

MBExtra LLC EDI

Implementation Guide

Message Implementation Guideline

MBExtra_004010_856

based on

856 for JIT Process
Ship Notice/Manifest

X12 004010

Version 1.4: January 23rd 2019

Change History

	Date	Chapter	Description
1.0	Nov/28/2017	All	Creation of the document
1.1	Dec/01/2017	All	Rework adaption of examples
1.2	Aug/06/2018	GS, BSN, REF, N1	Consideration of JIT Direct Delivery (FCL) Process
1.3	06.09.2018	Appendix	Updated examples
1.4	Jan/23/2019	BSN, REF, N1	Consideration of Direct SC Incoterms Process
1.5.	25.02.2019	LIN, FOB	Updated Information

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1 Structure

	Counter No	Tag	St	MaxOcc	Level	Content		
	0000	1	ISA	M	1	0	Interchange Control Header	
	0000	2	GS	C	1	0	Functional Group Header	
	0010	3	ST	M	1	0	Transaction Set Header	
	0020	4	BSN	M	1	0	Beginning Segment for Ship Notice	
	0040	5	DTM	M	10	1	Date/Time Reference	
	0040	6	DTM	M	10	1	Date/Time Reference	
	0010		HL	M	200000	1	HL-MEA-MEA-TD1-TD5-TD5-TD5-TD3-REF-REF-REF-REF-REF-REF-REF-REF-FOB-N1-N1-N1-N1	
	0010	7	HL	M	1	1	Hierarchical Level	
	0080	8	MEA	O	40	2	Measurements	
	0080	9	MEA	O	40	2	Measurements	
	0110	10	TD1	O	20	2	Carrier Details (Quantity and Weight)	
	0120	11	TD5	M	12	2	Carrier Details (Routing Sequence/Transit Time)	
	0120	12	TD5	O	12	2	Carrier Details (Routing Sequence/Transit Time)	
	0120	13	TD5	O	12	2	Carrier Details (Routing Sequence/Transit Time)	
	0120	14	TD5	O	12	2	Carrier Details (Routing Sequence/Transit Time)	
	0130	15	TD3	M	12	2	Carrier Details (Equipment)	
	0150	17	REF	M	>1	2	Reference Numbers	
	0150	20	REF	O	>1	2	Reference Numbers	
	0150	23	REF	O	>1	2	Reference Numbers	
	0150	24	REF	M	>1	2	Reference Numbers	
	0210	25	FOB	O	1	2	F.O.B. Related Instructions	
		0220		N1	M	200	2	N1-N4
		0220	26	N1	M	1	2	Name
	0250	27	N4	M	1	3	Geographic Location	
	0220		N1	M	200	2	N1	
	0220	28	N1	M	1	2	Name	
	0220		N1	O	200	2	N1	
	0220	29	N1	O	1	2	Name	
	0220		N1	O	200	2	N1	
	0220	30	N1	O	1	2	Name	
	0010		HL	C	200000	1	HL-LIN-SN1-MEA-MEA-MEA-PKG-REF	
	0010	31	HL	M	1	1	Hierarchical Level	
	0020	32	LIN	M	1	2	Item Identification	
	0030	33	SN1	M	1	2	Item Detail (Shipment)	

Tag
St MaxOcc
No
Counter

Tag = Segment/Group Tag

St = Status (M=Mandatory, R=Required, C=Conditional, O=Optional, F=Floating, D=Dependent, A=Advised, S=Situational, X=Not used, N=Not recommended)

MaxOcc = Maximum occurrence of the segment/group

No = Consecutive segment number, Counter = Counter of segment/group within the standard

Counter	No	Tag	St	MaxOcc	Level	Content
0100	37	PKG	M	25	2	Marking, Packaging, Loading
0150	38	REF	M	>1	2	Reference Numbers
0010		HL	M	200000	1	HL-LIN-SN1-PRF-PID-MEA-N1
0010	39	HL	M	1	1	Hierarchical Level
0020	40	LIN	M	1	2	Item Identification
0030	41	SN1	M	1	2	Item Detail (Shipment)
0050	42	PRF	M	1	2	Purchase Order Reference
0070	43	PID	M	200	2	Product/Item Description
0220		N1	M	200	2	N1-N4
0220	45	N1	M	1	2	Name
0250	46	N4	M	1	3	Geographic Location
0010		HL	M	200000	1	HL-LIN-SN1-PO4-MEA-MEA-MEA-PKG-REF
0010	47	HL	M	1	1	Hierarchical Level
0020	48	LIN	M	1	2	Item Identification
0030	49	SN1	M	1	2	Item Detail (Shipment)
0060	50	PO4	C	1	2	Item Physical Details
0100	54	PKG	C	25	2	Marking, Packaging, Loading
0150	55	REF	C	>1	2	Reference Numbers
0010	56	CTT	O	1	0	Transaction Totals
0020	57	SE	M	1	0	Transaction Set Trailer
0000	58	GE	C	1	0	Functional Group Trailer
0000	59	IEA	M	1	0	Interchange Control Trailer

Tag
St MaxOcc
No
Counter

Tag = Segment/Group Tag

St = Status (M=Mandatory, R=Required, C=Conditional, O=Optional, F=Floating, D=Dependent,
A=Advised, S=Situational, X=Not used, N=Not recommended)

MaxOcc = Maximum occurrence of the segment/group

No = Consecutive segment number, Counter = Counter of segment/group within the standard

2 Segments

2.1 ISA Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0000	1	ISA	M	1	0	Interchange Control Header

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
ISA				
I01	Authorization Information Qualifier	M ID 2/2	M ID 2/2	00 No Authorization Information Present (No Meaningful Information in I02)
I02	Authorization Information	M AN 10/10	M AN 10/10	
I03	Security Information Qualifier	M ID 2/2	M ID 2/2	00 No Security Information Present (No Meaningful Information in I04)
I04	Security Information	M AN 10/10	M AN 10/10	
I05	Interchange ID Qualifier	M ID 2/2	M ID 2/2	Qualifiers: 01-Duns Number, 08-Phone Number, ZZ-Mutually defined
I06	Interchange Sender ID	M AN 15/15	M AN 15/15	
I07	Interchange ID Qualifier	M ID 2/2	M ID 2/2	Qualifiers: 01-Duns Number, 08-Phone Number, ZZ-Mutually defined
I08	Interchange Receiver ID	M AN 15/15	M AN 15/15	DAI_GSSPLUS_T for Test, DAI_GSSPLUS_P for Production
I09	Interchange Date	M DT 6/6	M DT 6/6	The date is in year month day (MMDD) format
I10	Interchange Time	M TM 4/4	M TM 4/4	The local time the ISA was created, it is in HHMM format and the valid ranges are 0000 to 2359.
I11	Interchange Control Standards Identifier	M ID 1/1	M ID 1/1	U U.S. EDI Community of ASC X12, TDCC, and UCS
I12	Interchange Control Version Number	M ID 5/5	M ID 5/5	00200 Standard Issued as ANSI X12.5-1987
I13	Interchange Control Number	M NO 9/9	M NO 9/9	
I14	Acknowledgment Requested	M ID 1/1	M ID 1/1	0 No Acknowledgment Requested
I15	Test Indicator	M ID 1/1	M ID 1/1	Definition: T-Test, P-Production
I16	Component Element Separator	M AN 1/1	M AN 1/1	Sub Element Separator

