The European B2B Forum for the Electronics Industry

EDIFICE Message Implementation Guideline
Inventory Report – Forecast and Inventory Management

INVRPT Issue EDFI02

Endorsed 27 November 2002

Based on UN/EDIFACT D.97A INVRPT Message

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COMPARISON TO PREVIOUS ISSUE

12 May 2004 : EDIFIX 5.0 Technical Upgrade
- The 'KMT' qualifier in SEG QTY DE 6411 is now defined as (*) EDIFICE code. UN/ECE Recommendation 20 specifies 'KTM' as qualifier for 'kilometre'.

21 May 2003:
- SG14 – RFF – C506 EDIFICE Utilisation changed from 'R' to 'M' according to the UN/EDIFACT specification – this does not influence the functionality of the message.
- EDIFIX 4.2 Technical upgrade; review and correction of examples

Issue EDFI02 of 13 November 2002 is based on UN/EDIFACT D97.A / Code List D01.A
  – Addition of the following code value:
      o SG9, LIN segment, CO C212, DE 7143 code 'SRV' EAN.UCC Global Trade Item Number
      o SG9, PIA segment, CO C212, DE 7143 code 'SRV' EAN.UCC Global Trade Item Number

Issue EDFI01 of 29 May 2002 – addition of recommended set of DTM qualifiers

EDIFICE FUNCTIONAL DEFINITION

Business flow diagram
Three simplified business scenarios commonly found in materials supply chains are presented here, featuring usage of the INVRPT message.

Forecast based Supplier Managed Inventory requiring consumption data.
(This is used to implement Kanban supply chains)
The buyer sends his supplier regular gross forecasts for his anticipated production requirements, typically using a weekly DELFOR message.
Additionally, the buyer sends an INVRPT message more frequently (typically daily) to the supplier, detailing his current level of stock, new products received into inventory, and quantities which have been consumed by his production. From this data, the supplier calculates schedules and delivers product to maintain the level of inventory defined by the buyer.
Change of ownership of the product occurs when the product is received by the buyer.

```
┌──────────┐         DELFOR ──────────────►   ┌──────────┐
│          │                                  │          │
│  BUYER   │                                  │  SELLER  │
│          │         INVRPT ──────────────►   │          │
└──────────┘                                  └──────────┘
```
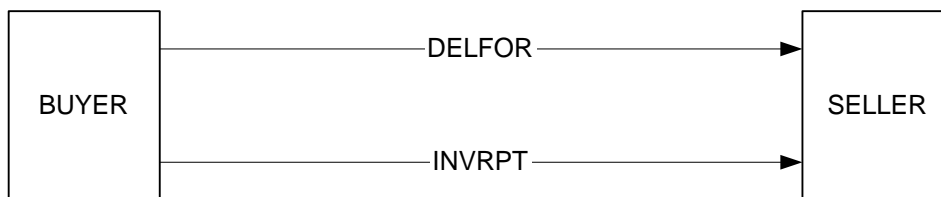
Forecast based Supplier Managed Inventory under Consignment
(This is often referred to as consignment stock held by the buyer)
The buyer sends his supplier regular gross forecasts for his anticipated production requirements, typically using a weekly DELFOR message.
In this DELFOR message the buyer can include all additional details needed by the seller to calculate schedules and deliver product to the buyer's site, in order for the seller to control and maintain the desired level of inventory.
Change of ownership of the product occurs when the product is consumed from inventory by the buyer.
Since this consigned inventory, held remotely, is still owned by the seller, the seller may require more frequent information (daily, for example) concerning his inventory. In this case the data may be sent by using an INVRPT message.

```
┌──────────┐         DELFOR ──────────────►   ┌──────────┐
│          │                                  │          │
│  BUYER   │                                  │  SELLER  │
│          │         INVRPT ──────────────►   │          │
└──────────┘                                  └──────────┘
```
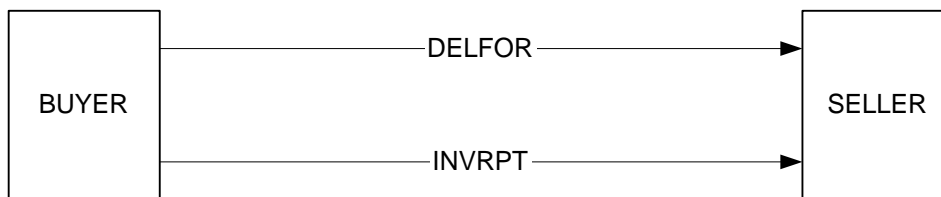
Consignment Inventory held in a third party warehouse
(This is often referred to as the Vendor Hub scenario)
The buyer sends his supplier regular gross forecasts for his anticipated production requirements, typically using a weekly DELFOR message
A remote consignment warehouse, operated by a third party, is stocked by the supplier according to the buyer's forecasted production. The level of inventory is controlled and maintained by the seller. Independently, the buyer communicates his immediate product delivery requirements to the consignment warehouse operator, typically by using a DELJIT message.
Change of ownership of the product occurs when the product is delivered by the third party warehouse to the buyer.
This consigned inventory, held remotely, is still owned by the seller. In order to replenishment the stock correctly, the third party warehouse operator must inform the supplier of activities concerning the inventory. This is performed by using the INVRPT.
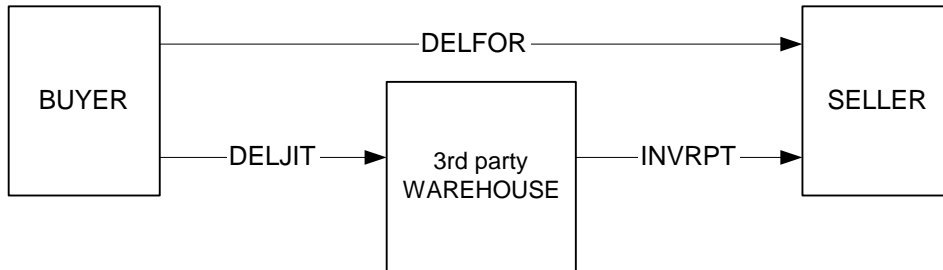
Principles

The EDIFACT Inventory Report Message (INVRPT) is used to exchange information relevant to held inventories and which is of interest to the trading partners.
In a materials management environment, the INVRPT may result from monitoring and tracking inventory movements.
It is used to inform the seller of the inventory status and movements, within appropriate time frames.

