GENERAL MOTORS

EDIFACT IMPLEMENTATION GUIDELINES

FOR

DELFOR MESSAGE

DELIVERY INSTRUCTION MESSAGE

D97A

Version 1

GM Defense LLC

EDIFACT IMPLEMENTATION GUIDELINES

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EDIFACT IMPLEMENTATION GUIDELINES

INTRODUCTION:

This Implementation Guideline details how General Motors intends to use the enhanced DELFOR Message. It provides the standardized format and establishes the data content of a Delivery Instruction Message. The Delivery Instruction message (DELFOR) is a message from GM to a GM Supplier giving details for both short and long term material requirements in line with the conditions set out in the purchase contract.

DEFINITION AND DESCRIPTION:

This document provides the definition of a Delivery Instruction Message, based on the EDIFACT DELFOR D97.A, to be used in Electronic Data Interchange (EDI) between GM Defense LLC and its Trading Partners.

This documentation is fully comprehensive and allows the implementation of the EDIFACT DELFOR without the necessity for any additional standard related documentation.

FUNCTIONAL DEFINITION:

The Delivery Instruction message is a message from GM Defense LLC to a Supplier giving details for both short and long-term material requirements in line with the conditions set out in the purchase contract. Suppliers will receive a DELFOR message for each part sourced to the Supplier. The DELFOR will contain planning as well as firm shipment requirements. Suppliers will NOT receive a DELJIT from GM Defense LLC at this point in time.

Please note that this transmission is not a contractual agreement. Any relevant contract details can be found in the E-Contract Mailbox via GM SupplyPower (https://gmsupplypower.covisint.com/web/portal/applications). The DELFOR reference order will have a prefix of “US” followed by the Contract Number. This reference number MUST be returned on the ASN.

REFERENCES:

This document provides the specific description of the EDIFACT DELFOR message and has been developed based on version D97A of the EDIFACT Standard.

RESPONSIBILITY:

This document was developed and is maintained by the General Motors Global EDI Group. It is distributed internally to all General Motors EDI Coordinators and Partners.

MAINTENANCE:

The General Motors Global EDI Group will review changes to this document, as needed. The change process can only be initiated by individuals/organizations within the General Motors Corporation. Changes to this guideline will be considered on an annual basis, to ensure that there is a consistent interpretation of the message.

HOW TO READ THIS DOCUMENTATION:

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

1 **Segment: BGM Beginning of Message**

2 **Position:** 0020
Group:
Level: 0
3 **Usage:** Mandatory
Max Use: 1
4 **Purpose:** A segment indicating the beginning of a message and identifying the consignment for which status is being reported.
5 **Notes:** ***Example:***
BGM+23+751615766000+9'

6 **Data Element Summary**

	7 Data Element	Component Element	Name	Attributes		8
M	**C002**		**DOCUMENT/MESSAGE NAME**	**M**	**1**	
			Identification of a type of document/message by code or name. Code preferred.			
M		**1001**	**Document name code**	**M**		**an..3**
			Code specifying the document name.			
			23 Status information			
		1000	**Document name**	**C**		**an..35**
			Free form description of the document.			
M	**C106**		**DOCUMENT/MESSAGE IDENTIFICATION**	**M**	**1**	
			Identification of a document/message by its number and eventually its version or revision.			
	9		**External Notes:**			
			Sender internal message reference number			
M		**1004**	**Document/message number**	**O**		**an..35**
			Reference number assigned to the document/message by the issuer.			
			External Notes:			
			May be the same as UNH.10, or any internal number.			
M	**1225**		**MESSAGE FUNCTION CODE**	**M**	**1**	**an..3**
			Code indicating the function of the message.			
			9 Original			

Legend

1. Segment position in the message structure, segment tag and segment name
2. Identification of the segment group and position within the message
3. Status of the segment, as defined by EDIFACT and GM
4. Description of the function of the segment, as defined by EDIFACT and GM
5. Example of segment as it may appear in an interchange.
6. The Data Element Summary identifies the data elements and details within the segment.
   7. Data element tag – data elements with a ‘C’ denote a Composite Data Element
   8. The Attributes column contain field requirement status, repeat count, data type, and field length
   9. Highlighted lines contain remarks specific to General Motors’ use of the Data Element