Remark:

ZZ*AAABBB - is your Interchange qualifier and ID

Example:

```
ISA*00*      *00*      *ZZ*AAABBB      *ZZ*DAI_GSSPLUS_P *140717*0940*U*00200*000001751*0*P*>~
ISA*00*      *00*      *ZZ*AAABBB      *ZZ*DAI_GSSPLUS_T *140717*0940*U*00200*000001751*0*T*>~
```

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.2 GS Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0000	2	GS	C	1	0	Functional Group Header

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
GS				
479	Functional Identifier Code	M ID 2/2	M ID 2/2	SH Ship Notice / Manifest (856)
142	Application Sender's Code	M AN 2/15	M AN 8/10	
124	Application Receiver's Code	M AN 2/15	M AN 2/15	18802587
373	Date	M DT 6/6	M DT 6/6	
337	Time	M TM 4/8	M TM 4/8	
28	Group Control Number	M NO 1/9	M NO 1/9	
455	Responsible Agency Code	M ID 1/2	M ID 1/2	X Accredited Standards Committee X12
480	Version / Release / Industry Identifier Code	M AN 1/12	M AN 1/12	004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1994

Remark:

Field GS02 This field will hold the supplier number from MBExtra's system for the sender of the message. This may not be the supplier number from the goods supplier but the supplier number of a logistics service provider (Data sender).

Field GS03 Suppliers are required to use "18802587" for MBExtra

Example:

GS*SH*015437320B***18802587***030430*22034100*6887*X*004010!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.3 ST Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0010	3	ST	M	1	0	Transaction Set Header

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
ST				
143	Transaction Set Identifier Code	M ID 3/3	M ID 3/3	856 X12.10 Ship Notice/Manifest
329	Transaction Set Control Number	M AN 4/9	M AN 4/9	

Remark:

Example:

ST*856*68870001!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.4 BSN Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0020	4	BSN	M	1	0	Beginning Segment for Ship Notice

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
BSN				
353	Transaction Set Purpose Code	M ID 2/2	M ID 2/2	00 Original (JIT Non FCL) 12 Value of BSS01 (JIT FCL), related to x.862, segment BSS 13 Value of BSS01 (Direct SC Incoterms)
396	Shipment Identification	M AN 2/30	M AN 2/10	Your delivery note number (used for invoice reconciliation in 820 message later on) For BSN 13 only 6 digit numeric value is allowed
373	Date	M DT 6/6	M DT 6/6	Document Date in format YYMMDD
337	Time	M TM 4/8	M TM 4/4	Time in format HHMM
1005	Hierarchical Structure Code	O ID 4/4	N	Not used
640	Transaction Type Code	C ID 2/2	C ID 2/2	
641	Status Reason Code	O ID 3/3	N	Not used

Remark:

Please note: Your delivery note number has to be unique per calendar year.

Example:

BSN*00*GAD21783*150720*1233! (JIT Non FCL)
 BSN*12*GAD21783*150720*1233! (JIT FCL)
 BSN*13*217835*150720*1233! (Direct SC Incoterms)

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.5 DTM Segment – Shipped Date and Time

Counter	No	Tag	St	MaxOcc	Level	Name
0040	5	DTM	M	10	1	Date/Time Reference (ship date and time)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
DTM				
374	Date/Time Qualifier	M ID 3/3	M ID 3/3	011 Shipped
373	Date	C DT 6/6	M DT 6/6	Shipping date in format YYMMDD
337	Time	C TM 4/8	M TM 4/4	Shipping time in format HHMM
623	Time Code	O ID 2/2	N	Not used
624	Century	O NO 2/2	N	Not used
1250	Date Time Period Format Qualifier	C ID 2/3	N	Not used
1251	Date Time Period	C AN 1/35	N	Not used

Remark:

Example:

DTM*011*150720*1233!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.6 DTM Segment – Estimated Time of Arrival

Counter	No	Tag	St	MaxOcc	Level	Name
0040	6	DTM	M	10	1	Date/Time Reference (Estimated Time of Arrival)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
DTM				
374	Date/Time Qualifier	M ID 3/3	M ID 3/3	017 Estimated Delivery
373	Date	C DT 6/6	M DT 6/6	Estimated date of Arrival in format YYMMDD
337	Time	C TM 4/8	M TM 4/4	Estimated time of Arrival in format HHMM
623	Time Code	O ID 2/2	N	Not used
624	Century	O N0 2/2	N	Not used
1250	Date Time Period Format Qualifier	C ID 2/3	N	Not used
1251	Date Time Period	C AN 1/35	N	Not used

Remark:

Field DTM02 Date of estimated delivery at MBExtra (example Shipped Date and Time from DTM (011) plus transit time)

Field DTM03 Time of estimated time of Arrival at MBExtra

Example:

DTM*017*150720*1433!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7 HL Segment – Shipment Loop

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0010	7	HL	M	1	1	Hierarchical Level

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
HL				
628	Hierarchical ID Number	M AN 1/12	M AN 1/12	1 Shipment Loop is always value 1
734	Hierarchical Parent ID Number	O AN 1/12	N	Not used
735	Hierarchical Level Code	M ID 1/2	M ID 1/2	S Shipment
736	Hierarchical Child Code	O ID 1/1	N	Not used

Remark:

Example:

HL*1**S!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.1 MEA Segment – Gross Weight

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0080	8	MEA	O	40	2	Measurements

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
MEA				
737	Measurement Reference ID Code	O ID 2/2	N	Not used
738	Measurement Qualifier	O ID 1/3	M ID 1/3	G Gross Weight
739	Measurement Value	C R 1/20	M R 1/20	
C001	Composite Unit of Measure	C	C	
355	Unit or Basis for Measurement Code	M ID 2/2	M ID 2/2	KG Kilogram LB Pound

Remark: Overall weight of the shipment

Example:

MEA**G*2000*LB!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.7.2 MEA Segment – Net Weight

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0080	9	MEA	O	40	2	Measurements

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
MEA				
737	Measurement Reference ID Code	O ID 2/2	N	Not used
738	Measurement Qualifier	O ID 1/3	M ID 1/3	N Actual Net Weight
739	Measurement Value	C R 1/20	M R 1/20	
C001	Composite Unit of Measure	C	C	
355	Unit or Basis for Measurement Code	M ID 2/2	M ID 2/2	KG Kilogram LB Pound

Remark: Overall net weight of the shipment

Example:

MEA**N*1000*LB!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.3 TD1 Segment – Number of Packages

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0110	10	TD1	M	20	2	Carrier Details (Quantity and Weight)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
TD1				
103	Packaging Code	O AN 3/5	M AN 3/3	PCS Pieces
80	Lading Quantity	C NO 1/7	M NO 1/7	

Remark: Number of units being handled. If 10 small boxes are on a pallet, this is considered as 1 unit. If there is no pallet then this would be 10 units handled.