REFERENCES

Refer to the document : Reference list for the EDIFICE message guidelines – Issue 1

EXPLANATORY NOTES

Refer to the document : Explanatory notes for the EDIFICE message guidelines – Issue 1

MESSAGE STRUCTURE CHART

```
        UNH    MESSAGE HEADER                              M 1
        BGM    BEGINNING OF MESSAGE                        M 1
        DTM    DATE/TIME/PERIOD                            M 1
    ┌── SG2                                                R..3
    │   NAD    NAME AND ADDRESS                            M 1
    │   LOC    PLACE/LOCATION IDENTIFICATION               O 1
    │ ┌ SG3                                                D..2
    │ └─RFF    REFERENCE                                   M 1
    │ ┌ SG4                                                O 1
    │ │ CTA    CONTACT INFORMATION                         M 1
    └─┴ COM    COMMUNICATION CONTACT                       O..3
    ┌── SG5                                                D 1
    └── CUX    CURRENCIES                                  M 1
    ┌── SG9                                                R..9999
    │   LIN    LINE ITEM                                   M 1
    │   PIA    ADDITIONAL PRODUCT ID                       D..10
    │ ┌ SG10                                               D..4
    │ │ RFF    REFERENCE                                   M 1
    │ └ DTM    DATE/TIME/PERIOD                            D 1
    │ ┌ SG11                                               R..9999
    │ │ INV    INVENTORY MANAGEMENT RELATED DETAILS        M 1
    │ │ OTY    QUANTITY                                    M 1
    │ │ GIN    GOODS IDENTITY NUMBER                       D..100
    │ │ LOC    PLACE/LOCATION IDENTIFICATION               O..2
    │ │ DTM    DATE/TIME/PERIOD                            R 1
    │ │┌ SG12                                              D 1
    │ │└ NAD    NAME AND ADDRESS                           M 1
    │ │┌ SG14                                              R..3
    │ ││ RFF    REFERENCE                                  M 1
    └─┴┴ DTM    DATE/TIME/PERIOD                           O 1
        UNT    MESSAGE TRAILER                             M 1
```

