



Message Implementation Guideline

## **BENTELER ANSI X12 856 4010**

based on

**856**  
Ship Notice/Manifest

**X12 004010**

Version: 1.2  
Issue date: 04.08.2022  
Author: BENTELER

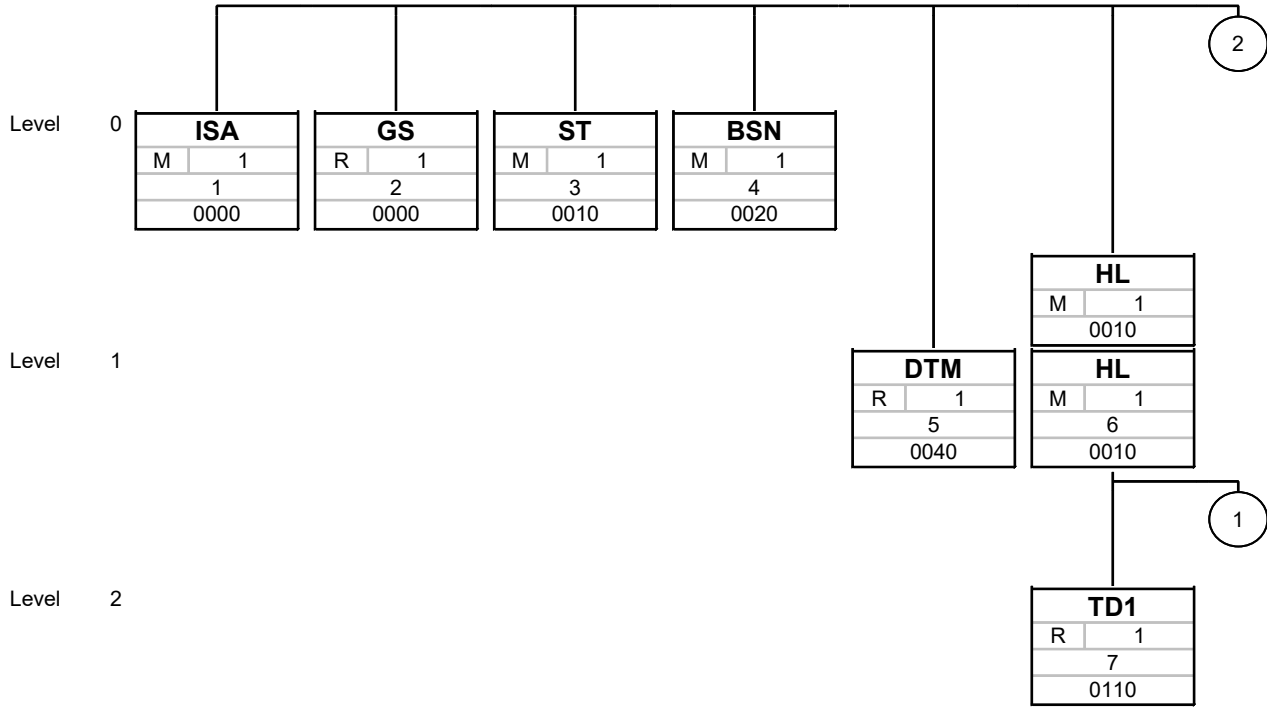
**Structure / Table of Contents**

Counter	No	Tag	St	MaxOcc	Level	Content
0000	1	<b>ISA</b>	M	1	0	Interchange Control Header
0000	2	<b>GS</b>	R	1	0	Functional Group Header
0010	3	<b>ST</b>	M	1	0	Transaction Set Header
0020	4	<b>BSN</b>	M	1	0	Beginning Segment for Ship Notice
0040	5	<b>DTM</b>	R	1	1	SHIPPED DATE
0010		<b>HL</b>	M	1	1	SHIPMENT LEVEL
0010	6	<b>HL</b>	M	1	1	Hierarchical Level
0110	7	<b>TD1</b>	R	1	2	Carrier Details (Quantity and Weight)
0120	8	<b>TD5</b>	R	1	2	Carrier Details (Routing Sequence/Transit Time)
0130	9	<b>TD3</b>	R	1	2	Carrier Details (Equipment)
0150	10	<b>REF</b>	D	>1	2	SHIPPING NOTE NUMBER
0220		<b>N1</b>	R	1	2	SHIP-TO
0220	11	<b>N1</b>	M	1	2	Name
0220		<b>N1</b>	R	1	2	SUPPLIER
0220	12	<b>N1</b>	M	1	2	Name
0010		<b>HL</b>	M	200000	1	ITEM LEVEL
0010	13	<b>HL</b>	M	1	1	Hierarchical Level
0020	14	<b>LIN</b>	R	1	2	Item Identification
0030	15	<b>SN1</b>	R	1	2	Item Detail (Shipment)
0170		<b>CLD</b>	D	200	2	PACKAGING
0170	16	<b>CLD</b>	M	1	2	Load Detail
0180	17	<b>REF</b>	R	200	3	Reference Identification
0010	18	<b>CTT</b>	R	1	0	Transaction Totals
0020	19	<b>SE</b>	M	1	0	Transaction Set Trailer
0000	20	<b>GE</b>	R	1	0	Functional Group Trailer
0000	21	<b>IEA</b>	M	1	0	Interchange Control Trailer

