

Delivery Forecast
EDIFACT DELFOR D.97a
(Benteler Europe)

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Document Change Log

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1.1	1 st apr 2008	Andreas Brömmelhaus	changed character set from UNOA:2 to UNOC:3
1.2	18 th feb 2010	Andreas Brömmelhaus	new SCC-qualifiers implemented

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INTRODUCTION

This specification provides the definition of the EDIFACT DELFOR D.97a Delivery schedule message (DELFOR). This guideline is specifically designed to outline the requirements for the Delivery Schedule used by Benteler Group.

MESSAGE DEFINITION

This document provides the definition of a Delivery Instruction Message, based on the EDIFACT DELFOR D.97a, to be used in Electronic Data Interchange (EDI) between a Benteler Operating Company and its Trading Partners.

FUNCTIONAL DEFINITION

The Delivery Instruction message is a message from Benteler Group to a Benteler Supplier giving details for both short and long term material requirements in line with the conditions set out in the purchase contract.

This message may only be used as planning forecast; shipping instruction will be provided in an additional call-off message.

PRINCIPLES

The Delivery Instruction message is intended to:

- Specify requirements based on the delivery conditions.
- Define the aspects that guarantee synchronization between Benteler and the Supplier.
- Provide information allowing the Supplier to plan for future requirements, to purchase raw materials.

REFERENCES

The content of this message is based on:

- The message structure as defined by EDIFACT for the Delivery Schedule Message DELFOR as published in the UN/EDI FACT D.97a 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.
- Although the DELINS subset defined by ODETTE has been based on the EDIFACT D.96a Directory which is not upward compatible with the D.97a Directory, the subset defined by Benteler Automotive and described in this document follows as close as possible the structure of the ODETTE subset.

FIELD OF APPLICATION

The following definition of a Delivery Instruction Message in EDIFACT format is applicable for the interchange of delivery instructions issued by Benteler Group for material deliveries to one or more Benteler Operations.

MESSAGE DESCRIPTION

The following pages contain a full description of the EDIFACT DELFOR D.97a message as implemented by Benteler Group. The official EDIFACT segment description is complemented with remarks pertaining to the specific requirements for an interchange with Benteler Group. Those remarks contain specific code values used, additional information on the values shown in a specific field, etc. The aim of those remarks is to simplify the implementation of the message.

INTRODUCTION

How to read this documentation

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

- 0 0010 - **UNH** MESSAGE HEADER
- 1 **Segment group:** none **Level:** 0
- 2 **EDIFACT status:** mandatory **Benteler status:** mandatory
- 3 **Maximum use:** 1 per message **Benteler occurrences:** 1 per message
- 4 **Function:** Service segment starting uniquely identifying a message. The message type code for the order message is DELFOR.
- 5 **Example** UNH+1+DELFOR:D:97A:UN'
- 6 **A B C D E**

	EDIFACT STANDARD DEFINITION				BENTELER IMPLEMENTATION			
	RE	TAG	NAME	ST	FT	ST	FT	REMARKS
7	A	0062	Message reference number	M	an..14	M	an..14	unique message control number
		<i>S009</i>	<i>Message identifier</i>	<i>M</i>		<i>M</i>		
	B	0065	Message type	M	an..6	M	an..6	'DELFOR'
	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			
		<i>S010</i>	<i>Status of transfer</i>	<i>C</i>				
		0070	Sequence of transfer	M	n..2			
		0073	First and last transfer	C	a1			

8 **Comments:**

9 **Code Values:**

- 0 Segment position, tag and segment description
- 1 Segment group membership and level
- 2 EDIFACT status (mandatory/conditional) and Benteler status (mandatory/conditional/optional)
- 3 Maximum use (EDIFACT recommendation) and maximal Benteler occurrences
- 4 Description of segment functionality
- 5 Example for Benteler usage
- 6 Reference to the element description
- 7 identification of the data-elements/composites within the segment
- reference to the example
 - element/composite tag
 - element/composite name
 - element/composite status EDIFACT (mandatory/conditional)
 - element format EDIFACT (n - numeric, an - alphanumeric) and length (6) or max. length (..6)
 - element/composite status Benteler (mandatory/conditional)
 - element format Benteler (n - numeric, an - alphanumeric) and length (6) or max. length (..6)
 - element remarks (ie. content)
- 8 Comments concerning the segment
- 9 Code values for specific elements

General remarks

This section should be read in conjunction with the Segment Table which indicate mandatory, conditional and repeating requirements.

The following guidelines and principles apply to the whole message and are intended to facilitate the understanding and implementation of the message:

- All specified dates/times should be in the format 'yymmdd'/'hhmm' unless all parties involved in the transaction agree that there is a functional requirement for an alternative format. Periods should be specified as whole numbers representing the required period as indicated in the format qualifier (weeks, months, etc.)
- Where a choice of code or text is given only the code element should be used wherever possible.
- Conditional data that is not required in the message should not be included.
- Care must be taken that the segment qualifier in dependent segments do not conflict with the segment qualifier of the trigger segment of a group.
- Free text information within the message should be avoided as this inhibits automatic processing.