BRANCHING DIAGRAM

```
0 ─────┬──────────┬──────────┬────────────────────────┬──────[ 1 ]

   ┌─────────┐  ┌─────────┐
   │   UNH   │  │   BGM   │
   │ M │  1  │  │ M │  1  │
   └─────────┘  └─────────┘

1                    ┌─────────┐          ┌─────────┐
                     │   SG2   │          │   SG5   │
        ┌─────────┐  │ R │ ..3 │          │ D │  1  │
        │   DTM   │  │   NAD   │          │   CUX   │
        │ M │  1  │  │ M │  1  │          │ M │  1  │
        └─────────┘  └─────────┘          └─────────┘

2                    ┌─────┬──────────┬──────────┐
                           ┌─────────┐  ┌─────────┐
                           │   SG3   │  │   SG4   │
              ┌─────────┐  │ D │ ..2 │  │ O │  1  │
              │   LOC   │  │   RFF   │  │   CTA   │
              │ O │  1  │  │ M │  1  │  │ M │  1  │
              └─────────┘  └─────────┘  └─────────┘

3                                     ┌─────────┐
                                      │   COM   │
                                      │ O │ ..3 │
                                      └─────────┘
```

```
0   ┌─────┐
    │  1  │────────────────────────────────────────────────────┐
    └─────┘                                                     │
                                                          ┌───────────┐
                                                          │    UNT    │
                                                          ├───┬───────┤
                                                          │ M │   1   │
                                                          └───┴───────┘
1   ┌───────────┐
    │    SG9    │
    ├───┬───────┤
    │ R │ ..9999 │
    ├───┴───────┤
    │    LIN    │
    ├───┬───────┤
    │ M │   1   │
    └───┴───────┘
2       ┌───────────┐ ┌───────────┐
        │   SG10    │ │   SG11    │
        ├───┬───────┤ ├───┬───────┤
        │ D │  ..4  │ │ R │ ..9999 │
        ├───┴───────┤ ├───┴───────┤
    ┌───────────┐│RFF│ │    INV    │
    │    PIA    │├───┬─┤ ├───┬───────┤
    ├───┬───────┤│ M │1│ │ M │   1   │
    │ D │  ..10 │└───┴─┘ └───┴───────┘
    └───┴───────┘
3                                                          ┌───────────┐ ┌───────────┐
                                                           │   SG12    │ │   SG14    │
                                                           ├───┬───────┤ ├───┬───────┤
                                                           │ D │   1   │ │ R │  ..3  │
          ┌───────┐ ┌───────┐ ┌───────┐ ┌───────┐ ┌───────┤ ├───────┤ ├───┴───────┤
          │  DTM  │ │  QTY  │ │  GIN  │ │  LOC  │ │  DTM  │ │  NAD  │ │    RFF    │
          ├───┬───┤ ├───┬───┤ ├───┬───┤ ├───┬───┤ ├───┬───┤ ├───┬───┤ ├───┬───────┤
          │ D │ 1 │ │ M │ 1 │ │ D │..100│ │ O │..2 │ │ R │ 1 │ │ M │ 1 │ │ M │   1   │
          └───┴───┘ └───┴───┘ └───┴───┘ └───┴───┘ └───┴───┘ └───┴───┘ └───┴───────┘
4                                                                        ┌───────────┐
                                                                         │    DTM    │
                                                                         ├───┬───────┤
                                                                         │ O │   1   │
                                                                         └───┴───────┘
```
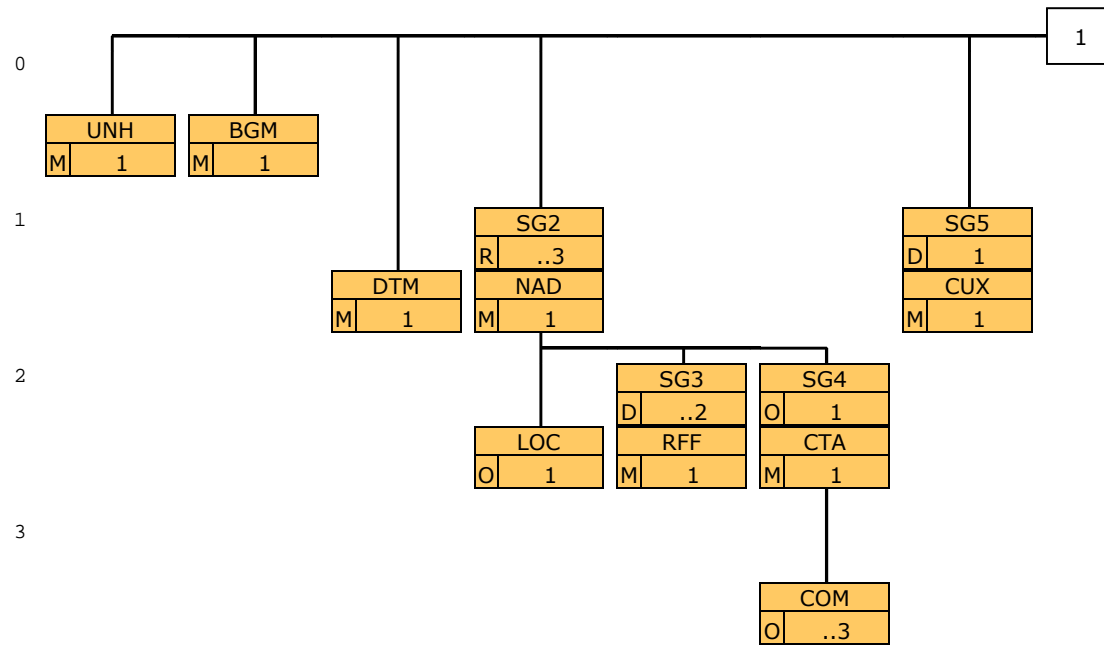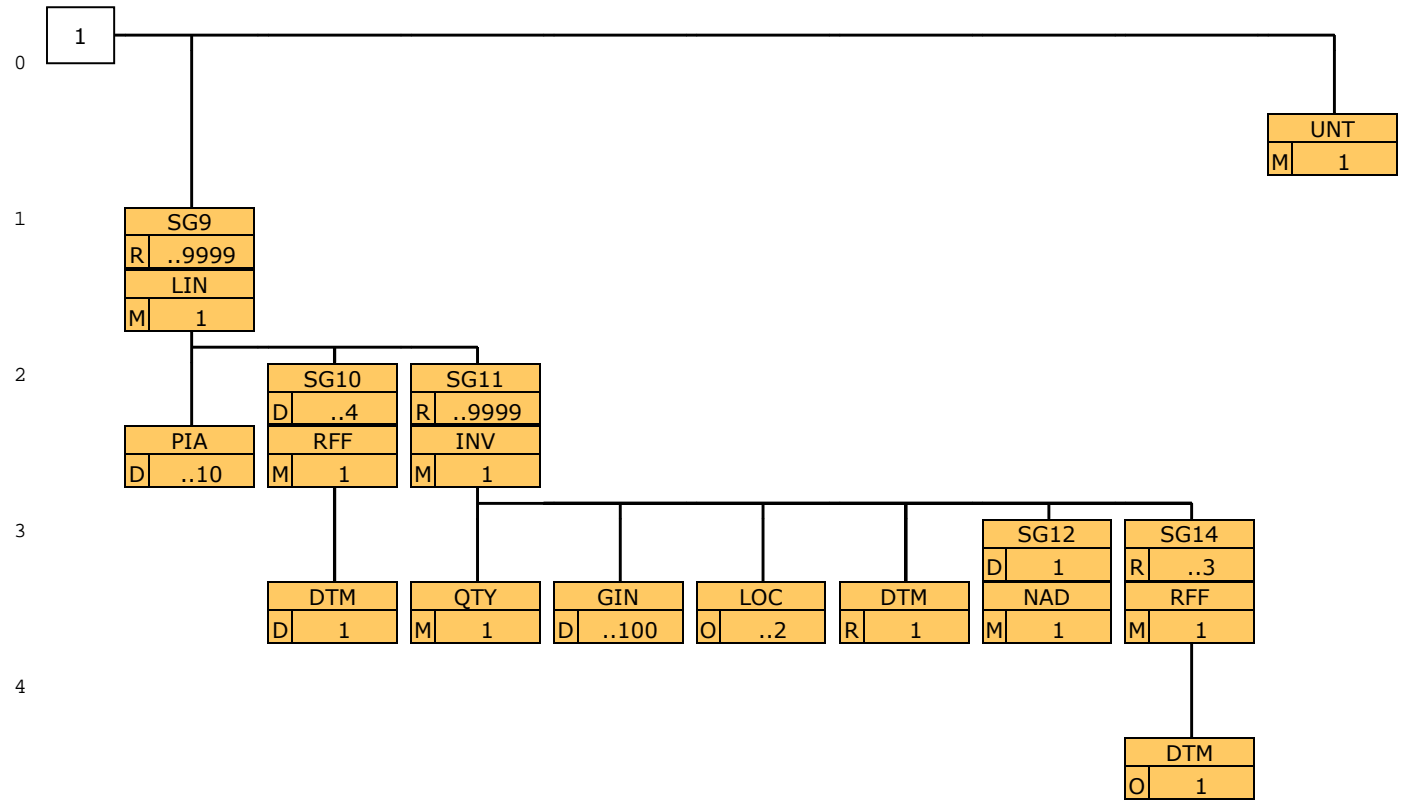
SEGMENT GROUPS/SEGMENTS DESCRIPTION

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/time of creation of the message.
Usage: M1

SG2   NAD-LOC-SG3-SG4

Function: A group of segments identifying the parties involved and their associated information, relevant to the whole
            message.
Usage: R..3
Notes: SG3 is used if EC regulations and/or country law requires reference numbers to be sent.
            If the LOC segment is used in SG2, it may be overridden by the information specified in LOC of SG11.

