qualifier	+ACW	R	<b>ACW Reference number to previous message</b> The reference from segment BGM, DE1004 of the B/L-message is indicated.
<b>1154</b> C an..35 Reference number	:X'	R	reference number
<b>1156</b> C an..6 Line number		N	Not used
<b>4000</b> C an..35 Reference version number		N	Not used
<b>1060</b> C an..6 Revision number		N	Not used
<u>Comments about the Segment:</u>			
<b>RFF+ACW:X'</b>			

Segment Group: **SG2** Variant No.: 3 Status: R Max. Occ.: 1  
RFF-DTM  
Segment: **8 RFF** Variant No.: 1 Status: R Max. Occ.: 1  
Freight forwarder's reference number

EDIFACT	Example	S	Use/references
<b>RFF</b>	RFF		
<b>C506</b> M Reference			
<b>1153</b> M an..3 Reference qualifier	+FF	R	<b>FF Freight forwarder's reference number</b> The forwarder's reference from segment group 3, segment RFF, DE1154 of the B/L-message is indicated.
<b>1154</b> C an..35 Reference number	:X'	R	reference number
<b>1156</b> C an..6 Line number		N	Not used
<b>4000</b> C an..35 Reference version number		N	Not used
<b>1060</b> C an..6 Revision number		N	Not used
<u>Comments about the Segment:</u>			
<b>RFF+FF:X'</b>			

Segment Group: **SG3** Variant No.: 1 Status: R Max. Occ.: 1  
 NAD-CTA-COM  
 Segment: **9** **NAD** Variant No.: 1 Status: R Max. Occ.: 1  
 Sender's name and address

EDIFACT	Example	S	Use/references
<b>NAD</b>	NAD		
<b>3035</b> M an..3 PARTY QUALIFIER	+MS	R	<b>MS Document/message issuer/sender</b>
<b>C082</b> C Party identification details		R	
<b>3039</b> M an..35 Party identification	+DAK'	R	<b>DAK = DAKOSY</b> <b>DBH = dbh</b> <b>"TLN" = partner code of the agent/broker</b> <b>(as the case may be the DAKOSY-/dbh-</b> <b>code) if the B/L is declined by</b> <b>agent/broker.</b>
<b>1131</b> C an..3 Code list qualifier		N	Not used
<b>3055</b> C an..3 Code list responsible agency, coded		N	Not used
<b>C058</b> C Name and address		N	Not used
<b>3124</b> M an..35 Name and address line		N	Not used
<b>3124</b> C an..35 Name and address line		N	Not used
<b>3124</b> C an..35 Name and address line		N	Not used
<b>3124</b> C an..35 Name and address line		N	Not used
<b>3124</b> C an..35 Name and address line		N	Not used
<b>3124</b> C an..35 Name and address line		N	Not used
<b>C080</b> C Party name		N	Not used
<b>3036</b> M an..35 Party name		N	Not used
<b>3036</b> C an..35 Party name		N	Not used
<b>3036</b> C an..35 Party name		N	Not used
<b>3036</b> C an..35 Party name		N	Not used
<b>3036</b> C an..35 Party name		N	Not used
<b>3036</b> C an..35 Party name		N	Not used
<b>3045</b> C an..3 Party name format, coded		N	Not used
<b>C059</b> C Street		N	Not used
<b>3042</b> M an..35 Street and number/P.O. box		N	Not used
<b>3042</b> C an..35 Street and number/P.O. box		N	Not used
<b>3042</b> C an..35 Street and number/P.O. box		N	Not used
<b>3042</b> C an..35 Street and number/P.O. box		N	Not used
<b>3164</b> C an..35 CITY NAME		N	Not used
<b>3229</b> C an..9 COUNTRY SUB-ENTITY IDENTIFICATION		N	Not used

Segment: **9**      **NAD**    Variant No.: 1      Status: R      Max. Occ.: 1  
Sender's name and address

EDIFACT	Example	S	Use/references
<b>3251</b> C an..9 POSTCODE IDENTIFICATION		N	Not used
<b>3207</b> C an..3 COUNTRY <sup>Y</sup> , CODED		N	Not used
<u>Comments about the Segment:</u>			
<b>NAD+MS+DAK'</b>			

