GENERAL MOTORS

EDIFACT IMPLEMENTATION GUIDELINES

FOR

DELFOR MESSAGE

General Motors Customer Care & Aftersales (CCA)

Materials Management & Carton Procurement

EDIFACT IMPLEMENTATION GUIDELINES

Table of Contents

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 Customer Care & Aftersales (CCA) 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 CCA 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 CCA to a GM CCA Supplier giving details for both short and long-term material requirements in line with the conditions set out in the purchase contract.

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

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)

(8)

	Data Element	Component Element	Name	Attributes	
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.		
			External Notes:		
(9) M			*Sender internal message reference number*		
		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:

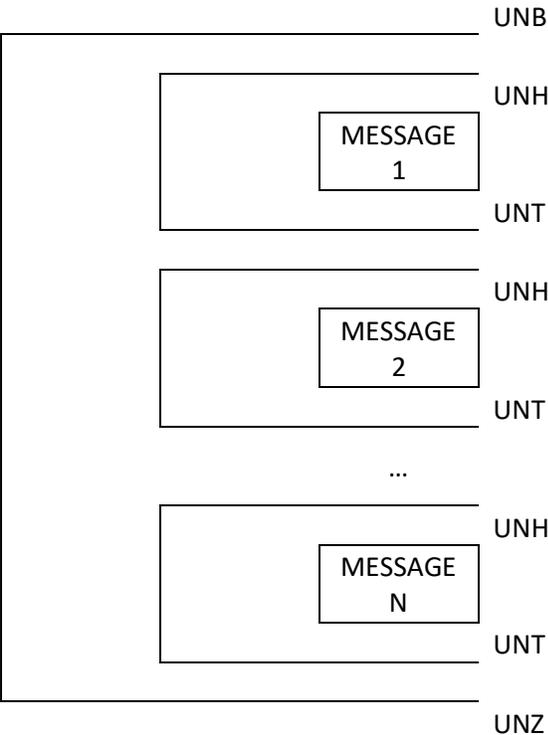| Segment	Occurrence
├─UNH Message header	×1 (M)
├─BGM Beginning of message	×1 (M)
├─DTM Date/time/period	×10 (M)
├─FTX Free Text	×5 (C)
├─**Segment Group 2**	×99 (C)
│ ─├─NAD Name and address	×1 (M)
├─**Segment Group 4**	×5(C)
│ ─├─CTA Contact Information	×1 (M)
│ ─├─COM Communication Contact	×5(C)
│ ─├─**Segment Group 6**	×9999 (C)
│ ─│ ─├─GIS General Indicator	×1 (M)
│ ─└─**Segment Group 7**	×1 (C)
│ ──├─NAD Name and Address	×1 (M)
│ ─└─**Segment Group 12**	×9999 (C)
│ ──├─LIN Line Item	×1 (M)
│ ──├─PIA Additional Product ID	×10 (C)
│ ──├─LOC Place / Location ID	×999 (C)
│ ──├─**Segment Group 13**	×10 (C)
│ ──│ ─├─RFF Reference	×1 (M)
│ ──├─**Segment Group 14**	×10 (C)
│ ──│ ─├─TDT Details of Transport	×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)
└─UNT Message trailer	×1 (M)

SERVICE SEGMENTS DESCRIPTION:

The following segments are as defined by EDIFACT.

The UNB, UNH, UNT, and UNZ segments are the envelope of any message, enclosing all the data that is being transmitted.

The UNB (Interchange Header) and UNZ (Interchange Trailer) segments mark respectively the beginning and the end of an interchange thereby providing a unique interchange control reference.

Within the interchange, the UNH (Message Header) and UNT (Message Trailer) segments uniquely begin and end the various messages contained in an interchange.