SEGMENT TABLE

The following table shows the segments defined for the EDIFACT UNSM DELFOR D.97a message. The segments/groups that are not used by Benteler in the subset of DELFOR are not shown!

Pos	Tag	Name	EDIFACT		Benteler	
			S	R	S	R
0000	UNB	Interchange Header	M	1	M	1
0010	UNH	Message Header	M	1	M	1
0020	BGM	Beginning of message	M	1	M	1
0030	DTM	Date/time/period	M	10	M	1
0080	SG 2	Segment group 2	C	99	M	1
0090	NAD	Name and address	M	1	M	1
0190	SG 6	Segment group 6	C	9999	M	
0200	GIS	General indicator	M	1	M	
0210	SG 7	Segment group 7	C	1	M	1
0220	NAD	Name and address	M	1	M	1
0370	SG 12	Segment group 12	C	9999	M	1
0380	LIN	Line item	M	1	M	1
0390	PIA	Additional product information	C	10	C	1
0480	SG 13	Segment group 13	C	10	M	1
0490	RFF	Reference	M	1	M	1
0540	SG 15	Segment group 15	C	10	M	2
0550	QTY	Quantity	M	1	M	1
0560	DTM	Date/time/period	C	2	M	1
0570	SG 16	Segment group 16	C	10	M	1
0580	RFF	Reference	M	1	M	1
0590	DTM	Date/time/period	C	1	M	1
0600	SG 17	Segment group 17	C	999	M	999
0610	SCC	Scheduling conditions	M	1	M	1
0620	SG 18	Segment group 18	C	999	M	999
0630	QTY	Quantity	M	1	M	1
0640	DTM	Date/time/period				
1030	UNT	Message Trailer	M	1	M	1
1040	UNZ	Interchange Trailer	M	1	M	1

MESSAGE STANDARD DESCRIPTION

Pos	Tag	Description
0000	UNB	Interchange Header Service segment providing the unique identification of an interchange. It allows the identification of the sender and receiver of the interchange, gives a date and time of preparation as well as the interchange control reference and the application reference
0010	UNH	Message Header Service segment starting uniquely identifying a message. The message type code for the order message is ORDERS.
0020	BGM	Beginning of message To indicate the type and function of a message and to transmit the identifying number.
0030	DTM	Date/time/period To specify date, and/or time, or period.
0080	SG 2	Segment group 2 NAD-SG3-SG4 A group of segments identifying the parties with associated information.
0090	NAD	Name and address To specify the name/address and their related function, either by CO82 only and/or unstructured by CO58 or structured by CO80 thru 3207.
0190	SG 6	Segment group 6 GIS-SG7-SG12 A group of segments providing details on delivery points and products and related information using one of both scheduling methods.
0200	GIS	General indicator A segment to indicate which method is used by the relevant processing indicator code.
0210	SG 7	Segment group 7 NAD-LOC-FTX-SG8-SG9-SG10-SG11 A group of segments needed to identify a delivery point and its attached information when the delivery point method is used.
0220	NAD	Name and address A segment for identifying the consignee.
0370	SG 12	Segment group 12 LIN-PIA-IMD-MEA-ALI-GIN-GIR-LOC-DTM-FTX-SG13-SG14-SG15-SG17-SG20-SG22 A group of segments providing details of the individual line items for both methods.
0380	LIN	Line item A segment identifying the details of the product or service to be delivered, e.g. product identification. All other segments in the detail section following the LIN segment refer to the line item.
0390	PIA	Additional product information A segment providing additional product identification.
0480	SG 13	Segment group 13 RFF-DTM A group of segments giving references related to the line item and where necessary, their dates.
0490	RFF	Reference A segment for identifying references to the line item, e.g. a contract and its appropriate line item, original message number, previous message number if different per line item.
0540	SG 15	Segment group 15 QTY-DTM-SG16 A group of segments specifying product quantities and associated dates not related to schedules and where relevant, references.
0550	QTY	Quantity A segment to specify pertinent quantities not related to schedule(s) e.g. cumulative quantity, last quantity considered.
0560	DTM	Date/time/period A segment to specify pertinent quantities not related to schedule(s) e.g. cumulative quantity, last quantity considered.
0570	SG 16	Segment group 16 RFF-DTM A group of segments giving references related to the quantity and where necessary, their date.
0580	RFF	Reference A segment for identifying reference to the quantity, e.g. despatch advice number.
0590	DTM	Date/time/period Date/time/period of the reference.

0600	SG 17	Segment group17 SCC-SG18 A group of segments specifying the schedule information for the product identified in the LIN segment. With the delivery point driven method this segment group provides the schedule for the identified delivery point and product. With the product driven method this segment group can be used to summarise all schedules provided with the subsequent delivery point information given in segment group 22.
0610	SCC	Scheduling conditions A segment specifying the status of the schedule. Optionally a delivery pattern can be established, e.g. firm or proposed delivery pattern.
0620	SG 18	Segment group18 QTY-DTM-SG19 A group of segments specifying product quantities and associated dates.
0630	QTY	Quantity A segment to specify scheduled quantities which may be related to schedule(s) and, or pattern established in the following DTM segment, e.g. delivery quantity for a specified date.
0640	DTM	Date/time/period A segment indicating date/time/period details relating to the given quantity.
1030	UNT	Message Trailer Service segment ending a message giving the total number of segments in the message and the control reference number of the message.
1040	UNZ	Interchange Trailer Service segment ending an interchange and giving the number of messages contained in the interchange as well as the interchange control reference number.

