



SANMINA CORPORATION

EDI OUTBOUND DELFOR MESSAGE WITH EMBEDDED RELEASE

VERSION: EDIFICE D97A

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Trading Partner:	All EDI Suppliers
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DOCUMENT REVISION

Revision No.	Date	Person(s) Responsible	Comments
1	06-Feb-02	Iain Wyper	Original document
2	17-Nov-09	Tammy Fleet	Removed references to trading partner ids which are no longer active.
3	03-Oct-11	Tammy Fleet	Added Blanket PO release number for RTF process.
4	01-Mar-13	Tammy Fleet	Updated the Sanmina name and logo.
5	17-Apr-20	D Smythe	Update Logo, minor corrections

DELFOR

Forecast With Embedded Release

A message which is sent from a party who is planning the use or consumption of products to a party who has a plan for the supply of the products. The message gives the requirements regarding details for short-term delivery and/or medium to long term 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 contract.

Segments:

Pos	Tag	Segment Name	Status	Repetition	Notes	Usage
	UNB	INTERCHANGE HEADER	M	1	YES	Must use

Heading:

Pos	Tag	Segment Name	Status	Repetition	Notes	Usage
0010	UNH	MESSAGE HEADER	M	1	YES	Must use
0020	BGM	BEGINNING OF MESSAGE	M	1	YES	Must use
0030	DTM	DATE/TIME/PERIOD	C	1		Must use
0080		<u>Segment Group 2</u>	C	2		
0090	NAD	NAME AND ADDRESS	C	1	YES	Must use

Detail:

Pos	Tag	Segment Name	Status	Repetition	Notes	Usage
0190		<u>Segment Group 6</u>	C	10		
0200	GIS	GENERAL INDICATOR	C	1		Must use
0210		<u>Segment Group 7</u>	C	1		
0220	NAD	NAME AND ADDRESS	C	1	YES	Must use
0370		<u>Segment Group 12</u>	C	9999		
0380	LIN	LINE ITEM	C	1	YES	Must use
0390	PIA	ADDITIONAL PRODUCT ID	C	1		Optional
0540		<u>Segment Group 15</u>	C	1		
0550	QTY	QUANTITY	C	1	YES	Must use
0600		<u>Segment Group 17</u>	C	999		
0610	SCC	SCHEDULING CONDITIONS	C	1		Must use
0620		<u>Segment Group 18</u>	C	1		
0630	QTY	QUANTITY	C	1		Must use
0640	DTM	DATE/TIME/PERIOD	C	2		Must use
0650		<u>Segment Group 19</u>	C	1		
0660	RFF	REFERENCE	C	1	YES	Optional
1030	UNT	MESSAGE TRAILER	M	1		Must use

Segments:

Pos	Tag	Segment Name	Status	Repetition	Notes	Usage
	UNZ	INTERCHANGE TRAILER	M	1		Must use

UNB	INTERCHANGE HEADER	Group: N/A	Max: 1
		Mandatory	Elements: 7

To start, identify and specify an interchange.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
UNB010	S001	SYNTAX IDENTIFIER	M	Comp	
	0001	Syntax identifier <u>Code</u> <u>Name</u> UNOA UN/ECE level A	M	A	4/4
	0002	Syntax version number <u>Code</u> <u>Name</u> 1 Version 1	M	N	1/1
UNB020	S002	INTERCHANGE SENDER	M	Comp	
	0004	Sender identification <i>Sanmina's mailbox details are:</i> <i>Production:- SANMINACORP</i> <i>Test:- SANMINACORT</i>		AN	1/35
	0007	Partner identification code qualifier <i>Sanmina's qualifier details are:</i> <i>Production:- 01</i> <i>Test:- ZZ</i>	C	AN	1/4
UNB030	S003	INTERCHANGE RECIPIENT	M	Comp	
	0010	Recipient identification Supplier's UNB receiver ID	M	AN	1/35
	0007	Partner identification code qualifier Supplier's UNB receiver ID qualifier	C	AN	1/4
	0014	Routing Address Routing address of supplier – if applicable	C	AN	1/14
UNB040	S004	DATE/TIME OF PREPARATION	M	Comp	
	0017	Date of preparation Date when the EDI translator generated the ORDERS message. Date format = yymmdd	M	N	6/6
	0019	Time of preparation Time when the EDI translator generated the ORDERS message. Time format = hhnn	M	N	4/4
UNB050	0020	INTERCHANGE CONTROL REFERENCE <i>Sanmina sequentially generated UNB control number.</i>	M	AN	1/14
UNB070	0026	APPLICATION REFERENCE	C	AN	1/14
UNB110	0035	TEST INDICATOR Indication that the interchange is a test. Set to 1 if the interchange is a test. Otherwise not used.	C	N	1