NAD   NAME AND ADDRESS

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

LOC   PLACE/LOCATION IDENTIFICATION

Function: A segment identifying a location or place required for the inventory concerned, relevant to the specified
            party.
Usage: O1

SG3   RFF

Function: A group of segments specifying references relating to the specified party.
Usage: D..2
Notes:

RFF   REFERENCE

Function: A segment specifying a company specific reference.
Usage: M1

SG4   CTA-COM

Function: A group of segments giving contact details of the specific person or department within the identified party
            involved, to whom communication should be directed.
Usage: O1
Notes:

CTA   CONTACT INFORMATION

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

COM   COMMUNICATION CONTACT

Function: A segment identifying a communications type and number.
Usage: O..3

SG5   CUX

Function: A group of segments specifying the currency valid for the whole message.

Usage: D 1
Notes: SG5 is only used when the billing currency for consignment stock needs to be identified, though the price itself is not necessary. Withdrawals of products requiring different currencies require separate reports. For status-only reports, the currency would not be used.

CUX   CURRENCIES

Function: A segment specifying the currency of the account.
Usage: M 1

SG9   LIN-PIA-SG10-SG11

Function: A group of segments providing inventory details of the individual line items i.e. products kept in inventory.
Usage: R..9999
Notes: SG10 is used when document references 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.
Usage: M 1

PIA   ADDITIONAL PRODUCT ID

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

SG10   RFF-DTM

Function: A group of segments specifying references for the line item.
Usage: D..4
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 a document reference number and its appropriate line number.
Usage: M 1

DTM   DATE/TIME/PERIOD

Function: A segment specifying the date/time of the reference document.
Usage: D 1

SG11   INV-QTY-GIN-LOC-DTM-SG12-SG14

Function: A group of segments providing a quantity with all inventory management related information for the line item.
Usage: R..9999
Notes: This matrix shows how INV and QTY are used. For each inventory status, the date/time should be specified.

The GIN segment is used when goods identity numbers need to be specified.
SG12 is used when the owner of the inventory needs to be specified.

Status of Inventory	INV DE 4499	INV DE 4503	QTY DE 6063	DTM
Snapshot	–	1/2	17/89	*
Incoming	1	–	48	*
Outgoing	11/2	–	2	*
Returns	8	–	61	*
Corrections	7	–	213/214	*

INV   INVENTORY MANAGEMENT RELATED DETAILS

Function: A segment specifying the reason for an inventory movement or the inventory status.

Usage: M1

QTY   QUANTITY

Function: A segment specifying a quantity.
Usage: M1

GIN   GOODS IDENTITY NUMBER

Function: A segment providing identity numbers.
Usage: D..100

LOC   PLACE/LOCATION IDENTIFICATION

Function: A segment identifying a location or place required for the inventory concerned.
Usage: O..2

DTM   DATE/TIME/PERIOD

Function: A segment specifying the date/time as applied to the quantity.
Usage: R 1

SG12   NAD

Function: A group of segments identifying the owner of the inventory.
Usage: D 1
Notes:

NAD   NAME AND ADDRESS

Function: A segment identifying the owner of the inventory.
Usage: M1

SG14   RFF-DTM

Function: A group of segments giving references only relating to the specified quantity.
Usage: R..3
Notes:

RFF   REFERENCE

Function: A segment specifying a document reference number and its appropriate line number, identifying the
          quantity received or consumed from inventory.
Usage: M1

DTM   DATE/TIME/PERIOD

Function: A segment specifying the date/time of the reference document.
Usage: O 1

UNT   MESSAGE TRAILER

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

UNH

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 EDSS04

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	INVRPT = Inventory report message
0052	an..3	M	Message type version number	M	D = Draft version/UN/EDIFACT Directory
0054	an..3	M	Message type release number	M	97A = Release 1997 - A
0051	an..2	M	Controlling agency	M	UN = UN/CEFACT
0057	an..6	C	Association assigned code	R	EDFI02 = Inventory report - Forecast and Inventory management Issue EDFI02
0068	an..35	C	COMMON ACCESS REFERENCE	N	
S010		C	STATUS OF THE TRANSFER	N	
0070	n..2	M	Sequence message transfer number	N	
0073	a1	C	First/last sequence message transfer indication	N	

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	35 = Inventory report
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	Inventory report number
1056	an..9	C	Version	N	
1060	an..6	C	Revision number	N	
1225	an..3	C	MESSAGE FUNCTION, CODED	A	9 = Original
4343	an..3	C	RESPONSE TYPE, CODED	N	

DTM   DATE/TIME/PERIOD

Function: A segment specifying the date/time 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	Document creation date
2379	an..3	C	Date/time/period format qualifier	R	102 = CCYYMMDD
					203 = CCYYMMDDHHMM
					303 = CCYYMMDDHHMMZZZ
					ZZZ = Time zone
					304 = CCYYMMDDHHMMSSZZZ
					ZZZ = Time zone
					X03 = CCYYMMDDHHMMZZZZZ (*)
					ZZZZZ = Time zone
					X04 = CCYYMMDDHHMMSSZZZZZ (*)
					ZZZZZ = Time zone
					(*) EDIFICE code

SG2   NAD-LOC-SG3-SG4

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.
           The seller and the party holding the inventory must be specified.

