Message Implementation Guideline for JIS suppliers

MBUSI_003050_856

based on

856
Ship Notice/Manifest

X12 003050

Version 1.3: 25-JAN-2021

Note

This document is an EDI specification guideline for JIS suppliers to implement advanced shipping notifications for their deliveries.

Change History

	Date	Chapter	Description
1.0	16-Feb-2016	All	Document created
1.1	31-Mar-2016	3.3	Correct the example
1.2	22-Jul-2016	All	Simplified requirements
1.3	25-Jan-2021	1.2	Correct Test System GS Receiver ID

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1 Segments

1.1 ISA Segment

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

		Standard	Implementation	
Tag	Name	St Format	St Format	Usage / Remark
ISA				
I01	Authorization Information Qualifier	M ID 2/2	M ID 2/2	**00 No Authorization Information Present (No Meaningful Information in I02)**
I02	Authorization Information	M AN 10/10	M AN 10/10	
I03	Security Information Qualifier	M ID 2/2	M ID 2/2	**00 No Security Information Present (No Meaningful Information in I04)**
I04	Security Information	M AN 10/10	M AN 10/10	
I05	Interchange ID Qualifier	M ID 2/2	M ID 2/2	**Qualifiers: 01-Duns Number, 08-Phone Number, ZZ-Mutually defined**
I06	Interchange Sender ID	M AN 15/15	M AN 15/15	
I07	Interchange ID Qualifier	M ID 2/2	M ID 2/2	**Qualifiers: 01-Duns Number, 08-Phone Number, ZZ-Mutually defined**
I08	Interchange Receiver ID	M AN 15/15	M AN 15/15	**MBUS MBUS005 (with three spaces in between) for Test, MBUS MBUS003 (with three spaces in between) 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*MBUS MBUS005 *030430*2203*U*00200*000000184*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)

1.2 GS Segment

Counter	No	Tag	St	MaxOcc	Level	Name
0000	2	**GS**	M	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 2/15	**MBUSI Issued Supplier Number**
124	Application Receiver's Code	M AN 2/15	M AN 2/15	**MBUS005A (Test System), MBUS003A (Production 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 N0 1/9	M N0 1/9	
455	Responsible Agency Code	M ID 1/2	M ID 1/2	**XAccredited 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 The supplier number is assigned from MBUSI's system for the sender of the message. This may not be the supplier number from the goods supplier but the supplier number of a logistics service provider (Data sender).

Field GS03 MBUS005A is the correct received code for MBUSI's test system. MBUS003A is the correct receiver code for MBUSI's production system.

Example:

GS*SH*015437320B*MBUS005A*160430*22034100*000000184*X*003050!

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)

1.3 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*000000184!

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

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

1.4 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**
396	Shipment Identification	M AN 2/30	M AN 2/10	**Supplier delivery note number**
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	N	Not used
641	Status Reason Code	O ID 3/3	N	Not used

Remark:

Field BSN02 Delivery note number must be unique per calendar year.

Example:
BSN*00*GAD21783*150720*1233!

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

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

1.5 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!

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)

1.6 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	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)

1.7 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	**Unloading point**
352	Description	C	AN 1/80	N		Not used

Remark:

Field REF02 Unloading Point - Information is transmitted with 830 message in segment REF02 with Qualifier DK.

Example:

REF*DK*A1J1!

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)

1.8 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	M AN 1/35	**MBUSI**
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	**MBUSI 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 MBUSI Plant code Information is transmitted in 830 transmission in segment N104(ST). This plant code must be mapped from the 830 due to a number change that will take place.

Example:

N1*ST*MBUSI*92*8010!

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)

1.9 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	M AN 1/35	
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 2/10	
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 Supplier number is assigned from MBUSI's system for the goods vendor (including index if applies)

Example:

N1*SU*US GADSDEN*92*015437320B!

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

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

1.10 HL Segment – Item Loop

Counter	No	Tag	St	MaxOcc	Level	Name
0010		**HL**	M	200000	1	**HL-LIN-SN1-PRF-PID-MEA-N1-REF**
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*2*1*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)

1.11 LIN Segment – Part number

Counter	No	Tag	St	MaxOcc	Level	Name
0010		**HL**	M	200000	1	**HL-LIN-SN1-PRF-PID-MEA-N1-REF**
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 1/3	**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	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)

Remark:

Field LIN01 Item number (MAX: 3 digits) in delivery note that can be referenced in 820 transmission (remittance advice). Must be unique per ASN

Field LIN03 MBUSI part number that is sent in the 830 transmission in field LIN03 (Format below in appendix 2.2). 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 MBUSI quality department
First ZGS, the first digit must be "Z" then three-digit number then E/Q Level with E, Q, or X starting in Positon "5" and then three-digit number .
Example: Z001Q002 or Z000E001

Example:

LIN*001*BP*A2057801300 1C51*EC*Z001Q002!

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)

1.12 SN1 Segment – Delivery quantity

Counter	No	Tag	St	MaxOcc	Level	Name
0010		**HL**	M	200000	1	**HL-LIN-SN1-PRF-PID-MEA-N1-REF**
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**
355	Unit or Basis for Measurement Code	M ID 2/2	M ID 2/2	**Unit of Measure**

Remark:
Field SN103 Unit of Measure code - transmitted in 830 release in segment UIT01

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)

1.13 REF Segment – Production Number (JIS)

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	
352	Description	C	AN 1/80	N		Not used

Remark:
Field REF02 For each production Number (JIS) send one line with leading zeros.

Example:
REF*JN*0009070113!
REF*JN*0009071105!
REF*JN*0009071109!

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)

1.14 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	
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*3!

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)

1.15 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*27*000000184!

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

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

1.16 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*000000184!

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

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

1.17 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!

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 Appendix

2.1 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)

2.2 Format of MBUSI part number from LIN03 in item loops

The MBUSI part number is specified in the material release.

Valid MBUSI 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	

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2.3 Example messages

ISA*00* *00* *ZZ*AAABBB *ZZ*MBUS MBUS005 *030430*2203*U*00200*000000184*0*T*:!
GS*SH*015437320B*MBUS005A*160430*22034100*000000184*X*003050!
ST*856*000000184!
BSN*00*GAD21783*150720*1233!
DTM*011*150720*1233!
HL*1**S! Shipment Loop
REF*DK*A1J1!
N1*ST*MBUSI*92*8010!
N1*SU*US GADSDEN*92*015437320B!
HL*2*1*I! Item Loop
LIN*001*BP*A2057801300 1C51*EC*Z001Q002!
SN1**2*EA!
REF*JN*0009071110! Production numbers
REF*JN*0009071111!
HL*3*1*I! Item Loop
LIN*002*BP*A2057801400 1C51*EC*Z001Q002!
SN1**10*EA!
REF*JN*0009071110! Production numbers
REF*JN*0009071111!
REF*JN*0009071112!
REF*JN*0009071113!
REF*JN*0009071114!
REF*JN*0009071115!
REF*JN*0009071116!
REF*JN*0009071117!
REF*JN*0009071118!
REF*JN*0009071119!
CTT*3!
SE*27*000000184!
GE*1*000000184!
IEA*1*000000184!