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

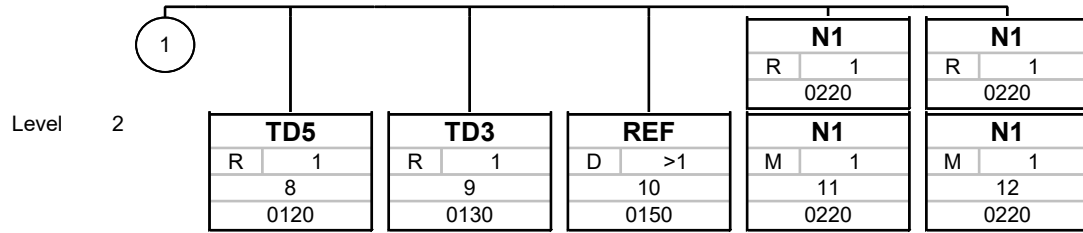
St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

**Branching Diagram of Used Segments/Groups**



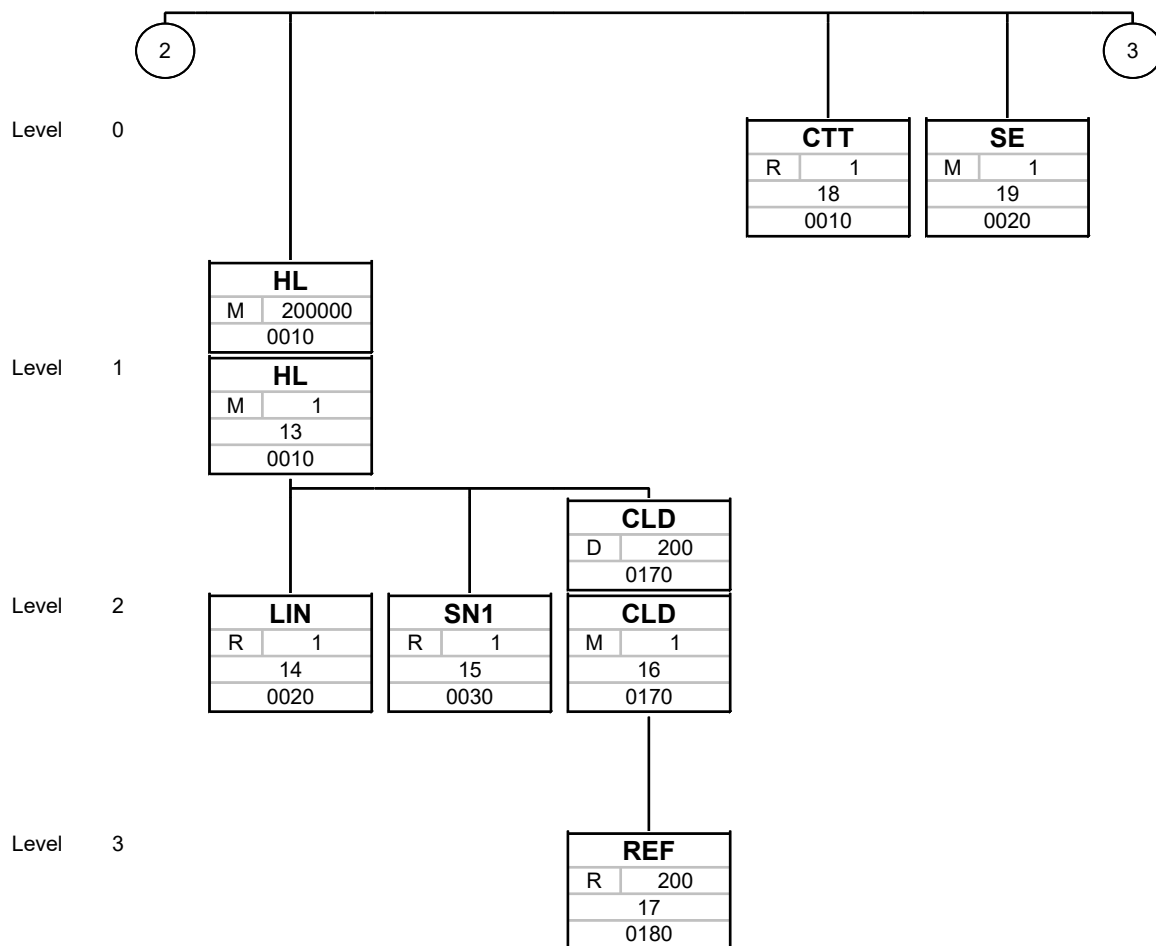
Tag
St MaxOcc
No
Counter

Tag = Segment/Group Tag  
 St = Status (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)  
 MaxOcc = Maximum occurrence of the segment/group  
 No = Consecutive segment number  
 Counter = Counter of segment/group within the standard