Segment Example:

```
UNB+UNOA:1+SANMINACORP:01+SupplierID:SupplierQualifier:SupplierRouting
Address+190207:0935+1++DELFOR'
```

UNH	MESSAGE HEADER	Group: N/A	Max: 1
		Mandatory	Elements: 2

To head, identify and specify a message.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
UNH010	0062	MESSAGE REFERENCE NUMBER <i>Sanmina sequentially generated message control number. Must match the UNT020 control number.</i>	M	AN	1/14
UNH020	S009	MESSAGE IDENTIFIER	M	Comp	
	0065	Message type identifier <u>Code</u> <u>Name</u> DELFOR Delivery Schedule Message	M	AN	1/6
	0052	Message type version number <u>Code</u> <u>Name</u> D Draft	M	AN	1/3
	0054	Message type release number <u>Code</u> <u>Name</u> 97A Release 97A	M	AN	1/3
	0051	Controlling agency <u>Code</u> <u>Name</u> UN UN/ECE/TRADE/WP.4, United Nations Standard Messages (UNSM)	M	AN	1/2
	0057	Association assigned code <u>Code</u> <u>Name</u> EDDF04 Delivery Schedule Message	C	AN	1/6

Segment Example:

UNH+1+DELFOR:D:97A:UN:EDDF04'

BGM	BEGINNING OF MESSAGE	Group: N/A	Max: 1
		Mandatory	Elements: 3

To indicate the type and function of a message and to transmit the identifying number.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
BGM010	C002	DOCUMENT/MESSAGE NAME	C	Comp	
	1001	Document/message name, coded <u>Code</u> <u>Name</u> 241 Delivery schedule	C	AN	1/3
BGM020	C106	DOCUMENT/MESSAGE IDENTIFICATION	C	Comp	
	1004	Document/message number Sanmina DELFOR reference number	C	AN	1/35
BGM030	1225	MESSAGE FUNCTION, CODED <u>Code</u> <u>Name</u> 9 Original	C	AN	1/3

Segment Example:

BGM+241+E55ABCE5520190206221834567+9'

DTM	DATE/TIME/PERIOD	Group: N/A	Max: 1
		Mandatory	Elements: 1

To specify date, and/or time, or period.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
DTM010	C507	DATE/TIME/PERIOD	M	Comp	
	2005	Date/time/period qualifier <u>Code</u> <u>Name</u> 137 Document/message date/time	M	AN	1/3
	2380	Date/time/period Message Date	C	AN	1/35
	2379	Date/time/period format qualifier Format of the DTM010:2380 date <u>Code</u> <u>Name</u> 102 CCYYMMDD	C	AN	1/3

Segment Example:

DTM+137:20190207:102'

Segment Group 2

Group: Group 2 Max: 2
Mandatory Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetition</u>
NAD	NAME AND ADDRESS	Mandatory	1
	Segment Group 4	Optional	1