MESSAGE STRUCTURE:

The message structure below illustrates how the segments may be used in the DELFOR message to accommodate the requirements identified by General Motors:

UNH Message header	×1 (M)
BGM Beginning of message	×1 (M)
DTM Date/time/period	×10 (M)
Segment Group 2	×99 (C)
NAD Name and address	×1 (M)
Segment Group 6	×999(C) 9
GIS General indicator	×1 (M)
Segment Group 7	×1 (C)
NAD Name and address	×1 (M)
LOC Place/location identification	×10(C)
Segment Group 12	×999(C)
LIN Line item	×1 (M)
PIA Additional Product ID	×10 (C)
Segment Group 13	×10 (C)
RFF Reference	×1 (M)
Segment Group 15	×10 (M)
QTY Quantity	×1 (M)
DTM Date/time/period	×2 (C)
Segment Group 17	×999(C)
SCC Scheduling conditions	×1 (M)
Segment Group 18	×999(C)
QTY Quantity	×1 (M)
DTM Date/time/period	×2 (C)
Segment Group 20	×99 (C)
PAC Package	×1 (M)
QTY Quantity	×5 (C)
UNT Message trailer	×1 (M)

DELFOR Delivery Schedule Message

Introduction:

WARNING! This version of the DELFOR is not upward compatible with versions prior to D96B.
DELFOR is a message which is sent from a party who is planning the use or consumption of products to a party who has to plan for the supply of the products. The message gives the requirements regarding details for short term delivery and/or medium to long scheduling for products. The scheduling can be used to authorize manufacturing and or the provision of materials. This is based on the terms and conditions defined in a purchase order or contract.

Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Group Repeat	Notes and Comments
0005	UNB	Interchange Header	C	1		
0010	UNH	Message Header	M	1		
0020	BGM	Beginning of Message	M	1		
0030	DTM	Date/Time/Period	M	10		
0080		Segment Group 2: NAD	C		99	
0090	NAD	Name and Address	M	1		
0190		Segment Group 6: GIS-SG7-SG12	C		9999	
0200	GIS	General Indicator	M	1		
0210		Segment Group 7: NAD-LOC	C		1	
0220	NAD	Name and Address	M	1		
0230	LOC	Place/Location Identification	C	10		
0370		Segment Group 12: LIN-LOC-SG13-SG15-SG17-SG20	C		9999	
0380	LIN	Line Item	M	1		
0390	PIA	Additional Product ID	C	10		
0480		Segment Group 13: RFF	C		10	
0490	RFF	Reference	M	1		
0540		Segment Group 15: QTY-DTM	C		10	
0550	QTY	Quantity	M	1		
0560	DTM	Date/Time/Period	C	2		
0600		Segment Group 17: SCC-SG18	C		999	
0610	SCC	Scheduling Conditions	M	1		
0620		Segment Group 18: QTY-DTM	C		999	
0630	QTY	Quantity	M	1		
0640	DTM	Date/Time/Period	C	2		
0680		Segment Group 20: PAC-QTY	C		99	
0690	PAC	Package	M	1		
0710	QTY	Quantity	C	5		
1030	UNT	Message Trailer	M	1		

Segment: **UNB** **Interchange Header**
Position: 0005
Group:
Level: 0
Usage: Conditional (Optional)
Max Use: 1
Purpose: To start, identify and specify an interchange
Notes: ***Example:***
UNB+UNOA:1+118335435:01+SUPPLIER COMM CODE:ZZZ+230721:1238+12'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
S001		**SYNTAX IDENTIFIER**	**M**	
		Identification of the agency controlling the syntax and indication of syntax level.		
	0001	**Syntax identifier**	**M**	**a4**
		Coded identification of the agency controlling a syntax and syntax level used in an interchange.		
		UNOA UN/ECE level A		
	0002	**Syntax version number**	**M**	**n1**
		Version number of the syntax identified in the syntax identifier (0001).		
		1 Version 1		
S002		**INTERCHANGE SENDER**	**M**	
		Identification of the sender of the interchange.		
	0004	**Sender identification**	**M**	**an..35**
		Name or coded representation of the sender of a data interchange.		
	0007	**Partner identification code qualifier**	**C**	**an..4**
		Qualifier referring to the source of codes for the identifiers of interchanging partners.		
		01 DUNS (Dun & Bradstreet)		
S003		**INTERCHANGE RECIPIENT**	**M**	
		Identification of the recipient of the interchange.		
	0010	**Recipient identification**	**M**	**an..35**
		Name or coded representation of the recipient of a data interchange.		
		Supplier Comm Code		
	0007	**Partner identification code qualifier**	**C**	**an..4**
		Qualifier referring to the source of codes for the identifiers of interchanging partners.		
		ZZZ Mutually defined		
S004		**DATE AND TIME OF PREPARATION**	**M**	
		Date and time of preparation of the interchange.		
	0017	**Date of preparation**	**M**	**n6**
		Local date when an interchange or a functional group was prepared.		
	0019	**Time of preparation**	**M**	**n4**
		Local time of day when an interchange or a functional group was prepared.		
0020		**INTERCHANGE CONTROL REFERENCE**	**M**	**an..14**
		Unique reference assigned by the sender to an interchange.		

