Message Implementation Guideline for suppliers

MB ExTra_004010_862

based on

862

Shipping Schedule

X12 004010

Version 1.3: 05.01.2020

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Note

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

Change History

	Date	Chapter	Description
1.0	203.08.2018	All	Document created
1.2	05.09.2018	Appendix	Example and detailed description added
1.3	05.01.2020	All	Review and corrections

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862

Shipping Schedule

Functional Group=SS

Purpose: This standard provides the format and establishes the data contents of the Shipping Schedule Transaction Set (862) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a customer to convey precise shipping schedule requirements to a supplier, and is intended to supplement the planning schedule transaction set (830). The shipping schedule transaction set will supersede certain shipping and delivery information transmitted in a previous planning schedule transaction, but it does not replace the 830 transaction set. The shipping schedule transaction set shall not be used to authorize labor, materials or other resources. The use of this transaction set will facilitate the practice of Just-In-Time (JIT) manufacturing by providing the customer with a mechanism to issue precise shipping schedule requirements on a more frequent basis than with the issuance of a planning schedule transaction, e.g., daily shipping schedules versus weekly planning schedules. The shipping schedule transaction also provides the ability for a customer location to issue shipping requirements independent of other customer locations when planning schedule transactions are issued by a consolidated scheduling organization.

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	BSS	Beginning Segment for Shipping Schedule/Production Sequence	M	1			Must use
LOOP ID - N1				**200**			
050	N1	Name	O	1			Used

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - LIN				**10000**			
010	LIN	Item Identification	M	1			Must use
020	UIT	Unit Detail	M	1			Must use
050	REF	Reference Identification	O	12			Used
050	REF	Reference Identification	O	12			Used
LOOP ID - FST				**>1**			
080	FST	Forecast Schedule	O	1			Used
100	SDQ	Destination Quantity	O	>1			Used
LOOP ID - JIT				**96**			
110	JIT	Just-In-Time Schedule	O	1			Used

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Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
120	REF	Reference Identification	O	500			Used
120	REF	Reference Identification	O	500			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	CTT	Transaction Totals	O	1		N3/010	Used
020	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

3/010 The number of lines items (CTT01) is the accumulation of number of LIN segments. If used, hash total (CTT02) is the sum of the value of the quantities (FST01) for each FST segment.

ISA Interchange Control Header

Pos: **Max:1**
Not Defined – Mandatory
Loop: N/A **Elements:16**

User Option (Usage): Must Use

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Must use	Fixed value **00**
ISA02	I02	**Authorization Information**	M	AN	10/10	Must use	Fixed Value <blank>
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Must use	Fixed value **00**
ISA04	I04	**Security Information**	M	AN	10/10	Must use	Fixed value <blank>
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use	Fixed value **ZZ**
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Must use	For test: DAI_GSSPLUS_**T** For Production: DAI_GSSPLUS_**P**
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use	Provided by supplier
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Must use	Provided by supplier
ISA09	I08	**Interchange Date**	M	DT	6/6	Must use	
ISA10	I09	**Interchange Time**	M	TM	4/4	Must use	
ISA11	I10	**Interchange Control Standards ID**	M	ID	1/1	Must use	Fixed value: **U**
ISA12	I11	**Interchange Control Version Number**	M	ID	5/5	Must use	Fixed value: **00401**
ISA13	I12	**Interchange Control Number**	M	N0	9/9	Must use	
ISA14	I13	**Acknowledgment Requested**	M	ID	1/1	Must use	
ISA15	I14	**Usage Indicator**	M	ID	1/1	Must use	**T** for test/**P** for production
ISA16	I15	**Component Element Separator**	M		1/1	Must use	

