



IMPLEMENTATION GUIDELINE

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PURCHASE ORDER CHANGE MESSAGE

ooOoo

VERSION 3

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BASED ON

EDIFICE D.97A ORDCHG MESSAGE, ISSUE EDOC04

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INTRODUCTION

This guide was developed by members of the Texas Instruments EDI message development Group. It is based on the guide developed by members of the Electronics Industry through the associations representing Europe (EDIFICE), Japan (EIAJ) and the USA (EIDX). It represents and is specific to the usage as specified by Texas Instruments.

COMPARISON TO PREVIOUS ISSUE

This release includes the changes that have been made to the issue 3 of the Purchase Change Request document endorsed by the EDIFICE Plenary on 13 April 1994. The changes are as follows:

- Removal of the following segment groups/segments:
 - FTX segment
 - SG1, DTM segment
 - SG4, RFF segment
 - SG6, COM segment
 - SG7, TAX segment
 - SG9, PAT, PCD segments
 - SG10, TDT segment
 - SG12, TOD, LOC segments
 - SG13, PAC segment
 - SG14, PCI segment
 - SG19, ALC segment
 - SG21, PCD segment
 - SG22, MOA segment
 - SG24, TAX segment
 - SG26, FTX segment
 - SG31, DTM segment
 - SG32, PAC, QTY segments
 - SG34, PCI segment
 - SG36, TAX segment
 - SG41, ALC segment
 - SG42, QTY segment
 - SG43, PCD segment
 - SG44, MOA segment
 - SG46, TAX segment
 - SG51, RFF segment

- Deletion of the following code values:
 - All DTM segments, DE 2379, code 101 YYMMDD
 - SG1, RFF segment, C 506, DE 1153, code AAA Acknowledgement of order number
 - AAD Contract addendum number
 - BO Blanket order number
 - SG3, NAD segment, DE 3035, code AK Acknowledgement recipient
 - FW Freight forwarder
 - IV Invoicee
 - SE Seller
 - C 082, DE 3055, code 9 EAN, 16 DUNS
 - SG6, CTA segment, DE 3139, code SC Schedule contact
 - SG26, LIN segment, DE 1229, code 10 Not found
 - C 212, DE 7143, DI Distributors part number, EN EAN number, MF Manufacturers number, UP UPC
 - DE 3055, 9 EAN, 89 Assigned by Distributor, 90 Assigned by Manufacturer, 113 US, UCC
 - SG26, PIA segment, C 212, DE 7143, codes All except BP Buyers part number, EC Engineering change level, VP Vendors part number
 - DE 3055, 9 EAN, 89 Assigned by Distributor, 90 Assigned by Manufacturer, 113 US, UCC
 - SG26, IMD segment, DE 7077, code C Code
 - SG26, QTY segment, C 186, DE 6063, code 70 Cumulative quantity received, 73 Outstanding quantity
 - SG30, PRI segment, C 186, DE 6411, code All except PCE Piece
 - C 509, DE 5125, code AAB Calculation gross
 - C 186, DE 6411, code All except PCE Piece
 - SG31, RFF segment, C 506, DE 1153, code All except LI Line item reference number
 - SG39, DOC segment, C 002, DE 1001, code 861 Certificate of origin
 - SG52, DTM segment, C 507, DE 2005, code 10 Shipment date/time

- Change of usage
 - SG26, IMD segment, DE 7081 from O to N

- Where UN/ECE Recommendations are referenced the most commonly used codes have been identified,

- Alignment of segments and composite data elements to ensure conformance (data harmonization) across all EDIFICE Implementation Guidelines,

- Update of the REFERENCES and EXPLANATORY NOTES section to comply with the EDIFICE Standards for Documentation of Message Implementation Guidelines issue 3,

- Update of examples,

- Documentation adjustments resulting from the use of GEFEG's EdiFix Message Implementation Guidelines documentation tool,

- Correction of typographical errors.

FUNCTIONAL DEFINITION

Introduction

It is advised to read the functional definition and study the message guideline examples thoroughly before implementing any of the three messages.

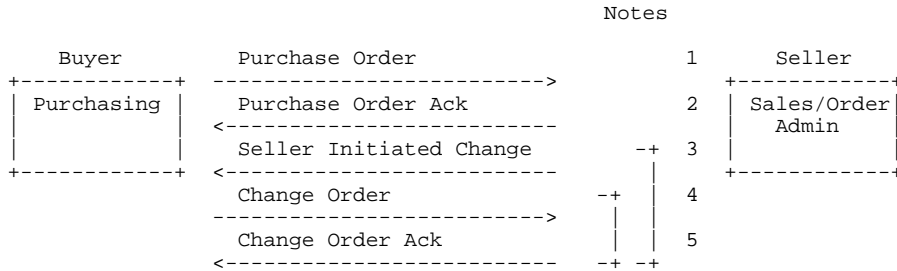
EDIFICE provides three interrelated messages for the purchase ordering process: The Purchase Order (ORDERS), the Purchase Order Change Request (ORDCHG) and the Purchase Order Response (ORDRSP). Together they are used to form a purchase order cycle.

This usage has been created with the intention of satisfying about eighty percent of the electronics industry EDI ordering requirements. It is a 'core' set of segments for the order transaction. During the development of this document it has been recognised that there are further requirements that are special to certain areas of the electronics industry. These requirements will need to be considered under a separate document.

EDI Business Architecture for the Order cycle

The traditional order cycle caters for the ordering of materials and/or services under a business or commercial agreement. It is assumed that this agreement defines all standard, basic trading terms and conditions as agreed between the two parties. As such, all three messages used in the traditional order cycle always constitute a business transaction under this agreement, to which they will refer for basic terms and conditions.

Buyer calculates requirements and places purchase orders, based upon agreed standard product and pricing info, or upon Request for Quote/Quotes.



1 Buyer generates (stand-alone) Purchase Order using ORDERS.

2 Seller responds with Order Response using ORDRSP.

3 Seller-initiated changes done via Order Response using ORDRSP.

4A Change Orders issued from buyer to convey buyer-initiated changes using ORDCHG.

4B Change Orders issued from buyer to notify seller of non-acceptance of seller-initiated changes using ORDCHG (exception process).

4C Change Orders issued from buyer to notify seller of acceptance of seller-initiated changes using ORDCHG (option)

5A Seller acknowledges Buyer-Initiated Change Orders via Order Response using ORDRSP. This ends the loop.

5B Seller acknowledges Change Orders issued by Buyer, as a result of Seller-initiated changes using ORDRSP. This ends the loop.

Order Cycle Principles

- The original Purchase Order should refer to a business or commercial agreement. Any subsequent message to the original Purchase Order should refer to the original Purchase Order. In doing so, reference to the business or commercial agreement for the business transaction is given indirectly. Therefore, no reference to the contract or quote agreement needs to be specified in Purchase Order Change Requests or Purchase Order Responses following the Purchase Order unless a Purchase Order Change Request is issued to add line items to the Purchase Order.
- If references to more than one contract/quote exist in the same order cycle, an overall agreement applicable to all contracts/quotes involved regarding payment terms, terms of delivery (i.e. data at header level) is needed between the business partners, as this information cannot be conveyed per contract/quote in the EDI message.
- It is recommended to exclude all information that could be previously agreed in a business or commercial agreement from the EDI messages.
Examples thereof are TAX, PAT, PCD, TDT, TOD and LOC. Use these segments only if the information needs to be conveyed at the time of ordering.
- One item number (Product Number) agreed to be the primary reference number between the buyer and the seller should be used to identify the item being ordered. Only if a service is ordered for which no code identification exists, may the primary reference be replaced by an item description.
- To identify the individual items being ordered (SG28), the combination of the Buyer's original Document Number (BGM DE1004) and the Buyer's original line number (RFF in SG33 DE1156) will normally be used. Any other means of identification must be agreed upon by the trading partners in the Trading Partner Agreement.
- All information related to purchased goods or services must be specified at the line item level, to avoid any ambiguity. Thus each line item can be treated as an order.
- It is strongly advised not to take minor corrective actions or changes via EDI. One of the objectives of EDI is to provide good data. Should bad data be transmitted or should a change request occur for administrative data in the Header section, then corrective action would normally take place via other means than EDI.
- The use of free text in the messages is highly discouraged.
- Business partners must agree either to send contract/quote information at header level or at line level, all through the order cycle. It is recommended to have these references at the header level for simplicity of processing.

In order to keep the interrelation between the three messages unambiguous, a couple of key definitions and basic assumptions in the information flow need to be clarified.

- If a Purchase Order has more than one line item, it has to be considered as a collection of one line item Purchase Orders being identified by the Purchase Order number and the line item number. Each line item therefore has its own life cycle.
- Each transmitted message in the order cycle must have a unique document number in BGM DE 1004.