Segment: **UNH** **Message Header**
Position: 0010
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: A service segment starting and uniquely identifying a message. The message type code for the Delivery schedule message is DELFOR.
Note: Delivery schedule messages conforming to this document must contain the following data in segment UNH, composite S009:
Data element 0065 DELFOR 0052 D 0054 97A 0051 UN
Notes: ***Example:***
UNH+12+DELFOR:D:97A:UN'

Data Element Summary

Data Element	Component Element	Name	Req	Des/Repr
0062		**MESSAGE REFERENCE NUMBER**	**M**	**an..14**
		Unique message reference assigned by the sender.		
S009		**MESSAGE IDENTIFIER**	**M**	
		Identification of the type, version etc. of the message being interchanged.		
	0065	**Message type identifier**	**M**	**an..6**
		Code identifying a type of message and assigned by its controlling agency.		
		DELFOR Delivery schedule message		
	0052	**Message type version number**	**M**	**an..3**
		Version number of a message type.		
		D Draft version/UN/EDIFACT Directory		
	0054	**Message type release number**	**M**	**an..3**
		Release number within the current message type version number (0052).		
		97A Release 1997 - A		
	0051	**Controlling agency**	**M**	**an..2**
		Code identifying the agency controlling the specification, maintenance and publication of the message type.		
		UN UN/ECE/TRADE/WP.4		

Segment: **BGM** **Beginning of Message**
Position: 0020
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: A segment for unique identification of the Delivery schedule message by means of its name and its number and its function (original, replacement, change).
Notes: ***NOTE: Suppliers will receive a DELFOR message for each part sourced to the Supplier. Each DELFOR will overwrite the requirements for the previous DELFORs for specific ship to / ship from / material combination. The DELFOR will contain planning as well as firm shipment requirements. Suppliers will NOT receive a DELJIT.***

Example:
BGM+241:::PS+3+4'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
C002		**DOCUMENT/MESSAGE NAME**	**C**	
		Identification of a type of document/message by code or name. Code preferred.		
	1001	**Document/message name, coded**	**C**	**an..3**
		Document/message identifier expressed in code.		
		241 Delivery schedule		
	1000	**Document/message name**	**C**	**an..35**
		Plain language identifier specifying the function of a document/message.		
C106		**DOCUMENT/MESSAGE IDENTIFICATION**	**C**	
		Identification of a document/message by its number and eventually its version or revision.		
	1004	**Document/message number**	**C**	**an..35**
		Reference number assigned to the document/message by the issuer.		
		PS = Planned Shipment		
1225		**MESSAGE FUNCTION, CODED**	**C**	**an..3**
		Code indicating the function of the message.		
		4 Change		

Segment: **DTM** **Date/Time/Period**
Position: 0030
Group:
Level: 1
Usage: Mandatory
Max Use: 10
Purpose: The DTM segment shall be specified at least once to identify the Delivery schedule message date. This segment can be included to indicate the beginning and the end date of the schedule.
Notes: ***Examples:***
DTM+158:20230705:102'
DTM+159:20240405:102'
DTM+137:20230621:102'