UNB
UNH
┌──────────────┐
│ MESSAGE 1   │
└──────────────┘
UNT

UNH
┌──────────────┐
│ MESSAGE 2   │
└──────────────┘
UNT

…

UNH
┌──────────────┐
│ MESSAGE N   │
└──────────────┘
UNT

UNZ

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	M	1		
0010	UNH	Message Header	M	1		
0020	BGM	Beginning of Message	M	1		
0030	DTM	Date/Time/Period	M	10		
0040	FTX	Free Text	C	5		
0080		Segment Group 2: NAD-SG4	C		99	
0090	NAD	Name and Address	M	1		
0130		Segment Group 4: CTA-COM	C		5	
0140	CTA	Contact Information	M	1		
0150	COM	Communication Contact	C	5		
0190		Segment Group 6: GIS-SG7-SG12	C		9999	
0200	GIS	General Indicator	M	1		
0210		Segment Group 7: NAD	C		1	
0220	NAD	Name and Address	M	1		
0370		Segment Group 12: LIN-PIA-LOC-SG13-SG14-SG15-SG17	C		9999	
0380	LIN	Line Item	M	1		
0390	PIA	Additional Product Id	C	10		
0450	LOC	Place/Location Identification	C	999		
0480		Segment Group 13: RFF	C		10	
0490	RFF	Reference	M	1		
0510		Segment Group 14: TDT	C		10	
0520	TDT	Details of Transport	M	1		
0540		Segment Group 15: QTY-DTM	M		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		
1030	UNT	Message Trailer	M	1		

Segment:	**UNB** Interchange Header
Position:	0005
Group:	
Level:	0
Usage:	Mandatory
Max Use:	1
Purpose:	To start, identify and specify an interchange
Notes:	*Example:*

UNB+UNOA:2+PAF:ZZ+ABC:ZZ+240605:1031+7638++GMDELFOR'

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).		
		2 — Version 2		
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.		
		ZZ — Mutually defined		
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.		
	0007	**Partner identification code qualifier**	C	an..4
		Qualifier referring to the source of codes for the identifiers of interchanging partners.		
		ZZ — 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.		
		The ICR number is unique and should be sequential.		
0026		**APPLICATION REFERENCE**	C	an..14
		Identification of the application area assigned by the sender, to which the messages in the interchange relate e.g. the message identifier if all the messages in the interchange are of the same type.		
		GMDELFOR		

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+7638001+DELFOR:D:97A:UN'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
0062		**MESSAGE REFERENCE NUMBER**	M	an..14
		Unique message reference assigned by the sender.		
		Must match the message reference number in the UNT.		
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:	*Example:* *BGM+241:::SH+0000259888+5'*

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.		
		GM CCA will send the following: *SH - Shipment Based - No calculation required by receiver.*		
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.		
		MATERIALS Supplier - GM Release Number *CARTONS Supplier - GM Order Number*		
	1225	**MESSAGE FUNCTION, CODED**	**C**	**an..3**
		Code indicating the function of the message.		
	5	Replace		
		The requirements established in this message supersede any previously established requirements which fall within the horizons of this message.		

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:

MATERIALS Suppliers: Three iterations of the DTM will be transmitted:

DTM+137:202406041031:203'
DTM+158:20240604:102'
DTM+159:20240821:102'

CARTON Suppliers: Two iterations of the DTM will be transmitted:

DTM+137:202407120800:203'
DTM+158:20240712:102'

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	
		158	Horizon start date	
			Contract Start Date	
		159	Horizon end date	
			Contract Stop 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	
		203	CCYYMMDDHHMM	

Segment:	**FTX** Free Text
Position:	0040
Group:	
Level:	1
Usage:	Conditional (Optional)
Max Use:	5
Purpose:	A segment with free text in coded or clear form to give further clarification when required. In computer to computer exchanges such text will normally require the receiver to process this segment manually.

Notes:	*MATERIALS Suppliers - Segment is Conditional*
	CARTON Suppliers - Segment is not used.
	Example:
	FTX+AAI+++HOLIDAY SHUTDOWN WILL BEGIN 12-23'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
4451		**TEXT SUBJECT QUALIFIER**	M	an..3
		Code specifying subject of a free text.		
		AAI General information		
C108		**TEXT LITERAL**	C	
		Free text; one to five lines.		
	4440	**Free text**	M	an..70
		Free text field available to the message sender for information.		

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 selivery schedule.

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0090	NAD	Name and Address	M	1	
0130		Segment Group 4: Contact Information	C		5

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+MI+17501::92'
	NAD+SU+837608728::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.		
	MI	Planning schedule/material release issuer		
		GM CCA US - 17501		
		GM CCA Canada - 14502		
	SU	Supplier		
C082		**PARTY IDENTIFICATION DETAILS**	**C**	
		Identification of a transaction party by code.		
	3039	**Party id. identification**	**M**	**an..35**
		Code identifying a party involved in a transaction.		
	3055	**Code list responsible agency, coded**	**C**	**an..3**
		Code identifying the agency responsible for a code list.		
	16	DUNS (Dun & Bradstreet)		
	92	Assigned by buyer or buyer's agent		
		Qualifier 92 indicates CISCO Code		

Group: **CTA** Segment Group 4: Contact Information

Position:	0130
Group:	Segment Group 2 (Name and Address) Conditional (Optional)
Level:	2
Usage:	Conditional (Optional)
Max Use:	5
Purpose:	A group of segments to identify person, function, or department and appropriate numbers to whom communication should be directed.