EDIFICE recommends to keep all references to preceding messages (except for the reference to the original Purchase Order) at detail level in the RFF segment in SG33. Only if mutually agreed between trading partners and if these references are the same for all line items they may be given at header level in the RFF segment in SG1 and not at the detail level.

Purchase Order Change Request

The Purchase Order Change Request is issued to:

- Request a modification of a previously sent Purchase Order,
- Request a modification of previously sent Purchase Order Change Request/Requests,
- Respond to amendments as proposed in one or many previously sent Purchase Order Response/Responses by the seller,
- State acceptance to amendments as proposed in one or many previously sent Purchase Order Response/Responses by the seller.

A change may NOT be requested on:

- Following information in the Header section: Original Purchase Order number, Currency and the identification of buyer and seller. These changes may only be requested by deleting the line items of the referenced message and placing a new order. Deletion of one, many or all line items involved in a transaction is indicated in LIN, DE 1229, for each separate line item using the value '2' (deleted).
- Those data elements which identify the individual items being ordered (RFF in SG33). These changes may only be requested by deleting the referenced line item and adding a new one.
- The information which identifies the item ordered (LIN DE 7140).

A Purchase Order Change Request must always refer to the original Purchase Order at Header level. Furthermore, the last received Purchase Order Response proposing a change to a line item by the seller or the last transmitted Purchase Order Change Request requesting amendments to a line item by the buyer should be referenced at Detail level for the line item concerned (if any). Only if mutually agreed between trading partners and if these references are the same for all line items they may be given at header level in the RFF segment in SG1 and not at the detail level.

The following data must be transmitted:

- Those required to identify the individual items being ordered (RFF in SG33).
- All segments below the LIN segment, when there is a proposed change in one of them.

It is up to the trading partners to decide whether to transmit the entire detail section (including those line items which have not been changed) or only those line items which have changed.

Trading partners may by mutual agreement decide to make the sending of "scheduling conditions (SCC/QTY/DTM) as it was BEFORE the now transmitted message" optional if the information is not needed in their business relationship.

A single segment group SCC must always precede a single SG52, except when there is a request to split the previous schedule. It is recommended to send the previous schedules before the current schedules, either on a one to one basis or grouped together. This must be previously agreed by the trading partners.

It is also up to the trading partners to agree whether quantities previously ordered and received are included in the QTY segments of SG52.

Any change request on information open for change in the header section will automatically apply to the whole original purchase order.

When a line item in the Purchase Order Change Request is sent as "deleted", "not found" or "not amended" by means of the appropriate code for DE 1229 of the LIN segment, no underlying segments of the LIN need to be transmitted except for the RFF segments specifying the original Purchase Order line number and the preceding message document number (if any). If information in the underlying segment is transmitted, all relevant underlying segments must be transmitted.

Purchase Order Response

A Purchase Order Response is issued to:

- State acceptance to the conditions set out in the Purchase Order or Purchase Order Change Request/Requests as requested by the buyer.
- Propose a modification of the previously received Purchase Order
- Propose a modification of previously received Purchase Order Change Request/Requests

Any change request conveyed in an ORDRSP by the seller is to be considered as a proposal.

In case of non-acceptance by the seller, the Purchase Order Response may not propose changes to:

- The Header section except for SG19 (Allowance or charge) of the referenced message. These may only be proposed by not accepting the line items of the referenced message. Non-acceptance of one, many or all line items involved in the transaction is indicated in LIN, DE 1229 for each separate line item using the value '7' (Not accepted).
- Those data elements which identify the individual items being ordered (RFF in SG33).
- The information which identifies the item ordered (LIN DE 7140).

A Purchase Order Response must always refer to the original Purchase Order at Header level. Furthermore, the last received Purchase Order Change Request requesting amendments to a line item by the buyer should be referenced at Detail level for the line item concerned (if any). Only if mutually agreed between trading partners and if these references are the same for all line items they may be given at header level in the RFF segment in SG1 and not at the detail level.

Note that a Purchase Order Response never references the last transmitted Purchase Order Response for the line item in question. The Purchase Order Response is always sent in response to the last received message from the buyer.

The following data must be transmitted:

- That required to identify the individual items being ordered (RFF in SG33).
- All segments below the LIN segment, when there is a proposed change in one of them.

Acknowledgement, confirmation and proposed amendments may be mixed within the message using the appropriate code in LIN.

It is up to the trading partners to decide whether to transmit the entire detail section (including those line items which have not been acted upon) or only those line items which have been acted upon.

Trading partners may by mutual agreement decide to make the sending of "scheduling conditions (SCC/QTY/DTM) as it was BEFORE the now transmitted message" optional if the information is not needed in their business relationship.

A single segment group SCC must always precede a single SG52, except when there is a proposal to split the previous schedule. It is recommended to send the requested schedules before the proposed schedules, either on a one to one basis or grouped together. This must be previously agreed by the trading partners.

It is also up to the trading partners to agree whether quantities previously ordered and received are included in the QTY segments of SG52.

A proposed change to SG19 (Allowance or charge) will automatically apply to the whole purchase order.

When a line item in the Purchase Order Response is acknowledged as "no action", "accepted without amendment", "not accepted", "deleted" or "not found", by means of the appropriate code for DE 1229 of the LIN segment, no underlying segments of the referenced LIN need to be transmitted except for the RFF segments specifying the original Purchase Order line number and the preceding message from the buyer, i.e. preceding Purchase Order Change Request document number (if any). If information in the underlying segments is transmitted, all relevant underlying segments must be transmitted.

Structure of references and scheduling conditions

(for further clarification, see Example 4)

The three messages involved in the purchase order cycle interact at line item level. For example, an original Purchase Order or a Purchase Order Change Request with multiple line items may be responded to with several different Purchase Order Responses. Each one of the Responses may contain responses to one or many of the requested line items of the original Purchase Order or Purchase Order Change Request. Accordingly, a Purchase Order Change Request may contain amendments to one or many line items of a previously transmitted Purchase Order, Purchase Order Change Request or received Purchase Order Response.

Also, the line items that are being responded to in a Purchase Order Response may originate from a Purchase Order or from several Purchase Order Change Requests or from both the original Purchase Order and one or many previous Purchase Order Change Requests. The line items that are being amended in a Purchase Order Change Request may, according to the same principle, originate from several different preceding messages.

Basically, there is an interrelated mechanism in the messages which enable the interaction at line item level: the reference to the previously sent message at line item level, which automatically gives the reference to the previously communicated scheduling conditions for the line item in question.

- ORDERS
 - BGM : purchase order number
 - RFF (SG1) : contract/quote information
 - RFF (SG33) : line number
 - QTY (SG54) : ordered quantity
 - DTM (SG54) : requested delivery/shipment date

- ORDRSP
 - BGM : purchase order response number
 - RFF (SG1) : purchase order number
 - RFF (SG31) : line number
 - RFF (SG31) : preceding Purchase Order Change document number for this line item
 - a) QTY (SG52) : ordered quantity
 - DTM (SG52) : requested delivery/shipment date
 - b) QTY (SG52) : quantity to be delivered
 - DTM (SG52) : schedule delivery/shipment date

- ORDCHG
 - BGM : purchase order change request number
 - RFF (SG1) : purchase order number
 - RFF (SG31) : line number
 - RFF (SG31) : preceding message document number for this line item (Purchase Order Change or Purchase Order Response)
 - a) QTY (SG52) : previous order quantity
 - DTM (SG52) : superseded date
 - b) QTY (SG52) : proposed new order quantity
 - DTM (SG52) : schedule delivery/shipment date

Any subsequent Purchase Order Change or Purchase Order Response to the original order should include

- a) the scheduling conditions (QTY/DTM) as they were BEFORE the now transmitted message, if agreed by the trading partners, and
- b) the new proposed/requested scheduling conditions except where SG52 is used for positioning or where a line item is being added (see message details for further explanation).

The situation a) is always retrieved from the preceding message for the line item in question.

The preceding message for the line item is always referenced in the RFF segment in SG31.

The original Purchase Order for the line item (and for all line items in the same subsequent message) is always referenced in the RFF segment in SG1.

If no preceding message exists other than the original Purchase Order, there will be no reference in SG31 except for the line number reference. If this is the case, situation a) should be retrieved from the original Purchase Order.

For each line item, there can only be one reference to the preceding message at line item level as there can only ever be one preceding message for that line item.

Identified timing problem:

A mismatch in the referencing mechanism might appear if the buyer and the seller transmit messages involving the same line item/items at the same time. It is up to the business partners to agree on how to handle the situation if it should occur.