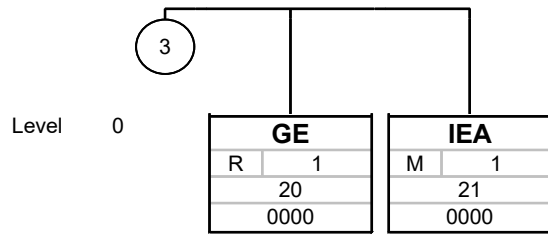
Tag
St MaxOcc
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Counter

Tag = Segment/Group Tag  
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St MaxOcc
No
Counter

Tag = Segment/Group Tag  
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 MaxOcc = Maximum occurrence of the segment/group  
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Tag
St MaxOcc
No
Counter

Tag = Segment/Group Tag  
 St = Status (M=Mandatory, C=Conditional, R=Required, O=Optional, A=Advised, D=Dependent)  
 MaxOcc = Maximum occurrence of the segment/group  
 No = Consecutive segment number  
 Counter = Counter of segment/group within the standard

**Segments**

Counter	No	Tag	St	MaxOcc	Level	Name
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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	<b>00 No Authorization Information Present (No Meaningful Information in I02)</b>
I02	Authorization Information	M AN 10/10	M AN 10/10	Use Ten Spaces
I03	Security Information Qualifier	M ID 2/2	M ID 2/2	<b>00 No Security Information Present (No Meaningful Information in I04)</b>
I04	Security Information	M AN 10/10	M AN 10/10	Use Ten Spaces
I05	Interchange ID Qualifier	M ID 2/2	M ID 2/2	<b>01 Duns (Dun &amp; Bradstreet)</b> <b>ZZ Mutually Defined</b> Other applicable codes possible
I06	Interchange Sender ID	M AN 15/15	M AN 15/15	Left Justify, Space Fill
I05	Interchange ID Qualifier	M ID 2/2	M ID 2/2	<b>01 Duns (Dun &amp; Bradstreet)</b> <b>ZZ Mutually Defined</b> Other applicable codes possible
I07	Interchange Receiver ID	M AN 15/15	M AN 15/15	Left Justify, Space Fill
I08	Interchange Date	M DT 6/6	M DT 6/6	Format YYMMDD
I09	Interchange Time	M TM 4/4	M TM 4/4	Format HHMM
I10	Interchange Control Standards Identifier	M ID 1/1	M ID 1/1	<b>U U.S. EDI Community of ASC X12, TDCC, and UCS</b>
I11	Interchange Control Version Number	M ID 5/5	M ID 5/5	<b>00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997</b>
I12	Interchange Control Number	M N0 9/9	M N0 9/9	A control number assigned by the interchange sender
I13	Acknowledgment Requested	M ID 1/1	M ID 1/1	<b>0 No Acknowledgment Requested</b> <b>1 Interchange Acknowledgment Requested</b>
I14	Usage Indicator	M ID 1/1	M ID 1/1	<b>P Production Data</b> <b>T Test Data</b>
I15	Component Element Separator	M AN 1/1	M AN 1/1	Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator

**Remark:**

**Example:**

ISA\*00\* \*00\* \*ZZ\*SUPPLIERID \*ZZ\*BENTUSA \*220324\*1132\*U\*00401\*00000001  
2\*0\*P\*:

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

St = Status  
EDIFACT: M=Mandatory, C=Conditional  
User specific: R=Required, O=Optional, D=Dependent,  
A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
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0000 2 **GS** R 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	<b>SH Ship Notice/Manifest (856)</b>
142	Application Sender's Code	M AN 2/15	M AN 2/15	Sender ID or DUNS
124	Application Receiver's Code	M AN 2/15	M AN 2/15	Receiver ID or DUNS
373	Date	M DT 8/8	M DT 8/8	Format CCYYMMDD
337	Time	M TM 4/8	M TM 4/8	Format HHMM
28	Group Control Number	M N0 1/9	M N0 1/9	Start with 1 and increment by 1 for each subsequent GS Segment
455	Responsible Agency Code	M ID 1/2	M ID 1/2	<b>X Accredited Standards Committee X12</b>
480	Version / Release / Industry Identifier Code	M AN 1/12	M AN 1/12	<b>004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997</b>

**Remark:**

**Example:**

GS\*SH\*SUPPLIERID\*BENTUSA\*20230324\*1132\*1\*X\*004010!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
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Counter	No	Tag	St	MaxOcc	Level	Name
0010	3	<b>ST</b>	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	<b>856 Ship Notice/Manifest</b>
329	Transaction Set Control Number	M AN 4/9	M AN 4/9	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

**Remark:**

**Example:**

ST\*856\*0001!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

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	<b>00 Original</b>
396	Shipment Identification	M AN 2/30	M AN 2/30	A unique control number assigned by the original shipper to identify a specific shipment. Must not repeat within 1 year
373	Date	M DT 8/8	M DT 8/8	Format CCYYMMDD
337	Time	M TM 4/8	M TM 4/8	Format HHMM
1005	Hierarchical Structure Code	O ID 4/4	N	Not used
640	Transaction Type Code	C ID 2/2	N	Not used
641	Status Reason Code	O ID 3/3	N	Not used

**Remark:**

**Example:**

BSN\*00\*40202023\*20230324\*1132!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
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0040	5	<b>DTM</b>	R	1	1	SHIPPED DATE
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		Standard	Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
DTM					
374	Date/Time Qualifier	M ID 3/3	M ID 3/3	<b>011 Shipped</b>	
373	Date	C DT 8/8	R DT 8/8	Format CCYYMMDD	
337	Time	C TM 4/8	R TM 4/8	Format HHMM	
623	Time Code	O ID 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\*20220323\*1200!