Ref.	Rep.		Name		EDIFICE Utilisation
3035	an..3	M	PARTY QUALIFIER	M	BY = Buyer SE = Seller DP = Delivery party Party holding the inventory, if different from buyer or seller.
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	9 = EAN (International Article Numbering association) 16 = DUNS (Dun & Bradstreet) 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

SG2   NAD-LOC-SG3-SG4

LOC   PLACE/LOCATION IDENTIFICATION

Function: A segment identifying a location or place required for the inventory concerned, relevant to the specified party.

Usage :   O 1

Notes :

Ref.	Rep.		Name		EDIFICE Utilisation
3227	an..3	M	PLACE/LOCATION QUALIFIER	M	18 = Warehouse
C517		C	LOCATION IDENTIFICATION	R	It is advised that DE 3225 be used together with DE 3055 rather than DE 3224.
3225	an..25	C	Place/location identification	A	
1131	an..3	C	Code list qualifier	N	
3055	an..3	C	Code list responsible agency, coded	D	91 = Assigned by seller or seller's agent 92 = Assigned by buyer or buyer's agent
3224	an..70	C	Place/location	D	
C519		C	RELATED LOCATION ONE IDENTIFICATION	N	
3223	an..25	C	Related place/location one identification	N	
1131	an..3	C	Code list qualifier	N	
3055	an..3	C	Code list responsible agency, coded	N	
3222	an..70	C	Related place/location one	N	
C553		C	RELATED LOCATION TWO IDENTIFICATION	N	
3233	an..25	C	Related place/location two identification	N	
1131	an..3	C	Code list qualifier	N	
3055	an..3	C	Code list responsible agency, coded	N	
3232	an..70	C	Related place/location two	N	
5479	an..3	C	RELATION, CODED	N	

SG3   RFF

RFF   REFERENCE

Function: A segment specifying a company specific reference.
Usage :   M1
Notes :

Ref.	Rep.		Name		EDIFICE Utilisation
C506		M	REFERENCE	M	
1153	an..3	M	Reference qualifier	M	VA = VAT registration number
					GN = Government reference number
1154	an..35	C	Reference number	R	
1156	an..6	C	Line number	N	
4000	an..35	C	Reference version number	N	

SG4   CTA-COM

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	IC = Information contact
C056		C	DEPARTMENT OR EMPLOYEE DETAILS	R	If a code is available use DE 3413, otherwise use DE 3412.
3413	an..17	C	Department or employee identification	D	
3412	an..35	C	Department or employee	D	

SG4   CTA-COM

COM   COMMUNICATION CONTACT

Function: A segment identifying a communications type and number.
Usage :   O..3
Notes :

Ref.	Rep.		Name		EDIFICE Utilisation
C076		M	COMMUNICATION CONTACT	M	
3148	an..512	M	Communication number	M	
3155	an..3	M	Communication channel qualifier	M	EM = Electronic mail
					FX = Telefax
					TE = Telephone

SG5   CUX

CUX   CURRENCIES

Function: A segment specifying the currency of the account.
Usage :   M1
Notes :

Ref.	Rep.		Name		EDIFICE Utilisation
C504		C	CURRENCY DETAILS	R	
6347	an..3	M	Currency details qualifier	M	7 = Currency of the account
6345	an..3	C	Currency, coded	R	Use ISO 4217, 3 alpha code
6343	an..3	C	Currency qualifier	R	4 = Invoicing currency
6348	n..4	C	Currency rate base	N	
C504		C	CURRENCY DETAILS	N	
6347	an..3	M	Currency details qualifier	N	
6345	an..3	C	Currency, coded	N	
6343	an..3	C	Currency qualifier	N	
6348	n..4	C	Currency rate base	N	
5402	n..12	C	RATE OF EXCHANGE	N	
6341	an..3	C	CURRENCY MARKET EXCHANGE, CODED	N	

SG9   LIN-PIA-SG10-SG11

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.
Usage :   M1
Notes :

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	N	
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
					DI = Distributor's part number (*)
					EN = International Article Numbering Association (EAN)
					MF = Manufacturer's (producer's) article number
					SRV = EAN.UCC Global Trade Item Number
					UP = UPC (Universal product code)
					VP = Vendor's (seller's) part number
					(*) EDIFICE code
1131	an..3	C	Code list qualifier	N	
3055	an..3	C	Code list responsible agency, coded	R	9 = EAN (International Article Numbering association)
					89 = Assigned by distributor
					90 = Assigned by manufacturer
					91 = Assigned by seller or seller's agent
					92 = Assigned by buyer or buyer's agent
					113 = US, UCC (Uniform Code Council)
C829		C	SUB-LINE INFORMATION	N	
5495	an..3	C	Sub-line indicator, coded	N	
1082	an..6	C	Line item number	N	
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..10
Notes :   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	AA = Product version number
					Release number of a product
					BP = Buyer's part number
					CL = Color number
					CV = Customs article number
					DI = Distributor's part number (*)
					DR = Drawing revision number
					DW = Drawing
					EC = Engineering change level
					EN = International Article Numbering Association (EAN)
					GS = General specification number
					MF = Manufacturer's (producer's) article number
					MN = Model number
					SG = Standard group of products (mixed assortment)
					SN = Serial number
					SRV = EAN.UCC Global Trade Item Number
					UP = UPC (Universal product code)
					VP = Vendor's (seller's) part number
					VX = Vendor specification number
					(*) EDIFICE code
1131	an..3	C	Code list qualifier	N	
3055	an..3	C	Code list responsible agency, coded	R	9 = EAN (International Article Numbering association)
					89 = Assigned by distributor
					90 = Assigned by manufacturer
					91 = Assigned by seller or seller's agent
					92 = Assigned by buyer or buyer's agent
					113 = US, UCC (Uniform Code Council)
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	
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	

SG10   RFF-DTM

RFF   REFERENCE

Function: A segment specifying a document reference number and its appropriate line number.
Usage :   M1
Notes :