Data Element Summary

Data Element	Component Element	Name	Req	Des/Repr
C507		**DATE/TIME/PERIOD**	**M**	
		Date and/or time, or period relevant to the specified date/time/period type.		
	2005	**Date/time/period qualifier**	**M**	**an..3**
		Code giving specific meaning to a date, time or period.		
		137 Document/message date/time		
		158 Horizon start date		
		159 Horizon end date		
	2380	**Date/time/period**	**C**	**an..35**
		The value of a date, a date and time, a time or of a period in a specified representation.		
	2379	**Date/time/period format qualifier**	**C**	**an..3**
		Specification of the representation of a date, a date and time or of a period.		
		102 CCYYMMDD		

Group: **NAD** **Segment Group 2: Name and Address**
Position: 0080
Group:
Level: 1
Usage: Conditional (Optional)
Max Use: 99
Purpose: A group of segments identifying parties by their names, addresses, locations, references and contacts relevant to the whole delivery schedule.

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0090	NAD	Name and Address	M	1	

Segment: **NAD** **Name and Address**
Position: 0090 (Trigger Segment)
Group: Segment Group 2 (Name and Address) Conditional (Optional)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment for identifying names and addresses and their functions relevant for the whole Delivery schedule. The principal parties for the Delivery schedule message shall be identified. The identification of the recipient of the goods must be given in the NAD segment in the detail section. It is recommended that where possible only the coded form of the party ID should be specified.

Notes: ***Examples:***
NAD+SU+999999999::16'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
3035		**PARTY QUALIFIER**	**M**	**an..3**
		Code giving specific meaning to a party.		
		SU Supplier		
C082		**PARTY IDENTIFICATION DETAILS**	**C**	
		Identification of a transaction party by code.		
	3039	**Party id. identification**	**M**	**an..9**
		DUNS number when NAD_01 = SU		
	3055	**Code list responsible agency, coded**	**C**	**an..3**
		Code identifying the agency responsible for a code list.		
		16 DUNS (Dun & Bradstreet)		

Group: **GIS** **Segment Group 6: General Indicator**
Position: 0190
Group:
Level: 1
Usage: Conditional (Optional)
Max Use: 9999
Purpose: A group of segments providing details on delivery points and products and related information using one of both scheduling methods (as described in 1.3 Principles).

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0200	GIS	General Indicator	M	1	
0210		Segment Group 7: Name and Address	C		1
0370		Segment Group 12: Line Item	C		9999

Segment: **GIS** **General Indicator**
Position: 0200 (Trigger Segment)
Group: Segment Group 6 (General Indicator) Conditional (Optional)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment to indicate which method is used by the relevant processing indicator code.

Notes: ***Example:***
GIS+37'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
C529		**PROCESSING INDICATOR**	**M**	
		Type of process indication.		
	7365	**Processing indicator, coded**	**M**	**an..3**
		Identifies the value to be attributed to indicators required by the processing system.		
		37 Complete information		

Group: **NAD** **Segment Group 7: Name and Address**
Position: 0210
Group: Segment Group 6 (General Indicator) Conditional (Optional)
Level: 2
Usage: Conditional (Optional)
Max Use: 1
Purpose: A group of segments needed to identify a delivery point and its attached information when the delivery point method is used.

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0220	NAD	Name and Address	M	1	
0230	LOC	Place/Location Identification	C	10	

