

Sonepar Suomi Oy Purchase Order Response Message Implementation Guide (Draft v0.2.2)

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Document history

Date	Version	Responsible	Description
09.11.2018	0.1	N. Genz & A. Blok	Initial draft
21.11.2018	0.2	K. Nurmi & T. Puikkonen	Review & updates with SLO, ready for piloting
28.12.2018	0.2.1.	K. Nurmi & T. Puikkonen	Line splitting
3.4.2019	0.2.2.	K. Nurmi	PRI added

General

SLO purchase order response message interface is a subset of Edifact D.17A ORDRSP standard. Edifact envelope is used for interchanges.

One order response message can be used to confirm only one SLO Order. Supplier must not confirm multiple orders via one order response EDI message.

Notation

For readability all segments, components and elements that are not used or do not have effect on message structure are omitted. For complete reference of the message format see <http://www.unece.org/cefact/edifact/welcome.html>

Each used segment is represented according to this example:

Segment	Grp	Name	Pres	Occ	Description
DTM	-	Date/time/period	M	1..35	To indicate the type and function of a message and to transmit the identifying number.
Identifier		Name	Pres	Type	Description
C507		DATE/TIME/PERIOD	M	-	
2005		Date/time/period qualifier	M	an1..3	137 = Document/message date/time
2380		Date/time/period	C	an1..35	Message date (CCYMMDD)
2379		Date/time/period format qualifier	C	an1..3	102 = CCYMMDD

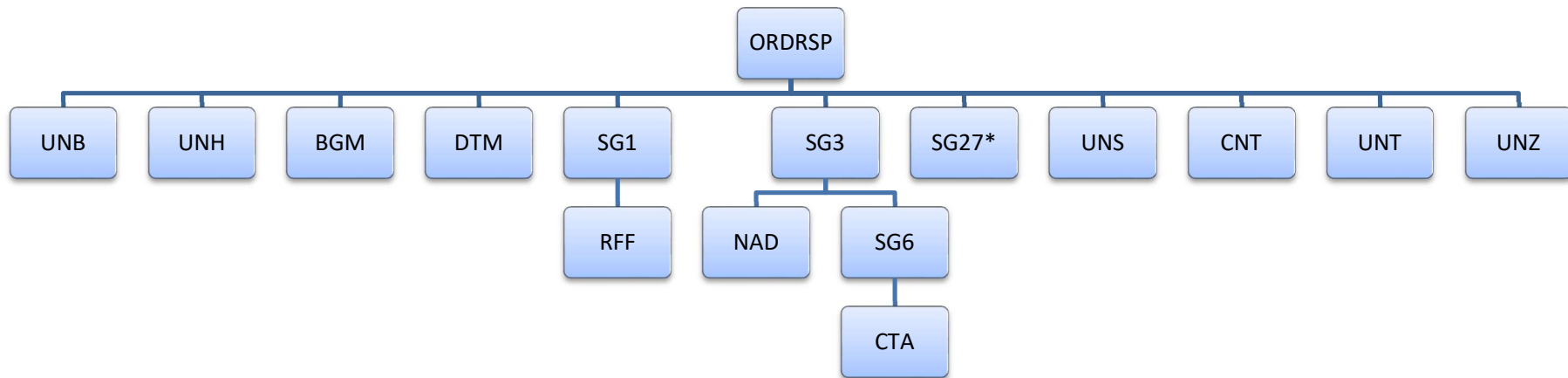
Segment	Edifact identifier of segment
Grp	Owner group if any
Name	Name of the item according to the Edifact standard
Pres	Presence. C = conditional, M = mandatory
Occ	Min occurs..max occurs, 1 means exactly on occurrence
Description	Free form description of the item
Identifier	Edifact identifier of a component or element.
Type	Data description specified in Edifact standard (n = numeric, a = alpha, an = alphanumeric)