See examples starting on chapter 3.3

Example:

TD1*PCS*23!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.4 TD5 Segment – Means of Transport information

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0120	11	TD5	M	12	2	Carrier Details (Routing Sequence/Transit Time)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
TD5				
133	Routing Sequence Code	O ID 1/2	N	Not used
66	Identification Code Qualifier	C ID 1/2	M ID 1/2	2
67	Identification Code	C AN 2/20	M AN 2/2	CN
91	Transportation Method/Type Code	C ID 1/2	M ID 1/1	A Air J Motor R Rail S Ocean H Customer Pickup

Remark:

Example:

TD5**2*CN*J!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.7.5 TD5 Segment – Port of Arrival information

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0120	12	TD5	O	12	2	Carrier Details (Routing Sequence/Transit Time)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
TD5				
133	Routing Sequence Code	O ID 1/2	N	Not used
66	Identification Code Qualifier	C ID 1/2	N	Not used
67	Identification Code	C AN 2/20	N	Not used
91	Transportation Method/Type Code	C ID 1/2	C ID 1/1	A Air J Motor R Rail S Ocean H Customer Pickup
387	Routing	C AN 1/35	N	Not used
368	Shipment/Order Status Code	C ID 2/2	N	Not used
309	Location Qualifier	O ID 1/2	O ID 1/2	PA Port of Arrival
310	Location Identifier	C AN 1/30	C AN 1/30	
731	Transit Direction Code	O ID 2/2	N	Not used
732	Transit Time Direction Qualifier	O ID 2/2	N	Not used
733	Transit Time	C R 1/4	N	Not used
284	Service Level Code	C ID 2/2	N	Not used

Remark:

Example:

TD5*****S***PA*CHARLESTON!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.7.6 TD5 Segment - Port of Loading information

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0120	13	TD5	O	12	2	Carrier Details (Routing Sequence/Transit Time)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
TD5				
133	Routing Sequence Code	O ID 1/2	N	Not used
66	Identification Code Qualifier	C ID 1/2	N	Not used
67	Identification Code	C AN 2/20	N	Not used
91	Transportation Method/Type Code	C ID 1/2	C ID 1/1	A Air J Motor R Rail S Ocean H Customer Pickup
387	Routing	C AN 1/35	N	Not used
368	Shipment/Order Status Code	C ID 2/2	N	Not used
309	Location Qualifier	O ID 1/2	O ID 1/2	KL Port of Loading
310	Location Identifier	C AN 1/30	C AN 1/30	
731	Transit Direction Code	O ID 2/2	N	Not used
732	Transit Time Direction Qualifier	O ID 2/2	N	Not used
733	Transit Time	C R 1/4	N	Not used
284	Service Level Code	C ID 2/2	N	Not used

Remark:

Example:

TD5*****S***KL*BREMERHAVEN!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.7 TD5 Segment – Port of Entry information

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0120	14	TD5	O	12	2	Carrier Details (Routing Sequence/Transit Time)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
TD5				
133	Routing Sequence Code	O ID 1/2	N	Not used
66	Identification Code Qualifier	C ID 1/2	N	Not used
67	Identification Code	C AN 2/20	N	Not used
91	Transportation Method/Type Code	C ID 1/2	C ID 1/1	A Air J Motor R Rail S Ocean H Customer Pickup
387	Routing	C AN 1/35	N	Not used
368	Shipment/Order Status Code	C ID 2/2	N	Not used
309	Location Qualifier	O ID 1/2	O ID 1/2	PE Port of Entry
310	Location Identifier	C AN 1/30	C AN 1/30	
731	Transit Direction Code	O ID 2/2	N	Not used
732	Transit Time Direction Qualifier	O ID 2/2	N	Not used
733	Transit Time	C R 1/4	N	Not used
284	Service Level Code	C ID 2/2	N	Not used

Remark:

Example:

TD5*****S***PE*NEW YORK!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.7.8 TD3 Segment – Trailer number

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0130	15	TD3	M	12	2	Carrier Details (Equipment)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
TD3				
40	Equipment Description Code	M ID 2/2	M ID 2/2	TL Trailer (not otherwise specified)
206	Equipment Initial	O AN 1/4	M AN 1/4	SCAC Code
207	Equipment Number	C AN 1/10	M AN 1/10	Trailer number
187	Weight Qualifier	O ID 1/2	N	Not used
81	Weight	C R 1/10	N	Not used
355	Unit or Basis for Measurement Code	C ID 2/2	N	Not used
102	Ownership Code	O ID 1/1	N	Not used
407	Seal Status Code	O ID 2/2	N	Not used
225	Seal Number	O AN 2/15	N	Not used

Remark:

Field TD303 For LTL shipments enter last ten characters of PRO/Tracking number (Alpha/Numeric only).

SCAC code according to MBExTra definition – containing supplier qualifier and delivery window number

Example:

TD3*TL*AC01*A001105!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.9 REF Segment – Bill of Lading Number

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0150	17	REF	M	>1	2	Reference Numbers

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
REF				
128	Reference Number Qualifier	M ID 2/2	M ID 2/2	BM Bill of Lading Number
127	Reference Number	C AN 1/30	M AN 1/30	
352	Description	C AN 1/80	N	Not used

Remark:

Example:

REF*BM*GAD21783!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.10 REF Segment – Master Bill of Lading

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0150	20	REF	O	>1	2	Reference Numbers

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
REF				
128	Reference Number Qualifier	M ID 2/2	M ID 2/2	MB Master Bill of Lading
127	Reference Number	C AN 1/30	C AN 1/30	
352	Description	C AN 1/80	C AN 1/80	Master Bill Country of Export

Remark:

Example:

REF*MB*4342342*FR!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.11 REF Segment – Vendor Order Number

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0150	23	REF	O	>1	2	Reference Numbers

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
REF				
128	Reference Number Qualifier	M ID 2/2	M ID 2/2	VN Vendor Order Number
127	Reference Number	C AN 1/30	C AN 1/30	
352	Description	C AN 1/80	C AN 1/80	Voyage, Trip, or Flight Number

Remark:

Example:

REF*VN*ENTERPRISE*05150!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.12 REF Segment –Unloading point

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0150	24	REF	M	>1	2	Reference Numbers

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
REF				
128	Reference Number Qualifier	M ID 2/2	M ID 2/2	DK
127	Reference Number	C AN 1/30	M AN 1/5	
352	Description	C AN 1/80	N	Not used

Remark:

Field REF02 Information is transmitted with 830 message in field REF02 with Qualifier DK. (If BSS01=12 862 information is transmitted with 862 message in segment REF02 with Qualifier DK)

Please note: Each 856 transmission shall only contain parts that have been ordered for the same unloading point.

Example:

REF*DK*W1H1!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.13 REF Segment – Production Number (JIT)

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	C	200000	1	HL-LIN-SN1-PRF-PID-MEA-N1-REF
0150	38	REF	M	>1	2	Reference Numbers

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
REF				
128	Reference Number Qualifier	M ID 2/2	M ID 2/2	JN Job Number
127	Reference Number	C AN 1/30	M AN 10/10	RAN Number (Value of FST09 related to x.862)
352	Description	C AN 1/80	N	Not used

Remark:

Field REF02 For each RAN Number (JIT) send one line with leading zeros.

