

Message Implementation Guideline

MBUSI_003050_856_ServiceParts

based on

856

Ship Notice/Manifest

X12 003050

Version 1.0: 28-Apr-2017

Change History

| | Date | Chapter | Description |
|-----|-------------|---------|------------------|
| 1.0 | 28-Apr-2017 | All | Document created |
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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 |
| 0010 | HL | M | 200000 | 1 | 1 | HL-MEA-MEA-TD1-TD5-TD5-TD5-TD3-REF-FOB-N1 (SHIPMENT LOOP) |
| 0010 | 6 | HL | M | 1 | 1 | Hierarchical Level |
| 0080 | 7 | MEA | O | 1 | 2 | Measurements |
| 0080 | 8 | MEA | O | 1 | 2 | Measurements |
| 0110 | 9 | TD1 | O | 1 | 2 | Carrier Details (Quantity and Weight) |
| 0120 | 10 | TD5 | M | 1 | 2 | Carrier Details (Routing Sequence/Transit Time) |
| 0130 | 11 | TD3 | M | 1 | 2 | Carrier Details (Equipment) |
| 0150 | 12 | REF | M | >1 | 2 | Reference Numbers |
| 0210 | 13 | FOB | O | 0-1 | 2 | F.O.B. Related Instructions |
| 0220 | N1 | M | 200 | 2 | 2 | N1 |
| 0220 | 14 | N1 | M | 1 | 2 | Name |
| 0010 | HL | C | 200000 | 1 | 1 | HL-LIN-SN1-MEA-MEA-MEA-PKG-REF (TARE LOOP) |
| 0010 | 15 | HL | O | 1 | 1 | Hierarchical Level |
| 0150 | 16 | REF | O | >1 | 2 | Reference Numbers |
| 0010 | HL | M | 200000 | 1 | 1 | HL-LIN-SN1 (ITEM LOOP) |
| 0010 | 17 | HL | M | 1 | 1 | Hierarchical Level |
| 0020 | 18 | LIN | M | 1 | 2 | Item Identification |
| 0030 | 19 | SN1 | M | 1 | 2 | Item Detail (Shipment) |
| 0010 | 20 | CTT | M | 1 | 0 | Transaction Totals |
| 0020 | 21 | SE | M | 1 | 0 | Transaction Set Trailer |
| 0000 | 22 | GE | M | 1 | 0 | Functional Group Trailer |
| 0000 | 23 | IEA | M | 1 | 0 | Interchange Control Trailer |

Counter = Counter of segment/group within the standard
 No = Consecutive segment number
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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 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 | |
| I06 | Interchange Sender ID | M AN 15/15 | M AN 15/15 | |
| I05 | Interchange ID Qualifier | M ID 2/2 | M ID 2/2 | ZZ Mutually defined |
| I07 | Interchange Receiver ID | M AN 15/15 | M AN 15/15 | MBUS MBUS003 Production (note the three spaces) MBUS MBUS005 Test (note the three spaces) |
| I08 | Interchange Date | M DT 6/6 | M DT 6/6 | The date is in year month day (YYMMDD) format |
| I09 | 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 |
| I10 | Interchange Control Standards Identifier | M ID 1/1 | M ID 1/1 | U U.S. EDI Community of ASC X12, TDCC, and UCS |
| I11 | Interchange Control Version Number | M ID 5/5 | M ID 5/5 | 00200 Standard Issued as ANSI X12.5-1987 |
| I12 | Interchange Control Number | M NO 9/9 | M NO 9/9 | |
| I13 | Acknowledgment Requested | M ID 1/1 | M ID 1/1 | 0 No Acknowledgment Requested |
| I14 | Test Indicator | M ID 1/1 | M ID 1/1 | T Test P Production |
| I15 | Component Element Separator | M AN 1/1 | M AN 1/1 | Sub Element Separator |

Example:

ISA*00* *00* *ZZ*AAABBB *ZZ*MBUS MBUS003 *030430*2203*U*00200*000006887*0*P*::~~

Where:

- ZZ AAABBB – is your Interchange qualifier and ID

Counter = Counter of segment/group within the standard
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 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 | MBUS003S (Production system), MBUS005S (Test System) | |
| 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 | 003050 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 MBUSI's system for the sender of the message.

Example:

GS*SH*015437320B*MBUS003A*030430*22034100*6887*X*003050~

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

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 | (000000000 - 999999999) |

Remark:

To indicate the start of a transaction set and to assign a control number.