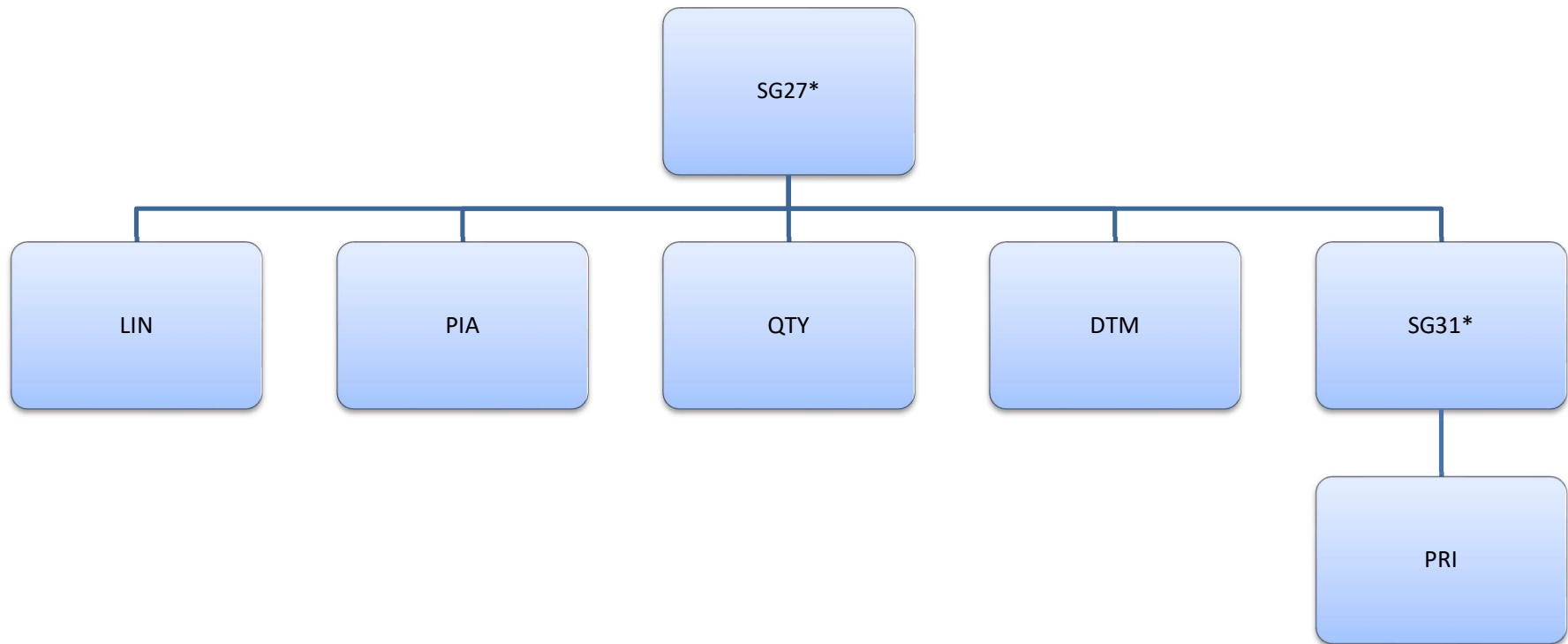
Each used group is presented according to this example:

Grp	Name	Pres	Occ	Content
-	Name and address	C	0..99	NAD-LOC-SG3-SG4
Description				
A group of segments identifying the parties with associated information.				

Grp Owner group if any
 Name Name of the group
 Pres Presence. C = conditional, M = mandatory
 Occ Min occurs..max occurs, 1 means exactly one occurrence
 Content Groups and segments owned by the group
 Description Free form description of the group

Message structure





Detailed message structure

UNB - Interchange Header

Segment	Grp	Name	Pres	Occ	Description
UNB	-	Interchange Header	M	1	The segment starts, identifies and specifies an interchange
Identifier		Name	Pres	Type	Description
S001		SYNTAX IDENTIFIER	M		
0001		Syntax identifier	M	-	UNOC
0002		Syntax version number	M	a1..1	Version number of the syntax.
S002		INTERCHANGE SENDER	M		
0004		Interchange sender identification	M	an1..35	
0007		Identification code qualifier	C	an1..4	Qualifier referring to the identification code.
0008		Interchange sender internal identification	C	an1..35	
S003		INTERCHANGE RECIPIENT	M		
0010		Interchange recipient identification	M	an1..35	
0007		Identification code qualifier	C	an1..4	Qualifier referring to the identification code.
0014		Interchange recipient internal identification	C	an1..35	
S004		DATE AND TIME OF PREPARATION	M		
0017		Date	M	n8..8	Format: YYYYMMDD
0019		Time	M	n4..4	Format: HHMM
0020		INTERCHANGE CONTROL REFERENCE	M	an1..14	
S005		RECIPIENT REFERENCE/PASSWORD DETAILS	C		
0022		Recipient reference/password	M	an1..14	
0025		Recipient reference/password qualifier	C	an2..2	Qualifier for the recipient's reference or password.
0026		APPLICATION REFERENCE	C	an1..14	
0029		PROCESSING PRIORITY CODE	C	a1..1	Code determined by the sender requesting processing priority for the interchange.
0031		ACKNOWLEDGEMENT REQUEST	C	n1..1	Code requesting acknowledgement for the interchange.
0032		INTERCHANGE AGREEMENT IDENTIFIER	C	an1..35	
0035		TEST INDICATOR	C	n1..1	Indication that the structural level containing the test indicator is a test.