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

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 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
	0010	HL	M	1	1	SHIPMENT LEVEL
	0010	6 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	A unique number assigned by the sender to identify a particular data segment in a hierarchical structure
734	Hierarchical Parent ID Number	O AN 1/12	N	Not used
735	Hierarchical Level Code	M ID 1/2	M ID 1/2	<b>S Shipment</b>
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

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 EDIFACT: M=Mandatory, C=Conditional  
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 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
	0010	HL	M	1	1	SHIPMENT LEVEL
	0110	7 TD1	R	1	2	Carrier Details (Quantity and Weight)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
TD1				
103	Packaging Code	O AN 3/5	N	Not used
80	Lading Quantity	C N0 1/7	R N0 1/7	Number of units (pieces) of the lading commodity
23	Commodity Code Qualifier	O ID 1/1	N	Not used
22	Commodity Code	C AN 1/30	N	Not used
79	Lading Description	O AN 1/50	N	Not used
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
183	Volume	C R 1/8	N	Not used
355	Unit or Basis for Measurement Code	C ID 2/2	N	Not used

**Remark:**

**Example:**

TD1\*\*150!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
	0010	<b>HL</b>	M	1	1	<b>SHIPMENT LEVEL</b>
	0120	<b>TD5</b>	R	1	2	<b>Carrier Details (Routing Sequence/Transit Time)</b>

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
TD5				
133	Routing Sequence Code	O ID 1/2	R ID 1/2	<b>B Origin/Delivery Carrier (Any Mode)</b>
66	Identification Code Qualifier	C ID 1/2	R ID 1/2	<b>2 Standard Carrier Alpha Code (SCAC)</b>
67	Identification Code	C AN 2/80	R AN 2/80	
91	Transportation Method/Type Code	C ID 1/2	R ID 1/2	Code specifying the method or type of transportation for the shipment Any valid X12 code values except "ZZ" (Mutually Defined)
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	N	Not used
310	Location Identifier	C AN 1/30	N	Not used
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
284	Service Level Code	C ID 2/2	N	Not used
284	Service Level Code	O ID 2/2	N	Not used
26	Country Code	O ID 2/3	N	Not used

**Remark:**

**Example:**

TD5\*B\*2\*PRTS\*M!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
	0010	HL	M	1	1	SHIPMENT LEVEL
	0130	9 TD3	R	1	2	Carrier Details (Equipment)

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
TD3				
40	Equipment Description Code	C ID 2/2	R ID 2/2	Code identifying type of equipment used for shipment Any valid X12 code values except "ZZ" (Mutually Defined)
206	Equipment Initial	O AN 1/4	N	Not used
207	Equipment Number	C AN 1/10	R 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
24	Equipment Type	C ID 4/4	N	Not used

**Remark:**

**Example:**

TD3\*TL\*\*1234954!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
	0010	<b>HL</b>	M	1	1	<b>SHIPMENT LEVEL</b>
	0150	10 <b>REF</b>	D	>1	2	<b>SHIPPING NOTE NUMBER</b>

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
REF				
128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	AEV - Shipping note number
127	Reference Identification	C AN 1/30	R AN 1/30	
352	Description	C AN 1/80	N	Not used
C040	Reference Identifier	O	N	
128	Reference Identification Qualifier	M ID 2/3	N	Not used
127	Reference Identification	M AN 1/30	N	Not used
128	Reference Identification Qualifier	C ID 2/3	N	Not used
127	Reference Identification	C AN 1/30	N	Not used
128	Reference Identification Qualifier	C ID 2/3	N	Not used
127	Reference Identification	C AN 1/30	N	Not used

**Remark:**

The advanced shipping note number needs to be send back in 856 when supplier received it in a BENTELER Pickup sheet message before (Reference in DELJIT D97A PUS message is: RFF+AAU).

**Example:**

REF\*AEV\*007983484!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
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Counter	No	Tag	St	MaxOcc	Level	Name
0220		<b>N1</b>	R	1	2	<b>SHIP-TO</b> Should return what was sent in 862 N1 Ship To Information
0220	11	<b>N1</b>	M	1	2	<b>Name</b>

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
N1				
98	Entity Identifier Code	M ID 2/3	M ID 2/3	<b>ST Ship To</b>
93	Name	C AN 1/60	O AN 1/60	Free form name
66	Identification Code Qualifier	C ID 1/2	R ID 1/2	<b>98 Purchasing Office</b>
67	Identification Code	C AN 2/80	R AN 2/80	The Benteler Plant Code, Dined as Follows 0440 - Corporate 0442 - Hall Street Plant 0443 - Hagen Drive Plant 0444 - Clay Avenue Plant 0447 - Fort Wayne 0449 - Opelika Plant 0470 - Windsor Plant 0471 - Brampton Plant  Other will be possible
706	Entity Relationship Code	O ID 2/2	N	Not used
98	Entity Identifier Code	O ID 2/3	N	Not used