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0140	CTA	Contact Information	M	1	
0150	COM	Communication Contact	C	5	

Segment:	**CTA** Contact Information
Position:	0140 (Trigger Segment)
Group:	Segment Group 4 (Contact Information) Conditional (Optional)
Level:	2
Usage:	Mandatory
Max Use:	1
Purpose:	A segment to identify the person, function, or department to whom communication should be directed.
Notes:	*Example:* *CTA+IC+:MULTI PLT MULTI PLANTS'*

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
3139		**CONTACT FUNCTION, CODED**	C	**an..3**
		Code specifying the function of a contact (e.g. department or person).		
	IC	Information contact		
C056		**DEPARTMENT OR EMPLOYEE DETAILS**	C	
		Code and/or name of a department or employee. Code preferred.		
	3412	**Department or employee**	C	**an..35**
		The department or person within an organizational entity.		

Segment:	**COM** Communication Contact
Position:	0150
Group:	Segment Group 4 (Contact Information) Conditional (Optional)
Level:	3
Usage:	Conditional (Optional)
Max Use:	5
Purpose:	A segment identifying communication types and numbers for the person, function, or department identified in the CTA segment.

Notes: *MATERIALS Suppliers - Segment is Conditional*
CARTON Suppliers - do not use this segment.

Example:
COM+8109991234:TE'

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
C076		**COMMUNICATION CONTACT**	**M**	
		Communication number of a department or employee in a specified channel.		
	3148	**Communication number**	**M**	**an..512**
		The communication number.		
	3155	**Communication channel qualifier**	**M**	**an..3**
		Code identifying the type of communication channel being used.		
		TE Telephone		

	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	

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:	*Materials Example:* *NAD+ST+17500::92'* *Cartons Example:* *NAD+ST+17500::92* *CARTONS SUPPLIERS: The '17500' denotes GM CCA as a division. The DELJIT transaction will specify the actual CCA warehouse, ship to location.*	

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.		
	ST	Ship to		
		This will be the DESTINATION Code.		
C082		**PARTY IDENTIFICATION DETAILS**	**C**	
		Identification of a transaction party by code.		
	3039	**Party id. identification**	**M**	**an..35**
		Code identifying a party involved in a transaction.		
	3055	**Code list responsible agency, coded**	**C**	**an..3**
		Code identifying the agency responsible for a code list.		
	16	DUNS (Dun & Bradstreet)		
	92	Assigned by buyer or buyer's agent		

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	
0450	LOC	Place/Location Identification	C	999	
0480		Segment Group 13: Reference	C		10
0510		Segment Group 14: Details of Transport	C		10
0540		Segment Group 15: Quantity	M		10
0600		Segment Group 17: Scheduling Conditions	C		999

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:	*MATERIALS Supplier Example:* *LIN+++12345678:IN'* *CARTON Supplier Example:* *LIN+++0B042264: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.		
		GM CCA Part Number		
	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: Materials Suppliers will receive additional product information in the PIA Segment. Carton Suppliers will not use this segment.*	
	Example:	
	PIA+1+A3576:SA+123456754321:UP'	

Data Element Summary

Data Attributes 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.		
	7143	**Item number type, coded**	C	an..3
		Identification of the type of item number.		
		SA Supplier's article number		
		UP UPC (Universal product code)		
C212		**ITEM NUMBER IDENTIFICATION**	C	
		Goods identification for a specified source.		
		Subsequent iterations of the Composite Element C212 cannot repeat values previously used in 7143.		
	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.		
		SA Supplier's article number		
		UP UPC (Universal product code)		

Segment:	**LOC** Place/Location Identification

Position: 0450
Group: Segment Group 12 (Line Item)   Conditional (Optional)
Level: 3
Usage: Conditional (Optional)
Max Use: 999
Purpose: A segment identifying a specific location to which products, as specified in the LIN-Segment group, should be placed after delivery.   This function should only be used with the delivery point driven method.
Notes: *NOTE: Materials Suppliers may receive information in the LOC Segment. Carton Suppliers do not use this segment.*

Examples:
LOC+11+3'
LOC+159+AB1'