Segment: **NAD** **Name and Address**
Position: 0220 (Trigger Segment)
Group: Segment Group 7 (Name and Address) Conditional (Optional)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: A segment for identifying the consignee.
Notes: ***Example:***
NAD+ST+94973::92'
NAD+UD+++ABC CORP222TEST+999 STREET ST+JACKSON+OH+999999999+US'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
3035		**PARTY QUALIFIER** Code giving specific meaning to a party. ST Ship to UD Ultimate customer	**M**	**an..3**
C082		**PARTY IDENTIFICATION DETAILS** Identification of a transaction party by code.	**C**	
	3039	**Party id. identification** Code identifying a party involved in a transaction. ***When ONLY NAD+ST is sent, Element 3039 will contain the code identifying the plant where the material must be delivered. Codes and associated addresses are as follows:*** ***94972 - Milford Proving Ground*** ***3300 General Motors Road, Building 32*** ***Milford, MI 48380*** ***94973 - GM Defense LLC*** ***4540 Fortune Avenue NW*** ***Concord, NC 28027*** ***When NAD+UD is sent, ship to the specific address as sent in elements NAD_04 through NAD_09. This address data must be added to the shipping documentation (packing list and label); however, does NOT need to be returned on the DESADV/ASN.***	**M**	**an..35**
	3055	**Code list responsible agency, coded** Code identifying the agency responsible for a code list. 92 Assigned by buyer or buyer's agent	**C**	**an..3**
C080		**PARTY NAME** Identification of a transaction party by name, one to five lines. Party name may be formatted.	**C**	
	3036	**Party name** Name of a party involved in a transaction.	**M**	**an..35**
C059		**STREET** Street address and/or PO Box number in a structured address: one to three lines.	**C**	
	3042	**Street and number/p.o. box** Street and number in plain language, or Post Office Box No.	**M**	**an..35**
3164		**CITY NAME** Name of a city (a town, a village) for addressing purposes.	**C**	**an..35**
3229		**COUNTRY SUB-ENTITY IDENTIFICATION**	**C**	**an..9**

Identification of the name of sub-entities (state, province) defined by appropriate governmental agencies.

3251	**POSTCODE IDENTIFICATION**	**C**	**an..9**

Code defining postal zones or addresses.

3207	**COUNTRY, CODED**	**C**	**an..3**

Identification of the name of a country or other geographical entity as specified in ISO 3166.

Segment: **LOC** **Place/Location Identification**
Position: 0230
Group: Segment Group 7 (Name and Address) Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max Use: 10
Purpose: A segment identifying a specific location at the consignee address (e.g. dock, gate,..) to which product, as specified in the LIN-Segment groups, should be delivered.
Notes: ***NOTE: If location information is sent, it must be returned in the DESADV.***

Examples:
LOC+11+A01'
LOC+159+FSTCRT5'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
3227		**PLACE/LOCATION QUALIFIER**	**M**	**an..3**
		Code identifying the function of a location.		
		11 Place/port of discharge ***Dock Code***		
		159 Additional internal destination ***Interior Storage Location***		
C517		**LOCATION IDENTIFICATION**	**C**	
		Identification of a location by code or name.		
	3225	**Place/location identification**	**C**	**an..25**
		Identification of the name of place/location, other than 3164 City name.		

Group: **LIN** **Segment Group 12: Line Item**
Position: 0370
Group: Segment Group 6 (General Indicator) Conditional (Optional)
Level: 2
Usage: Conditional (Optional)
Max Use: 9999
Purpose: A group of segments providing details of the individual line items for both methods.

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0380	LIN	Line Item	M	1	
0390	PIA	Additional Product ID	C	10	
0480		Segment Group 13: Reference	C		10
0540		Segment Group 15: Quantity	C		10
0600		Segment Group 17: Scheduling Conditions	C		999
0680		Segment Group 20: Package	C		99

Segment: **LIN** **Line Item**
Position: 0380 (Trigger Segment)
Group: Segment Group 12 (Line Item) Conditional (Optional)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: A segment identifying the details of the product or service to be delivered, e.g. product identification. All other segments in the detail section following the LIN segment refer to the line item.
Notes: ***Example:***
LIN+++11588712:IN'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
C212		**ITEM NUMBER IDENTIFICATION**	**C**	
		Goods identification for a specified source.		
	7140	**Item number**	**C**	**an..35**
		A number allocated to a group or item.		
	7143	**Item number type, coded**	**C**	**an..3**
		Identification of the type of item number.		
		IN Buyer's item number		

Segment: **PIA** **Additional Product Id**
Position: 0390
Group: Segment Group 12 (Line Item) Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max Use: 10
Purpose: A segment providing additional product identification.
Notes: ***NOTE: PIA Segment reserved for future use. When sent in the DELFOR, value is to be returned in the DESADV exactly as received.***

Example:
PIA+1+3:RY'

Data Element Summary

Data Element	Component Element	Name	Req	Des/Repr
4347		**PRODUCT ID. FUNCTION QUALIFIER**	**M**	**an..3**
		Indication of the function of the product code.		
		1 Additional identification		
C212		**ITEM NUMBER IDENTIFICATION**	**M**	
		Goods identification for a specified source.		
	7140	**Item number**	**C**	**an..35**
		A number allocated to a group or item.		
		Identification of the model year; e.g. 3 = 2023; 4 = 2024, etc.		
	7143	**Item number type, coded**	**C**	**an..3**
		Identification of the type of item number.		
		RY Record keeping of model year		

Group: **RFF** **Segment Group 13: Reference**
Position: 0480
Group: Segment Group 12 (Line Item) Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max Use: 10
Purpose: A group of segments giving references related to the line item and where necessary, their dates.