NAD	NAME AND ADDRESS	Group: Group 2	Max: 1
		Mandatory	Elements: 2

To specify the name/address and their related function.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
NAD010	3035	Party Qualifier <u>Code</u> <u>Name</u> BY Buyer SE Seller	M	AN	1/3
NAD020	C082	PARTY IDENTIFICATION DETAILS	C	Comp	
	3039	Party id. identification Please see note below regarding a list of codes.	M	AN	1/35
	1131	Code list qualifier	N	AN	1/3
	3055	Code list responsible agency, coded <u>Code</u> <u>Name</u> 92 Assigned by Buyer or Buyer's agent	C	AN	1/3

Notes:

Please use the following URL to find a complete list of ship to codes that may be used by Sanmina:
<https://www.sanmina.com/partners/partner-programs/>

Scroll and look for PDF document “Ship to Address Codes”.

Segment Example:

NAD+BY+NASSC-PRINCIPAL CO: : 92 '
NAD+SE+E55ABC: : 92 '

Segment Group 6	Group: Group 6	Max: 10
	Mandatory	Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetitions</u>
GIS	GENERAL INDICATOR	Mandatory	1
	Segment Group 7	Mandatory	1

GIS	GENERAL INDICATOR	Group: Group 6	Max: 1
		Mandatory	Elements: 1

A segment indicating that the delivery point scheduling method is used.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
GIS010	C529	PROCESSING INDICATOR	M	Comp	
	7365	Processing indicator, coded	M	AN	1/3
		<u>Code</u> ZZZ		<u>Name</u> Delivery point driven scheduling method	

Segment Example:

GIS+ZZZ'

Segment Group 7

Group: Group 7 Max: 1
Mandatory Elements: NA

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetitions</u>
NAD	NAME AND ADDRESS	Mandatory	1
	Segment Group 12	Mandatory	9999

NAD	NAME AND ADDRESS	Group: Group 7	Max: 1
		Mandatory	Elements: 2

To specify the name/address and their related function.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
NAD010	3035	Party Qualifier <u>Code</u> <u>Name</u> DP Delivery Point	M	AN	1/3
NAD020	C082	PARTY IDENTIFICATION DETAILS	C	Comp	
	3039	Party id. identification Please see note below regarding a list of bill-to and ship-to codes.	M	AN	1/35
	1131	Code list qualifier	N	AN	1/3
	3055	Code list responsible agency, coded <u>Code</u> <u>Name</u> 92 Assigned by Buyer or Buyer's agent	C	AN	1/3

Notes: Please use the following URL to find a complete list of ship to codes that may be used by Sanmina:
<https://www.sanmina.com/partners/partner-programs/>

Scroll and look for PDF document “Ship to Address Codes”.

Segment Example:

NAD+DP+34503::92'

Segment Group 12

Group: Group 12

Max: 9999

Mandatory

Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetitions</u>
LIN	LINE ITEM	Mandatory	1
PIA	ADDITIONAL PRODUCT ID	Optional	1
	Segment Group 15	Mandatory	1
	Segment Group 17	Mandatory	999

LIN	LINE ITEM	Group: Group 12	Max: 1
		Mandatory	Elements: 2

To identify a line item and configuration.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
LIN010	1082	Line item number Number given to the line within the message. The first line within a message will be numbered 1 and further line items will be incremented by 1 for each new line.	C	AN	1/6
LIN030	C212	ITEM NUMBER IDENTIFICATION	C	Comp	
	7140	Item number <i>Sanmina's orderable part number</i>	C	AN	1/35
	7143	Item number type, coded <u>Code</u> <u>Name</u> BP Buyer's part number	C	AN	1/3
	1131	Code list qualifier	N	AN	1/3
	3055	Code list responsible agency, coded <u>Code</u> <u>Name</u> 92 Assigned by Buyer or Buyer's agent	C	AN	1/3

Segment Example:

LIN+1++ABC000123:BP::92'