Example:

REF*JN*FJ96688 – Standard RAN

REF*JN*FJ96687A – A-RAN for additional demand

This segment is NOT relevant for Direct SC Incoterms Process (BSS01=13)

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.14 FOB Segment – F.O.B. Related Instructions

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-MEA-TD1-TD5-TD3-REF-FOB-N1
0210	25	FOB	O	1	2	F.O.B. Related Instructions

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
FOB				
146	Shipment Method of Payment	M ID 2/2	M ID 2/2	CC Collect PP Prepaid (by Seller)
309	Location Qualifier	C ID 1/2	N	Not used
352	Description	O AN 1/80	N	Not used
334	Transportation Terms Qualifier Code	O ID 2/2	O ID 2/2	01 Incoterms
335	Transportation Terms Code	C ID 3/3	C ID 3/3	According to Contract (FCA, DAP, etc.)
309	Location Qualifier	C ID 1/2	N	Not used
352	Description	O AN 1/80	N	Not used
54	Risk of Loss Qualifier	O ID 2/2	N	Not used
352	Description	C AN 1/80	N	Not used

Remark:

Example:

FCA*CC***01*FCA!

FCA*CC***01*DAP!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.7.15 N1 Segment – Customer information

Counter	No	Tag	St	MaxOcc	Level	Name
0220		N1	M	200	2	N1-N4
0220	26	N1	M	1	2	Name

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
N1				
98	Entity Identifier Code	M ID 2/2	M ID 2/2	ST Ship To
93	Name	C AN 1/35	C AN 1/35	MBExtra
66	Identification Code Qualifier	C ID 1/2	C ID 1/2	92 Assigned by Buyer or Buyer's Agent
67	Identification Code	C AN 2/20	C AN 2/4	MBExtra Plant code
706	Entity Relationship Code	O ID 2/2	N	Not used
98	Entity Identifier Code	O ID 2/2	N	Not used

Remark:

Field N104 Information is transmitted in 830 transmission in field N104(ST)

Example:

N1*ST*MBExtra*92***US02**! (JIT Non FCL -> BSN=00)
N1*ST*MBExtra*92***DD02**! (JIT FCL -> BSN=12 or **Direct SC Incoterms -> BSN=13**)
N1*ST*MBExtra*92***DD03**! (**Direct SC Incoterms -> BSN13**)

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.7.16 N4 Segment – Customer information

Counter	No	Tag	St	MaxOcc	Level	Name
0220		N1	M	200	2	N1-N4
0250	27	N4	M	1	3	Geographic Location

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
N4				
19	City Name	O AN 2/30	N	Not used
156	State or Province Code	O ID 2/2	N	Not used
116	Postal Code	O ID 3/11	N	Not used
26	Country Code	O ID 2/3	N	Not used
309	Location Qualifier	C ID 1/2	M ID 2/2	DE
310	Location Identifier	O AN 1/30	M AN 4/4	MBExtra Storage location

Remark:

Field N406 Field contains current MBExtra storage location (which is subject to change and shall not be hardcoded in your system).
Information is sent in 830 transmission per item in field N406 where N405 =DE

Example:

N4*****DE*PLT1!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.7.17 N1 Segment – Supplier Information

Counter	No	Tag	St	MaxOcc	Level	Name
0220		N1	M	200	2	N1
0220	28	N1	M	1	2	Name

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
N1				
98	Entity Identifier Code	M ID 2/2	M ID 2/2	SU Supplier/Manufacturer
93	Name	C AN 1/35	C AN 1/35	
66	Identification Code Qualifier	C ID 1/2	C ID 1/2	92 Assigned by Buyer or Buyer's Agent
67	Identification Code	C AN 2/20	C AN 8/10	
706	Entity Relationship Code	O ID 2/2	N	Not used
98	Entity Identifier Code	O ID 2/2	N	Not used

Remark:

Field N104 This field holds your MBExtra assigned supplier number which allows 8 to 10 characters. This number has to be printed on each label when the parts are shipped to MBExtra. **(Only for JIT Non FCL BSS01=00)**

Information will be sent in 830 transmissions in field N104 (SE).

Example:

N1*SU*US GADSDEN (GAD)*92*015437320B!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.18 N1 Segment - Consolidator Information

Counter	No	Tag	St	MaxOcc	Level	Name
0220		N1	O	200	2	N1
0220	29	N1	O	1	2	Name

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
N1				
98	Entity Identifier Code	M ID 2/2	M ID 2/2	CS Consolidator
93	Name	C AN 1/35	C AN 1/35	
66	Identification Code Qualifier	C ID 1/2	C ID 1/2	92 Assigned by Buyer or Buyer's Agent
67	Identification Code	C AN 2/20	C AN 2/10	
706	Entity Relationship Code	O ID 2/2	N	Not used
98	Entity Identifier Code	O ID 2/2	N	Not used

Remark:

Field N104 Field should hold MBExtra assigned partner number of Consolidator/Logistics Service Provider etc (relevant for certain processes only) **(Only for JIT Non FCL BSS01=00)**

Example:

N1*CS*CONSOLIDATOR*92*1234567890!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.7.19 N1 Segment – Intermediate Consignee/Freight Forwarder

Counter	No	Tag	St	MaxOcc	Level	Name
0220		N1	O	200	2	N1
0220	30	N1	O	1	2	Name

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
N1				
98	Entity Identifier Code	M ID 2/2	M ID 2/2	IC Intermediate Consignee
93	Name	C AN 1/35	C AN 1/35	
66	Identification Code Qualifier	C ID 1/2	C ID 1/2	92 Assigned by Buyer or Buyer's Agent
67	Identification Code	C AN 2/20	C AN 2/10	
706	Entity Relationship Code	O ID 2/2	N	Not used
98	Entity Identifier Code	O ID 2/2	N	Not used

Remark:

Field N104 Field should hold MBExtra assigned partner number of Intermediate Consignee or Freight Forwarder. **(Only for JIT Non FCL BSS01=00)**

Example:

N1*IC*INTERM-CONSIGNEE*92*1234567890!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.8 HL Segment – Tare Loop

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	C	200000	1	HL-LIN-SN1-MEA-PKG-REF
0010	31	HL	M	1	1	Hierarchical Level

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
HL				
628	Hierarchical ID Number	M AN 1/12	M AN 1/12	Holds number of current level
734	Hierarchical Parent ID Number	O AN 1/12	M AN 1/12	Holds number of upper-level (Parent ID)
735	Hierarchical Level Code	M ID 1/2	M ID 1/2	T Shipping Tare
736	Hierarchical Child Code	O ID 1/1	N	Not used

Remark:

Segment

A Tare Loop is necessary if a master pallet has to be built in the ASN. If the shipment only contains single loading units then no tare loop is necessary. The ASN can then be built only with Shipment, Item and Pack Loops. Tare loops also hold the master/mixed label handling unit, each master pallet must have its own unique Tare loop.