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0490	RFF	Reference	M	1	

Segment: **RFF** **Reference**
Position: 0490 (Trigger Segment)
Group: Segment Group 13 (Reference) Conditional (Optional)
Level: 3
Usage: Mandatory
Max Use: 1
Purpose: A segment for identifying references to the line item, e.g. a contract and its appropriate line item, original message number, previous message number if different per line item.
Notes: ***All RFF information sent is required to be returned on the DESADV.***

Examples:
RFF+ON:USDEL01S01'
RFF+RE:3'
RFF+LI:00020'

Data Element Summary

Data Element	Component Element	Name	Req	Des/Repr
C506		**REFERENCE**	**M**	
		Identification of a reference.		
	1153	**Reference qualifier**	**M**	**an..3**
		Code giving specific meaning to a reference segment or a reference number.		
		LI Line item reference number		
		ON Order number (purchase)		
		RE Release number		
	1154	**Reference number**	**C**	**an..35**
		Identification number the nature and function of which can be qualified by an entry in data element 1153 Reference qualifier.		

Group: **QTY** **Segment Group 15: Quantity**
Position: 0540
Group: Segment Group 12 (Line Item) Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max Use: 10
Purpose: A group of segments specifying product quantities and associated dates not related to schedules and where relevant, references.

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0550	QTY	Quantity	M	1	

Segment: **QTY** **Quantity**
Position: 0550 (Trigger Segment)
Group: Segment Group 15 (Quantity) Conditional (Optional)
Level: 3
Usage: Mandatory
Max Use: 1
Purpose: A segment to specify pertinent quantities not related to schedule(s) e.g. cumulative quantity, last quantity considered.
Notes: ***Examples:***
QTY+70:100:EA'
QTY+71:150:EA'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
C186		**QUANTITY DETAILS**	**M**	
		Quantity information in a transaction, qualified when relevant.		
	6063	**Quantity qualifier**	**M**	**an..3**
		Code giving specific meaning to a quantity.		
		70 Cumulative quantity received		
		71 Cumulative quantity ordered		
	6060	**Quantity**	**M**	**n..15**
		Numeric value of a quantity.		
	6411	**Measure unit qualifier**	**C**	**an..3**
		Indication of the unit of measurement in which weight (mass), capacity, length, area, volume or other quantity is expressed. ***Please see the Unit of Measure Appendix for applicable qualifiers.***		

Segment: **DTM** **Date/Time/Period**
Position: 0560
Group: Segment Group 15 (Quantity) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 2
Purpose: A segment indicating the date/time/period details relating to the quantity.

Notes: ***Example:***
DTM+137:20231011:102'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
C507		**DATE/TIME/PERIOD**	**M**	
		Date and/or time, or period relevant to the specified date/time/period type.		
	2005	**Date/time/period qualifier**	**M**	**an..3**
		Code giving specific meaning to a date, time or period.		
		137 Document/message date/time		
	2380	**Date/time/period**	**C**	**an..35**
		The value of a date, a date and time, a time or of a period in a specified representation.		
	2379	**Date/time/period format qualifier**	**C**	**an..3**
		Specification of the representation of a date, a date and time or of a period.		
		102 CCYYMMDD		

Group: **SCC** **Segment Group 17: Scheduling Conditions**
Position: 0600
Group: Segment Group 12 (Line Item) Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max Use: 999
Purpose: A group of segments specifying the schedule information for the product identified in the LIN segment. With the delivery point driven method this segment group provides the schedule for the identified delivery point and product.

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0610	SCC	Scheduling Conditions	M	1	
0620		Segment Group 18: Quantity	C		999

Segment: **SCC** **Scheduling Conditions**
Position: 0610 (Trigger Segment)
Group: Segment Group 17 (Scheduling Conditions) Conditional (Optional)
Level: 3
Usage: Mandatory
Max Use: 1
Purpose: A segment specifying the status of the schedule. Optionally a delivery pattern can be established, e.g. firm or proposed delivery pattern.