Example:

UNB++0004+0010+0017:0019'

UNH - Message Header

Segment	Grp	Name	Pres	Occ	Description
UNH	-	Message Header	M	1	A service segment starting and uniquely identifying a message
Identifier	Name	Pres	Type	Description	
0062	MESSAGE REFERENCE NUMBER	M	an1..14	Identifier identifying message uniquely inside the interchange	
S009	MESSAGE IDENTIFIER	M	-		
0065	Message type	M	an1..6	Constant value ORDRSP	
0052	Message version number	M	an1..3	Constant value D	
0054	Message release number	M	an1..3	Constant value 17A	
0051	Controlling agency, coded	M	an1..3	Constant value UN	
0057	Association assigned code	C	an1..6		
0068	COMMON ACCESS REFERENCE	C	an1..35		
S010	STATUS OF THE TRANSFER	C			
0070	Sequence of transfers	M	n1..2		
0073	First and last transfer	C	a1..1		

Example:

UNH+15751183+ORDRSP:D:17A:UN+:'

BGM - Beginning of message

Segment	Grp	Name	Pres	Occ	Description
BGM	-	Message Header	M	1	A service segment starting and uniquely identifying a message
Identifier		Name	Pres	Type	Description
C002		DOCUMENT/MESSAGE NAME	C		
1001		Document name code	C	an1..3	231= <i>Purchase Order Response</i>
1131		Code list identification code	C	an1..17	
3055		Code list responsible agency code	C	an1..3	
1000		Document name	C	an1..35	
C106		DOCUMENT/MESSAGE IDENTIFICATION	C		
1004		Document identifier	C	an1..70	Order response document number
1225		MESSAGE FUNCTION CODE	C	an1..3	4=Change. 27=Not accepted 29=Accepted without amendments
4343		RESPONSE TYPE CODE	C	an1..3	

Example:

BGM+231+56230923+4'

DTM - Date/time/period

Segment	Grp	Name	Pres	Occ	Description
DTM	-	Date/time/period	M	1..35	To specify date, and/or time, or period.
Identifier		Name	Pres	Type	Description
C507		DATE/TIME/PERIOD	M	-	
2005		Date or time or period function code qualifier	M	an1..3	Code qualifying the function of a date, time or period. <i>69 = Delivery date/time, promised before (2139) Date and optionally time by which the merchandise should be delivered to the buyer, as agreed between the seller and the buyer (generic term).</i> <i>2 Delivery date/time, requested (2105) Date on which buyer requests goods to be delivered.</i> <i>4 Order document issue date time [2011] Date of order.</i>
2380		Date or time or period text	C	an1..35	
2379		Date or time or period format code	C	an1..3	Code specifying the representation of a date, time or period. <i>102 = CCYYMMDD</i> Calendar date: C = Century; Y = Year; M = Month; D = Day

Example:

DTM+69:20181001:102'

DTM+2:20181001:102'

DTM+4:20181001:102'

SG1 – RFF-DTM

Grp	Name	Pres	Occ	Content
1	RFF-DTM	C	0..9999	RFF-DTM
Description				
A group of segments for giving references and where necessary, their dates, relating to the whole message e.g. contract number, import/export license number, reservation number.				

