Message Implementation Guideline

MBExtra_004010_856

based on

856 for JIT Process
Ship Notice/Manifest

X12 004010

Version 1.6: January 17, 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
1.6	17.1.2020	ISA, GS, BSN, TD3(TL), N1(ST), N1(SU), LIN(RC), REF(LS) LIN(BP)	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-TD5-TD3-REF-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**	**Supplier trading partner id**
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 N0 9/9	M N0 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	**SHShip 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	**MB ExTra customer number as communicated in 830**
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 N0 1/9	M N0 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 for the specific supplier ship-from location. This number is assigned to the supplier's ship-from location by MBExtra.

Field GS03 Suppliers are required to use the customer number for MBExtra's location, which is transmitted in the 830.

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" -> Shipment from part supplier to MBExTra consolidation center Laredo (Parts finally going to the MX plant)** **"12" -> Shipment from part supplier directly to MX plant (only here is an 862 involved)** **"13" -> Shipment from part supplier directly to rest of world plants -> Eg. Rastatt, Sindelfingen, Bremen, etc.**
396	Shipment Identification	M AN 2/30	M AN 2/10	**Supplier's 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: Supplier's 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 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:

Example:

```
DTM*011*150720*1233!
```

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!
```

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!
```

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 N0 1/7	M N0 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	**TLTrailer (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	**Shipment identifier**
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 TD302

BSN01= “12”- SCAC code according to MBExTra definition – containing supplier qualifier and delivery window number

BSN01= “00”or “13” -SCAC code according to:

FTL/FCL- SCAC code of the trailer/container carrier

LTL/LCL – Carrier code of the used end-to-end identifier

Field TD303

End to end shipment identifier (without the TD302 details)

Example:

```
BSN01=”12”:  TD3*TL*AC01*A001105!
BSN01=”00”:  TD3*TL*AVRT*2942435218!
BSN01=”13”:  TD3*TL*TGHU*7599330! (FCL)
BSN01=”13”:  TD3*TL*CNWY*8746589475!  (LTL)
```

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*620A!
```

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. This segment should only be used for BSN01=”12”

Example:
REF*JN*FJ96688 – Standard RAN
REF*JN*FJ96687A – A-RAN for additional demand

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!
```

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

2.7.15 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! (BSN01="00")
N1*ST*MBExtra*92*DD02! (BSN01="12" or "13")
```

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*FN90!
```

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.

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

Example:

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

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)

Example:

```
N1*CS*CONSOLIDATOR*92*1234567890!
```

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.

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.

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.
BSN01=”00” or “12” –Serial number must be 10 digits.
BSN01=”13” –Serial number must be 10 digits, but the first digit must always be zero.

Example:

```
BSN=”00” and “12” REF*LS*1050004219!
BSN=”13” REF*LS*0150004219!
```

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 Z**001**Q**001 (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**

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 Positon "5" and then three-digit number .
Example: Z001Q002 or Z001E001

Field LIN07 Customer material number transmitted with 862 Shipping Schedule in field LIN07 (For BSN01=”12”)

Example:

```
LIN*00010*BP*A1775407923*EC*Z001Q002*ON*A1775407923D!
```

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!
```

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**! (BSN01=”00”)
N1*ST*MBExtra*92***DD02**! (BSN01=”12” or “13”)

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*FN90!
```

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!
```

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)

2.10.2 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!
```

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

2.10.3 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!
```

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 handling unit number assigned to a master pallet. This number must be unique and must not repeat within the calendar year.
BSN01=”00” or “12” –Serial number must be 10 digits.
BSN01=”13” –Serial number must be 10 digits, but the first digit must always be zero.

Example:

```
BSN=”00” and “12” REF*LS*1050004219!
BSN=”13” REF*LS*0150004219!
```

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!
```

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!
```

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!
```

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

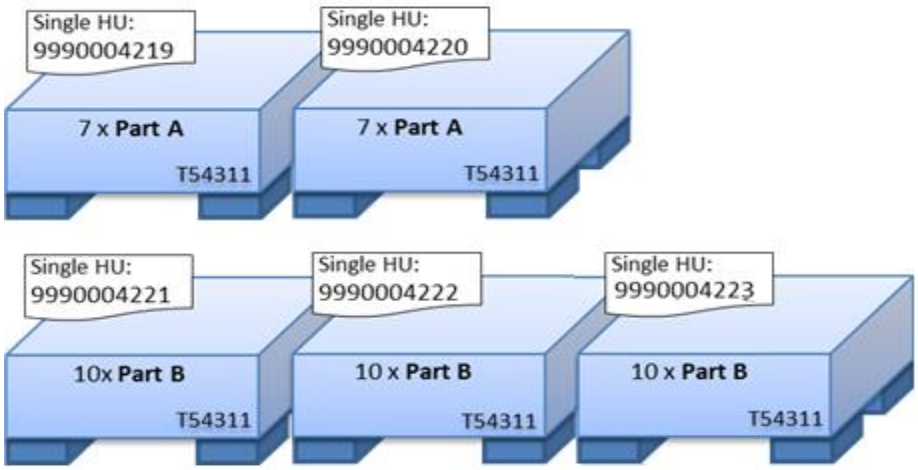
3.3 Example messages

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



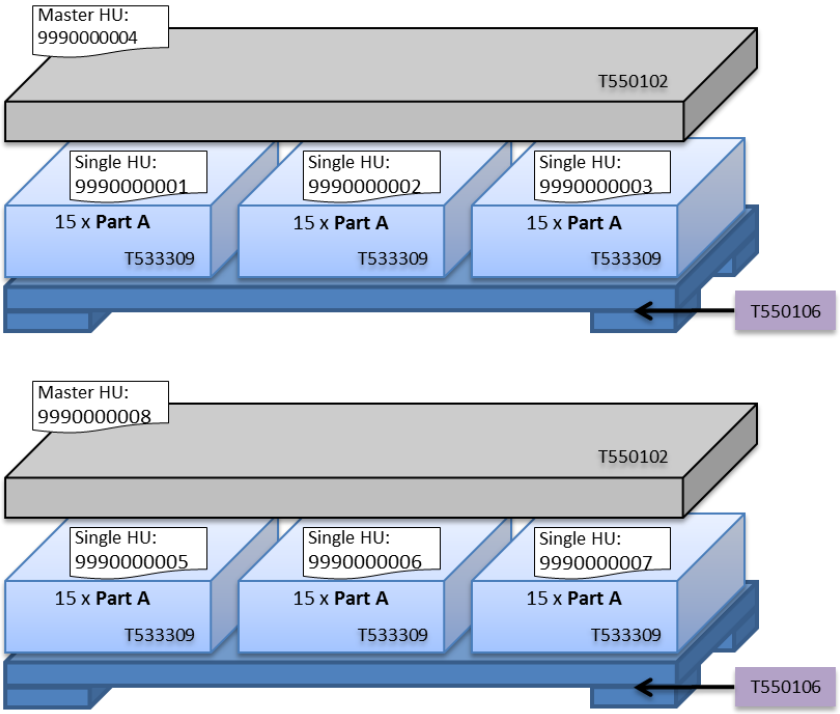
For every different material with same Quantity in the same tote type build one new Item loop.
For every different tote type or different quantity of material build one Pack Loop.

```
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*9990000008!
  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*9990000005!
  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*9990000006!
  HL*11*6*I!                                               Item Loop RAN 4
  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*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!
```