Example:

ST*856*68870001~

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 MaxOcc = Maximum occurrence of the segment/group

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 05 Replace |
| 396 | Shipment Identification | M AN 2/30 | M AN 7/7 | Unique for each Shipment |
| 373 | Date | M DT 6/6 | M DT 6/6 | Ship Notice Creation Date (YYMMDD) |
| 337 | Time | M TM 4/8 | O TM 4/4 | Ship Notice Creation Time (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:

Header information for the Ship Notice

Example:

BSN*00*1000123*960420*1456~

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 MaxOcc = Maximum occurrence of the segment/group

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 | 1 | 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 (YYMMDD) Note: Date left dock for North American suppliers, date left port for ECC |
| 337 | Time | C TM 4/8 | M TM 4/4 | Shipping time (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~

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

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 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 | 6 | HL | M | 1 | 1 | Hierarchical Level (Shipment Loop) |

| Standard | | | Implementation | |
|----------|-------------------------------|-----------|----------------|--|
| Tag | Name | St Format | St Format | Usage / Remark |
| HL | | | | |
| 628 | Hierarchical ID Number | M AN 1/12 | M AN 1 | 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 1/1 | S Shipment |
| 736 | Hierarchical Child Code | O ID 1/1 | N | Not used |

Remark:

Example:

HL*1**S~

Counter = Counter of segment/group within the standard
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 MaxOcc = Maximum occurrence of the segment/group

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

2.6.1 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 | 7 | MEA | O | 1 | 2 | Measurements |

| Standard | | | Implementation | |
|----------|------------------------------------|-----------|----------------|---------------------------------------|
| Tag | Name | St Format | St Format | Usage / Remark |
| MEA | | | | |
| 737 | Measurement Reference ID Code | O ID 2/2 | X | Not used |
| 738 | Measurement Qualifier | O ID 1/3 | O ID 1 | G Gross Weight |
| 739 | Measurement Value | C R 1/20 | O R 1/10 | |
| C001 | Composite Unit of Measure | C | N | Not recommended |
| 355 | Unit or Basis for Measurement Code | M ID 2/2 | O ID 2/2 | KG Kilogram LB Pound |

Remark:

Overall weight of the shipment

Example:

MEA**G*2345.5*LB~

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

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

2.6.2 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 | 8 | MEA | O | 1 | 2 | Measurements |

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

Remark: Overall net weight of the shipment

Example:

MEA**N*1000*LB~

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

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

2.6.3 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 | 9 | TD1 | O | 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 | O AN 5/5 | PCS Pieces |
| 80 | Lading Quantity | C NO 1/7 | C NO 1/7 | Number of pieces in shipment |

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.

Example:

TD1*PCS*23~

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

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

2.6.4 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 | 10 | TD5 | O | 1 | 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 | O ID 1/1 | 2 |
| 67 | Identification Code | C AN 2/20 | O AN 2/20 | CN |
| 91 | Transportation Method/Type Code | C ID 1/2 | O ID 1/1 | A Air J Motor R Rail S Ocean H Customer Pickup |

Remark:

Example:

TD5**2*CN*J~

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

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

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

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

2.6.5 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 | 14 | TD3 | M | 1 | 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 | TR Trailer (not otherwise specified) |
| 206 | Equipment Initial | O AN 1/4 | M AN 1/4 | Initial on container, trailer or rail car |
| 207 | Equipment Number | C AN 1/10 | M AN 1/10 | Number on container, trailer or rail car |
| 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:

"LT" is not a valid to use in TD301, even though it may be a common term in the trucking industry. You must use a valid ANSI code.

Example:

TD3*TR*AVRT*570132~

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

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

2.6.6 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 | 15 | 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 | BM Bill of Lading Number MB Master Bill of Landing VN Vendor Order number DK Unloading Point |
| 127 | Reference Number | C AN 1/30 | C AN 1/30 | |
| 352 | Description | C AN 1/80 | C AN 1/80 | |

Remark:

MBUSI does not use any information in this segment; it is included only for compatibility with previously released specifications.

Example:

REF*EM*GAD21783~

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

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

2.6.7 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 | 16 | FOB | O | 0-1 | 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 | N | | Not used |
| 335 | Transportation Terms Code | C | ID 3/3 | N | | Not used |
| 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:

FOB*CC~

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

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

2.6.8 N1 Segment – Supplier Information

| Counter | No | Tag | St | MaxOcc | Level | Name |
|---------|----|-----------|----|--------|-------|-------------------------------|
| 0220 | | HL | M | 200 | 2 | HL-MEA-TD1-TD5-TD3-REF-FOB-N1 |
| 0220 | 17 | 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 | M AN 1/35 | Supplier Name |
| 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 6/10 | MBUSI-assigned Vendor 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 This field holds your MBUSI assigned supplier number, which allows 8 to 10 characters. This number has to be printed on each label when the parts are shipped to MBUSI.