Notes: ***Examples:***
SCC+1++D'
SCC+4++D'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
4017		**DELIVERY PLAN STATUS INDICATOR, CODED**	**M**	**an..3**
		Code indicating the level of commitment of schedule information.		
		1 Firm		
		4 Planning/forecast		
C329		**PATTERN DESCRIPTION**	**C**	
		Shipment, delivery or production interval pattern and timing.		
	2013	**Frequency, coded**	**C**	**an..3**
		Code specifying interval grouping of the delivery, production, etc. of the schedule.		
		D Discrete		
		M Monthly (calendar months)		
		W Weekly		

Group: **QTY** **Segment Group 18: Quantity**
Position: 0620
Group: Segment Group 17 (Scheduling Conditions) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 999
Purpose: A group of segments specifying product quantities and associated dates.

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0630	QTY	Quantity	M	1	
0640	DTM	Date/Time/Period	C	2	

Segment: **QTY** **Quantity**
Position: 0630 (Trigger Segment)
Group: Segment Group 18 (Quantity) Conditional (Optional)
Level: 4
Usage: Mandatory
Max Use: 1
Purpose: A segment to specify scheduled quantities which may be related to schedule(s) and, or pattern established in the following DTM segment, e.g. delivery quantity for a specified date.
Notes: ***Example:***
QTY+1:10:EA'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
C186		**QUANTITY DETAILS** Quantity information in a transaction, qualified when relevant.	**M**	
	6063	**Quantity qualifier** Code giving specific meaning to a quantity. 1 Discrete quantity	**M**	**an..3**
	6060	**Quantity** Numeric value of a quantity. ***Any past due quantities will be incorporated in the first firm order quantity in the DELFOR.***	**M**	**n..15**
	6411	**Measure unit qualifier** Indication of the unit of measurement in which weight (mass), capacity, length, area, volume or other quantity is expressed. ***Please see the Unit of Measure Appendix for applicable qualifiers.***	**C**	**an..3**

Segment: **DTM** **Date/Time/Period**
Position: 0640
Group: Segment Group 18 (Quantity) Conditional (Optional)
Level: 5
Usage: Conditional (Optional)
Max Use: 2
Purpose: A segment indicating date/time/period details relating to the given quantity.

Notes: ***Example:***
DTM+10:202307061200:203'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
C507		**DATE/TIME/PERIOD**	**M**	
		Date and/or time, or period relevant to the specified date/time/period type.		
	2005	**Date/time/period qualifier**	**M**	**an..3**
		Code giving specific meaning to a date, time or period.		
		10 Shipment date/time, requested		
	2380	**Date/time/period**	**C**	**an..35**
		The value of a date, a date and time, a time or of a period in a specified representation.		
	2379	**Date/time/period format qualifier**	**C**	**an..3**
		Specification of the representation of a date, a date and time or of a period.		
		203 CCYYMMDDHHMM		

Group: **PAC** **Segment Group 20: Package**
Position: 0680
Group: Segment Group 12 (Line Item) Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max Use: 99
Purpose: A group of segments identifying the packaging, physical dimensions, and marks and numbers for goods referenced in the line item to be delivered.

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0690	PAC	Package	M	1	
0710	QTY	Quantity	C	5	

Segment: **PAC** **Package**
Position: 0690 (Trigger Segment)
Group: Segment Group 20 (Package) Conditional (Optional)
Level: 3
Usage: Mandatory
Max Use: 1
Purpose: A segment specifying the number of package units and the type of packaging for the line item, e.g. pallet.
Notes: ***NOTE: Package type and quantity are required to be returned on the DESADV.***

Example:
PAC+++CT090905'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
C202		**PACKAGE TYPE**	**C**	
		Type of package by name or by code from a specified source.		
	7065	**Type of packages identification**	**C**	**an..17**
		Coded description of the form in which goods are presented.		