**Remark:**

**Example:**

N1\*ST\*BENTELER\*98\*0440!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name	
	0220	<b>N1</b>	R	1	2	<b>SUPPLIER</b>	
	0220	12	<b>N1</b>	M	1	2	<b>Name</b>

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
N1				
98	Entity Identifier Code	M ID 2/3	M ID 2/3	<b>SU Supplier/Manufacturer</b>
93	Name	C AN 1/60	O AN 1/60	Free form name
66	Identification Code Qualifier	C ID 1/2	R ID 1/2	<b>16 ZIP Code</b>
67	Identification Code	C AN 2/80	R AN 2/80	Supplier DUNS number
706	Entity Relationship Code	O ID 2/2	N	Not used
98	Entity Identifier Code	O ID 2/3	N	Not used

**Remark:**

**Example:**

N1\*SU\*Supplier Name\*16\*DUNS!

No = Consecutive segment number  
 MaxOcc = Maximum occurrence of the segment/group  
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 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
0010		HL	M	200000	1	ITEM LEVEL
0010	13	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	A unique number assigned by the sender to identify a particular data segment in a hierarchical structure
734	Hierarchical Parent ID Number	O AN 1/12	R AN 1/12	Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to
735	Hierarchical Level Code	M ID 1/2	M ID 1/2	<b>I Item</b>
736	Hierarchical Child Code	O ID 1/1	N	Not used

**Remark:**

**Example:**  
HL\*2\*1\*I!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
0010		<b>HL</b>	M	200000	1	<b>ITEM LEVEL</b>
0020	14	<b>LIN</b>	R	1	2	<b>Item Identification</b>

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
LIN				
350	Assigned Identification	O AN 1/20	N	Not used
235	Product/Service ID Qualifier	M ID 2/2	M ID 2/2	<b>BP Buyer's Part Number</b>
234	Product/Service ID	M AN 1/48	M AN 1/48	Benteler material number
235	Product/Service ID Qualifier	C ID 2/2	R ID 2/2	<b>EC Engineering Change Level</b>
234	Product/Service ID	C AN 1/48	R AN 1/48	Engineering Change Level
235	Product/Service ID Qualifier	C ID 2/2	R ID 2/2	<b>PL Purchaser's Order Line Number</b>
234	Product/Service ID	C AN 1/48	R AN 1/48	Purchase order line number
235	Product/Service ID Qualifier	C ID 2/2	R ID 2/2	<b>PO Purchase Order Number</b>
234	Product/Service ID	C AN 1/48	R AN 1/48	Number Used To Uniquely Identify The Purchasing Document
235	Product/Service ID Qualifier	C ID 2/2	R ID 2/2	<b>RN Release Number</b>
234	Product/Service ID	C AN 1/48	R AN 1/48	Release Number Of The Purchasing Document
235	Product/Service ID Qualifier	C ID 2/2	N	Not used
234	Product/Service ID	C AN 1/48	N	Not used
235	Product/Service ID Qualifier	C ID 2/2	N	Not used
234	Product/Service ID	C AN 1/48	N	Not used
235	Product/Service ID Qualifier	C ID 2/2	N	Not used
234	Product/Service ID	C AN 1/48	N	Not used
235	Product/Service ID Qualifier	C ID 2/2	N	Not used
234	Product/Service ID	C AN 1/48	N	Not used
235	Product/Service ID Qualifier	C ID 2/2	N	Not used
234	Product/Service ID	C AN 1/48	N	Not used
235	Product/Service ID Qualifier	C ID 2/2	N	Not used
234	Product/Service ID	C AN 1/48	N	Not used
235	Product/Service ID Qualifier	C ID 2/2	N	Not used
234	Product/Service ID	C AN 1/48	N	Not used
235	Product/Service ID Qualifier	C ID 2/2	N	Not used
234	Product/Service ID	C AN 1/48	N	Not used

**Remark:**

**Example:**

LIN\*\*BP\*60394943\*EC\*A\*PL\*00070\*PO\*5500000999\*RN\*12!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
0010		<b>HL</b>	M	200000	1	<b>ITEM LEVEL</b>
0030	15	<b>SN1</b>	R	1	2	<b>Item Detail (Shipment)</b>

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
SN1				
350	Assigned Identification	O AN 1/20	N	Not used
382	Number of Units Shipped	M R 1/10	M R 1/10	Numeric value of units shipped in manufacture's shipping units for a line item or transaction set
355	Unit or Basis for Measurement Code	M ID 2/2	M ID 2/2	Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken This Must Be The Same Unit Of Measurement Provided On The Corresponding Releasing Document.
646	Quantity Shipped to Date	O R 1/15	N	Not used
330	Quantity Ordered	C R 1/15	N	Not used
355	Unit or Basis for Measurement Code	C ID 2/2	N	Not used
728	Returnable Container Load Make-Up Code	O ID 1/2	N	Not used
668	Line Item Status Code	O ID 2/2	N	Not used