RFF – Message reference

Segment	Grp	Name	Pres	Occ	Description
RFF	1	Reference	M	1	To specify a reference.
Identifier	Name		Pres	Type	Description
C506	Reference qualifier		M	-	
1153	Reference code qualifier		M	an1..3	<i>VN = Vendor order no.</i> Reference number assigned by supplier to a buyer's purchase order. <i>ON = Order document identifier, buyer assigned</i> [1022] Identifier assigned by the buyer to an order.
1154	Reference identifier		C	an1..70	Reference id
1156	Document line identifier		C	an1..6	
1056	Version identifier		C	an1..9	

Example:

RFF+ON:450000001'

SG3 – NAD-LOC-FII-SG4-SG5-SG6

Grp	Name	Pres	Occ	Content
-	NAD-LOC-FII-SG4-SG5-SG6	C	0..99	NAD-LOC-FII-SG4-SG5-SG6
Description				
A group of segments identifying the parties with associated information.				

NAD - Name and address

Segment	Grp	Name	Pres	Occ	Description
NAD	3	Name and address	M	1	To specify the name/address and their related function, either by C082 only and/or unstructured by C058 or structured by C080 thru 3207.
Identifier		Name	Pres	Type	Description
3035		PARTY FUNCTION CODE QUALIFIER	M	an1..3	<i>BY = Buyer</i> <i>SE = Seller</i> <i>DP = Delivery Point</i> <i>IV = Invoicee</i>
C082		PARTY IDENTIFICATION DETAILS	M	-	
3039		Party identifier	M	an1..35	Party id
1131		Code list identification code	C	an1..17	<i>100 = Enhanced party identification (preferred)</i> <i>167 = List of taxing authority</i>
3055		Code list responsible agency code	C	an1..3	Code specifying the agency responsible for a code list.
C058		NAME AND ADDRESS	C	-	
3124		Name and address description	M	an1..35	Name and address line
3124		Name and address description	C	an1..35	Name and address line
3124		Name and address description	C	an1..35	Name and address line
3124		Name and address description	C	an1..35	Name and address line
3124		Name and address description	C	an1..35	Name and address line
C080		PARTY NAME	M	-	
3036		Party name	M	an1..70	Party name
3036		Party name	C	an1..70	Party name2
3036		Party name	C	an1..70	Party name
3036		Party name	C	an1..70	Party name
3036		Party name	C	an1..70	Party name
3045		Party name format code	C	an1..3	Code specifying the representation of a party name.
C059		STREET	C	-	
3042		Street and number or post office box identifier	M	an1..256	Street address
3042		Street and number or post office box identifier	C	an1..256	Street address2
3042		Street and number or post office box identifier	C	an1..256	Address data
3042		Street and number or post office box identifier	C	an1..256	Address data
3164		CITY NAME	C	an1..35	
C819		COUNTRY SUBDIVISION DETAILS	C	-	
3229		Country subdivision identifier	C	an1..9	
3251		POSTAL IDENTIFICATION CODE	C	an1..17	
3207		COUNTRY IDENTIFIER	C	an1..3	

Example:

NAD+BY+12345:100+Example address 1:Example address 2+Examply party 1:Example party 2+Example street 1:Example street 2+Example city'

SG6 – CTA-COM

Grp	Name	Pres	Occ	Content
3	CTA-COM	C	0..5	CTA-COM
Description				
A group of segments giving contact details of the specific person or department within the party identified in the NAD segment.				

CTA – Contact information

Segment	Grp	Name	Pres	Occ	Description
CTA	6	Contact information	M	1	A segment to identify a person or department, and their function, to whom communications should be directed.
Identifier		Name	Pres	Type	Description
3139		CONTACT FUNCTION CODE	C	an1..3	<i>OC = Order contact</i> An individual to contact for questions regarding this order
C056		CONTACT DETAILS	C	-	
3413		Contact identifier	C	an1..17	Department or employee ID
3412		Contact name	C	an1..256	Contact person at vendor

Example:

CR+OC+4444:OC'

SG27 – Lines

Grp	Name	Pres	Occ	Content
	Lines	C	0..200000	LIN-PIA-IMD-MEA-QTY-PCD-ALI-DTM-MOA-GEI-GIN-GIR-QVR-DOC-PAI-MTD-FTX-SG28-SG29-SG30-SG31-SG32-SG33-SG36-SG38-SG39-SG44-SG50-SG52-SG53-SG54-SG56-SG57-SG59
Description				
A group of segments providing details of the individual ordered items. This segment group may be repeated to give sub-line details.				