REFERENCES

UN/EDIFACT DIRECTORY D.97A 1996-12-10

- DRAFT RECOMMENDATION PURCHASE ORDER CHANGE MESSAGE
 - Message Type : ORDCHG
 - Version : D
 - Release : 97A
 - Controlling Agency : UN
 - Revision : 7
 - Date : 96-12-13
- DATA SEGMENTS DIRECTORY
- COMPOSITE DATA ELEMENTS DIRECTORY
- DATA ELEMENTS DIRECTORY
- CODE LISTS

ISO Standards

- ISO 9735 UN/EDIFACT - Applications level syntax rules
 - First edition 1988-07-15
 - Amended and Reprinted 1990-11-15
 - ISO 3166 Code for the Representation of Names of Countries
 - Date : 1993
 - ISO 4217 Code for the Representation of Currencies and Funds
 - Date : 1995
- See also web-site : <http://www.iso.ch>

UN/ECE Recommendations

- No 5 Alphabetic Code for Incoterms 1990
 - Date : January 1996
 - No 16 UN/LOCODE - Code for Ports and other Locations
 - Date : January 1996
 - No 19 Codes for Mode of Transport
 - Date : November 1994
 - No 20 Codes for Units of Measure used in International Trade
 - Date : August 1995
 - No 21 Codes for Types of Cargo, Packages and Packaging Material
 - Date : March 1986
- See also web-site: http://www.unece.org/trade/facil/tf_rec_h.htm

Core European Implementation Guidelines

- Introduction
 - Date : 1996-01-22
- Purchase Order Change
 - UN/EDIFACT Directory : 92.1/D.93A
 - Date : 1996-01-22

EDIFICE

- Standards for Documentation of the EDIFICE Implementation Guidelines
 - Issue : 3
 - Date : 1997-09-24
- EDIFICE Utilisation of the UN/EDIFACT Service Segments
 - Issue : 3
 - Date : 1997-09-24

EXPLANATORY NOTES

General

The following abbreviations are used within this document:

DE = Data Element
CO = Composite Data Element
SG = Segment Group

The following codes are used to indicate, in a more detailed and precise way than UN/EDIFACT, the usage of the data concerned in the EDIFICE Message Implementation Guidelines:

<u>UN/EDIFACT</u>	<u>EDIFICE</u>
M (Mandatory)	M (Mandatory)
C (Conditional)	R (Required)
C (Conditional)	D (Depending)
C (Conditional)	A (Advised)
C (Conditional)	O (Optional)
C (Conditional)	N (Not Used)

Mandatory = UN/EDIFACT dictates that the Data Element, Composite Data Element, Segment or Segment Group must be present.

Required = Indicates that the entity is required and must be sent.

Depending = Indicates that the entity must be sent if a particular defined condition or set of conditions exists. The associated conditions must be explained at the appropriate level of detail.

Advised = Indicates that the entity is advised or recommended and should be sent if previously agreed between the trading partners.

Optional = Indicates that the entity is optional and may be sent if previously agreed between the trading partners.

Not Used = Indicates that the entity is not used and should be omitted.

Where a Composite Data Element is indicated as 'Not Used', the column 'usage status' for the Data Elements will remain blank.

The number of occurrences shown in the EDIFICE Message Diagrams indicates the required or maximum number of occurrences for the entity utilisation.

The EDIFICE usage status and number of occurrences for segments or segment groups will be represented analogue to the representation of data elements e.g.:

- R3 The segment or group is required 3 times (fixed number)
- R..3 The segment or group is required up to 3 times (maximum number)

The following table indicates the number of integer and decimal digits to be used for numeric data elements when needed:

Numeric Class	Representation Digits	Integer Digits	Decimals
Dimensions	n..18	15	3
Quantities	n..15	12	3
Volumes	n..18	15	3
Weights	n..18	15	3
Unit Prices	n..15	11	4
Amounts	n..18	15	3
Currency Rates	n..12	6	6
Percentages	n..8	3	5

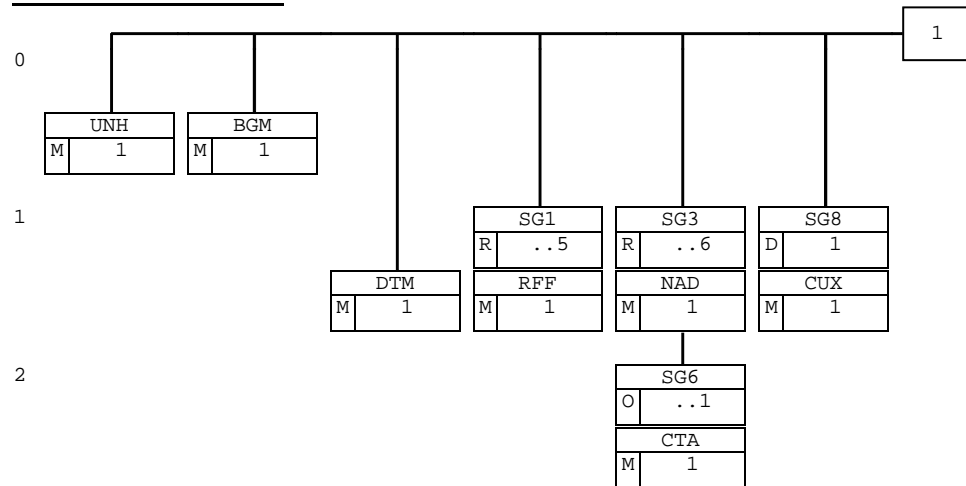
EDIFICE recommends that where there are significant decimals, these are explicitly stated using a decimal mark in a character position. Similarly the minus sign should be used to explicitly state a negative value.

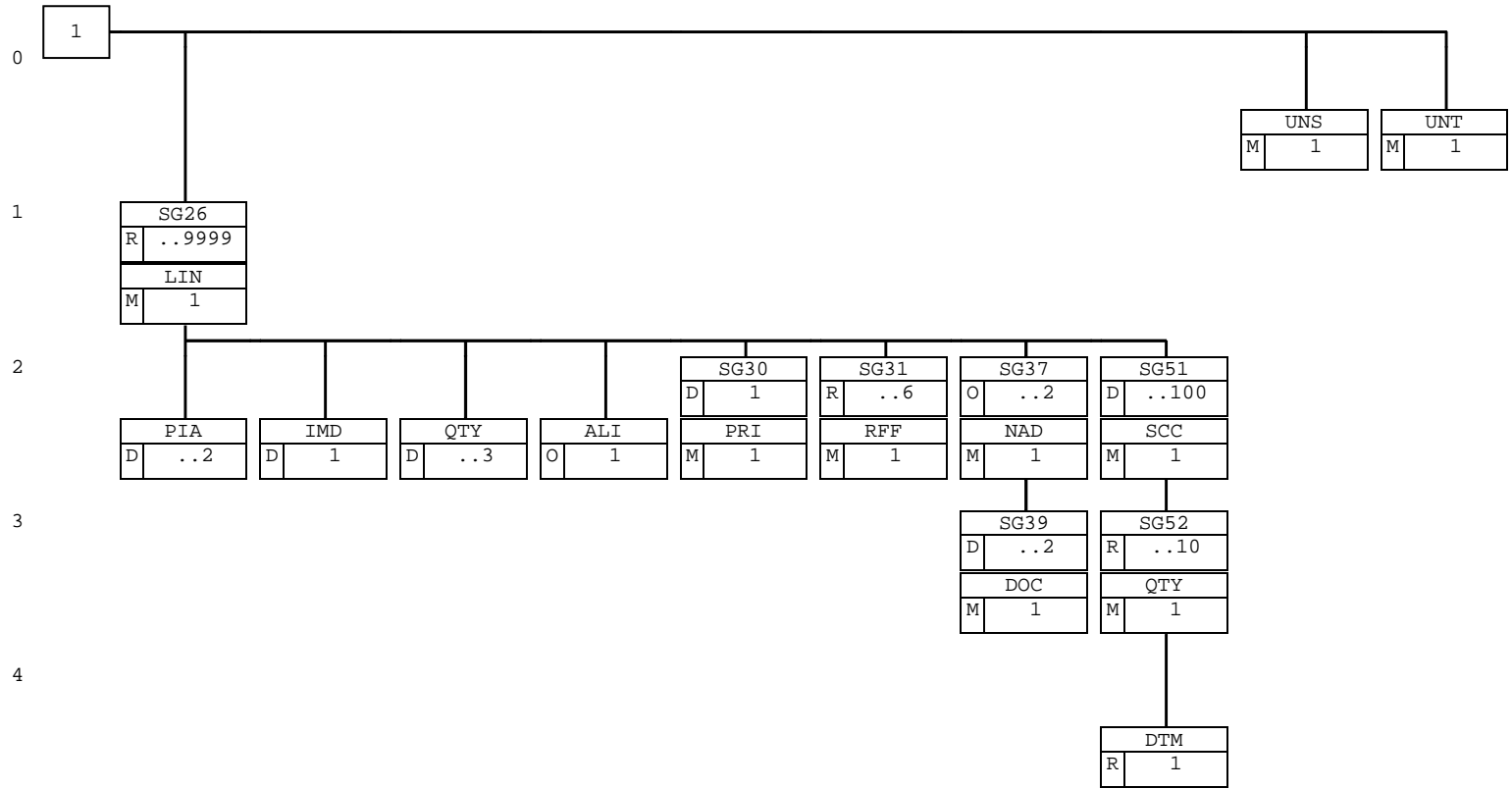
Consistent use of the date/time/period format should be adhered to throughout the entire message. EDIFICE recommends only to use the 'CCYYMMDD' format.