**Remark:**

For the 355 you should return the value sent in the 862 UIT segment

**Example:**

SN1\*\*500\*EA!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
0170		<b>CLD</b>	D	200	2	<b>PACKAGING</b>
If required by BENTELER process.						
0170	16	<b>CLD</b>	M	1	2	<b>Load Detail</b>

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
CLD				
622	Number of Loads	M N0 1/5	M N0 1/5	Amount of packages with same BENTELER packaging code (REF*LS_352) and same shipped units (CLD_382).
382	Number of Units Shipped	M R 1/10	M R 1/10	Amount of shipped units in one package.
103	Packaging Code	O AN 3/5	N	Not used
357	Size	C R 1/8	N	Not used
355	Unit or Basis for Measurement Code	O ID 2/2	N	Not used

**Remark:**

Use new CLD group when:

- a) BENTELER packaging code changes for Single boxes (REF\*LS\_352)
- b) amount of shipped units (CLD\_382) in one box changes.
- c) a new master unit has to be used.

**Example:**

CLD\*5\*100!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
	0170	<b>CLD</b>	D	200	2	<b>PACKAGING</b>
						If required by BENTELER process.
	0180	17 <b>REF</b>	R	200	3	<b>Reference Identification</b>

Standard			Implementation	
Tag	Name	St Format	St Format	Usage / Remark
REF				
128	Reference Identification Qualifier	M ID 2/3	M ID 2/3	<b>LS Single Package unit (KLT)</b> <b>LM Master Package unit (GLT)</b> <b>LG Mixed Package unit</b> <b>AX Auxilliary packaging</b>
127	Reference Identification	C AN 1/30	R AN 1/30	LS - Serial Number of package LM - Serial Number of outer package (master pallet) LG - Serial Number of outer package (mixed pallet) AX - Amount of used auxiliary packaging
352	Description	C AN 1/80	R AN 1/80	Benteler packaging code <b>Benteler packaging code</b>
C040	Reference Identifier	O	N	
128	Reference Identification Qualifier	M ID 2/3	N	Not used
127	Reference Identification	M AN 1/30	N	Not used
128	Reference Identification Qualifier	C ID 2/3	N	Not used
127	Reference Identification	C AN 1/30	N	Not used
128	Reference Identification Qualifier	C ID 2/3	N	Not used
127	Reference Identification	C AN 1/30	N	Not used

**Remark:**

Packaging must follow this order:

- 1) Master (LM) or Mixed (LG)
- 2) Single (LS)
- 3) Auxilliary (AX)

If master/mixed or auxiliary does not exist leave it. Never use other order.

For each new master/mixed unit a new CLD group should be opened.

**Example:**

REF\*LS\*200202292\*P1234!

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

St = Status  
EDIFACT: M=Mandatory, C=Conditional  
User specific: R=Required, O=Optional, D=Dependent,  
A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
---------	----	-----	----	--------	-------	------

0010 18 **CTT** R 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 LIN segments
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\*2!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used



Counter	No	Tag	St	MaxOcc	Level	Name
0020	19	<b>SE</b>	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	Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

**Remark:**

**Example:**

SE\*21\*0001!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
0000	20	<b>GE</b>	R	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	Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element
28	Group Control Number	M N0 1/9	M N0 1/9	Assigned number originated and maintained by the sender

**Remark:**

**Example:**

GE\*1\*1!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

Counter	No	Tag	St	MaxOcc	Level	Name
---------	----	-----	----	--------	-------	------

0000	21	<b>IEA</b>	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	A count of the number of functional groups included in an interchange
I12	Interchange Control Number	M N0 9/9	M N0 9/9	

**Remark:**

**Example:**

IEA\*1\*000000012!

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

St = Status  
 EDIFACT: M=Mandatory, C=Conditional  
 User specific: R=Required, O=Optional, D=Dependent,  
 A=Advised, N=Not used

ISA~00~ ~00~ ~ZZ~MMMX MMMX001 ~ZZ~BENTUSA ~171030~1321~U~00401~000001966~0~P~<  
 GS~SH~122704067~112836044~20171030~1321~1899~X~004010  
 ST~856~0899  
 BSN~00~089671~20171030~1321  
 DTM~011~20171030~1321  
 HL~1~~S  
 TD1~~15  
 TD5~B~2~HMES~LT  
 TD3~LT~~89671  
 REF~AEV~8229292  
 N1~ST~BENTELER AUTOMOTIVE~98~0443  
 N1~SU~~16~122704067  
 HL~2~1~I  
 LIN~~BP~13008070~EC~--~PL~00010~PO~U550002884~RN~20171017063931  
 SN1~~500~EA  
 CLD~5~100

Example 1  
 REF~LS~900001~P1001  
 REF~LS~900002~P1001  
 REF~LS~900003~P1001  
 REF~LS~900004~P1001  
 REF~LS~900005~P1001

HL~3~1~I  
 LIN~~BP~13017491~EC~--~PL~00020~PO~U550003396~RN~20171017060007

Example 2  
 SN1~~300~EA  
 CLD~3~100  
 REF~LM~900006~P1002  
 REF~LS~900007~P1003  
 REF~LS~900008~P1003  
 REF~LS~900009~P1003