DATA SEGMENT DESCRIPTION

0000 - UNB INTERCHANGE HEADER

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

Level: 0
Benteler status: mandatory
Benteler occurrences: 1 per message

Function: Service segment providing the unique identification of an interchange. It allows the identification of the sender and receiver of the interchange, gives a date and time of preparation as well as the interchange control reference and the application reference

Example UNB+UNOC:3+SENDER:ZZ+RECEIVER:ZZ+070710:0945+23451'
A B C D E F G H I

RE	TAG	EDIFACT STANDARD DEFINITION NAME	EDIFACT STANDARD DEFINITION		BENTELER IMPLEMENTATION		
			ST	FT	ST	FT	REMARKS
A	S001	Syntax identifiers	M		M		
	0001	Syntax identifier	M	a4	M	a4	'UNOC'
B	0002	Syntax version number	M	n1	M	n1	'3'
	S002	Interchange sender	M		M		
C	0004	Sender identification	M	an..35	M	an..35	Sender ID
	D	0007	Identification code qualifier	C	an..4	C	an..4
0008		Address for reverse routing	C	an..14			
E	S003	Interchange recipient	M		M		
	0010	Recipient identification	M	an..35	M	an..35	Receiver ID
F	0007	Identification code qualifier	C	an..4	C	an..4	Receiver ID qualifier
	0014	Routing address	C	an..14			
G	S004	Date/time of preparation	M		M		
	0017	Date of preparation	M	n6	M	n6	Date, format: YYMMDD
H	0019	Time of preparation	M	n4	M	n4	Time, format: HHMM
	I	0020	Interchange control reference	M	an..14	M	an..14
S005		Recipient's 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				
0029	Processing priority code	C	a1				
0031	Acknowledgement request	C	n1				
0032	Communications agreement Id.	C	an..35				
0035	Test indicator	C	n1	O	n1	1 - test (if requested)	

Comments:

Code Values:

0010 - UNH MESSAGE HEADER

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

Level: 0
Benteler status: mandatory
Benteler occurrences: 1 per message

Function: Service segment starting uniquely identifying a message. The message type code for the order message is DELFOR.

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

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
A	0062	Message reference number	M	an..14	M	an..14	unique message control number
	<i>S009</i>	<i>Message identifier</i>	<i>M</i>		<i>M</i>		
B	0065	Message type	M	an..6	M	an..6	'DELFOR'
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			
	<i>S010</i>	<i>Status of transfer</i>	<i>C</i>				
	0070	Sequence of transfer	M	n..2			
	0073	First and last transfer	C	a1			

Comments:

Code Values:

0020 - **BGM** BEGINNING OF MESSAGE

Segment group: none
EDIFACT status: mandatory
Maximum use: 1 per message
Level: 0
Benteler status: mandatory
Benteler occurrences: 1 per message

Function: To indicate the type and function of a message and to transmit the identifying number.

Example BGM+241:::PS+0123456789+9'
A B C D

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
A	C002	Document/message name	C				
	1001	Document/message name, coded	C	an..3	C	an..3	'241' - Delivery schedule
	1131	Code list qualifier	C	an..3			
B	3055	Code list responsible agency, coded	C	an..3			
	1000	Document/message name	C	an..35			'PS' Planned shipment based - no authorization to ship
C	C106	Document/message identification	C		M		
	1004	Document/message number	C	an..35	M	an..35	unique forecast number
	1056	Version	C	an..9			
	1060	Revision number	C	an..6			
D	1225	Message function, coded	C	an..3	M	an..3	'9' - original document
	4343	Response type, coded	C	an..3			

Comments:

Code Values:

0030 - DTM DATE/TIME/PERIOD

Segment group: none
EDIFACT status: mandatory
Maximum use: 10 per message

Level: 0
Benteler status: mandatory
Benteler occurrences: 1 per message

Function: To specify date, and/or time, or period.

Example DTM+137:200707061332:203'
 A **B** **C**

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
A	C507 2005	Date/time/period Date/time/period qualifier	M M	an..3	M M	an..3	'137' - Document/message date/time
B	2380	Date/time/period	C	an..35	M	an..35	Date/time of document transmission
C	2379	Date/time/period format qualifier	C	an..3	M	an..3	'203' - CCYYMMDDhhmm

Comments:

Code Values:

0080 - Segment group 2 NAD-SG3-SG4

Segment group: 2
EDIFACT status: conditional
Maximum use: 99 per message
Level: 1
Benteler status: mandatory
Benteler occurrences: 1 per message

Function: A group of segments identifying the parties with associated information.