MESSAGE STRUCTURE CHART

UNH	MESSAGE HEADER	M1
BGM	BEGINNING OF MESSAGE	M1
DTM	DATE/TIME/PERIOD	M1
SG1		R..5
RFF	REFERENCE	M1
SG3		R..6
NAD	NAME AND ADDRESS	M1
SG6		O..1
CTA	CONTACT INFORMATION	M1
SG8		D1
CUX	CURRENCIES	M1
SG26		R..9999
LIN	LINE ITEM	M1
PIA	ADDITIONAL PRODUCT ID	D..2
IMD	ITEM DESCRIPTION	D1
QTY	QUANTITY	D..3
ALI	ADDITIONAL INFORMATION	O1
SG30		D1
PRI	PRICE DETAILS	M1
SG31		R..6
RFF	REFERENCE	M1
SG37		O..2
NAD	NAME AND ADDRESS	M1
SG39		D..2
DOC	DOCUMENT/MESSAGE DETAILS	M1
SG51		D..100
SCC	SCHEDULING CONDITIONS	M1
SG52		R..10
QTY	QUANTITY	M1
DTM	DATE/TIME/PERIOD	R1
UNS	SECTION CONTROL	M1
UNT	MESSAGE TRAILER	M1

BRANCHING DIAGRAM





SEGMENT GROUPS/SEGMENTS DESCRIPTION

UNH MESSAGE HEADER

Function: A service segment heading, and uniquely identifying the message.
Usage : M1

BGM BEGINNING OF MESSAGE

Function: A segment uniquely identifying the message by means of its coded name, number and function.
Usage : M1

DTM DATE/TIME/PERIOD

Function: A segment specifying the date of creation of the message.
Usage : M1

SG1 RFF

Function: A group of segments referencing documents and their dates, relating to the whole message.
Usage : R..5
Notes : A Purchase Order Change Request must refer to the original Purchase Order at header level.

Reference to a preceding transmitted Purchase Order Change Request or received Purchase Order Response for each line item should be given at the detail level in the RFF segment in SG31. Only if mutually agreed between trading partners and if this reference is the same for all line items may it be given here and not at detail level.

Only if the whole Purchase Order Change Request is issued to add line items to the referenced original Purchase Order, one or more RFF segments specifying contract or quote information for the added line items should be present, preferably at header level. If this is the case, then the information should not differ from that sent in the original Purchase Order message. If this information is given at detail level, it must not appear here.

The DTM segment must be sent where local law requires the date of a reference document to be sent.

RFF REFERENCE

Function: A segment specifying a document reference number.
Usage : M1

SG3 NAD-SG6

Function: A group of segments identifying the parties involved and their associated information, relevant to the whole message.
Usage : R..6
Notes : The NAD segments that identify the buyer and seller must be present and may not be different from the ones on the original Purchase Order message.

NAD NAME AND ADDRESS

Function: A segment identifying the function and coded identification, name and address of a party involved.
Usage : M1

SG6 CTA-COM

Function: A group of segments giving contact details of the specific person or department within the identified buying party involved, to whom communication should be directed.
Usage : O..1
Notes : This segment group will only be used under the NAD identifying the buyer.

CTA CONTACT INFORMATION

Function: A segment identifying a person or department, and their function.
Usage : M1

SG8 CUX

Function: A group of segments specifying the currency, valid for the whole message.
Usage : D1
Notes : The currency must be specified if prices and/or amounts are sent, and can not be different from that specified in the referenced original Purchase Order.

CUX CURRENCIES

Function: A segment specifying the order currency for all prices and/or amounts.
Usage : M1

SG26 LIN-PIA-IMD-QTY-ALI-FTX-SG30-SG31-SG37-SG41-SG51

Function: A group of segments providing details of the individual line items i.e. ordered products or services.
Usage : R..9999
Notes : When a referenced line item is sent as 'Deleted', 'Not found' or 'Not amended' by means of the appropriate code for DE 1229 of the LIN segment, no underlying segments or segment groups of the LIN need be transmitted except for the RFF segments specifying the original Purchase Order line number and a preceding message document number.
When a referenced line is added or changed, all relevant underlying segments or segment groups must be transmitted.
The PIA segment is dependent on whether the primary reference to the line item being ordered is insufficient to identify the item.
The IMD segment is used to provide an additional description of the primary reference to the line item being ordered. It may also be used for items that can not be identified by a code or article number.
The QTY segment is used if quantity information is, or needs to be, specified.
SG30 is used if a price is, or a change to a price needs to be, specified.
SG51 is used if scheduling conditions are, or need to be, specified.

LIN LINE ITEM

Function: A segment identifying a line item by its item number, and agreed to be the primary reference number between the buyer and seller.
The segment also carries a sequence number assigned to the line item within the message, and the action taken.
Usage : M1

PIA ADDITIONAL PRODUCT ID

Function: A segment providing additional identification numbers for the line item.
Usage : D..10

IMD ITEM DESCRIPTION

Function: A segment specifying an additional description for the line item
Usage : D1

QTY QUANTITY

Function: A segment specifying non-scheduled related quantity information for the line item.
Usage : D..3

ALI ADDITIONAL INFORMATION

Function: A segment indicating the country of origin for the line item
Usage : 01

SG30 PRI

Function: A group of segments specifying pricing information for the line item.
Usage : D1
Notes :

PRI PRICE DETAILS

Function: A segment specifying the line item price and the qualifying information.
Usage : M1

SG31 RFF-DTM

Function: A group of segments specifying references for the line item.
Usage : R..6
Notes : The DTM segment must be sent where local law requires the date of a reference document to be sent.

RFF REFERENCE

Function: A segment specifying the line item reference number as given by the buyer.
Usage : M1

SG37 NAD-SG39

Function: A group of segments identifying the parties involved and their associated information, for the line item.
Usage : O..2
Notes : SG39 is only used when DE 3035 in NAD = 'BY'.

NAD NAME AND ADDRESS

Function: A segment identifying either the buyer as the party requesting the certificates or the manufacturer's code, for the line item.
Usage : M1

SG39 DOC

Function: A group of segments specifying the certificates.
Usage : D..2
Notes :

DOC DOCUMENT/MESSAGE DETAILS

Function: A segment specifying a requested certificate.
Usage : M1

SG51 SCC-RFF-SG52

Function: A group of segments specifying previous and current firm scheduling conditions.
Usage : D..100
Notes : Trading partners must agree whether quantities previously ordered and received are included in the underlying QTY segments of SG52.
In any subsequent message related to the Purchase Order the original sequence of the scheduling conditions as specified on the original order, may not be disrupted. This means that the occurrences of SG51 belonging to one LIN on the original Purchase Order message or a subsequent Purchase Order Change Request message, may not be 'split' over several LIN segments (SG26) in the Purchase Order Change Request message.
A single segment group SCC must always precede a single SG52, except when there is a request to split the previous schedule. It is recommended to send the previous schedules before the current schedules, either on a one to one basis or grouped together. This must be previously agreed by the trading partners.

SCC SCHEDULING CONDITIONS

Function: A segment specifying a firm delivery.
Usage : M1

SG52 QTY-DTM

Function: A group of segments specifying the previously and currently requested delivery dates and quantities scheduled.
Usage : R..10

Notes : Where there is a change to the delivery date and/or the quantity scheduled, it is recommended that there should be at least two occurrences of SG52, used in the following way:

1) Indicating the previous schedule before the currently requested changes:
QTY: DE 6063 '18' Previous quantity
DTM: DE 2005 '42' Superseded date/time

2) Indicating the current schedule as requested by the buyer:
QTY: DE 6063 '21' Ordered quantity
DTM: DE 2005 '2' Delivery date/time, requested

In the case of a request to split the previous schedule, SG52 may be repeated as many times as needed (up to 9).

If a new schedule is requested, only combination 2) is required.

If a schedule is transmitted for positioning purposes, only combination 1) is required, HOWEVER: DE 2005 will carry either '2' or '10'.

If a schedule is requested to be deleted, it is recommended that both combination 1) and 2) are present, with QTY DE 6060 of the current schedule carrying the value zero and DTM DE 2380 carrying the previously requested schedule date.

If the original Purchase Order is the only preceding message for the line item, the "previous schedule before the currently requested changes" (combination 1) is retrieved from there. If a Purchase Order Change Request or a Purchase Order Response is the preceding message for the line item, combination 1 is retrieved from there. Reference to the original Purchase Order is found in the RFF segment in SG1. Reference to any other preceding message is found in the RFF segment in SG31.