Ref. Rep. Name		EDIFICE Utilisation
C506 M REFERENCE	M	
1153 an..3 M Reference qualifier	M	AAD = Contract addendum number
		BO = Blanket order number
		CT = Contract number
		GC = Government contract number
1154 an..35 C Reference number	R	
1156 an..6 C Line number	O	
4000 an..35 C Reference version number	N	

SG10   RFF-DTM

DTM   DATE/TIME/PERIOD

Function: A segment specifying the date/time of the reference document.
Usage :   D 1
Notes :

Ref.	Rep.		Name		EDIFICE Utilisation
C507		M	DATE/TIME/PERIOD	M	
2005	an..3	M	Date/time/period qualifier	M	171 = Reference date/time
2380	an..35	C	Date/time/period	R	
2379	an..3	C	Date/time/period format qualifier	R	102 = CCYYMMDD
					203 = CCYYMMDDHHMM
					303 = CCYYMMDDHHMMZZZ
					ZZZ = Time zone
					304 = CCYYMMDDHHMMSSZZZ
					ZZZ = Time zone
					X03 = CCYYMMDDHHMMZZZZZ (*)
					ZZZZZ = Time zone
					X04 = CCYYMMDDHHMMSSZZZZZ (*)
					ZZZZZ = Time zone
					(*) EDIFICE code

SG11   INV-QTY-GIN-LOC-DTM-SG12-SG14

INV   INVENTORY MANAGEMENT RELATED DETAILS

Function: A segment specifying the reason for an inventory movement or the inventory status.
Usage :   M1
Notes :   Codes in DE 4499 and DE 4503 to be used in accordance with the matrix in the Notes of SG11.

Ref.	Rep.		Name		EDIFICE Utilisation
4501	an..3	C	INVENTORY MOVEMENT DIRECTION, CODED	N	
7491	an..3	C	TYPE OF INVENTORY AFFECTED, CODED	N	
4499	an..3	C	REASON FOR INVENTORY MOVEMENT, CODED	D	1 = Reception 2 = Delivery 7 = Reversal of previous movement 8 = Defects (technical) 11 = Consumption
4503	an..3	C	INVENTORY BALANCE METHOD, CODED	D	1 = Book-keeping inventory balance Status 2 = Formal inventory balance Status
C522		C	INSTRUCTION	N	
4403	an..3	M	Instruction qualifier	N	
4401	an..3	C	Instruction, coded	N	
1131	an..3	C	Code list qualifier	N	
3055	an..3	C	Code list responsible agency, coded	N	
4400	an..35	C	Instruction	N	

SG11   INV-QTY-GIN-LOC-DTM-SG12-SG14

QTY   QUANTITY

Function: A segment specifying a quantity.
Usage :   M1
Notes :   Codes in DE 6063 to be used in accordance with the matrix in the Notes of SG11.

Ref. Rep. Name		EDIFICE Utilisation
C186 M	M	QUANTITY DETAILS

6063 an..3 M Quantity qualifier	M	2 = Charge
		   17 = Quantity on hand
		   48 = Received quantity
		   61 = Return quantity
		   89 = Quality control held Quarantined
		  213 = Transferred out quantity
		  214 = Transferred in quantity

6060 n..15 M Quantity	M	

6411 an..3 C Measure unit qualifier	R	Use the following codes from UN/ECE Recommendation no.20, Codes for Units of Measurement:
		  CLT = centilitre
		  CMT = centimetre
		  GRM = gram
		  KGM = kilogram
		  KMT = kilometre (*)
		  LTR = litre
		  MGM = milligram
		  MMT = millimetre
		  MTK = square metre
		  MTQ = cubic metre
		  MTR = metre
		  PCE = piece (*)
		(*) EDIFICE code, not included in UN/ECE Recommendation No. 20
		Other codes should be previously agreed between trading partners.

SG11   INV-QTY-GIN-LOC-DTM-SG12-SG14

GIN   GOODS IDENTITY NUMBER

Function: A segment providing identity numbers.
Usage :   D..100
Notes :

Ref.	Rep.		Name		EDIFICE Utilisation
7405	an..3	M	IDENTITY NUMBER QUALIFIER	M	BN = Serial number
C208		M	IDENTITY NUMBER RANGE	M	The first DE 7402 in the composite data element is the start of the consecutively numbered range, the second DE 7402 indicates the end of the range. If there is no range only the first DE 7402 is used. If the identity numbers are not sequential and part of a series (e.g. 1,3,10) then a separate CO C208 and DE 7402 must be used for each identity number.
7402	an..35	M	Identity number	M	
7402	an..35	C	Identity number	D	
C208		C	IDENTITY NUMBER RANGE	O	As for first CO C208
7402	an..35	M	Identity number	M	
7402	an..35	C	Identity number	D	
C208		C	IDENTITY NUMBER RANGE	O	As for first CO C208
7402	an..35	M	Identity number	M	
7402	an..35	C	Identity number	D	
C208		C	IDENTITY NUMBER RANGE	O	As for first CO C208
7402	an..35	M	Identity number	M	
7402	an..35	C	Identity number	D	
C208		C	IDENTITY NUMBER RANGE	O	As for first CO C208
7402	an..35	M	Identity number	M	
7402	an..35	C	Identity number	D	

SG11   INV-QTY-GIN-LOC-DTM-SG12-SG14

LOC   PLACE/LOCATION IDENTIFICATION

Function: A segment identifying a location or place required for the inventory concerned.
Usage :   O..2
Notes :