Benteler usage: see segment description

0090 - NAD NAME AND ADDRESS

Segment group: 2
EDIFACT status: conditional
Maximum use: 1 per segment group 2
Level: 1
Benteler status: mandatory
Benteler occurrences: 1 per segment group 2

Function: To specify the name/address and their related function, either by CO82 only and/or unstructured by CO58 or structured by CO80 thru 3207.

Example NAD+SU+H/403380::92'
 A **B** **C**

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
A	3035	Party qualifier	M	an..3	M	an..3	'SU' - Supplier
	<i>C082</i>	<i>Party identification details</i>	<i>C</i>		<i>M</i>		
B	3039	Party identification	M	an..35	M	an..35	Code identifying the supplier
	1131	Code list qualifier	C	an..3			
C	3055	Code list responsible agency, coded	C	an..3	M	an..3	For code value see list below.
	<i>C058</i>	<i>Name and address</i>	<i>C</i>				
	3124	Name and address	M	an..35			
	3124	Name and address	C	an..35			
	3124	Name and address	C	an..35			
	3124	Name and address	C	an..35			
	3124	Name and address	C	an..35			
	<i>C080</i>	<i>Party name</i>	<i>C</i>				
	3036	Party name	M	an..35			
	3036	Party name	C	an..35			
	3036	Party name	C	an..35			
	3036	Party name	C	an..35			
	3036	Party name	C	an..35			
	3045	Party name format, coded	C	an..3			
	<i>C059</i>	<i>Street</i>	<i>C</i>				
	3042	Street and number/p.o. box	M	an..35			
	3042	Street and number/p.o. box	C	an..35			
	3042	Street and number/p.o. box	C	an..35			
	3042	Street and number/p.o. box	C	an..35			
	3164	City name	C	an..35			
	3229	Country sub-entity identification	C	an..9			
	3251	Postcode identification	C	an..9			
	3207	Country, coded	C	an..3			

Comments:

Code Values: **3055** **Code list responsible agency, coded**
 92 Assigned by buyer of buyer's agent

0190 - Segment group 6 GIS-SG7-SG12

Segment group: 6
EDIFACT status: conditional
Maximum use: 9999 per message
Level: 1
Benteler status: mandatory
Benteler occurrences: 9999 per message

Function: A group of segments providing details on delivery points and products and related information using one of both scheduling methods.

Benteler usage: see segment description

0200 - GIS GENERAL INDICATOR

Segment group: 6
EDIFACT status: conditional
Maximum use: 1 per segment group 6
Level: 1
Benteler status: mandatory
Benteler occurrences: 1 per segment group 6

Function: A segment to indicate which method is used by the relevant processing indicator code.

Example GIS+37'
 A

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
A	C529	Processing indicator	M		M		'37' - complete information
	7365	Processing indicator	M	an..3	M	an..35	
	1131	Code list qualifier	C	an..3			
	3055	Code list responsible agency, coded	C	an..3			
	7187	Process type identification	C	an..17			

Comments:

Code Values:

0390 - PIA ADDITIONAL PRODUCT ID

Segment group:	12	Level:	2
EDIFACT status:	conditional	Benteler status:	conditional
Maximum use:	10 per LIN in segment group 12	Benteler occurrences:	1 per LIN in segment group 12
Function:	To specify additional or substitutional item identification codes.		

Example PIA+1+A:EC'
 A B C

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
A	4347	Product Id. function qualifier	C	an..3	M	an..3	'1' - Additional identification
	<i>C212</i>	<i>Item number identification</i>	<i>C</i>		<i>M</i>		
B	7140	Item number	C	an..35	M	an..35	change leven identification 'EC' - Engineering change level
C	7143	Item number type, coded	C	an..3	M	an..3	
	1131	Code list qualifier	C	an..3			
	3055	Code list responsible agency, coded	C	an..3			
	<i>C212</i>	<i>Item number identification</i>	<i>C</i>				
	7140	Item number	C	an..35			
	7143	Item number type, coded	C	an..3			
	1131	Code list qualifier	C	an..3			
	3055	Code list responsible agency, coded	C	an..3			
	<i>C212</i>	<i>Item number identification</i>	<i>C</i>				
	7140	Item number	C	an..35			
	7143	Item number type, coded	C	an..3			
	1131	Code list qualifier	C	an..3			
	3055	Code list responsible agency, coded	C	an..3			
	<i>C212</i>	<i>Item number identification</i>	<i>C</i>				
	7140	Item number	C	an..35			
	7143	Item number type, coded	C	an..3			
	1131	Code list qualifier	C	an..3			
	3055	Code list responsible agency, coded	C	an..3			

Comments: If a change level has not yet been assigned for a part Benteler will send a '-' as change level.