QTY QUANTITY

Function: A segment specifying a quantity.
Usage : M1

DTM DATE/TIME/PERIOD

Function: A segment specifying the corresponding date of the quantity.
Usage : R1

UNS SECTION CONTROL

Function: A service segment separating detail and summary section.
Usage : M1

UNT MESSAGE TRAILER

Function: A service segment ending, and providing information for checking the completeness of a message.
Usage : M1

UNH MESSAGE HEADER

Function: A service segment heading, and uniquely identifying the message.

Usage : M1

Notes : Refer to EDIFICE Utilisation of the UN/EDIFACT Service Segments, Issue 3.

Ref.	Rep.	Name	EDIFICE Utilisation
0062	an..14	M MESSAGE REFERENCE NUMBER	M Transmission message count from 1
S009		M MESSAGE IDENTIFIER	M
0065	an..6	M Message type identifier	M ORDCHG
0052	an..3	M Message type version number	M D
0054	an..3	M Message type release number	M 97A
0051	an..2	M Controlling agency	M UN
0057	an..6	C Association assigned code	R EDOC04
0068	an..35	C COMMON ACCESS REFERENCE	N
S010		C STATUS OF THE TRANSFER	N
0070	n..2	M Sequence message transfer number	
0073	a1	C First/last sequence message transfer indication	

BGM BEGINNING OF MESSAGE

Function: A segment uniquely identifying the message by means of its coded name, number and function.

Usage : M1
Notes :

Ref.	Rep.	Name		EDIFICE Utilisation
C002		C DOCUMENT/MESSAGE NAME	R	
1001	an..3	C Document/message name, coded	R	230 = Purchase order change request
1131	an..3	C Code list qualifier	N	
3055	an..3	C Code list responsible agency, coded	N	
1000	an..35	C Document/message name	N	
C106		C DOCUMENT/MESSAGE IDENTIFICATION	R	
1004	an..35	C Document/message number	R	Purchase order change request number
1056	an..9	C Version	N	
1060	an..6	C Revision number	N	
1225	an..3	C MESSAGE FUNCTION, CODED	R	9 = Original 42 = Confirmation via specific means For confirmation of a Purchase Order Change Request already transmitted by other means
4343	an..3	C RESPONSE TYPE, CODED	N	

DTM DATE/TIME/PERIOD

Function: A segment specifying the date of creation of the message.

Usage : M1

Notes :

Ref.	Rep.	Name	EDIFICE Utilisation	
C507		M DATE/TIME/PERIOD	M	
2005	an..3	M Date/time/period qualifier	M	137 = Document/message date/time Date when the document is created
2380	an..35	C Date/time/period	R	Purchase order change request date
2379	an..3	C Date/time/period format qualifier	R	102 = CCYYMMDD

SGL **RFF**

RFF **REFERENCE**

Function: A segment specifying a document reference number.
Usage : M1
Notes :

Ref.	Rep.	Name		EDIFICE Utilisation
C506		M REFERENCE	M	
1153	an..3	M Reference qualifier	M	CT = Contract number GC = Government contract number ON = Order number (purchase) Reference to the original purchase order PP = Purchase order change number Reference number assigned by a buyer for a revision of a purchase order for the line item PR = Price quote number
1154	an..35	C Reference number	R	
1156	an..6	C Line number	N	
4000	an..35	C Reference version number	N	

NAD NAME AND ADDRESS

Function: A segment identifying the function and coded identification, name and address of a party involved.

Usage : M1

Notes : It is advised that the party identification CO C082 be used. When CO C082 cannot be used it is recommended to use the structured name and address CO C080 through DE 3207 rather than the unstructured one CO C058.

Ref.	Rep.	Name		EDIFICE Utilisation
3035	an..3	M PARTY QUALIFIER	M	BY = Buyer DP = Delivery party above must be sent, and it must not be different from those used in the original Purchase Order
C082		C PARTY IDENTIFICATION DETAILS	A	
3039	an..35	M Party id. identification	M	
1131	an..3	C Code list qualifier	N	
3055	an..3	C Code list responsible agency, coded	R	91 = Assigned by seller or seller's agent 92 = Assigned by buyer or buyer's agent
C058		C NAME AND ADDRESS	D	
3124	an..35	M Name and address line	M	
3124	an..35	C Name and address line	O	
3124	an..35	C Name and address line	O	
3124	an..35	C Name and address line	O	
3124	an..35	C Name and address line	O	
C080		C PARTY NAME	D	
3036	an..35	M Party name	M	
3036	an..35	C Party name	O	
3036	an..35	C Party name	O	
3036	an..35	C Party name	O	
3036	an..35	C Party name	O	
3045	an..3	C Party name format, coded	N	
C059		C STREET	D	
3042	an..35	M Street and number/p.o. box	M	
3042	an..35	C Street and number/p.o. box	O	
3042	an..35	C Street and number/p.o. box	O	
3042	an..35	C Street and number/p.o. box	O	
3164	an..35	C CITY NAME	D	
3229	an..9	C COUNTRY SUB-ENTITY IDENTIFICATION	D	
3251	an..9	C POSTCODE IDENTIFICATION	D	
3207	an..3	C COUNTRY, CODED	D	Use ISO 3166, 2 alpha code

CTA CONTACT INFORMATION

Function: A segment identifying a person or department, and their function.
Usage : M1
Notes :

Ref.	Rep.	Name		EDIFICE Utilisation
3139	an..3	C CONTACT FUNCTION, CODED	R	PD = Purchasing contact If a code is available use DE 3413, otherwise use DE 3412.
C056		C DEPARTMENT OR EMPLOYEE DETAILS	R	
3413	an..17	C Department or employee identification	D	
3412	an..35	C Department or employee	D	

SG8 CUX

CUX CURRENCIES

Function: A segment specifying the order currency for all prices and/or amounts.
 Usage : M1
 Notes :

Ref.	Rep.	Name	EDIFICE Utilisation	
C504		C CURRENCY DETAILS	R	
6347	an..3	M Currency details qualifier	M	2 = Reference currency
6345	an..3	C Currency, coded	R	Use ISO 4217, 3 alpha code
6343	an..3	C Currency qualifier	R	9 = Order currency
6348	n..4	C Currency rate base	N	
C504		C CURRENCY DETAILS	N	
6347	an..3	M Currency details qualifier		
6345	an..3	C Currency, coded		
6343	an..3	C Currency qualifier		
6348	n..4	C Currency rate base		
5402	n..12	C RATE OF EXCHANGE	N	
6341	an..3	C CURRENCY MARKET EXCHANGE, CODED	N	

LIN LINE ITEM

Function: A segment identifying a line item by its item number, and agreed to be the primary reference number between the buyer and seller.
 The segment also carries a sequence number assigned to the line item within the message, and the action taken.

Usage : M1

Notes : For a line item referring to a service which has no coded identification, the primary identification is found in segment IMD, rather than in CO C212.

Ref.	Rep.	Name		EDIFICE Utilisation
1082	an..6	C LINE ITEM NUMBER	R	It is required to assign a number to the line items within a message. The number is assigned by the sender of the message. The first line item within a message will be numbered 1 and further line items will be incremented by 1 for each new line.
1229	an..3	C ACTION REQUEST/NOTIFICATION, CODED	R	The action request code on the Purchase Order Change Request indicates the action that the buyer requests from the seller, either in response to a seller initiated change, or as a change initiated by the buyer. 1 = Added Buyer adds a line item to the original Purchase Order 2 = Deleted Buyer deletes a line item from the original Purchase Order 3 = Changed Buyer changes the line item with regard to the referenced message for the line item 11 = Not amended Used only if trading partners have agreed always to transmit the entire detail section (including those line items which have not been amended) Information about a referenced message for the line item is found in the RFF segment in SG31. If no reference to a previously sent or received message exists in SG31, the referenced message is the original Purchase Order.
C212		C ITEM NUMBER IDENTIFICATION	A	
7140	an..35	C Item number	R	Primary reference
7143	an..3	C Item number type, coded	R	BP = Buyer's part number VP = Vendor's (seller's) part number
1131	an..3	C Code list qualifier	N	
3055	an..3	C Code list responsible agency, coded	R	91 = Assigned by seller or seller's agent 92 = Assigned by buyer or buyer's agent
C829		C SUB-LINE INFORMATION	N	
5495	an..3	C Sub-line indicator, coded		
1082	an..6	C Line item number		
1222	n..2	C CONFIGURATION LEVEL	N	
7083	an..3	C CONFIGURATION, CODED	N	

PIA ADDITIONAL PRODUCT ID

Function: A segment providing additional identification numbers for the line item.
 Usage : D..2
 Notes : This segment is also used for acknowledging the item substitution as proposed in the preceding Purchase Order Response. If the substitution is accepted by the buyer, the substitution item merely replaces the previous secondary item number in the PIA segment. If not accepted, corrective action should take place via other means than EDI. The 5 internal repetitions of CO C212 may be used, but EDIFICE recommends to only use the first occurrence.