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		
		Receiving Dock		
	159	Additional internal destination		
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: **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:	*Material Suppliers - Two iterations of this segment will be transmitted.*

Examples:
RFF+ON:CZ80771'
RFF+RE:24'

Carton Suppliers Example:
RFF+ON:CZ44357'

Data Element Summary

Data Attributes 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.		
		ON Order number (purchase)		
		RE Release number		
		Release number assigned at the part number level.		
	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:	**TDT** Segment Group 14: Details of Transport
Position:	0510
Group:	Segment Group 12 (Line Item) Conditional (Optional)
Level:	3
Usage:	Conditional (Optional)
Max Use:	10
Purpose:	A group of segments specifying details of the mode and means of transport, and date/time/period related to the specified transport details. When using the delivery point method this segment group overrides for the product identified in the LIN segment the information specified in segment group 11 .

Segment Summary

Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
0520	TDT	Details of Transport	M	1	

Segment:	**TDT** Details of Transport
Position:	0520 (Trigger Segment)
Group:	Segment Group 14 (Details of Transport) Conditional (Optional)
Level:	3
Usage:	Mandatory
Max Use:	1
Purpose:	A segment specifying the carriage, and the mode and means of transport of the goods for the specified location.
Notes:	*NOTE: Materials Suppliers will receive the TDT Segment only when the means of transport is identified. Carton Suppliers will not use this segment.* *Example:* *TDT+20+++6'*

Data Element Summary

Data Attributes Element	Component Element	Name	Req	Des/Repr
8051		**TRANSPORT STAGE QUALIFIER**	**M**	**an..3**
		Qualifier giving a specific meaning to the transport details.		
		20 Main-carriage transport		
C228		**TRANSPORT MEANS**	**C**	
		Code and/or name identifying the type of means of transport.		
	8179	**Type of means of transport identification**	**C**	**an..8**
		Code defining the type of the means of transport being utilized.		
		6 Aircraft		
		11 Ship		

Group: **QTY** **Segment Group 15: Quantity**

Position:	0540
Group:	Segment Group 12 (Line Item) Conditional (Optional)
Level:	3
Usage:	Mandatory
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	
0560	DTM	Date/Time/Period	C	2	

Segment:	**QTY** Quantity
Position:	0550 (Trigger Segment)
Group:	Segment Group 15 (Quantity) Mandatory
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:	*NOTE: Materials Suppliers will receive 2 iterations of the QTY Segment, for CUM quantity shipped and CUM quantity ordered. Carton Suppliers will not use this segment.*

Examples:
QTY+79:20:C62'
QTY+3+20:C62'

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.		
		1 Discrete quantity		
		3 Cumulative quantity		
		CUM quantity shipped.		
		79 Previous cumulative quantity		
		CUM 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.		
		May be omitted when unit of measure is piece, each, or unit.		
		Refer to UN/ECE Trade Recommendation 20 for units of measure codes.		

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

Notes:	*NOTE: Materials Suppliers will receive 4 iterations of the DTM Segment; Start and end dates for CUM quantity shipped and CUM quantity ordered. Carton Suppliers will not use this segment.* *Examples:* *DTM+52:20240723:102'* *DTM+51:20240315:102'*

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.		
		51　　　　　　Cumulative quantity start date		
		52　　　　　　Cumulative quantity 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		

	SCC Segment Group 17: Scheduling Conditions	
Group:		
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 methd this segment group provides the schedule for the identified delivery point and product. With the product driven method this segment group can be used to summarise all schedules provided with the subsequent delivery point information given in segment group 22.	

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: *Materials Suppliers: Up to 17 WEEKLY iterations of the SCC segment (forecast schedule) will be provided. The first iteration will contain the requirements from the Monday BEFORE the horizon start date (Past due quantity).*

Forecast Example:
SCC+1++W:10'

In addition to the 17 week iterations, specific suppliers will also receive 8 MONTHLY iterations.

Forecast Example:
SCC+4++M:10'

Commitment Example:
SCC+2'

Carton Suppliers: You will receive 1 iteration per transmission.