Code Values:

0480 - Segment group 13 RFF- DTM

Segment group: 13
EDIFACT status: conditional
Maximum use: 10 per LIN in segment group 12
Level: 3
Benteler status: mandatory
Benteler occurrences: 2 per LIN in segment group 12
Function: A group of segments giving references related to the line item and where necessary, their dates.
Benteler usage: see segment description

0490 - RFF REFERENCE

Segment group: 13
EDIFACT status: mandatory if segment group 13 is used
Maximum use: 1 per segment group 13
Function: A segment identifying documents related to the line item.
Level: 3
Benteler status: mandatory
Benteler occurrences: 1 per segment group 13

Example RFF+ON:65008982:00010'
A B C

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C506	REFERENCE	M		M		
A	1153	Reference qualifier	M	an..3	M	an..3	'ON' - Order number
B	1154	Reference number	C	an..35	M	an..35	Number of the Purchase Order relevant for the defined part in the preceding LIN.
C	1156	Line number	C	an..6	O	an..6	Line Item Number of the Purchase Order relevant for the defined part in the preceding LIN.
	4000	Reference version number	C	an..35			

Comments:

Code Values:

0490 - RFF REFERENCE

Segment group: 13
EDIFACT status: mandatory if segment group 13 is used
Maximum use: 1 per segment group 13
Function: A segment identifying documents related to the line item.

Level: 3
Benteler status: mandatory
Benteler occurrences: 1 per segment group 13

Example RFF+AAAN:23'
A B

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C506	REFERENCE	M		M		
A	1153	Reference qualifier	M	an..3	M	an..3	'AAN' - release number
B	1154	Reference number	C	an..35	M	an..35	Release number relevant for the defined part in the preceding LIN.
	1156	Line number	C	an..6	O	an..6	
	4000	Reference version number	C	an..35			

Comments:

Code Values:

Sample use of segment groups 15 and 17

Segment groups 15 and 17 are used to provide several different kinds of quantity information:

Usage	Segments	Qualifier	Description
Cumulative quantity	SG15.QTY	QTY.6063 = 70	Cumulative quantity received
	SG15.DTM	DTM.2005 = 51	Cumulative quantity date
Last received quantity	SG15.QTY	QTY.6063 = 48	Last received quantity
	SG16.RFF	RFF.1153 = SI	Shipper identification number
	SG16.DTM	DTM.2005 = 50	Goods received date
Requirement information	SG17.SCC	SCC.4017 = 4	Planning quantity
	SG18.QTY	QTY.6063 = 1	Discrete quantity
	SG18.DTM	DTM.2005 = 10	Ship Date
Authorization information (Cumulative fabrication)	SG17.SCC	SCC.4017 = 2	Commitment for manufacturing and material (fabrication authorization)
	SG18.QTY	QTY.6063 = 3	Cumulative quantity
	SG18.DTM	DTM.2005 = 51	Cumulative quantity date
Authorization information (Cumulative material)	SG17.SCC	SCC.4017 = 3	Commitment for material (material authorization)
	SG18.QTY	QTY.6063 = 3	Cumulative quantity
	SG18.DTM	DTM.2005 = 51	Cumulative quantity date

Sample:

QTY+70:99999:C62' DTM+51:20051212:102'	Cumulative quantity
QTY+48:99999:C62' RFF+SI:9634' DTM+50:20051212:102'	Last received quantity
SCC+4++W' QTY+1:9999:C62' DTM+10:20051219:102' QTY+1:9999:C62' DTM+10:20051226:102'	Planning quantity
SCC+2' QTY+3:99999:C62' DTM+51:20051231:102'	Cumulative fabrication authorization
SCC+3' QTY+3:99999:C62' DTM+51:200501231:102'	Cumulative material authorization

Each use of segment group 15 and 17 is described separately in the following pages:

CUMULATIVE QUANTITY

SG15.QTY - SG15.DTM

0540 - Segment group 15 QTY- DTM-SG16

Segment group: 15	Level: 3
EDIFACT status: conditional	Benteler status: optional
Maximum use: 10 per segment group 12	Benteler occurrences: 10 per segment group 12

Function: A group of segments specifying product quantities and associated dates not related to schedules and where relevant, references.

Benteler usage: see segment description

0550 - QTY QUANTITY

Segment group: 15	Level: 3
EDIFACT status: mandatory if segment group 15 is used	Benteler status: mandatory
Maximum use: 1 segment group 15	Benteler occurrences: 1 segment group 15
Function: A segment to specify pertinent quantities not related to schedule(s) e.g. cumulative quantity, last quantity considered.	

Example QTY+70:99999:C62'
A B C

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C186	Quantity details	M		M		
A	6063	Quantity qualifier	M	an..3	M	an..3	'70' - Cumulative quantity received
B	6060	Quantity	M	n..15	M	n..15	Cumulative quantity received
C	6411	Measure unit qualifier	C	an..3	M	an..3	'C62' - pieces

Comments:

Code Values:

0560 - DTM DATE/TIME/PERIOD

Segment group:	15	Level	3
EDIFACT status:	conditional	Benteler status:	mandatory
Maximum use:	2 per segment group 15	Benteler occurrences:	1 per segment group 15
Function:	A segment to specify pertinent quantities not related to schedule(s) e.g. cumulative quantity, last quantity considered.		