Ref.	Rep.	Name	EDIFICE Utilisation
4347	an..3	M PRODUCT ID. FUNCTION QUALIFIER	M 1 = Additional identification
C212		M ITEM NUMBER IDENTIFICATION	M
7140	an..35	C Item number	R
7143	an..3	C Item number type, coded	R
1131	an..3	C Code list qualifier	N
3055	an..3	C Code list responsible agency, coded	R
C212		C ITEM NUMBER IDENTIFICATION	O 91 = Assigned by seller or seller's agent 92 = Assigned by buyer or buyer's agent As for first CO C212
7140	an..35	C Item number	R
7143	an..3	C Item number type, coded	R
1131	an..3	C Code list qualifier	N
3055	an..3	C Code list responsible agency, coded	R
C212		C ITEM NUMBER IDENTIFICATION	O As for first CO C212
7140	an..35	C Item number	R
7143	an..3	C Item number type, coded	R
1131	an..3	C Code list qualifier	N
3055	an..3	C Code list responsible agency, coded	R
C212		C ITEM NUMBER IDENTIFICATION	O As for first CO C212
7140	an..35	C Item number	R
7143	an..3	C Item number type, coded	R
1131	an..3	C Code list qualifier	N
3055	an..3	C Code list responsible agency, coded	R
C212		C ITEM NUMBER IDENTIFICATION	O As for first CO C212
7140	an..35	C Item number	R
7143	an..3	C Item number type, coded	R
1131	an..3	C Code list qualifier	N
3055	an..3	C Code list responsible agency, coded	R

IMD ITEM DESCRIPTION

Function: A segment specifying an additional description for the line item
 Usage : D1
 Notes :

Ref.	Rep.	Name		EDIFICE Utilisation
7077	an..3	C ITEM DESCRIPTION TYPE, CODED	D	F = Free-form Use DE 7009 for a coded description. If no code is available use DE 7008 instead. Description
7081	an..3	C ITEM CHARACTERISTIC, CODED	N	
C273		C ITEM DESCRIPTION	D	
7009	an..17	C Item description identification	N	
1131	an..3	C Code list qualifier	N	
3055	an..3	C Code list responsible agency, coded	N	
7008	an..35	C Item description	D	
7008	an..35	C Item description	O	
3453	an..3	C Language, coded	N	
7383	an..3	C SURFACE/LAYER INDICATOR, CODED	N	

QTY QUANTITY

Function: A segment specifying non-scheduled related quantity information for the line item.
 Usage : D..3
 Notes : The measure unit qualifier used in DE 6411 applies to all the underlying QTY segments.

Ref.	Rep.	Name	EDIFICE Utilisation	
C186		M QUANTITY DETAILS	M	
6063	an..3	M Quantity qualifier	M	3 = Cumulative quantity This is the sum of the underlying QTY segments of SG52, which reflect the new, proposed order schedule.
6060	n..15	M Quantity	M	
6411	an..3	C Measure unit qualifier	R	PCE = piece

SG26 LIN-PIA-IMD-QTY-ALI-FTX-SG30-SG31-SG37-SG41-SG51

ALI ADDITIONAL INFORMATION

Function: A segment indicating the country of origin for the line item
Usage : 01
Notes :

Ref.	Rep.	Name		EDIFICE Utilisation
3239	an..3	C COUNTRY OF ORIGIN, CODED	R	Use ISO 3166, 2 alpha code
9213	an..3	C TYPE OF DUTY REGIME, CODED	N	
4183	an..3	C SPECIAL CONDITIONS, CODED	N	
4183	an..3	C SPECIAL CONDITIONS, CODED	N	
4183	an..3	C SPECIAL CONDITIONS, CODED	N	
4183	an..3	C SPECIAL CONDITIONS, CODED	N	
4183	an..3	C SPECIAL CONDITIONS, CODED	N	

SG30 PRI

PRI PRICE DETAILS

Function: A segment specifying the line item price and the qualifying information.
Usage : M1
Notes :

Ref.	Rep.	Name		EDIFICE Utilisation
C509		C PRICE INFORMATION	R	
5125	an..3	M Price qualifier	M	AAA = Calculation net
5118	n..15	C Price	R	
5375	an..3	C Price type, coded	R	CA = Catalogue CP = Current price Taken from code list DE 5387 CT = Contract DI = Distributor PV = Provisional price QT = Quoted
5387	an..3	C Price type qualifier	N	
5284	n..9	C Unit price basis	R	
6411	an..3	C Measure unit qualifier	R	PCE = piece
5213	an..3	C SUB-LINE PRICE CHANGE, CODED	N	

RFF REFERENCE

Function: A segment specifying the line item reference number as given by the buyer.
 Usage : M1
 Notes : Where the buyer's line item reference number is to be specified use DE 1156 qualified by code 'LI' in DE 1153.
 For all other references use DE 1154 with the relevant qualifier. If this information is given at header level it must not appear here.

If a line item is added the relevant contract and/or quote number should be specified here or at header level.

Ref.	Rep.	Name		EDIFICE Utilisation
C506		M REFERENCE	M	
1153	an..3	M Reference qualifier	M	LI = Line item reference number
1154	an..35	C Reference number	D	
1156	an..6	C Line number	D	Within an order this must be a unique number which will be the key for identification of the line item. The number is assigned by the buyer, and it can only be assigned once during the lifetime of the order. It will be used, where needed, to refer to the original line item on any subsequent transactions relating to the order.
				Note that if a line item is added to the original Purchase Order in a subsequent Purchase Order Change Request the buyer must assign the added line item a unique line number.
4000	an..35	C Reference version number	N	

NAD NAME AND ADDRESS

Function: A segment identifying either the buyer as the party requesting the certificates or the manufacturer's code, for the line item.

Usage : M1

Notes : CO C082 is only used if DE 3035 = 'MF'.

Ref.	Rep.	Name	EDIFICE Utilisation
3035	an..3	M PARTY QUALIFIER	M BY = Buyer MF = Manufacturer of goods
C082		C PARTY IDENTIFICATION DETAILS	D
3039	an..35	M Party id. identification	M Manufacturer's code
1131	an..3	C Code list qualifier	D
3055	an..3	C Code list responsible agency, coded	R To be agreed between trading partners
C058		C NAME AND ADDRESS	N
3124	an..35	M Name and address line	
3124	an..35	C Name and address line	
3124	an..35	C Name and address line	
3124	an..35	C Name and address line	
3124	an..35	C Name and address line	
C080		C PARTY NAME	N
3036	an..35	M Party name	
3036	an..35	C Party name	
3036	an..35	C Party name	
3036	an..35	C Party name	
3036	an..35	C Party name	
3045	an..3	C Party name format, coded	
C059		C STREET	N
3042	an..35	M Street and number/p.o. box	
3042	an..35	C Street and number/p.o. box	
3042	an..35	C Street and number/p.o. box	
3042	an..35	C Street and number/p.o. box	
3164	an..35	C CITY NAME	N
3229	an..9	C COUNTRY SUB-ENTITY IDENTIFICATION	N
3251	an..9	C POSTCODE IDENTIFICATION	N
3207	an..3	C COUNTRY, CODED	N

SG39 DOC

DOC DOCUMENT/MESSAGE DETAILS

Function: A segment specifying a requested certificate.
 Usage : M1
 Notes :

Ref.	Rep.	Name		EDIFICE Utilisation
C002		M DOCUMENT/MESSAGE NAME	M	
1001	an..3	C Document/message name, coded	R	2 = Certificate of conformity
1131	an..3	C Code list qualifier	N	
3055	an..3	C Code list responsible agency, coded	N	
1000	an..35	C Document/message name	N	
C503		C DOCUMENT/MESSAGE DETAILS	N	
1004	an..35	C Document/message number		
1373	an..3	C Document/message status, coded		
1366	an..35	C Document/message source		
3453	an..3	C Language, coded		
3153	an..3	C COMMUNICATION CHANNEL IDENTIFIER, CODED	N	
1220	n..2	C NUMBER OF COPIES OF DOCUMENT REQUIRED	O	
1218	n..2	C NUMBER OF ORIGINALS OF DOCUMENT REQUIRED	N	

SG51 SCC-RFF-SG52

SCC SCHEDULING CONDITIONS

Function: A segment specifying a firm delivery.
Usage : M1
Notes :