Ref.	Rep.		Name		EDIFICE Utilisation
3227	an..3	M	PLACE/LOCATION QUALIFIER	M	14 = Location of goods 18 = Warehouse
C517		C	LOCATION IDENTIFICATION	R	It is advised that DE 3225 be used together with DE 3055 rather than DE 3224.
3225	an..25	C	Place/location identification	A	
1131	an..3	C	Code list qualifier	N	
3055	an..3	C	Code list responsible agency, coded	D	91 = Assigned by seller or seller's agent 92 = Assigned by buyer or buyer's agent
3224	an..70	C	Place/location	D	
C519		C	RELATED LOCATION ONE IDENTIFICATION	O	
3223	an..25	C	Related place/location one identification	O	
1131	an..3	C	Code list qualifier	O	
3055	an..3	C	Code list responsible agency, coded	O	
3222	an..70	C	Related place/location one	O	
C553		C	RELATED LOCATION TWO IDENTIFICATION	N	
3233	an..25	C	Related place/location two identification	N	
1131	an..3	C	Code list qualifier	N	
3055	an..3	C	Code list responsible agency, coded	N	
3232	an..70	C	Related place/location two	N	
5479	an..3	C	RELATION, CODED	N	

SG11   INV-QTY-GIN-LOC-DTM-SG12-SG14

DTM   DATE/TIME/PERIOD

Function: A segment specifying the date/time as applied to the quantity.
Usage :   R 1
Notes :   Date of the status or physical movement of the products in/out of inventory.

Ref.	Rep.		Name		EDIFICE Utilisation
C507		M	DATE/TIME/PERIOD	M	
2005	an..3	M	Date/time/period qualifier	M	145 = Event date
2380	an..35	C	Date/time/period	R	
2379	an..3	C	Date/time/period format qualifier	R	102 = CCYYMMDD
					203 = CCYYMMDDHHMM
					303 = CCYYMMDDHHMMZZZ
					ZZZ = Time zone
					304 = CCYYMMDDHHMMSSZZZ
					ZZZ = Time zone
					X03 = CCYYMMDDHHMMZZZZZ (*)
					ZZZZZ = Time zone
					X04 = CCYYMMDDHHMMSSZZZZZ (*)
					ZZZZZ = Time zone
					(*) EDIFICE code

SG12   NAD

NAD   NAME AND ADDRESS

Function: A segment identifying the owner of the inventory.
Usage :   M1
Notes :

Ref.	Rep.		Name		EDIFICE Utilisation
3035	an..3	M	PARTY QUALIFIER	M	BY = Buyer
					SE = Seller
C082		C	PARTY IDENTIFICATION DETAILS	N	
3039	an..35	M	Party id. identification	N	
1131	an..3	C	Code list qualifier	N	
3055	an..3	C	Code list responsible agency, coded	N	
C058		C	NAME AND ADDRESS	N	
3124	an..35	M	Name and address line	N	
3124	an..35	C	Name and address line	N	
3124	an..35	C	Name and address line	N	
3124	an..35	C	Name and address line	N	
3124	an..35	C	Name and address line	N	
C080		C	PARTY NAME	N	
3036	an..35	M	Party name	N	
3036	an..35	C	Party name	N	
3036	an..35	C	Party name	N	
3036	an..35	C	Party name	N	
3036	an..35	C	Party name	N	
3045	an..3	C	Party name format, coded	N	
C059		C	STREET	N	
3042	an..35	M	Street and number/p.o. box	N	
3042	an..35	C	Street and number/p.o. box	N	
3042	an..35	C	Street and number/p.o. box	N	
3042	an..35	C	Street and number/p.o. box	N	
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	

SG14 RFF-DTM

RFF REFERENCE

Function: A segment specifying a document reference number and its appropriate line number, identifying the quantity received or consumed from inventory.

Usage : M1

Notes :

Ref.	Rep.		Name		EDIFICE Utilisation
C506		M	REFERENCE	M	
1153	an..3	M	Reference qualifier	M	AAB = Proforma invoice
					AAK = Despatch advice number
					AKO = Action authorization number
					IV = Invoice number
					PK = Packing list number
					SRN = Shipment reference number
					TN = Transaction reference number
1154	an..35	C	Reference number	R	
1156	an..6	C	Line number	O	
4000	an..35	C	Reference version number	N	

DTM   DATE/TIME/PERIOD

Function: A segment specifying the date/time of the reference document.
Usage :   O 1
Notes :

Ref.	Rep.		Name		EDIFICE Utilisation
C507		M	DATE/TIME/PERIOD	M	
2005	an..3	M	Date/time/period qualifier	M	171 = Reference date/time
2380	an..35	C	Date/time/period	R	
2379	an..3	C	Date/time/period format qualifier	R	102 = CCYYMMDD
					203 = CCYYMMDDHHMM
					303 = CCYYMMDDHHMMZZZ
					ZZZ = Time zone
					304 = CCYYMMDDHHMMSSZZZ
					ZZZ = Time zone
					X03 = CCYYMMDDHHMMZZZZZ (*)
					ZZZZZ = Time zone
					X04 = CCYYMMDDHHMMSSZZZZZ (*)
					ZZZZZ = Time zone
					(*) EDIFICE code

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 EDSS04.

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

Forecast based supplier managed inventory requiring consumption data.
The buyer sends an INVRPT to the supplier, detailing his current level of stock, new products received into inventory, and quantities which have been consumed by his production.

```
UNB+UNOC:3+234567891:1:X+198765432:1:X+971201:1924+66+X:AA+INVRPT++1+X+1'
UNH+1+INVRPT:D:97A:UN:EDFI02'          INVRPT message no 1
BGM+35+003987078980128+9'              Original message no 003987078980128
DTM+137:199801281517:203'              Dated 28 January 1998
NAD+SE+003987::92'                     Seller's identification
NAD+BY+879645::92'                     Buyer's identification
LOC+18+078::92'                        Buyer's warehouse
CTA+IC+:H.SMITH'                       Contact person's name
COM+07121352047:TE'                    Contact person's telephone number
COM+07121351689:FX'                    Contact person's telefax number

LIN+1++8905730005:BP::92'              Buyer's partnumber
PIA+1+PNA12346:VP::91'                 Seller's partnumber

INV+++1'                               Products received into stock
QTY+48:15:PCE'                         Quantity received
DTM+145:19980127:102'                  Date of receipt
RFF+AAK:8709/326 02'                   Despatch advice number
DTM+171:19980107:102'                  Date of despatch advice
RFF+TN:98000007'                       Receiving transaction number

INV+++11'                              Products consumed from stock
QTY+2:50:PCE'                          Quantity consumed
DTM+145:19980116:102'                  Date of consumption

INV++++1'                              Current calculated stock level
QTY+17:200:PCE'                        Quantity on hand
DTM+145:199801282315:203'              On 28 Jan 1998

UNT+24+1'                              24 segments in this INVRPT report
UNZ+1+66'
```