Example:
SCC+2'

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		
	2	Commitment for manufacturing and material		
	3	Commitment for material		
	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		
	2015	**Despatch pattern, coded**	C	an..3
		Code specifying the days/periods for routine shipments or deliveries.		
	10	Monday through Friday		
	13	Monday		
	14	Tuesday		
	15	Wednesday		
	16	Thursday		
	17	Friday		

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:	*Materials Suppliers: 3 iterations of the QTY segment will be transmitted; forecast quantity, CUM finished quantity, and CUM material authorization quantity.*
	Examples:
	QTY+1:750
	QTY+3:1500'
	Carton Suppliers: 1 iteration of the QTY segment will be transmitted for the firm forecast quantity.
	Example:
	QTY+1:750:C62'

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.		
		1 Discrete quantity		
		3 Cumulative quantity		
	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.		
		May be omitted when unit of measure is piece, each, or unit.		
		Refer to UN/ECE Trade Recommendation 20 for unit of measure codes.		

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:	*Material Suppliers: Five iterations of the DTM will be transmitted; Forecast ship date, CUM quantity shipped start & end dates, and CUM quantity ordered start & end dates.*
	Examples:
	DTM+10:20240517:102'
	DTM+51:20240517:102'
	Carton suppliers will not use this segment.

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		
		51 Cumulative quantity start date		
		52 Cumulative quantity 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		

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+90+7638001'*

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.		
		Must match the message reference number in the UNH.		

MESSAGE EXAMPLES:

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.
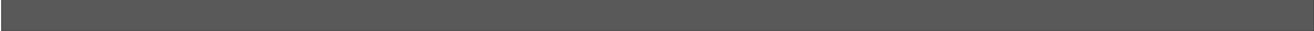
GM CCA MATERIALS DELFOR Sample Message Structure:

UNB+UNOA:2+PAF:ZZ+ABC:ZZ+240605:1031+7638++GMDELFOR'	Interchange Header
UNH+7638001+DELFOR:D:97A:UN'	Message Header
BGM+241:::SH+0000259888+5'	Beginning of Message (Release Number)
DTM+137:202406041031:203'	Document Message Date/Time
DTM+158:20240604:102'	Document Date/Time – Contract Start Date
DTM+158:20240821:102'	Document Date/Time – Contract End Date
FTX+AAI+++HOLIDAY SHUTDOWN WILL BEGIN 12-23'	Free Text
NAD+MI+17501::92'	Material Issuer
CTA+IC+:MULTI PLT MULTI PLANTS'	Information Contact
COM+8109991234:TE'	Communication Contact
NAD+SU+837608728::16'	Supplier
GIS+37'	General Indicator
NAD+ST+17500::92'	Ship To / Destination Code
LIN+++12345678:IN'	Part Number
PIA+1+A3576:SA+123456754321:UP'	Additional Product ID
RFF+ON:CZ80771'	Order Number
RFF+RE:24'	Release Number
TDT+20+++6'	Details of Transport
QTY+79:20:C62'	CUM Quantity Ordered
DTM+52:20240723:102'	Cumulative Quantity End Date
DTM+51:20240315:102'	Cumulative Quantity Start Date
QTY+3:20:C62'	CUM Quantity Shipped
DTM+51:20231223:102'	Cumulative Quantity Start Date
DTM+52:20240712:102'	Cumulative Quantity End Date
SCC+1++W:10'	Scheduling Conditions
QTY+1:0:C62'	Quantity
DTM+10:20240708:102'	Shipment date/time, requested
SCC+2'	Scheduling Conditions
QTY+1:108:C62'	Quantity
DTM+10:20240819:102'	Shipment date/time, requested
UNT+14+7638001'	Message Trailer
UNZ+1+7638'	

GM CCA CARTON DELFOR Sample Message Structure:

UNB+UNOA:2+PAF:ZZ+ABC:ZZ+240715:0800+32082++GMDELFOR'	Interchange Header
UNH+32082001+DELFOR:D:97A:UN'	Message Header
BGM+241:::SH+0000260245+5'	Beginning of Message (Release Number)
DTM+137:202407120800:203'	Document Message Date/Time
DTM+158:20240712:102'	Document Date/Time – Contract Start Date
NAD+MI+17501::92'	Material Issuer
CTA+IC+:MULTI PLT MULTI PLANTS'	Information Contact
NAD+SU+624167839::16'	Supplier
GIS+37'	General Indicator
NAD+ST+17500::92'	Ship To / Destination Code
LIN+++0B042264:IN'	Part Number
RFF+ON:CZ44357'	Order Number
SCC+2'	Scheduling Conditions
QTY+1:324:C62'	Quantity
UNT+14+32082001'	Message Trailer
UNZ+1+32082'	

DELFOR GUIDELINE CHANGE LOG:

Date	Document Version	Segments Impacted	Detail of Change
2-3-12	1.0		Version 1.0 published
7-18-24	1.1		Guideline format updates – no change to segments.