Ref.	Rep.	Name		EDIFICE Utilisation
4017	an..3	M DELIVERY PLAN STATUS INDICATOR, CODED	M	1 = Firm
4493	an..3	C DELIVERY REQUIREMENTS, CODED	N	
C329		C PATTERN DESCRIPTION	N	
2013	an..3	C Frequency, coded		
2015	an..3	C Despatch pattern, coded		
2017	an..3	C Despatch pattern timing, coded		

SG52 QTY-DTM

QTY QUANTITY

Function: A segment specifying a quantity.
Usage : M1
Notes :

Ref.	Rep.	Name		EDIFICE Utilisation
C186		M QUANTITY DETAILS	M	
6063	an..3	M Quantity qualifier	M	18 = Previous quantity 21 = Ordered quantity
6060	n..15	M Quantity	M	
6411	an..3	C Measure unit qualifier	N	

SG52 QTY-DTM

DTM DATE/TIME/PERIOD

Function: A segment specifying the corresponding date of the quantity.
 Usage : R1
 Notes :

Ref.	Rep.	Name		EDIFICE Utilisation
C507		M DATE/TIME/PERIOD	M	
2005	an..3	M Date/time/period qualifier	M	2 = Delivery date/time, requested Date on which buyer requests goods to be delivered 42 = Superseded date/time
2380	an..35	C Date/time/period	R	
2379	an..3	C Date/time/period format qualifier	R	102 = CCYYMMDD

UNS SECTION CONTROL

Function: A service segment separating detail and summary section.
Usage : M1
Notes :

Ref.	Rep.	Name	EDIFICE Utilisation
0081	a1	M SECTION IDENTIFICATION	M S = Detail/summary section separation

UNT MESSAGE TRAILER

Function: A service segment ending, and providing information for checking the completeness of a message.

Usage : M1

Notes : Refer to EDIFICE Utilisation of the UN/EDIFACT Service Segments, Issue 3.

Ref.	Rep.	Name		EDIFICE Utilisation
0074	n..6	M NUMBER OF SEGMENTS IN A MESSAGE	M	Count of all segments in the message, UNH and UNT included.
0062	an..14	M MESSAGE REFERENCE NUMBER	M	Must be the same reference number as in DE 0062 of the UNH segment of this message.

EXAMPLES

Example 1: Original Purchase Order

UNH+1+ORDERS:D:97A:UN:EDPO04'
BGM+220+PO11223+9'
DTM+137:19981014:102'
RFF+CT:9999'
NAD+BY+AABBCC::92'
CTA+PD+:RICHARD JOHNSON'
NAD+DP+FACTORYA::92'
CUX+2:USD:9'
LIN+1++ITEM222:BP::92'
PIA+1+12345:VP::91'
QTY+21:3000:PCE'
PRI+AAA:5.50:CT::1:PCE'
RFF+LI::37'
SCC+1'
QTY+21:2000'
DTM+2:19990204:102'
SCC+1'
QTY+21:1000'
DTM+2:19990304:102'
UNS+S'
UNT+22+1'

Example 2: Purchase Order Response

a) The line item is accepted with amendment:

```
UNH+1+ORDRSP:D:97A:UN:EDOR04'  
BGM+231+POR001+9'  
DTM+137:19981015:102'  
RFF+ON:PO11223'  
NAD+BY+AABBCC::92'  
CUX+2:USD:9'  
LIN+1+6+ITEM222:BP::92'  
PIA+1+12345:VP::91'  
QTY+113:3300:PCE'  
PRI+AAA:5.50:CT::1:PCE'  
RFF+LI::37'  
SCC+1'  
QTY+21:2000'  
DTM+2:19990204:102'  
QTY+113:2200'  
DTM+67:19990204:102  
SCC+1'  
QTY+21:1000'  
DTM+2:19990304:102'  
QTY+113:1100'  
DTM+67:19990304:102'  
UNS+S'  
UNT+26+1'
```

b) The line item is accepted without amendment:

```
UNH+1+ORDRSP:D:97A:UN:EDOR04'  
BGM+231+POR001+9'  
DTM+137:19981015:102'  
RFF+ON:PO11223'  
NAD+BY+AABBCC::92'  
CUX+2:USD:9'  
LIN+1+5+ITEM222:BP::92'  
RFF+LI::37'  
UNS+S'  
UNT+13+1'
```

Example 3: Purchase Order Change Request

a) Requesting a change to Purchase Order Response a), Example 2.

```
UNH+1+ORDCHG:D:97A:UN:EDOC04'  
BGM+230+POC1:9'  
DTM+137+19981020:102'  
RFF+ON:PO11223'  
NAD+BY+AABBCC::92'  
CTA+PD+:RICHARD JOHNSON'  
NAD+DP+FACTORYA::92'  
CUX+2:USD:9'  
LIN+1+3+ITEM222:BP::92'  
PIA+1+12345:VP::91'  
QTY+3:3300:PCE'  
PRI+AAA:5.50:CT::1:PCE'  
RFF+LI::37'  
RFF+AAA:POR001'  
SCC+1'  
QTY+18:2200'  
DTM+42:19990204:102'  
QTY+21:2200'  
DTM+2:19990128:102'  
SCC+1'  
QTY+18:1100'  
DTM+2:19990304:102'  
UNS+S'  
UNT+27+1'
```

b) Accepting seller-initiated changes in Purchase Order Response a), Example 2 (optional information flow).

```
UNH+1+ORDCHG:D:97A:UN:EDOC04'  
BGM+230+POC1:9'  
DTM+137+19981020:102'  
RFF+ON:PO11223'  
NAD+BY+AABBCC::92'  
CTA+PD+:RICHARD JOHNSON'  
NAD+DP+FACTORYA::92'  
CUX+2:USD:9'  
LIN+1+11+ITEM222:BP::92'  
RFF+LI::37'  
RFF+AAA:POR001'  
UNS+S'  
UNT+13+1'
```

c) Adding a line to the Original Purchase Order

```
UNH+1+ORDCHG:D:97A:UN:EDOC04'  
BGM+230+POC1:9'  
DTM+137+19981020:102'  
RFF+ON:PO11223'  
RFF+CT:9999'  
NAD+BY+AABBCC::92'  
CTA+PD+:RICHARD JOHNSON'  
NAD+DP+FACTORYA::92'  
CUX+2:USD:9'  
LIN+1+1+ITEM444:BP::92'  
PIA+1+332233:VP::91'  
QTY+3:5000:PCE'  
PRI+AAA:3.25:CT::1:PCE'  
RFF+LI::85'  
SCC+ 1'  
QTY+21:5000'  
DTM+2:19990223:102'  
UNS+S'  
UNT+22+1'
```

Example 4: References and scheduling conditions.

PLEASE NOTE THAT THIS EXAMPLE ONLY CONTAINS RELEVANT SEGMENTS TO EXPLAIN THE PRINCIPLE OF REFERENCING AND SCHEDULING.

- 1: Buyer sends ORDERS for lines 75 and 93
- 2: Seller sends ORDRSP for lines 75 and 93
- 3: Buyer sends ORDCHG for line 75
- 4: Buyer sends ORDCHG for line 93
- 5: Seller sends ORDRSP for line 93
- 6: Seller sends ORDRSP for lines 75 and 93

<p>1: BGM+220+POnumber1+9' RFF+CT:123456' LIN+1++ArticleA:VP::92' RFF+LI::75' SCC+1'</p> <p>a) QTY+21:500' a) DTM+2:19990215:102' SCC+1'</p> <p>b) QTY+21:1250' b) DTM+2:19990301:102' LIN+2++ArticleB:VP::92' RFF+LI::93' SCC+1'</p> <p>c) QTY+21:750' c) DTM+2:19990215:102' UNS+S'</p>	<p>2: BGM+231+POresponsernumber1+9' RFF+ON:POnumber1' LIN+1+6+ArticleA:VP::92' RFF+LI::75' SCC+1'</p> <p>a) QTY+21:500' a) DTM+2:19990215:102' d) QTY+113:500' d) DTM+67:19990222:102' SCC+1'</p> <p>e) QTY+113:1250' e) DTM+67:19990301:102' f) LIN+2+5+ArticleB:VP::92' RFF+LI::93' UNS+S'</p>
<p>3: BGM+230+POchangenernumber1+9' RFF+ON:POnumber1' LIN+1+3+ArticleA:VP::92' RFF+LI::75' RFF+AAA:POresponsernumber1' SCC+1'</p> <p>g) QTY+18:500' g) DTM+2:19990222:102' SCC+1'</p> <p>h) QTY+18:1250' h) DTM+42:19990301:102' i) QTY+21:1500' i) DTM+2:19990301:102' UNS+S'</p>	<p>4: BGM+230+POchangenernumber2+9' RFF+ON:POnumber1' LIN+1+3+ArticleB:VP::92' RFF+LI::93' RFF+AAA:POresponsernumber1' SCC+1'</p> <p>j) QTY+18:750' j) DTM+42:19990215:102' k) QTY+21:750' k) DTM+2:19990208:102' UNS+S'</p>
<p>5: BGM+231+POresponsernumber2+9' RFF+ON:POnumber1' LIN+1+6+ArticleB:VP::92' RFF+LI::93' RFF+PP:POchangenernumber2' SCC+1'</p> <p>l) QTY+21:750' l) DTM+2:19990208':102' m) QTY+113:750' m) DTM+67:19990212':102' UNS+S'</p>	<p>6: BGM+231+POresponsernumber3+9' RFF+ON:POnumber1' LIN+1+6+ArticleA:VP::92' RFF+LI::75' RFF+PP:POchangenernumber1' SCC+1'</p> <p>n) QTY+21:500' n) DTM+2:19990222:102' o) QTY+113:450' o) DTM+67:19990222:102' o) QTY+113:50' o) DTM+67:19990228:102' SCC+1'</p> <p>p) QTY+113:1500' p) DTM+67:19990301:102' LIN+1+5+ArticleB:VP::92' RFF+LI::93' RFF+PP:POchangenernumber2' UNS+S'</p>