PIA	ADDITIONAL PRODUCT ID	Group: Group 12	Max: 1
		Optional	Elements: 2

To specify additional item identification codes.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
PIA010	4347	PRODUCT ID. FUNCTION QUALIFIER <u>Code</u> <u>Name</u> 1 Additional identification	M	AN	1/3
PIA020	C212	ITEM NUMBER IDENTIFICATION	M	Comp	
	7140	Item number Supplier's part number	C	AN	1/35
	7143	Item number type, coded <u>Code</u> <u>Name</u> VP Vendor's (seller's) part number	C	AN	1/3
	1131	Code list qualifier	N	AN	1/3
	3055	Code list responsible agency, coded <u>Code</u> <u>Name</u> 91 Assigned by Seller or Seller's agent	C	AN	1/3

Segment Example:

PIA+1+ABCD1234:VP::91'

Segment Group 15

Group: Group 15

Max: 1

Mandatory

Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetitions</u>
QTY	QUANTITY	Mandatory	1

QTY	QUANTITY	Group: Group 15	Max: 1
		Mandatory	Elements: 1

To specify a pertinent quantity.

Sanmina uses this segment to summarize the total quantity for all of the schedules for the line item.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
QTY010	C186	QUANTITY DETAILS	M	Comp	
	6063	Quantity qualifier <u>Code</u> <u>Name</u> 3 Cumulative Quantity	M	AN	1/3
	6060	Quantity Total line item quantity	M	N	1/15
	6411	Measure unit qualifier Unit of measure for the quantity in QTY010:6060 <u>Code</u> <u>Name</u> PCE Pieces	C	AN	1/3

Segment Example:

QTY+3:6000:PCE'

Segment Group 17

Group: Group 17 Max: 999
Mandatory Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetitions</u>
SCC	SCHEDULING CONDITIONS	Mandatory	1
	Segment Group 18	Mandatory	1

SCC	SCHEDULING CONDITIONS	Group: Group 17	Max: 1
		Mandatory	Elements: 1

To specify scheduling conditions.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>						
SCC010	4017	DELIVERY PLAN STATUS INDICATOR, CODED	M	AN	1/3						
		<table border="0"> <tr> <td style="padding-right: 20px;"><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>1</td> <td>Firm</td> </tr> <tr> <td>4</td> <td>Planning/forecast</td> </tr> </table>	<u>Code</u>	<u>Name</u>	1	Firm	4	Planning/forecast			
<u>Code</u>	<u>Name</u>										
1	Firm										
4	Planning/forecast										

Segment Example:

SCC+1 '- Firm Release indicator when RTF
 SCC+4 '

Segment Group 18

Group: Group 18

Max: 1

Mandatory

Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetition(s)</u>
QTY	QUANTITY	Mandatory	1
DTM	DATE/TIME/PERIOD	Mandatory	2
	Segment Group 19	Conditional	1

QTY	QUANTITY	Group: Group 18	Max: 1
		Mandatory	Elements: 1

To specify a pertinent quantity.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
QTY010	C186	QUANTITY DETAILS	M	Comp	
	6063	Quantity qualifier <u>Code</u> 131 <u>Name</u> Delivery quantity	M	AN	1/3
	6060	Quantity Number of parts	M	N	1/15
	6411	Measure unit qualifier <u>Code</u> PCE <u>Name</u> Piece(s)	M	AN	1/3

Segment Example:

QTY+131:3000:PCE'

DTM	DATE/TIME/PERIOD	Group: Group 18	Max: 2
		Mandatory	Elements: 1

To specify date, and/or time, or period.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>								
DTM010	C507	DATE/TIME/PERIOD	M	Comp									
	2005	Date/time/period qualifier	M	AN	1/3								
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>2</td> <td>Delivery date, requested</td> </tr> <tr> <td>158</td> <td>Horizon start date</td> </tr> <tr> <td>159</td> <td>Horizon end date</td> </tr> </table>	<u>Code</u>	<u>Name</u>	2	Delivery date, requested	158	Horizon start date	159	Horizon end date			
<u>Code</u>	<u>Name</u>												
2	Delivery date, requested												
158	Horizon start date												
159	Horizon end date												
	2380	Date/time/period Qualified date	C	AN	1/35								
	2379	Date/time/period format qualifier	C	AN	1/3								
		<table border="0"> <tr> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td>102</td> <td>CCYYMMDD</td> </tr> </table>	<u>Code</u>	<u>Name</u>	102	CCYYMMDD							
<u>Code</u>	<u>Name</u>												
102	CCYYMMDD												