HL~4~1~I  
 LIN~~BP~13017808~EC~--~PL~00030~PO~50001670~RN~20171018145644

Example 3  
 SN1~~100~EA  
 CLD~2~50  
 REF~LS~900010~P1004  
 REF~LS~900011~P1004  
 REF~AX~10~AUX0001

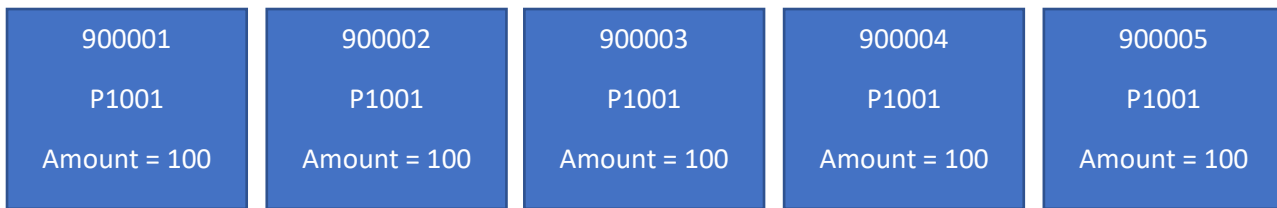
HL~5~1~I  
 LIN~~BP~13017874~EC~--~PL~00040~PO~50001670~RN~20171018145644

Example 4.1  
 SN1~~600~EA  
 CLD~3~100  
 REF~LM~900012~P1005  
 REF~LS~900013~P1006  
 REF~LS~900014~P1006  
 REF~LS~900015~P1006  
 REF~AX~5~AUX0002

Example 4.2  
 CLD~3~100  
 REF~LG~900016~P1005  
 REF~LS~900017~P1006  
 REF~LS~900018~P1006  
 REF~LS~900019~P1006  
 REF~AX~5~AUX0002

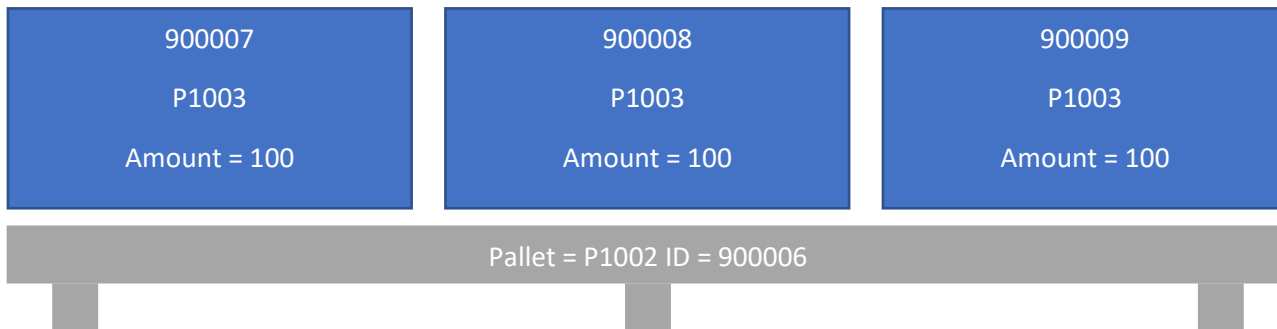
CTT~5  
 SE~50~0899  
 GE~1~1899  
 IEA~1~000001966

**Example 1**



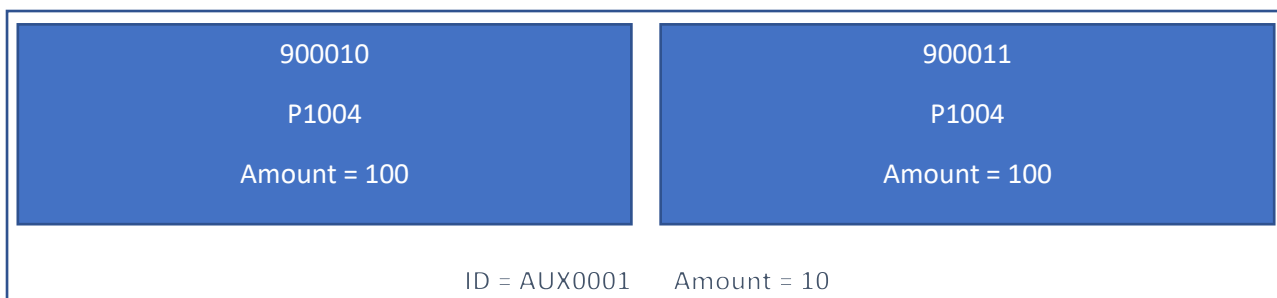
- |                                    |               |                         |
|------------------------------------|---------------|-------------------------|
| 1) Package identification is P1001 | amount is 100 | unique number is 900001 |
| 2) Package identification is P1001 | amount is 100 | unique number is 900002 |
| 3) Package identification is P1001 | amount is 100 | unique number is 900003 |
| 4) Package identification is P1001 | amount is 100 | unique number is 900004 |
| 5) Package identification is P1001 | amount is 100 | unique number is 900005 |