Example:

HL*2*1*T!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.8.1 LIN Segment - Pallet

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	C	200000	1	HL-LIN-SN1-MEA-PKG-REF
0020	32	LIN	M	1	2	Item Identification

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
LIN				
350	Assigned Identification	O AN 1/11	N	Not used
235	Product/Service ID Qualifier	M ID 2/2	M ID 2/2	RC Returnable Container No.
234	Product/Service ID	M AN 1/40	M AN 6/9	MBExtra Packaging material number

Remark:

Field LIN02 The field always contains the qualifier "RC". Even if disposable packaging is used. The MBExtra packaging material number in field LIN03 identifies if the packaging is returnable or not.

Field LIN03 Packaging material number will always be submitted with a T5 prefix prior to the actual Container No. assigned and communicated by MBExtra Packaging department.

Please note: MBExtra packaging material numbers have to be used in all 856 transmissions. If disposable packaging is used, please request the according MBExtra packaging material number.

Example:

LIN**RC*T550106!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.8.2 SN1 Segment – Delivery quantity pallet

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	C	200000	1	HL-LIN-SN1-MEA-PKG-REF
0030	33	SN1	M	1	2	Item Detail (Shipment)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
SN1				
350	Assigned Identification	O AN 1/11	N	Not used
382	Number of Units Shipped	M R 1/10	M R 1/1	
355	Unit or Basis for Measurement Code	M ID 2/2	M ID 2/2	EA Each

Remark: TARE loop SN1 must only be 1*EA. Each pallet needs its own unique TARE loop.

Example:
SN1**1*EA!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.8.3 PKG Segment – Type of Package

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	C	200000	1	HL-LIN-SN1-MEA-PKG-REF
0100	37	PKG	M	25	2	Marking, Packaging, Loading

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
PKG				
349	Item Description Type	C ID 1/1	C ID 1/1	F Free-form
753	Packaging Characteristic Code	O ID 1/5	M ID 1/5	10 Shipping Package Labeling
559	Agency Qualifier Code	C ID 2/2	M ID 2/2	AI Automotive Industry Action Group
754	Packaging Description Code	C AN 1/7	M AN 1/7	M Master G Mixed

Remark:

Field PKG04 This field shall indicate either a master pack (only one single part in smaller totes on a base pallet) S = Single is not used for PKG04 when in a TARE loop.
Mixed pallets are only accepted in exceptional cases. Before sending a mixed pallet, consult the responsible planner at MBExtra.

Example:

PKG*F*10*AI*M!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.8.4 REF Segment – Serial Number

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	C	200000	1	HL-LIN-SN1-MEA-PKG-REF
0150	38	REF	M	>1	2	Reference Numbers

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
REF				
128	Reference Number Qualifier	M ID 2/2	M ID 2/2	LS Bar-Coded Serial Number
127	Reference Number	C AN 1/30	M N 10/10	
352	Description	C AN 1/80	N	Not used

Remark:

Field REF02 The field contains the handling unit number assigned to a master pallet. This number must be unique and must not repeat within the calendar year.

Note: The supplier handling unit range will be supplied by MBExtra. The first three digits are set for supplier identification and the remaining seven digits are generated by the supplier. **Example: 9990000000 - 9999999999**

Example:

REF*LS*1050004219!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.9 HL Segment – Item Loop

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-LIN-SN1-PRF-PID-MEA-N1
0010	39	HL	M	1	1	Hierarchical Level

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
HL				
628	Hierarchical ID Number	M AN 1/12	M AN 1/12	Holds number of current level
734	Hierarchical Parent ID Number	O AN 1/12	M AN 1/12	Holds number of upper-level (Parent ID)
735	Hierarchical Level Code	M ID 1/2	M ID 1/2	I Item
736	Hierarchical Child Code	O ID 1/1	N	Not used

Remark:

Example:

HL*3*2*I!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.9.1 LIN Segment – Part number

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-LIN-SN1-PRF-PID-MEA-N1
0020	40	LIN	M	1	2	Item Identification

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
LIN				
350	Assigned Identification	O AN 1/11	M AN 1/6	Delivery item number
235	Product/Service ID Qualifier	M ID 2/2	M ID 2/2	BP Buyer's Part Number
234	Product/Service ID	M AN 1/40	M AN 1/22	MBExtra part number
235	Product/Service ID Qualifier	C ID 2/2	M ID 2/2	EC Engineering Change Level
234	Product/Service ID	C AN 1/40	M AN 1/8	ZGS and Quality level in format Z001Q001 (see below)
235	Product/Service ID Qualifier	C ID 2/2	C ID 2/2	ON Order number
234	Product/Service ID	C AN 1/40	C AN 1/10	MBExtra JIT Call number from 862 transmission (S2L process only)

Remark:

Field LIN01 item number in delivery note that can be referenced in 820 transmission (remittance advice). Must be unique in the ASN and cannot repeat.

Field LIN03 This field holds the MBExtra part number that is sent in the 830 transmission in field LIN03 and printed human readable and barcoded with qualifier P on each Single and Master label when the parts are shipped to MBExtra.
→ please see also 3.2 Format of MBExtra part number from LIN03
Quantities per part number are to be aggregated in each ASN!

Field LIN05 Q-Level of shipped parts shall be transmitted in this field. Correct information has to be communicated with MBExtra quality department
First ZGS, the first digit must be starting with "Z" then three-digit number then E/Q Level with E/Q/X starting in Position "5" and then three-digit number .
Example: Z001Q002 or Z001E001

Field LIN07 JIT Call number transmitted with 862 Shipping Schedule in field LIN07 (JIT call-off number in SAP) (For BSS01=00)

Field LIN07 Customer material number transmitted with 862 Shipping Schedule in field LIN07 (For BSS01=12) BSS

Field LIN07 Not relevant for BSS01=13

Example:

LIN*00010*BP*A2057801300 1C51*EC*Z001Q002*ON*6052991385!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.9.2 SN1 Segment – Delivery quantity

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-LIN-SN1-PRF-PID-MEA-N1
0030	41	SN1	M	1	2	Item Detail (Shipment)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
SN1				
350	Assigned Identification	O AN 1/11	N	Not used
382	Number of Units Shipped	M R 1/10	M R 1/10	Delivery quantity (total quantity for this item loop)
355	Unit or Basis for Measurement Code	M ID 2/2	M ID 2/2	

Remark:

Field SN103 Use the same unit of measure as sent in 830 transmission per item in field UIT02

Example:

SN1**28*EA!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.9.3 PRF Segment – Purchase Order Reference

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-LIN-SN1-PRF-PID-MEA-N1
0050	42	PRF	M	1	2	Purchase Order Reference

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
PRF				
324	Purchase Order Number	M AN 1/22	M AN 1/10	MBExtra Scheduling agreement number
328	Release Number	O AN 1/30	N	Not used
327	Change Order Sequence Number	O AN 1/8	N	Not used
373	Date	O DT 6/6	N	Not used
350	Assigned Identification	O AN 1/11	M AN 1/6	MBExtra Scheduling agreement item number
367	Contract Number	O AN 1/30	N	Not used
92	Purchase Order Type Code	O ID 2/2	N	Not used

Remark:

Field PRF01 In 830 transmission parts have been ordered in reference to the MBExtra scheduling agreement number in field LIN05(PO)

Field PRF05 In 830 transmission parts have been ordered in reference to the MBExtra scheduling agreement number in field LIN05(PO) and LIN01 that holds the scheduling agreement item number

→ Both scheduling agreement number and scheduling agreement item number have to be referenced here per item loop!