Segment Group: **SG3** Variant No.: 1 Status: R Max. Occ.: 1  
 NAD-CTA-COM  
 Segment: **10 CTA** Variant No.: 1 Status: R Max. Occ.: 9  
 Contact information

EDIFACT	Example	S	Use/references
<b>CTA</b>	CTA		
<b>3139</b> C an..3 CONTACT FUNCTION, CODED	+BF	R	<b>BF Service contact</b>
<b>C056</b> C Department or employee details		R	
<b>3413</b> C an..17 Department or employee identification	+	N	Not used
<b>3412</b> C an..35 Department or employee	: DAKOSY - SUPPORT '	R	DAKOSY - Call Centre (if the receiver of the B/L data constructs the APERAK, the responsible department of the receiver is to be indicated)
<u>Comments about the Segment:</u>			
<b>CTA+BF+:DAKOSY-SUPPORT'</b>			

Segment Group: **SG3** Variant No.: 1 Status: R Max. Occ.: 1  
 NAD-CTA-COM  
 Segment: **11** **COM** Variant No.: 1 Status: R Max. Occ.: 1

EDIFACT	Example	S	Use/references
<b>COM</b>	COM	R	
<b>C076</b> M Communication contact		R	
<b>3148</b> M an..512 Communication number	+040 3786099 0	R	Telephone number of the DAKOSY Call Centre (if the receiver of the B/L data constructs the APERAK, the corresponding phone number of the receiver is to be indicated)
<b>3155</b> M an..3 Communication channel qualifier	:TE'	R	<b>TE Telephone</b>
<u>Comments about the Segment:</u>			
<b>COM+040 37860990:TE'</b>			

Segment Group: **SG3** Variant No.: 1 Status: R Max. Occ.: 1  
 NAD-CTA-COM  
 Segment: **12** **COM** Variant No.: 2 Status: R Max. Occ.: 1  
 email address

EDIFACT	Example	S	Use/references
<b>COM</b>	COM	R	
<b>C076</b> M Communication contact			
<b>3148</b> M an..512 Communication number	+CONTA CT<A>TL N.DE	R	Email address of the DAKOSY Call Centre (if the receiver of the B/L data constructs the APERAK, the corresponding email address of the receiver is to be indicated)
<b>3155</b> M an..3 Communication channel qualifier	:EM'	R	<b>EM Electronic mail</b>
<u>Comments about the Segment:</u>			
<b>COM+CONTACT&lt;A&gt;TLN.DE:EM'</b>			

Segment Group: **SG3** Variant No.: 2 Status: D Max. Occ.: 1  
NAD

This segment group is only used for APERAK messages, which confirm the reception of the B/L message through the agent/carrier.

Segment: **13** **NAD** Variant No.: 1 Status: R Max. Occ.: 1  
Bill of lading recipient

EDIFACT	Example	S	Use/references
<b>NAD</b>	NAD		
<b>3035</b> M an..3 PARTY QUALIFIER	+BL	R	<b>BL Bill of lading recipient</b>
<b>C082</b> C Party identification details		R	
<b>3039</b> M an..35 Party identification	+USER- CODE'	R	DAKOSY user code of the agent/carrier.
<b>1131</b> C an..3 Code list qualifier		N	Not used
<b>3055</b> C an..3 Code list responsible agency, coded		N	Not used
<b>C058</b> C Name and address		N	Not used
<b>3124</b> M an..35 Name and address line		N	Not used
<b>3124</b> C an..35 Name and address line		N	Not used
<b>3124</b> C an..35 Name and address line		N	Not used
<b>3124</b> C an..35 Name and address line		N	Not used
<b>3124</b> C an..35 Name and address line		N	Not used
<b>3124</b> C an..35 Name and address line		N	Not used
<b>C080</b> C Party name		N	Not used
<b>3036</b> M an..35 Party name		N	Not used
<b>3036</b> C an..35 Party name		N	Not used
<b>3036</b> C an..35 Party name		N	Not used
<b>3036</b> C an..35 Party name		N	Not used
<b>3036</b> C an..35 Party name		N	Not used
<b>3036</b> C an..35 Party name		N	Not used
<b>3045</b> C an..3 Party name format, coded		N	Not used
<b>C059</b> C Street		N	Not used
<b>3042</b> M an..35 Street and number/P.O. box		N	Not used
<b>3042</b> C an..35 Street and number/P.O. box		N	Not used
<b>3042</b> C an..35 Street and number/P.O. box		N	Not used
<b>3042</b> C an..35 Street and number/P.O. box		N	Not used
<b>3164</b> C an..35 CITY NAME		N	Not used
<b>3229</b> C an..9 COUNTRY SUB-ENTITY IDENTIFICATION		N	Not used