LIN – Line Item

Segment	Grp	Name	Pres	Occ	Description
LIN	27	LINE ITEM	M	1	A segment identifying the line item by the line number and configuration level, and additionally, identifying the product or service ordered. Other product identification numbers e.g. Buyer product number, etc. can be specified within the following PIA segment.
Identifier	Name		Pres	Type	Description
1082	LINE ITEM NUMBER		M	an1..6	Line item number
1229	ACTION CODE		C	an1..3	3 = <i>Changed</i> 5 = <i>Accepted without amendment</i> 6 = <i>Accepted with amendment</i>
C212	ITEM NUMBER IDENTIFICATION		C	-	
7140	Item identifier		C	an1..35	A number allocated to a group or item. EAN code.
7143	Item type identification code		C	an1..3	Coded identification of an item type.
1131	Code list identification code		C	an1..17	
3055	Code list responsible agency code		C	an1..3	
C829	SUB-LINE INFORMATION		C		
5495	Sub-line indicator code		C	an1..3	
1222	CONFIGURATION LEVEL NUMBER		C	n1..2	
7083	CONFIGURATION OPERATION CODE		C	an1..3	

Additional Information split order lines: see definition of PIA

PIA – Additional Product ID

Segment	Grp	Name	Pres	Occ	Description
PIA	27	ADDITIONAL PRODUCT ID	C	0..25	A segment providing either additional identification to the product specified in the LIN segment (e.g. Harmonized System number), or provides any substitute product identification.
Identifier	Name		Pres	Type	Description
4347	PRODUCT IDENTIFIER CODE QUALIFIER		M	an1..3	Code qualifying the product identifier. <i>5 = Product identification</i> The item number is for product identification.
C212	ITEM NUMBER IDENTIFICATION		M	-	
7140	Item number		C	an1..35	Buyer's/suppliers part no.
7143	Item number type, coded		M	an1..3	<i>BP = Buyer's part number</i> Reference number assigned by the buyer's ERP to identify an article.
1131	Code list identification code		C	an1..17	
3055	Code list responsible agency code		C	an1..3	
C212	ITEM NUMBER IDENTIFICATION		C		
7140	Item number		C	an1..35	Supplier's article no.
7143	Item number type, coded		C	an1..3	<i>SA = Supplier's article number</i> Number assigned to an article by the supplier of that article
1131	Code list identification code		C	an1..17	
3055	Code list responsible agency code		C	an1..3	
C212	ITEM NUMBER IDENTIFICATION		C		
7140	Item number		C	an1..35	STTK's article no.
7143	Item number type, coded		C	an1..3	<i>ZZ3 = Electrical number by STTK.</i> (Finnish Electrotechnical Trade Association)
1131	Code list identification code		C	an1..17	
3055	Code list responsible agency code		C	an1..3	
C212	ITEM NUMBER IDENTIFICATION		C		
7140	Item number		C	an1..35	Buyer's line number in original ORDER
7143	Item number type, coded		C	an1..3	<i>PL = Purchaser's order line number</i> Reference number identifying a line entry in a customer's order for goods or services.
1131	Code list identification code		C	an1..17	
3055	Code list responsible agency code		C	an1..3	
C212	ITEM NUMBER IDENTIFICATION		C		
7140	Item number		C	an1..35	
7143	Item number type, coded		C	an1..3	
1131	Code list identification code		C	an1..17	
3055	Code list responsible agency code		C	an1..3	

NOTE:

It is possible for the supplier to split quantity for separate delivery dates. One condition is to include the *original line number* of the purchase order on the response lines, which can be included in PIA C212:7140 including qualifier PL in 7143. SLO can therefore make use of multiple delivery dates based on the original order line, so that one order line can be split into several delivery dates *if necessary*.

The example below demonstrates a possible scenario.