Example:

PRF*5500115222****00060!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.9.4 PID Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-LIN-SN1-PRF-PID-MEA-N1
0070	43	PID	M	200	2	Product/Item Description

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
PID				
349	Item Description Type	M ID 1/1	M ID 1/1	F Free-form
750	Product/Process Characteristic Code	O ID 2/3	N	Not used
559	Agency Qualifier Code	C ID 2/2	C ID 2/2	AB Assigned by Buyer
751	Product Description Code	C AN 1/12	C AN 1/1	S Series M Sample E Substitute

Remark:

Example:

PID*F**AB*S!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.9.5 N1 Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0220		N1	M	200	2	N1-N4
0220	45	N1	M	1	2	Name

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
N1				
98	Entity Identifier Code	M ID 2/2	M ID 2/2	ST Ship To
93	Name	C AN 1/35	M A 1/35	MBExtra
66	Identification Code Qualifier	C ID 1/2	M ID 1/2	92 Assigned by Buyer or Buyer's Agent
67	Identification Code	C AN 2/20	M AN 2/4	MBExtra Plant code
706	Entity Relationship Code	O ID 2/2	N	Not used
98	Entity Identifier Code	O ID 2/2	N	Not used

Remark:

Field N104 Information is transmitted in 830 transmission in field N104(ST)

Example:

N1*ST*MBExtra*92***US02**! (JIT Non FCL -> BSN=00)
 N1*ST*MBExtra*92***DD02**! (JIT FCL -> BSN=12 **or Direct SC Incoterms -> BSN=13**)
 N1*ST*MBExtra*92***DD03**! (JIT **BSN=13**)

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.9.6 N4 Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0220		N1	M	200	2	N1-N4
0250	46	N4	M	1	3	Geographic Location

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
N4				
19	City Name	O AN 2/30	N	Not used
156	State or Province Code	O ID 2/2	N	Not used
116	Postal Code	O ID 3/11	N	Not used
26	Country Code	O ID 2/3	N	Not used
309	Location Qualifier	C ID 1/2	M ID 1/2	DE Destination (Shipping)
310	Location Identifier	O AN 1/30	M AN 3/4	MBExtra storage location

Remark:

Field N406 Field contains current MBExtra storage location (which is subject to change and shall not be hardcoded in your system).
Information is sent in 830 transmission per item in field N406 where N405 =DE

Example:

N4*****DE*PLT1!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.10 HL Segment – Pack Loop

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-LIN-SN1-PO4-MEA-PKG-REF
0010	47	HL	M	1	1	Hierarchical Level

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
HL				
628	Hierarchical ID Number	M AN 1/12	M AN 1/12	Holds number of current level
734	Hierarchical Parent ID Number	O AN 1/12	M AN 1/12	Holds number of upper-level (Parent ID)
735	Hierarchical Level Code	M ID 1/2	M ID 1/2	P Pack
736	Hierarchical Child Code	O ID 1/1	N	Not used

Remark:

Example:

HL*4*3*P!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.10.1 LIN Segment - Packaging

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-LIN-SN1-PO4-MEA-PKG-REF
0020	48	LIN	M	1	2	Item Identification

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
LIN				
350	Assigned Identification	O AN 1/11	N	Not used
235	Product/Service ID Qualifier	M ID 2/2	M ID 2/2	RC Returnable Container No.
234	Product/Service ID	M AN 1/40	M AN 1/40	MBExtra packaging material number

Remark:

Field LIN02 The field always contains the qualifier "RC". Even if disposable packaging is used. The MBExtra packaging material number in field LIN03 identifies if the packaging is returnable or not.

Field LIN03 Packaging material number assigned and communicated by MBExtra Packaging department with packaging instruction

Please note: **MBExtra packaging material numbers have to be used in all 856 transmissions. If disposable packaging is used, please request the according MBExtra packaging material number.**

Example:

LIN**RC*T515266!

2.10.2 SN1 Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-LIN-SN1-PO4-MEA-PKG-REF
0030	49	SN1	M	1	2	Item Detail (Shipment)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
SN1				
350	Assigned Identification	O AN 1/11	N	Not used
382	Number of Units Shipped	M R 1/10	M R 1/10	Number of totes
355	Unit or Basis for Measurement Code	M ID 2/2	M ID 2/2	EA Each

Remark:

Example:

SN1**11*EA!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.10.3 PO4 Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-LIN-SN1-PO4-MEA-PKG-REF
0060	50	PO4	C	1	2	Item Physical Details

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
PO4				
356	Pack	O N0 1/6	N	Not used
357	Size	C R 1/8	M R 1/8	Quantity per tote
355	Unit or Basis for Measurement Code	C ID 2/2	M ID 2/2	Quantity as specified in SN1 segment of item loop

Remark:

Segment PO4 Segment is needed if a single load unit is built with this loop. If the loop is built for an auxiliary packaging material, e.g. lids, dunnage with a T5-code or layers in GLTs, this segment is not needed.. (see examples)

Example:

PO4**7*EA!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.10.4 PKG Segment – Type of Package

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-LIN-SN1-PO4-MEA-PKG-REF
0100	54	PKG	C	25	2	Marking, Packaging, Loading

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
PKG				
349	Item Description Type	C ID 1/1	C ID 1/1	F Free-form
753	Packaging Characteristic Code	O ID 1/5	M ID 1/5	10 Shipping Package Labeling
559	Agency Qualifier Code	C ID 2/2	M ID 2/2	AI Automotive Industry Action Group
754	Packaging Description Code	C AN 1/7	M AN 1/7	S Single

Remark:

Segment PKG Segment is needed if a single load unit is built with this loop. If the loop is built for an auxiliary packaging material, e.g. lids, dunnage with a T5-code or layers in GLTs, this segment is not needed. (see examples)

Example:

PKG*F*10*AI*S!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.10.5 REF Segment – Serial Number(s)

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	HL-LIN-SN1-PO4-MEA-PKG-REF
0150	55	REF	C	>1	2	Reference Numbers

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
REF				
128	Reference Number Qualifier	M ID 2/2	M ID 2/2	LS Bar-Coded Serial Number
127	Reference Number	C AN 1/30	M AN 10/10	

Remark:

Field REF02 The field contains the serial number/package ID assigned to a single box .

This number must be unique and must not repeat within the calendar year.

Note: The supplier handling unit range will be supplied by MBExtra. The first three digits are set for supplier identification and the remaining seven digits are generated by the supplier. **Example: 9990000000 - 9999999999**

Segment REF Segment is needed if a single load unit is built with this loop. If the loop is built for an auxiliary packaging material, e.g. lids, dunnage with a T5-code or layers in GLTs, this segment is not needed. (see examples)

Example:

REF*LS*1050004152!