**Example 2**



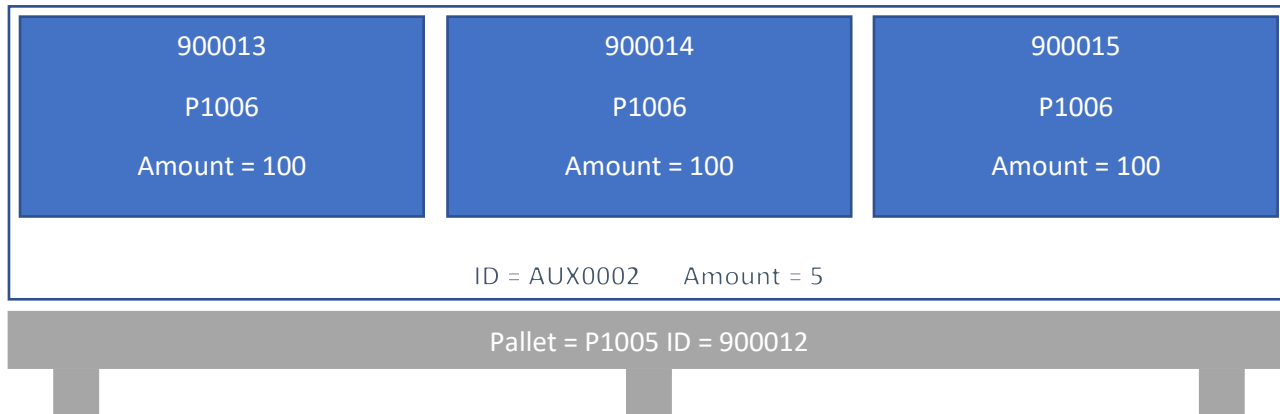
- |                                    |               |                         |
|------------------------------------|---------------|-------------------------|
| 1) Pallet identification is P1002  |               | unique number is 900006 |
| 2) Package identification is P1003 | amount is 100 | unique number is 900007 |
| 3) Package identification is P1003 | amount is 100 | unique number is 900008 |
| 4) Package identification is P1003 | amount is 100 | unique number is 900009 |

**Example 3**



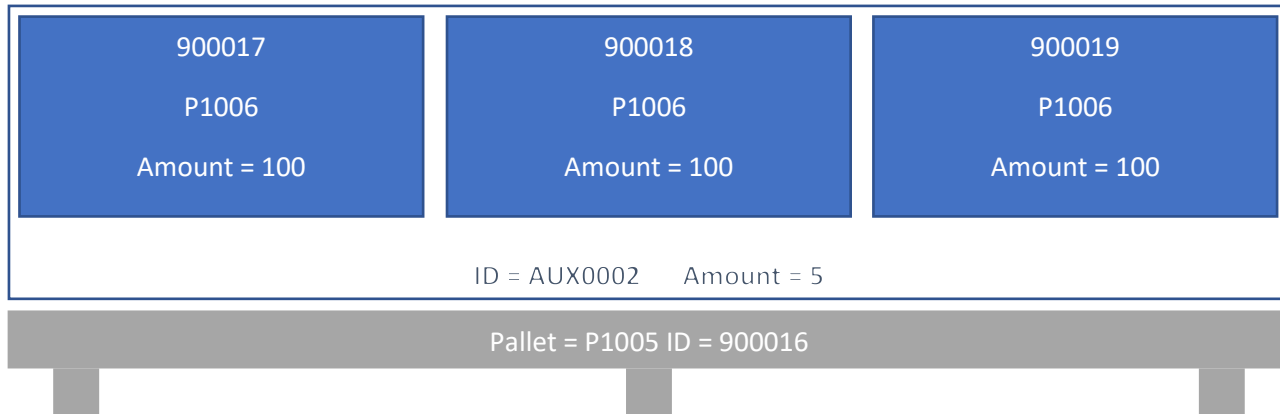
- |                                    |               |                          |
|------------------------------------|---------------|--------------------------|
| 1) Package identification is P1001 | amount is 100 | unique number is 900001  |
| 2) Package identification is P1001 | amount is 100 | unique number is 900002  |
| 3) Package identification is AX    | amount is 10  | unique number is AUX0001 |

**Example 4.1**



- |                                    |               |                          |
|------------------------------------|---------------|--------------------------|
| 1) Pallet identification is P1005  |               | unique number is 900012  |
| 2) Package identification is P1006 | amount is 100 | unique number is 900013  |
| 3) Package identification is P1006 | amount is 100 | unique number is 900014  |
| 4) Package identification is P1006 | amount is 100 | unique number is 900015  |
| 5) Package identification is AX    | amount is 5   | unique number is AUX0002 |

**Example 4.2**



- |                                    |               |                          |
|------------------------------------|---------------|--------------------------|
| 1) Pallet identification is P1005  |               | unique number is 900016  |
| 2) Package identification is P1006 | amount is 100 | unique number is 900017  |
| 3) Package identification is P1006 | amount is 100 | unique number is 900018  |
| 4) Package identification is P1006 | amount is 100 | unique number is 900019  |
| 5) Package identification is AX    | amount is 5   | unique number is AUX0002 |