Example DTM+51:20051212:102'
A B C

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C507	Date/time/period	M		M		
A	2005	Date/time/period qualifier	M	an..3	M	an..3	'51' - Cumulative quantity date
B	2380	Date/time/period	C	an..35	M	an..35	Cumulative quantity date
C	2379	Date/time/period format qualifier	C	an..3	M	an..3	'102' - CCYYMMDD

Comments:

Code Values:

LAST RECEIVED QUANTITY

SG15.QTY - SG16.RFF - SG16.DTM

0540 - Segment group 15 QTY- DTM-SG16

Segment group: 15	Level: 3
EDIFACT status: conditional	Benteler status: optional
Maximum use: 10 per segment group 12	Benteler occurrences: 10 per segment group 12

Function: A group of segments specifying product quantities and associated dates not related to schedules and where relevant, references.

Benteler usage: see segment description

0550 - QTY QUANTITY

Segment group: 15	Level: 3
EDIFACT status: mandatory if segment group 15 is used	Benteler status: mandatory
Maximum use: 1 segment group 15	Benteler occurrences: 1 segment group 15
Function: A segment to specify pertinent quantities not related to schedule(s) e.g. cumulative quantity, last quantity considered.	

Example QTY+48:99999:C62'
A B C

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C186	Quantity details	M		M		
A	6063	Quantity qualifier	M	an..3	M	an..3	'48' - Last received quantity Quantity received as of the SID in the following RFF segment 'C62' - pieces
B	6060	Quantity	M	n..15	M	n..15	
C	6411	Measure unit qualifier	C	an..3	M	an..3	

Comments:

Code Values:

0570 - Segment group 16 RFF-DTM

Segment group: 16
EDIFACT status: conditional
Maximum use: 10 per segment group 15
Level: 4
Benteler status: conditional
Benteler occurrences: 1 per segment group 15

Function: A group of segments giving references related to the quantity and where necessary, their date.

Benteler usage: see segment description

0580 - RFF REFERENCE

Segment group: 16
EDIFACT status: mandatory if segment group 16 is used
Maximum use: 1 per segment group 16
Function: A segment for identifying reference to the quantity, e.g. despatch advice number.
Level: 4
Benteler status: mandatory
Benteler occurrences: 1 per segment group 16

Example RFF+SI:9634'
A B

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C506	REFERENCE	M		M		
A	1153	Reference qualifier	M	an..3	M	an..3	'SI' - shipper identification number
B	1154	Reference number	C	an..35	M	an..35	Shipper identification number of last shipment received
	1156	Line number	C	an..6	O	an..6	
	4000	Reference version number	C	an..35			

Comments:

Code Values:

0590 - DTM DATE/TIME/PERIOD

Segment group: 16
EDIFACT status: conditional
Maximum use: 1 per segment group 16
Function: Date/time/period of the reference.

Level: 4
Benteler status: conditional
Benteler occurrences: 1 per segment group 16

Example DTM+50:20051212:102'
A B C

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C507	Date/time/period	M		M		
A	2005	Date/time/period qualfiier	M	an..3	M	an..3	'50' - Goods receipt date
B	2380	Date/time/period	C	an..35	M	an..35	Date the material was received
C	2379	Date/time/period format qualfiier	C	an..3	M	an..3	'102' - CCYYMMDD

Comments:

Code Values:

REQUIREMENT INFORMATION

SG17.SCC - SG18.QTY - SG18.DTM

0600 - Segment group 17 SCC-SG18

Segment group: 17	Level: 3
EDIFACT status: conditional	Benteler status: mandatory
Maximum use: 999 per segment group 12	Benteler occurrences: 999 per segment group 12

Function: A group of segments specifying the schedule information for the product identified in the LIN segment. With the delivery point driven method this segment group provides the schedule for the identified delivery point and product. With the product driven method this segment group can be used to summarise all schedules provided with the subsequent delivery point information given in segment group 22.

Benteler usage: see segment description

0610 - SCC SCHEDULING CONDITIONS

Segment group: 17	Level: 3
EDIFACT status: mandatory if segment group 17 is used	Benteler status: mandatory
Maximum use: 1 per segment group 17	Benteler occurrences: 1 per segment group 17

Function: A segment specifying the status of the schedule. Optionally a delivery pattern can be established, e.g. firm or proposed delivery pattern.

Example SCC+4++W'
A B

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
A	4017	Deliver plan status indicator, coded	M	an..3	M	an..3	'4' - Planning quantity
	4493	Delivery requirements	C	an..3			
B	C329	<i>Pattern description</i>	C		M		For code value see list below.
	2013	Frequency, coded	C	an..3	M	an..3	
	2015	Despatch pattern, coded	C	an..3			
	2017	Despatch pattern timing, coded	C	an..3			

Comments:

Code Values: 4017 Deliver plan status indicator, coded

1	Firm
4	Planning/Forecast
10	Immediate (Backorder)

2013 Frequency, coded

D	Daily
W	Weekly
M	Monthly

0600 - Segment group 18 QTY-DTM-SG19

Segment group: 18
EDIFACT status: conditional
Maximum use: 999 per segment group 17
Level: 3
Benteler status: mandatory
Benteler occurrences: 999 per segment group 17

Function: A group of segments specifying product quantities and associated dates.