No = Consecutive segment number
MaxOcc = Maximum occurrence of the segment/group
Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
O=Optional, F=Floating, D=Dependent, A=Advised,
S=Situational, X=Not used, N=Not recommended)

2.11 CTT Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0010	56	CTT	M	1	0	Transaction Totals

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
CTT				
354	Number of Line Items	M N0 1/6	M N0 1/6	(total number of HL* loops)
347	Hash Total	O R 1/10	N	Not used
81	Weight	C R 1/10	N	Not used
355	Unit or Basis for Measurement Code	C ID 2/2	N	Not used
183	Volume	C R 1/8	N	Not used
355	Unit or Basis for Measurement Code	C ID 2/2	N	Not used
352	Description	O AN 1/80	N	Not used

Remark:

Example:

CTT*7!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.12 SE Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0020	57	SE	M	1	0	Transaction Set Trailer

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
SE				
96	Number of Included Segments	M N0 1/10	M N0 1/10	
329	Transaction Set Control Number	M AN 4/9	M AN 4/9	

Remark:

Example:

SE*88*000000184!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.13 GE Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0000	58	GE	M	1	0	Functional Group Trailer

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
GE				
97	Number of Transaction Sets Included	M N0 1/6	M N0 1/6	
28	Group Control Number	M N0 1/9	M N0 1/9	

Remark:

Example:

GE*1*184!

No = Consecutive segment number
 MaxOcc = Maximum occurrence of the segment/group
 Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,
 O=Optional, F=Floating, D=Dependent, A=Advised,
 S=Situational, X=Not used, N=Not recommended)

2.14 IEA Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0000	59	IEA	M	1	0	Interchange Control Trailer

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
IEA				
I16	Number of Included Functional Groups	M N0 1/5	M N0 1/5	
I12	Interchange Control Number	M N0 9/9	M N0 9/9	

Remark:

Example:

IEA*1*000000184!

3 Appendix

3.1 General information

856 transmissions have to be built per unloading point as a split criteria (unloading point information has to be transmitted in segment HL-MEA-TD1-TD5-TD3-REF with Reference Number Qualifier REF01 = DK)

3.2 Format of MBExtra part number from LIN03 in item loops

The MBExtra part number is specified in the material release.

Valid MBExtra part numbers generally consist of a letter ("A", "B", "H", "Z" or "T" (for new containers)) and 8-11 numbers.

No blank spaces or special characters

Exceptions: part numbers with supplementary codes ES1 and ES2

Example 1: Daimler part number without supplementary code

Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Customer Part number																						
Entry																						
Daimler Part number	A	1	2	4	4	0	1	1	2	6	1											

Example 2: Daimler part number for "colored" parts with indicator letter A and supplementary code (ES1), ES2

Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Customer Part number																						
Entry																						
Daimler Part number	A	1	2	4	4	0	1	1	2	6	1							9	0	5	1	

No = Consecutive segment number

MaxOcc = Maximum occurrence of the segment/group

Counter = Counter of segment/group within the standard

St = Status (M=Mandatory, R=Required, C=Conditional,

O=Optional, F=Floating, D=Dependent, A=Advised,

S=Situational, X=Not used, N=Not recommended)

3.3 Example messages

Below are some general guidelines followed by examples that focus on the physical appearance of the delivery, compared to the representation in the ASN.

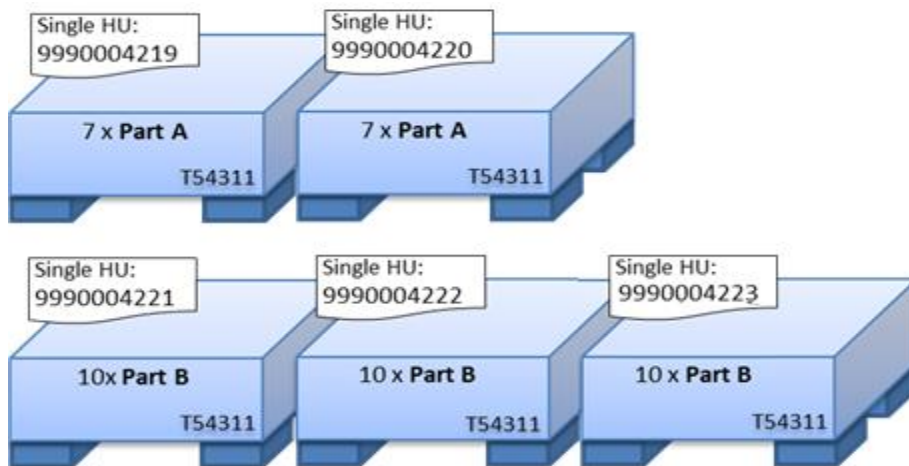
- Tare Loops are required when handling units (ex: small totes) are assigned to a master handling unit (e.g.: pallet)
- All handling units referenced in a pack loop need to be physically identical (T5-code & items per tote)
- Handling units with different physical content (T5-code or items per tote) need a separate pack loop
- Pack loops for auxiliary packaging material don't contain a REF segment
- Pack loops without a REF segment must refer to a Tare or Pack loop with a REF Segment.
- For every master handling unit (e.g.: pallet) a separate tare loop must be created.

3.3.1 Single containers

Five single containers packed with different part numbers with 2 RANs for Part A and 1 RAN for Part B:

Part A packed in 2 totes with 7 EA per tote

Part B packed in 3 totes with 10 EA



For every different material with same Quantity in the same tote type build one new Item loop.
For every different tote type or different quantity of material build one Pack Loop.

```
ISA*00**00**ZZ*INT*ZZ*DAI_GSSPLUS_P*150720*1233*U*00200*000000185*0*P*:*!  
GS*SH*15437320B*18802587*150720*1233*184*X*004010!  
ST*856*000000185!  
BSN*12*GAD21783*150720*1233!  
DTM*011*150720*1233!  
DTM*017*150720*1433!
```

HL*1**S!

Shipment Loop

```
MEA**G*2*LB!  
MEA**N*1*LB!  
TD1*PCS*5!  
TD5**2*CN*J!  
TD3*TL*AC01*A001105!  
REF*BM*GAD21783!  
REF*CN*570132!
```

REF*DK*A1U1!
FOB*CC***01*FCA!
N1*ST*MBExtra*92*DD02!
N4*****DE*PLT1!
N1*SU*US GADSDEN (GAD)*92*015437320B!

HL*2*1*I! Item Loop (Material A) RAN1

LIN*00010*BP*A2057801300*EC*Z001Q002!
SN1**7*EA!
PRF*5500115229*****00060!
PID*F**AB*S!
MEA**G*0*LB!
N1*ST*MBExtra*92*DD02!
N4*****DE*PLT1!
REF*JN*FJ96688

HL*3*2*P! Pack Loop

LIN**RC*T54311!
SN1**1*EA!
PO4**7*EA!
PKG*F*10*AI*S!
REF*LS*9990004219!