EXAMPLE 2

Forecast based supplier managed inventory under consignment, often referred to as consignment stock held by the buyer.
The buyer sends an INVRPT to the supplier, detailing his current level of stock, new products received into inventory, quantities which have been consumed by his production, corrections for consumption and receiving errors, and defective products to be returned. The information necessary for self-billing is also specified.

```
UNB+UNOC:3+234567891:1:X+198765432:1:X+971201:1924+66+X:AA+INVRPT++1+X+1'
UNH+5+INVRPT:D:97A:UN:EDFI02'          INVRPT message #5
BGM+35+530+9'                          This is an original document #530
DTM+137:19980220:102'                  Dated 20 February 1998
NAD+BY+ODETTE::92'                      Buying organization's own name
RFF+VA:DE1234567890'                    Buyer's VAT number
CTA+IC+:JOHN DOE'                       Buyer's contact person
COM+0191 234 7901:TE'                   Contact person's phone number
NAD+SE+ACME::91'                        Selling organization's own name
CUX+7:DEM:4'                            Invoicing to be in German Marks

LIN+1++ABCDEFGH:VP::91'                 Vendor's part number ABCDEFGH
PIA+1+123456:BP::92'                    Buyer's part number 123456
RFF+CT:ABC123'                          Contract # ABC123 to be used

INV+++11'                               Consumed from consignment
QTY+2:3000:PCE'                         3000 pieces to be charged for
DTM+145:19980205:102'                   Pulled from stock on 5 February 1998
RFF+IV:65017377'                        Self-billing invoice number
RFF+TN:7909981'                         Buyer internal transaction number

INV+++11'                               Consumed from consignment
QTY+2:4000:PCE'                         4000 pieces to be charged for
DTM+145:19980210:102'                   Pulled from stock on 10 February 1998
RFF+IV:65053313'                        Self-billing invoice number
RFF+TN:7923741'                         Buyer internal transaction number

INV+++7'                                Correction for a consumption error
QTY+214:3000:PCE'                       3000 pieces not consumed
DTM+145:19980213:102'                   Re-entered in stock on 13 February 1998
RFF+IV:6508662'                         Self-billing credit note number
RFF+TN:7923691'                         Buyer internal transaction number

INV+++8'                                Defective products to be returned
QTY+61:550:PCE'                         550 pieces returned to seller
DTM+145:19980211:102'                   Date of return 11 February 1998
RFF+IV:60173733'                        Self-billing credit note number
RFF+TN:7909981'                         Buyer internal transaction number
RFF+AKO:RB1234567'                      Seller's return authorization #

INV+++1'                                Products received into consignment
QTY+48:2000:PCE'                        2000 pieces received into stock
DTM+145:19980210:102'                   On 10 February 1998
RFF+AAB:65053334'                       Buyer's pro-forma self-billing #
RFF+SRN:EBGMOS'                         Seller's ship reference number

INV+++7'                                Correction for a receiving error
QTY+213:6000:PCE'                       Adjust by subtracting 6000 pieces
DTM+145:19980210:102'                   Effective 10 February 1998
RFF+AAB:65053611'                       Buyer's pro-forma self-billing #
RFF+SRN:EBGMOR'                         Seller's ship reference number

INV++++1'                               Current calculated stock level
QTY+17:23000:PCE'                       23000 pieces on hand inventory
DTM+145:19980220:102'                   On 20 February 1998

UNT+47+5'                               47 segments in this INVRPT message
UNZ+1+66'
```

EXAMPLE 3

Consignment Inventory held in a third party warehouse often referred to as the Vendor Hub scenario.
The third party warehouse operator sends an INVRPT to the supplier, detailing his current level of stock, new products received into inventory, and quantities delivered to the buyer. An example of the use of quarantine to hold devices of unconfirmed quality is shown.

```
UNB+UNOC:3+234567891:1:X+198765432:1:X+971201:1924+66+X:AA+INVRPT++1+X+1'
UNH+4+INVRPT:D:97A:UN:EDFI02'        INVRPT message #4
BGM+35+432+9'                        This is an original document #432
DTM+137:19980226:102'                Dated 26 February 1998
NAD+DP+THIRDPARTY::91'               Third party warehouse organization's own name
CTA+IC+:RAY WARE'                    Third party warehouse's contact person
COM+0191 234 7901:TE'                Contact person's phone number
NAD+SE+ACME::91'                     Selling organization's own name

LIN+1++ABCDEFGH:VP::91'              Vendor's part number ABCDEFGH

INV+++2'                             Delivered from consignment
QTY+2:4000:PCE'                      4000 pieces to be charged for
DTM+145:19980205:102'                Pulled from stock on 5 February 1998
RFF+TN:7909981'                      Internal transaction number

INV+++1'                             Products received into consignment
QTY+48:2000:PCE'                     2000 pieces received into stock
DTM+145:19980210:102'                On 10 February 1998
RFF+SRN:EBGMOS'                      Seller's ship reference number

INV++++1'                            Current calculated stock level
QTY+17:45000:PCE'                    45000 pieces on hand inventory
DTM+145:19980226:102'                On 26 February 1998

INV++++1'                            Stock on quality hold
QTY+89:15000:PCE'                    15000 devices in quarantine
DTM+145:19980226:102'                On 26 February 1998

UNT+23+4'                            23 segments in this INVRPT message
UNZ+1+66'
```