Segment: **QTY** **Quantity**
Position: 0710
Group: Segment Group 20 (Package) Conditional (Optional)
Level: 4
Usage: Conditional (Optional)
Max Use: 5
Purpose: A segment to specify pertinent quantities relating to the physical units (packages) described in the PAC segment.
Notes: ***Example:***
QTY+52:22:EA'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
C186		**QUANTITY DETAILS**	**M**	
		Quantity information in a transaction, qualified when relevant.		
	6063	**Quantity qualifier**	**M**	**an..3**
		Code giving specific meaning to a quantity.		
		52 Quantity per pack		
	6060	**Quantity**	**M**	**n..15**
		Numeric value of a quantity.		
	6411	**Measure unit qualifier**	**C**	**an..3**
		Indication of the unit of measurement in which weight (mass), capacity, length, area, volume or other quantity is expressed. ***Please see the Unit of Measure Appendix for applicable qualifiers.***		

Segment: **UNT** **Message Trailer**
Position: 1030
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: A service segment ending a message, giving the total number of segments in the message and the control reference number of the message.
Notes: ***Example:***
UNT+42+12'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
0074		**NUMBER OF SEGMENTS IN A MESSAGE**	**M**	**n..6**
		Control count of number of segments in a message.		
0062		**MESSAGE REFERENCE NUMBER**	**M**	**an..14**
		Unique message reference assigned by the sender.		

MESSAGE EXAMPLE:

The following examples are illustrative only and does not necessarily reflect an existing solution. It may never be used as a basis for programming or implementing this message.

GM DELFOR Sample Message Structure:

UNB+UNOA:1+118335435:01+SUPPLIER COMM CODE:ZZZ+230721:1238+12'	Interchange Header
UNH+12+DELFOR:D:97A:UN'	Message Header
BGM+241:::PS+3+4'	Beginning of Message (Release Number)
DTM+158:20230705:102'	Horizon Start Date
DTM+159:20240405:102'	Horizon End Date
DTM+137:20230621:102'	Document Date / Time
SEGMENT GROUP 2	
NAD+SU+999999999::16'	Supplier
SEGMENT GROUP 6	
GIS+37'	General Indicator
SEGMENT GROUP 7	
NAD+ST+94973::92'	Ship To
LOC+11+A01'	Dock Code
LOC+159+FSTCRT5'	Interior Storage Location
SEGMENT GROUP 6	
GIS+37'	General Indicator
SEGMENT GROUP 7	
NAD+UD+++ABC CORP222TEST+999 STREET ST+JACKSON+OH+999999999+US'	Full Ship to Address
SEGMENT GROUP 12	
LIN+++11588712:IN'	Line Item (Part Number)
PIA+1+3:RY’	Additional Product ID
SEGMENT GROUP 13	
RFF+ON:USDEL01S01'	Order Number
RFF+RE:3'	Release Number
RFF+LI:00020'	Line Item Reference Number
SEGMENT GROUP 15	
QTY+70:100:EA'	Cumulative Quantity Ordered
DTM+137:20231011:102'	Date/Time
QTY+71:150:EA'	Cumulative Quantity Received
SEGMENT GROUP 17	
SCC+1++D'	Scheduling Conditions
SEGMENT GROUP 18	
QTY+1:10:EA'	Quantity
DTM+10:202307061200:203'	Date/Time
SEGMENT GROUP 20	
PAC+++CT090905'	Package Information
QTY+52:22:EA'	Quantity Per Pack
UNT+42+12'	

UNIT OF MEASURE APPENDIX:

The list below contains the most commonly used Units of Measure. Suppliers are expected to return the same units of measure as received on the DELFOR messages.

Unit of Measure Codes:

Code	Measurement Unit Text
CMQ	Cubic centimeter
CMT	Centimeter
DRM	Drum
EA	each
FOT	Foot
GRM	Gram
GLL	US Gallon
KGM	Kilogram
LTR	Liter
LBR	Pound
MTR	Meter
MTK	Square meter
MTQ	Cubic meter
MGM	Milligram
MLT	Milliliter
MMT	Millimeter
MMK	Square millimeter
MMQ	Cubic millimeter
ONZ	Ounce
PK	Pack
STN	Ton
YRD	Yard

DELFOR GUIDELINE CHANGE LOG:

Date	Document Version	Segments Impacted	Detail of Change
2-26-24	1.0		Version 1.0 published