HL*4*1*I! Item Loop (Material A) RAN2

LIN*00010*BP*A2057801300*EC*Z001Q002!
SN1**7*EA!
PRF*5500115229*****00060!
PID*F**AB*S!
MEA**G*0*LB!
N1*ST*MBExtra*92*DD02!
N4*****DE*PLT1!
REF*JN*FJ96689

HL*5*4*P! Pack Loop

LIN**RC*T54311!
SN1**1*EA!
PO4**7*EA!
PKG*F*10*AI*S!
REF*LS*9990004220!

HL*6*1*I! Item Loop (Material B) RAN3

LIN*00020*BP*A2057801312*EC*Z002Q003!
SN1**30*EA!
PRF*5500115230*****00070!
PID*F**AB*S!
N1*ST*MBExtra*92*DD02!
N4*****DE*PLT1!
REF*JN*FJ96690

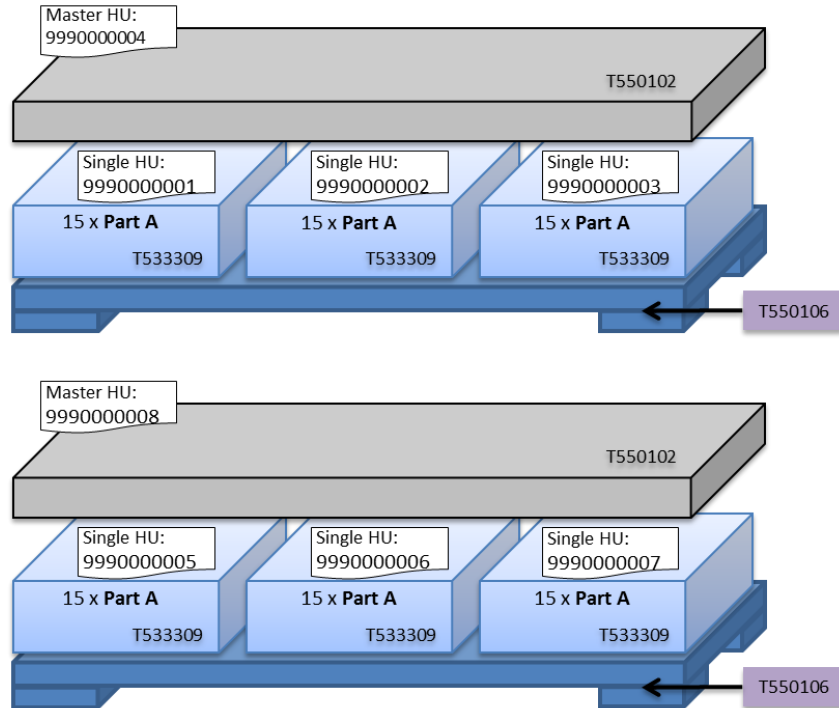
HL*7*6*P! Pack Loop

LIN**RC*T54311!
SN1**3*EA!
PO4**10*EA!
PKG*F*10*AI*S!
REF*LS*9990004221!
REF*LS*9990004222!
REF*LS*9990004223!

CTT*7!
SE*55*000000185!
GE*1*184!
IEA*1*000000185!

3.3.2 Master pallet with auxiliary packaging

Six KLTs (small totes) filled with the same material (15 pieces per KLT), stacked on two pallets with three KLTs per pallet. The 856 is in reference to 3 RANs with 15 EA each and 1 RAN with 45EA for the same material. Each master pallet has a lid on top (auxiliary packaging):



```
ISA*00**00**ZZ*INT*ZZ* DAI_GSSPLUS_P*150720*1233*U*00200*000000184*0*P*:*!
GS*SH*15437320B*18802587*150720*1233*184*X*004010!
ST*856*000000184!
BSN*12*GAD21783*150720*1233!
DTM*011*150720*1233!
DTM*017*150720*1433!
```

HL*1**S!

Shipment Loop

```
MEA**G*2*LB!
MEA**N*1*LB!
TD1*PCS*2!
TD5**2*CN*J!
TD3*TL*AC01*A001105!
REF*BM*GAD21783!
REF*CN*570132!
REF*DK*W1H1!
FOB*CC***01*FCA!
N1*ST*MBExtra*92*DD02!
N4*****DE*PLT1!
N1*SU*US GADSDEN (GAD)*92*015437320B!
```

HL*2*1*T!

Tare Loop (representing 1st base pallet)

```
LIN**RC*T550106!
SN1**1*EA!
PKG*F*10*AI*M!
```

REF*LS*9990000004!

HL*3*2*I!

Item Loop RAN 1

LIN*00010*BP*A1669801964*EC*Z001Q002!

SN1**45*EA!

PRF*5500115222*****00060!

PID*F**AB*S!

N1*ST*MBExtra*92*DD02!

N4*****DE*PCC2!

REF*JN*FJ96688

HL*4*3*P!

Pack Loop (KLTs)

LIN**RC*T533309!

SN1**3*EA!

PO4**15*EA!

PKG*F*10*AI*S!

REF*LS*9990000001!

REF*LS*9990000002!

REF*LS*9990000003!

HL*5*2*P!

Pack Loop (Auxiliary packaging)

LIN**RC*T550102!

SN1**1*EA!

HL*6*1*T!

Tare Loop (representing 2nd base pallet)

LIN**RC*T550106!

SN1**1*EA!

PKG*F*10*AI*M!

REF*LS*99900000008!

HL*7*6*I!

Item Loop RAN 2

LIN*00020*BP*A1669801964*EC*Z001Q002!

SN1**15*EA!

PRF*5500115222*****00060!

PID*F**AB*S!

N1*ST*MBExtra*92*DD02!

N4*****DE*PCC2!

REF*JN*FJ96689

HL*8*7*P!

Pack Loop

LIN**RC* T533309!

SN1**1*EA!

PO4**15*EA!

PKG*F*10*AI*S!

REF*LS*99900000005!

HL*9*6*I!

Item Loop RAN 3

LIN*00020*BP*A1669801964*EC*Z001Q002!

SN1**15*EA!

PRF*5500115222*****00060!

PID*F**AB*S!

N1*ST*MBExtra*92*DD02!

N4*****DE*PCC2!

REF*JN*FJ96690

HL*10*9*P!

Pack Loop

LIN**RC* T533309!

SN1**1*EA!

PO4**15*EA!

PKG*F*10*AI*S!

REF*LS*99900000006!

HL*11*6*I!

Item Loop RAN 4

LIN*00020*BP*A1669801964*EC*Z001Q002!

MBExtra_004010_856

SN1**15*EA!
PRF*5500115222***00060!
PID*F**AB*S!
N1*ST*MBExtra*92*DD02!
N4*****DE*PCC2!
REF*JN*FJ96691

HL*12*11*P!

Pack Loop

LIN**RC* T533309!
SN1**1*EA!
PO4**15*EA!
PKG*F*10*AI*S!
REF*LS*9990000007!

HL*13*6*P!

Pack Loop (Auxiliary packaging)

LIN**RC*T550102!
SN1**1*EA!

CTT*13!
SE*76*000000184!
GE*1*184!
IEA*1*000000184!