Benteler usage: see segment description

0630 - QTY QUANTITY

Segment group: 18
EDIFACT status: mandatory if segment group 18 is used
Maximum use: 1 segment group 18
Function: A segment to specify scheduled quantities which may be related to schedule(s) and, or pattern established in the following DTM segment, e.g. delivery quantity for a specified date.
Level: 4
Benteler status: mandatory
Benteler occurrences: 1 segment group 18

Example QTY+1:9999:C62'
A B C

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C186	Quantity details	M		M		
A	6063	Quantity qualifier	M	an..3	M	an..3	'1' - Discrete quantity
B	6060	Quantity	M	n..15	M	n..15	Forecasted quantity for the time period defined by the preceding SCC
C	6411	Measure unit qualifier	C	an..3	M	an..3	'C62' - pieces

Comments:

Code Values:

0640 - DTM DATE/TIME/PERIOD

Segment group:	18	Level	4
EDIFACT status:	conditional	Benteler status:	mandatory
Maximum use:	2 per segment group 18	Benteler occurrences:	1 per segment group 18
Function:	A segment indicating date/time/period details relating to the given quantity.		

Example DTM+10:20051219:102'
 A **B** **C**

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
A	C507	Date/time/period	M		M		
B	2005	Date/time/period qualifier	M	an..3	M	an..3	'10' - Ship date
B	2380	Date/time/period	C	an..35	M	an..35	Monday of the period associatede with the quantity defined in the preceding QTY
C	2379	Date/time/period format qualifier	C	an..3	M	an..3	'102' - CCYYMMDD

Comments:

Code Values:

CUMULATIVE FABRICATION AUTHORIZATION

SG17.SCC - SG18.QTY - SG18.DTM

0600 - Segment group 17 SCC-SG18

Segment group: 17	Level: 3
EDIFACT status: conditional	Benteler status: optional
Maximum use: 999 per segment group 12	Benteler occurrences: 999 per segment group 12

Function: A group of segments specifying the schedule information for the product identified in the LIN segment. With the delivery point driven method this segment group provides the schedule for the identified delivery point and product. With the product driven method this segment group can be used to summarise all schedules provided with the subsequent delivery point information given in segment group 22.

Benteler usage: see segment description

0610 - SCC SCHEDULING CONDITIONS

Segment group: 17	Level: 3
EDIFACT status: mandatory if segment group 17 is used	Benteler status: mandatory
Maximum use: 1 per segment group 17	Benteler occurrences: 1 per segment group 17

Function: A segment specifying the status of the schedule. Optionally a delivery pattern can be established, e.g. firm or proposed delivery pattern.

Example SCC+2'
 A

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
A	4017	Deliver plan status indicator, coded	M	an..3	M	an..3	'2' - Commitment for manufacturing and material (fabrication authorization)
	4493	Delivery requirements	C	an..3			
	C329	<i>Pattern description</i>	C		M		
	2013	Frequency, coded	C	an..3	M	an..3	
	2015	Despatch pattern, coded	C	an..3			
	2017	Despatch pattern timing, coded	C	an..3			

Comments:

Code Values:

0600 - Segment group 18 QTY-DTM-SG19

Segment group: 18
EDIFACT status: conditional
Maximum use: 999 per segment group 17
Level: 3
Benteler status: mandatory
Benteler occurrences: 999 per segment group 17

Function: A group of segments specifying product quantities and associated dates.

Benteler usage: see segment description

0630 - QTY QUANTITY

Segment group: 18
EDIFACT status: mandatory if segment group 18 is used
Maximum use: 1 segment group 18
Function: A segment to specify scheduled quantities which may be related to schedule(s) and, or pattern established in the following DTM segment, e.g. delivery quantity for a specified date.
Level: 4
Benteler status: mandatory
Benteler occurrences: 1 segment group 18

Example QTY+3:99999:C62'
A B C

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C186	Quantity details	M		M		
A	6063	Quantity qualifier	M	an..3	M	an..3	'3' - Cumulative quantity
B	6060	Quantity	M	n..15	M	n..15	Cumulative fabrication authorization quantity for the period defined by the following DTM
C	6411	Measure unit qualifier	C	an..3	M	an..3	'C62' - pieces

Comments:

Code Values:

0640 - DTM DATE/TIME/PERIOD

Segment group:	18	Level	4
EDIFACT status:	conditional	Benteler status:	mandatory
Maximum use:	2 per segment group 18	Benteler occurrences:	1 per segment group 18
Function:	A segment indicating date/time/period details relating to the given quantity.		