Example:

Original ORDER message:

```
LIN+10'  
PIA+5+2113526:BP'  
QTY+21:2.0:PCE'  
LIN+20'  
PIA+5+2113333:BP'  
QTY+21:1.0:PCE'
```

ORDRSP message, including quantity split based on separating delivery dates:

```
LIN+1'  
PIA+5+2113526:BP+++10:PL'  
QTY+113:1.0:PCE'  
DTM+69:20181108:102'  
LIN+2'  
PIA+5+2113526:BP+++10:PL'  
QTY+113:1.0:PCE'  
DTM+69:20181218:102'  
LIN+3'  
PIA+5+2113333:BP+++20:PL'  
QTY+113:1.0:PCE'  
DTM+69:20181208:102'
```

QTY - Quantity

Segment	Grp	Name	Pres	Occ	Description
QTY	27	QUANTITY	C	0..99	A segment identifying the product quantities e.g. ordered quantity.
Identifier	Name		Pres	Type	Description
C186	QUANTITY DETAILS		M	-	
6063	Quantity type code qualifier		M	an1..3	<i>21 = Ordered Quantity</i> [6024] The quantity which has been ordered. <i>113 = Quantity to be delivered</i> The quantity to be delivered.
6060	Quantity		M	an1..35	Numeric value of a quantity
6411	Measurement unit code		C	an1..8	

Example:

QTY+113:100.000:PCE'

DTM - Date/time/period

Segment	Grp	Name	Pres	Occ	Description
DTM	27	Date/time/period	C	0..35	A segment specifying date/time/period details relating to the line item only.
Identifier		Name	Pres	Type	Description
C507		DATE/TIME/PERIOD	M	-	
2005		Date or time or period function code qualifier	M	an1..3	<i>69 = Delivery date time, promised before</i> [2139] Date and optionally time by which the merchandise should be delivered to the buyer, as agreed between the seller and the buyer (generic term)
2380		Date or time or period text	C	an1..35	Date
2379		Date or time or period format code	C	an1..3	<i>102 = CCYYMMDD</i> Calendar date: C = Century; Y = Year; M = Month; D = Day.

Example:

DTM+69:20181018:102'

SG31 – PRI-CUX-APR-RNG-DTM

Grp	Name	Pres	Occ	Content
31	PRI-CUX-APR-RNG-DTM	C	0.. 25	PRI-CUX-APR-RNG-DTM
Description				
A group of segments identifying the relevant pricing information for the goods or services ordered.				

PRI – Price details

Segment	Grp	Name	Pres	Occ	Description
PRI	31	Price details	M	1	A segment to specify the price type and amount. The price used in the calculation of the line amount will be identified as 'price'
Identifier	Name		Pres	Type	Description
C509	PRICE INFORMATION		C	-	
5125	Price code qualifier		M	an1..3	AAA = Calculation net. The price stated is the net price including allowances/ charges. Allowances/charges may be stated for information only.
5118	Price amount		C	n1..15	Price with two decimals
5375	Price type code		C	an1..3	
5387	Price specification code		C	an1..3	
5284	Unit price basis quantity		C	n1..9	Sent as integer value
6411	Measurement unit code		C	an1..8	
5213	SUB-LINE ITEM PRICE CHANGE OPERATION CODE		C	an1..3	

Example:

PRI+AAA:99.95:::12:+'

UNS – Section Control

Segment	Grp	Name	Pres	Occ	Description
UNS	-	MESSAGE TRAILER	M	1	A service segment placed at the start of the summary section to avoid segment collision.
Identifier	Name		Pres	Type	Description
0081	SECTION IDENTIFICATION		M	a1..1	

Example:
UNS+0081'

CNT – Control total

Segment	Grp	Name	Pres	Occ	Description
CNT	-	Control total	C	0..10	A segment by which control totals may be provided by the sender for checking by the receiver.
Identifier	Name		Pres	Type	Description
C270	CONTROL		M		
6069	Control total type code qualifier		M	an1..3	<i>2 = Number of line items in message</i> Total number of line items in the message.
6066	Control total quantity		M	n1..18	
6411	Measurement unit code		C	an1..8	

Example:

CNT+2:447:!

UNT - Message Trailer

Segment	Grp	Name	Pres	Occ	Description
UNT	-	MESSAGE TRAILER	M	1	A service segment ending a message, giving the total number of segments in the message (including the UNH & UNT) and the control reference number of the message.
Identifier	Name		Pres	Type	Description
0074	NUMBER OF SEGMENTS IN A MESSAGE		M	n1..10	Number of segments in a message
0062	MESSAGE REFERENCE NUMBER		M	an1..14	The same number as 0062 in UNH

Example:
UNT+16+1'

Example of the D17A Order Response message

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