Segment Example:

```
DTM+2:20190206:102' - this DTM '2' is Firm Release Date when RTF
DTM+158:20190210:102'
DTM+159:20190215:102'
```

Segment Group 19

Group: Group 19

Max: 1

Conditional

Elements: N/A

Segment Summary:

<u>Tag</u>	<u>Segment Name</u>	<u>Status</u>	<u>Max. Repetition(s)</u>
RFF	REFERENCE	Mandatory	1

RFF	REFERENCE	Group: Group 19	Max: 1
		Optional	Elements: 1

Used in order to specify a Blanket PO Number and Release Number for the firm release. Only included when there is a schedule with firm demand.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
RFF010	C506	REFERENCE	M	Comp	
	1153	Reference qualifier <u>Code</u> <u>Name</u> ON Purchase Order Number	M	AN	1/3
	1154	Reference number PO number against which firm demand will be called-off and used by seller for invoicing. <i>For Blanket PO Releases the release number will be concatenated to the PO Number using a dash..</i>	M	N	1/35

Segment Example:

RFF+ON:B550001234-5' (where '5' is the release number concatenated)

UNT	MESSAGE TRAILER	Group: N/A	Max: 1
		Mandatory	Elements: 2

To end and check the completeness of a message.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
UNT010	0074	NUMBER OF SEGMENTS IN A MESSAGE Generated automatically, this is the count of the number of segments in the message (including UNH through UNT segments)	M	N	1/6
UNT020	0062	MESSAGE REFERENCE NUMBER Must match the UNH control number.	M	AN	1/14

Segment Example:

UNT+22+3687'

UNZ	INTERCHANGE TRAILER	Group: N/A	Max: 1
		Mandatory	Elements: 2

To end and check the completeness of an interchange.

Element Summary:

<u>Ref</u>	<u>Tag</u>	<u>Element Name</u>	<u>Status</u>	<u>Type</u>	<u>Min/Max</u>
UNZ010	0036	INTERCHANGE CONTROL COUNT This is the number of messages (i.e. UNH segments) in the current envelope.	M	N	1/6
UNZ020	0020	INTERCHANGE CONTROL REFERENCE Must match the ICN from the UNB segment at the start of the envelope.	M	AN	1/14

Segment Example:

UNZ+1+482'

APPENDIX A – Example of Planning Forecast with Embedded Release

The forecast will be weekly and the requirement includes the firm short-term deliveries.

```
UNH+1+DELFOR:D:97A:UN:EDDF04'  
BGM+241+E55ABCE5520190206221834567+9'  
DTM+137:20190207:102'  
NAD+BY+NASSC-PRINCIPAL CO:::92'  
NAD+SE+E55ABC:::92'  
GIS+ZZZ'  
NAD+DP+34503:::92'  
LIN+1++ABC000123:BP:::92'  
PIA+1+ABCD1234:VP:::91'  
QTY+3:1500:PCE'  
SCC+1' - Firm Release indicator '1' when RTF  
QTY+131:500:PCE' - this QTY is Firm Release Qty when RTF  
DTM+2:20190206:102' - this DTM '2' is Firm Release Date when RTF  
RFF+ON:B550001234-5' - Firm Release Blanket PO with concatenated release when RTF  
SCC+4'  
QTY+131:500:PCE'  
DTM+158:20190210:102'  
DTM+159:20190215:102'  
SCC+4'  
QTY+131:500:PCE'  
DTM+158:20190218:102'  
DTM+159:20190222:102'  
UNT+23+1'
```