Example DTM+51:20051212:102'
 A **B** **C**

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C507	Date/time/period	M		M		
A	2005	Date/time/period qualifier	M	an..3	M	an..3	'51' - Cumulative quantity date
B	2380	Date/time/period	C	an..35	M	an..35	Cumulative quantity date
C	2379	Date/time/period format qualifier	C	an..3	M	an..3	'102' - CCYYMMDD

Comments:

Code Values:

CUMULATIVE MATERIAL AUTHORIZATION

SG17.SCC - SG18.QTY - SG18.DTM

0600 - Segment group 17 SCC-SG18

Segment group: 17	Level: 3
EDIFACT status: conditional	Benteler status: optional
Maximum use: 999 per segment group 12	Benteler occurrences: 999 per segment group 12

Function: A group of segments specifying the schedule information for the product identified in the LIN segment. With the delivery point driven method this segment group provides the schedule for the identified delivery point and product. With the product driven method this segment group can be used to summarise all schedules provided with the subsequent delivery point information given in segment group 22.

Benteler usage: see segment description

0610 - SCC SCHEDULING CONDITIONS

Segment group: 17	Level: 3
EDIFACT status: mandatory if segment group 17 is used	Benteler status: mandatory
Maximum use: 1 per segment group 17	Benteler occurrences: 1 per segment group 17

Function: A segment specifying the status of the schedule. Optionally a delivery pattern can be established, e.g. firm or proposed delivery pattern.

Example SCC+3'
 A

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
A	4017	Deliver plan status indicator, coded	M	an..3	M	an..3	'3' - Cumulative quantity
	4493	Delivery requirements	C	an..3			
	C329	<i>Pattern description</i>	C		M		
	2013	Frequency, coded	C	an..3	M	an..3	
	2015	Despatch pattern, coded	C	an..3			
	2017	Despatch pattern timing, coded	C	an..3			

Comments:

Code Values:

0600 - Segment group 18 QTY-DTM-SG19

Segment group: 18 **Level:** 3
EDIFACT status: conditional **Benteler status:** mandatory
Maximum use: 999 per segment group 17 **Benteler occurrences:** 999 per segment group 17

Function: A group of segments specifying product quantities and associated dates.

Benteler usage: see segment description

0630 - QTY QUANTITY

Segment group: 18 **Level:** 4
EDIFACT status: mandatory if segment group 18 is used **Benteler status:** mandatory
Maximum use: 1 segment group 18 **Benteler occurrences:** 1 segment group 18
Function: A segment to specify scheduled quantities which may be related to schedule(s) and, or pattern established in the following DTM segment, e.g. delivery quantity for a specified date.

Example QTY+3:99999:C62'
A B C

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C186	Quantity details	M		M		
A	6063	Quantity qualifier	M	an..3	M	an..3	'3' - Cumulative quantity
B	6060	Quantity	M	n..15	M	n..15	Cumulative fabrication authorization quantity for the period defined by the following DTM
C	6411	Measure unit qualifier	C	an..3	M	an..3	'C62' - pieces

Comments:

Code Values:

0640 - DTM DATE/TIME/PERIOD

Segment group:	18	Level	4
EDIFACT status:	conditional	Benteler status:	mandatory
Maximum use:	2 per segment group 18	Benteler occurrences:	1 per segment group 18
Function:	A segment indicating date/time/period details relating to the given quantity.		

Example DTM+51:20051212:102'
A B C

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	ST	FT	REMARKS
	C507	Date/time/period	M		M		
A	2005	Date/time/period qualifier	M	an..3	M	an..3	'51' - Cumulative quantity date
B	2380	Date/time/period	C	an..35	M	an..35	Cumulative quantity date
C	2379	Date/time/period format qualifier	C	an..3	M	an..3	'102' - CCYYMMDD

Comments:

Code Values:

1030 - UNT MESSAGE TRAILER

Segment group:	none	Level:	0
EDIFACT status:	mandatory	Benteler status:	mandatory
Maximum use:	1 per message	Benteler 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.		

Example UNT+25+2'
 A B

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	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	unique message control number

Comments:

Code Values:

1040 - UNZ INTERCHANGE TRAILER

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

Example UNZ+1+23451'
A B

EDIFACT STANDARD DEFINITION					BENTELER IMPLEMENTATION		
RE	TAG	NAME	ST	FT	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	unique interchange control number

Comments:

Code Values:

EXAMPLE OF MESSAGE

```

UNB+UNOC:3+SENDER:ZZ+RECEIVER:ZZ+070710:0945+23451'
UNH+1+DELFOR:D:97A:UN'
BGM+241:::PS+0123456789+9'
DTM+137:200707061332:203'
NAD+SU+H/403380:::92'
GIS+37'
NAD+ST+0013:::92'
LIN+++MATNR123456:IN'
PIA+1+A:EC'
RFF+ON:65008982:00010'
RFF+AAN:23'
QTY+70:99999:C62'
DTM+51:20051212:102'
QTY+48:99999:C62'
RFF+SI:9634'
DTM+50:20051212:102'
SCC+4++W'
QTY+1:9999:C62'
DTM+10:20051219:102'
QTY+1:9999:C62'
DTM+10:20051226:102'
SCC+2'
QTY+3:99999:C62'
DTM+51:20051231:102'
SCC+3'
QTY+3:99999:C62'
DTM+51:20051231:102'
UNT+26+2'
UNZ+1+23451'

```