Segment: **13** **NAD** Variant No.: 1 Status: R Max. Occ.: 1  
Name and address

EDIFACT	Example	S	Use/references
<b>3251</b> C an..9 POSTCODE IDENTIFICATION		N	Not used
<b>3207</b> C an..3 COUNTRY, CODED		N	Not used
<u>Comments about the Segment:</u> <b>NAD+BL+USER-CODE'</b>			

Segment Group: **SG4** Variant No.: 1 Status: D Max. Occ.: 99999  
ERC-FTX-SG5

This segment group is used for response type „CA“ (Conditionally Accepted) or „RE“ (Rejected) (BGM, DE4343) only.

Segment: **14 ERC** Variant No.: 1 Status: R Max. Occ.: 1  
Application error information

EDIFACT	Example	S	Use/references
<b>ERC</b>	ERC	R	
<b>C901</b> M Application error detail		R	
<b>9321</b> M an..8 Application error identification	+DAP'	R	DAP means: Accepted by DAKOSY. Not yet sent to the agent/broker. This code is only used in the case of "response type" „CA“ (Conditionally Accepted).  The remaining error codes (for "response type" „RE“ (Rejected)) are published on the home page ( <a href="http://www.bill-of-lading.de">www.bill-of-lading.de</a> ).  <u>Warnings:</u> Error codes which begin with "W" are only warnings. A warning has informative character and do not lead for rejection of the B/L. Example: W50 = "Booking number is missing. Booking number is required by the recipient for allocation to the concerning booking!"
<b>1131</b> C an..3 Code list qualifier		N	Not used
<b>3055</b> C an..3 Code list responsible agency, coded		N	Not used
<u>Comments about the Segment:</u>			
<b>ERC+DAP'</b>			

Segment Group: **SG4** Variant No.: 1 Status: D Max. Occ.: 99999  
 ERC-FTX-SG5  
 Segment: **15** **FTX** Variant No.: 1 Status: R Max. Occ.: 1  
 Error description

EDIFACT	Example	S	Use/references
<b>FTX</b>	FTX		
<b>4451</b> M an..3 TEXT SUBJECT QUALIFIER	+AAO	R	<b>AAO Error description (free text)</b>
<b>4453</b> C an..3 TEXT FUNCTION, CODED	+	N	Not used
<b>C107</b> C Text reference		N	Not used
<b>4441</b> M an..17 Free text identification	+	N	Not used
<b>1131</b> C an..3 Code list qualifier		N	Not used
<b>3055</b> C an..3 Code list responsible agency, coded		N	Not used
<b>C108</b> C Text literal		R	
<b>4440</b> M an..70 Free text	+ERROR	R	Description/explanation of the error or warning (free text)
	DESCR PTION (FREE TEXT)		
<b>4440</b> C an..70 Free text	:X	O	
<b>4440</b> C an..70 Free text	:X	O	
<b>4440</b> C an..70 Free text	:X	O	
<b>4440</b> C an..70 Free text	:X'	O	
<b>3453</b> C an..3 LANGUAGE, CODED		N	Not used
<b>4447</b> C an..3 TEXT FORMATTING, CODED		N	Not used
<u>Comments about the Segment:</u>			
<b>FTX+AAO+++ERROR DESCRIPTION (FREE TEXT):X:X:X'</b>			

Segment Group: **SG5** Variant No.: 1 Status: D Max. Occ.: 1  
RFF-FTX

This segment group is only used if a non-permitted character was found in the B/L message.