The following principles set out in the EDIFICE FUNCTIONAL DEFINITION apply:

In any subsequent message to the original Purchase Order, SG54 should contain:

- * the scheduling conditions (QTY/DTM) as it was BEFORE the now transmitted message
- ** the new proposed/requested scheduling conditions

- "" is always retrieved from the preceding message for the line item in question.
- The preceding message for the line item is always referenced in the RFF segment in SG33.
- The original Purchase Order for the line item is always referenced in the RFF segment in SG1.
- If no preceding message exists other than the original Purchase Order, there will be no reference in SG33 except for the line number reference. If this is the case, it is from the original Purchase Order situation "" should be retrieved.

1: Buyer sends ORDERS for lines 75 and 93

The original Purchase Order references the business/commercial agreement at header level and the line number for each individual item being ordered at detail level. The scheduling conditions, ordered quantity and requested delivery date, are marked with a), b) and c).

2: Seller sends ORDRSP for lines 75 and 93

The Purchase Order Response references the original Purchase Order at header level and the line number for each individual item being responded to at detail level.

Since the Purchase Order Response is a subsequent message to the original Purchase Order, the principles set out in the EDIFICE FUNCTIONAL DEFINITION apply. This is the first message transmitted subsequent to the original Purchase Order, i.e. no other preceding message exists for any of the line items involved, which means that "the scheduling conditions (QTY/DTM) as it was BEFORE the now transmitted message" ("" is retrieved from the referenced original Purchase Order for both line 75 and 93 and is immediately followed by the new proposed scheduling conditions:

- Line number 75, first schedule
 - a) shows "the scheduling conditions (QTY/DTM) as it was BEFORE the now transmitted message" (""). It has been retrieved from the original Purchase Order (where it is also marked "a)").
 - d) shows "the new proposed/requested scheduling conditions" by the seller.
- Line number 75, second schedule
 - When the 'requested' schedule is accepted by the seller or if the schedule is transmitted for positioning purposes, only "" is required to be transmitted (see section Remarks, SG52 in the ORDRSP documentation). When this is the case, it is understood that "the scheduling conditions (QTY/DTM) as it was BEFORE the now transmitted message" is identical with "the new proposed/requested scheduling conditions". The scheduling conditions "e)" is in other words the new situation as proposed by the seller. It is however identical to what was requested by the buyer in b).
- Line number 93, all schedules.
 - The action request code states acceptance without amendment signifying that no part of the detail section, except for the RFF segments carrying the references to line number and preceding Purchase Order Change Request (if any) for the line item, needs to be transmitted (see section Remarks, SG31 in the ORDRSP documentation). It is understood that the requested schedule "c)" of the original Purchase Order is accepted by the seller.

3: Buyer sends ORDCHG for line 75

The Purchase Order Change Request references the original Purchase Order at header level. At detail level, the line number and the preceding message for the line item involved are referenced.

Since the Purchase Order Change Request is a subsequent message to the original Purchase Order, the principles set out in the EDIFICE FUNCTIONAL DEFINITION apply. Accordingly, this Purchase Order Change Request is issued to propose amendments to the Purchase Order Response received for the line item in question:

- Line number 75, first schedule.
 - The schedule is transmitted for positioning purposes (see section Remarks, SG52 in the ORDCHG documentation). It is understood that situation "" in the EDIFICE FUNCTIONAL DEFINITION is identical with "" in this case. Situation "" is retrieved from Poresponsenumber1, as indicated by the reference at detail level. Thus, the scheduling conditions "g)" represents the new situation as requested by the buyer. It is identical to the scheduling conditions "d)" as proposed by the seller in Poresponsenumber1.
- Line number 75, second schedule
 - h) shows "the scheduling conditions (QTY/DTM) as it was BEFORE the now transmitted message" (""). It has been retrieved from Poresponsenumber1, "e)", in accordance with the reference to the preceding message at detail level.
 - i) shows "the new proposed/requested scheduling conditions", i.e. the new requested situation by the buyer.

4: Buyer sends ORDCHG for line 93

The Purchase Order Change Request references the original Purchase Order at header level. At detail level, the line number and the preceding message for the line item involved are referenced.

Since the Purchase Order Change Request is a subsequent message to the original Purchase Order, the principles set out in the EDIFICE FUNCTIONAL DEFINITION apply.

- Line number 93.
 - j) shows situation "*". It has been retrieved from POresponsernumber1, in accordance with the reference to the preceding message at detail level. It is understood that the situation reflected in "j)" has not changed after the first appearance of these scheduling conditions in the original Purchase Order as "c)", since POresponsernumber1 accepted "c)" without amendments.
 - k) shows situation "***", i.e. the new requested situation by the buyer.

5: Seller sends ORDRSP for line 93

The Purchase Order Response references the original Purchase Order at header level. At detail level, the line number and the last received message, i.e. the last received Purchase Order Change Request, for the line item involved are referenced.

Since the Purchase Order Response is a subsequent message to the original Purchase Order, the principles set out in the EDIFICE FUNCTIONAL DEFINITION apply.

- Line number 93.

The preceding message for this line number is POchangenummer2, as indicated in one of the RFF segments at detail level. Thus, it is the requested situation of POchangenummer2 for line number 93 that will be responded to in this response and from which "*" will be retrieved

 - l) shows situation "*". It corresponds to "the new proposed/requested scheduling conditions" in the preceding message, i.e. in POchangenummer2, which is "k)".
 - m) shows "the new proposed/requested scheduling conditions" by the seller.

6: Seller sends ORDRSP for lines 75 and 93

The Purchase Order Response references the original Purchase Order at header level. At detail level, the line number and the last received message, i.e. the last received Purchase Order Change Request, for the line item involved are referenced. Note that the two line items reference different Purchase Order Change Requests this time.

Since the Purchase Order Response is a subsequent message to the original Purchase Order, the principles set out in the EDIFICE FUNCTIONAL DEFINITION apply.

- Line number 75, first schedule

The preceding message for this line number is POchangenummer 1, which is referenced in the RFF segment at detail level.

 - n) shows situation "*". It corresponds to "the new proposed/requested scheduling conditions" in the preceding message, i.e. in POchangenummer1, which is "g)".
 - o) shows "the new proposed/requested scheduling conditions" by the seller. In this case, it is a 'split' situation (see section Remarks, SG52 in the ORDRSP documentation).
- Line number 75, second schedule
 - p) indicates that the schedule requested by the buyer in POchangenummer1 has been fully accepted by the seller.
- Line number 93.

Note that this is the second response in a row for line 93. The preceding message to reference for the seller is still the last received Purchase Order Change Request for the line item, since a Purchase Order Response always is sent in response to the last received message from the buyer.

The action request code states acceptance without amendment signifying that no part of the detail section, except for the RFF segments carrying the references to line number and preceding Purchase Order Change Request for the line item, needs to be transmitted (see section Remarks, SG31 in the ORDRSP documentation). The implication is that the requested schedule k) in the Purchase Order Change Request with document number "POchangenummer2" now has been fully accepted by the seller.

General remarks

The mechanism regarding references and scheduling conditions caters for:

- Single line item ORDERS being responded to by single line item ORDRSP's and amended by single line item ORDCHG's.
- Multiple line item ORDERS being responded to by multiple line item ORDRSP's and amended by multiple line item ORDCHG's.
- As each line item has its own life cycle, any subsequent message to the original Purchase Order may act on the different line items independently (see message 6: in the example above).
 - * an ORDRSP may respond to line items retrieved from one or more ORDCHGs or from the ORDERS message or from a combination of the two.
 - * an ORDCHG may request amendments to line items retrieved from different previously received ORDRSP's
 - * etc.

Note that the principle applied on all occasions is that any subsequent message to the original Purchase Order must reference the preceding message for the line item in question, this is being done by means of the RFF segment in SG33.