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

Example:

N1*SU*CHARLSTON STAMPING*92*100101~

2.7 HL Segment – Tare Loop

| Counter | No | Tag | St | MaxOcc | Level | Name |
|---------|----|-----------|----|--------|-------|---------------------------|
| 0010 | | HL | C | 200000 | 1 | HL-REF |
| 0010 | 18 | HL | O | 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 | 1 Shipment Level |
| 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~

Counter = Counter of segment/group within the standard
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 MaxOcc = Maximum occurrence of the segment/group

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 REF Segment – Serial Number

| Counter | No | Tag | St | MaxOcc | Level | Name |
|---------|----|------------|----|--------|-------|--------------------------|
| 0010 | | HL | C | 200000 | 1 | HL-REF |
| 0150 | 19 | REF | O | 0-1 | 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 | RS Bar-Coded Serial Number |
| 127 | Reference Number | C AN 1/30 | M AN 1/30 | Returnable Container Serial Number |
| 352 | Description | C AN 1/80 | N | Not used |

Remark:

Note: MBUSI does not track returnable containers at this time; this segment included only for ANSI compliance. Its use is not encouraged.

Example:

REF*RS*123442A~

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

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 – Item Loop

| Counter | No | Tag | St | MaxOcc | Level | Name |
|---------|----|-----------|----|--------|-------|---------------------------|
| 0010 | | HL | M | 200000 | 1 | HL-LIN-SN1 |
| 0010 | 20 | 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~

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

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 – Part number

| Counter | No | Tag | St | MaxOcc | Level | Name |
|---------|----|------------|----|--------|-------|----------------------------|
| 0010 | | HL | M | 200000 | 1 | HL-LIN-SN1 |
| 0020 | 21 | 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 | MBUSI part number |
| 235 | Product/Service ID Qualifier | C ID 2/2 | N | Not used |
| 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 | N | Not used |

Remark:

Only suppliers who are certified for EDI for Service Parts should support or send this segment configuration. It is used for advanced shipping notices for Service Parts.

You should send the part number just like you received it in the order. This means the format of **parts with the color will differ** between production and Service Parts. For example the part number A2518980196 99F7 (production) would be A251898019699F7 (service).

Example:

LIN**BP*A2518980196*ON*4500000027~

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

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

| Counter | No | Tag | St | MaxOcc | Level | Name |
|---------|----|-----|----|--------|-------|------------------------|
| 0010 | | HL | M | 200000 | 1 | HL-LIN-SN1 |
| 0030 | 22 | 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~

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

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 CTT Segment

| Counter | No | Tag | St | MaxOcc | Level | Name |
|---------|----|------------|----|--------|-------|--------------------|
| 0010 | 23 | CTT | M | 1 | 0 | Transaction Totals |

| Standard | | | Implementation | |
|----------|------------------------------------|-----------|----------------|---------------------------|
| Tag | Name | St Format | St Format | Usage / Remark |
| CTT | | | | |
| 354 | Number of Line Items | M NO 1/6 | M NO 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~

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

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 SE Segment

| Counter | No | Tag | St | MaxOcc | Level | Name |
|---------|----|-----------|----|--------|-------|-------------------------|
| 0020 | 24 | SE | M | 1 | 0 | Transaction Set Trailer |

| Standard | | | Implementation | |
|----------|--------------------------------|-----------|----------------|----------------|
| Tag | Name | St Format | St Format | Usage / Remark |
| SE | | | | |
| 96 | Number of Included Segments | M NO 1/10 | M NO 1/10 | |
| 329 | Transaction Set Control Number | M AN 4/9 | M AN 4/9 | |

Remark:

Example:

SE*88*000000184~

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

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 GE Segment

| Counter | No | Tag | St | MaxOcc | Level | Name |
|---------|----|-----------|----|--------|-------|--------------------------|
| 0000 | 25 | 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 NO 1/6 | M NO 1/6 | |
| 28 | Group Control Number | M NO 1/9 | M NO 1/9 | |

Remark:

Example:

GE*1*184~

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

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 IEA Segment

| Counter | No | Tag | St | MaxOcc | Level | Name |
|---------|----|------------|----|--------|-------|-----------------------------|
| 0000 | 26 | 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 NO 1/5 | M NO 1/5 | |
| I12 | Interchange Control Number | M NO 9/9 | M NO 9/9 | |

Remark:

Example:

IEA*1*000000184~

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

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 Example

ISA+00+ +00+ +01+123456789 +ZZ+MBUS MBUS003 +151002+0816+U+00200+000001003+0+P+>
GS+SH+123456789+MBUS003S+170131+0816+000001003+X+003050
ST+856+000001003
BSN+00+98090+170131+0814
DTM+011+170130+1600
HL+1++S
MEA++G+340.48+KG
TD1+PCS+896
TD5++2+AVRT+J
TD3+TR+AVRT+0030667462
REF+BM+98090
FOB+CC
N1+SU+SUPPLIER NAME+92+123456789
HL+2+1+I
LIN++BP+A1647400735+ON+4500294001
SN1+2+896+EA
CTT+1
SE+16+000001003
GE+1+000001003
IEA+1+000001003