Segment: **16 RFF** Variant No.: 1 Status: R Max. Occ.: 1  
Reference

EDIFACT	Example	S	Use/references
<b>RFF</b>	RFF		
<b>C506</b> M Reference			
<b>1153</b> M an..3 Reference qualifier	+ADP	R	<b>ADP Statement number</b>
<b>1154</b> C an..35 Reference number	: SEGME NT/ DATA ELEMEN T :12'	R	The Segment and the data element in which the non-permitted character was found are indicated. Example: FTX/4440 = error in the segment FTX, data element 4440
<b>1156</b> C an..6 Line number		R	The number of the erroneous segment within the message (UNH - UNT included) is indicated.
<b>4000</b> C an..35 Reference version number		N	Not used
<b>1060</b> C an..6 Revision number		N	Not used
<u>Comments about the Segment:</u>			
<b>RFF+ADP:SEGMENT/DATA ELEMENT:12'</b>			

Segment: 17 **UNT** Variant No.: 1 Status: R Max. Occ.: 1  
Message trailer

EDIFACT	Example	S	Use/references
<b>UNT</b> <b>0074</b> M n..6 NUMBER OF SEGMENTS IN A MESSAGE	UNT +19	R	Number of segments. The segments UNH and UNT are included in the count.
<b>0062</b> M an..14 MESSAGE REFERENCE NUMBER	+X'	R	This reference must be unique for the message occurrence regardless of the message type and business application area. Data element [0062] must be identical to the one in the UNH- and UNT-segment.
<u>Comments about the Segment:</u>			
<b>UNT+19+X'</b>			

Segment: **18 UNZ** Variant No.: 1 Status: R Max. Occ.: 1  
Interchange trailer

EDIFACT	Example	S	Use/references
<b>UNZ</b>	UNZ		
<b>0036</b> M n..6 INTERCHANGE CONTROL COUNT	+1	R	Number of messages.
<b>0020</b> M an..14 INTERCHANGE CONTROL REFERENCE	+X'	R	Reference no. as in UNB/0020
<u>Comments about the Segment:</u>			
<b>UNZ+1+X'</b>			

## 4.3.4 Sample Message/Example

The following sample message is the only example given in this document. More practical examples will be published soon on the B/L Internet page ([www.bill-of-lading.de](http://www.bill-of-lading.de)).

S	Max. Wdh	No.	Segment
UNA	1	1	UNA:+.? '
UNB	1	2	UNB+UNOB:4+DAKOSY+USER-CODE+20000113:1320+X'
UNH	1	3	UNH+X+APERAK:D:99A:UN'
BGM	1	4	BGM+705+X+9+AP'
DTM	9	5	DTM+9:200001141200:203'
SG2	9		
RFF	1	6	RFF+AGO:X'
SG2	9		
RFF	1	7	RFF+ACW:X'
SG2	9		
RFF	1	8	RFF+FF:X'
SG3	99		
NAD		9	NAD+MS+DAK'
CTA	9	10	CTA+BF+:DAKOSY-SUPPORT'
COM	9	11	COM+040 37860990:TE'
COM	9	12	COM+CONTACT<A>TLN.DE:EM'
SG3	99		
NAD		13	NAD+BL+USER-CODE'
SG4	99999		
ERC	1	14	ERC+DAP'
FTX	1	15	FTX+AAO+++ERROR DESCRIPTION (FREE TEXT):X:X:X'
SG5	9		
RFF	1	16	RFF+ADP:SEGMENT/DATA ELEMENT:12'
UNT	1	17	UNT+19+X'
UNZ	1	18	UNZ+1+X'

### 4.3.5 The APERAK As Confirmation Message/Receipt From The Recipient

The reception of the B/L data by the addressed recipient is to be confirmed with the message APERAK.

As described earlier, only the reception of the B/L transmission file is to be confirmed and therefore the segment group 4 is not included in the APERAK.

Please refer to chapters 4.3 ff. for the structure and the segment description of the message.

Please note the following modifications (in addition to the exclusion of segment group 4)

UNB:

- as sender (DE 0004 ) the user code of the recipient must be indicated
- as recipient (DE 0010) „DAKOSY“ must be indicated

BGM:

- in DE 4343, the code "AP" can only be indicated

NAD/SG3:

- in segment group 3 is only the segment NAD with the Qualifier "MS" (DE 3035) required