Example: *ISA*00* *00* *ZZ*DAI_GSSPLUS_T *ZZ*XXXXXXXX *190305*1935*U*00401*000000004*0*T*>~*

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GS Functional Group Header

Pos: **Max: 1**
Not Defined – Mandatory
Loop: N/A **Elements: 8**

User Option (Usage): Must use

Purpose: To indicate the beginning of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
GS01	479	**Functional Identifier Code**	M	ID	2/2	Must use	Fixed value: **SS**
GS02	142	**Application Sender's Code**	M	AN	2/15	Must use	Fixed value: **18802587**
GS03	124	**Application Receiver's Code**	M	AN	2/15	Must use	Supplier number defined by MB ExTra
GS04	373	**Date**	M	DT	8/8	Must use	
GS05	337	**Time**	M	TM	4/8	Must use	
GS06	28	**Group Control Number**	M	N0	1/9	Must use	
GS07	455	**Responsible Agency Code**	M	ID	1/2	Must use	Fixed value: **X**
GS08	480	**Version / Release / industry Identifier code**	M	AN	1/12	Must use	Fixed value: **004010**

Example: *GS*SS*18802587*18546754D*20190305*1935*4*X*004010~*

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ST Transaction Set Header

Pos: 10 **Max: 1**
Not Defined – Mandatory
Loop: N/A **Elements: 2**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Must use	Fixed Value: **862**
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Must use	Fixed value: **18802587**

Example: *ST*862*0001~*

BSS Beginning Segment for Shipping Schedule/Production Sequence

Pos: 020 **Max: 1**

Not Defined – Mandatory

Loop: N/A **Elements: 7**

User Option (Usage): Must use

Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
BSS01	353	**Transaction Set Purpose Code**	M	ID	2/2	Must use	Fixed Value: **12**
BSS02	127	**Reference Identification**	M	AN	1/30	Must use	MB ExTra plant ID as used in 830 & 856
BSS03	373	**Date**	M	DT	8/8	Must use	
BSS04	675	**Schedule Type Qualifier**	M	ID	2/2	Must use	Fixed value: **DL**
BSS05	373	**Date**	M	DT	8/8	Must use	
BSS06	373	**Date**	M	DT	8/8	Must use	

Example: *BSS*12*DD02*20190305*DL*20190305*20190305~*

N1 Name

Pos: 050	Max: 1
Heading - Optional	
Loop: N1	Elements: 3

User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use	Fixed value: **SU**
N102						Not used	
N103	66	Identification Code Qualifier	X	ID	1/2	Used	Fixed value: **92**
N104	67	Identification Code	X	AN	2/80	Used	Supplier number defined by MB ExTra

Example: *N1*SU**92*018546754D~*

LIN Item Identification

Pos: 010	Max: 1
Detail - Mandatory	
Loop: LIN	Elements: 7

User Option (Usage): Must use

Purpose: To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
LIN01	350	**Assigned Identification**	O	AN	1/20	Used	**Item number**
LIN02	235	**Product/Service ID Qualifier**	M	ID	2/2	Must Use	Fixed value **BP**
LIN03	234	**Product/Service ID**	M	AN	1/48	Must Use	MB ExTra part number
LIN04	234	**Product/Service ID Qualifier**	X	ID	2/2	Used	Fixed Value **PO**
LIN05	234	**Product/Service ID**	X	AN	1/48	Used	Internal MB Extra ID, not to be used by supplier
LIN06	235	**Product Service ID Qualifier**	X	ID	2/2	Used	Fixed value **CB**
LIN07	234	**Product/Service ID**	X	AN	1/48	Used	COMPAS part number **(PART NUMBER TO BE PRINTED ON LABEL)**

Example: *LIN*1*BP*A1775407923*PO*1100000773*CB*A1775407923D~*

UIT Unit Detail

Pos: 020 **Max: 1**
Detail - Mandatory
Loop: LIN **Elements: 1**

User Option (Usage): Must use

Purpose: To specify basic item unit data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
UIT01	C001	**Composite Unit of Measure**	M	Comp		Must Use	Fixed value **EA**
UIT01-01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must Use	Fixed value **EA**

Example: *UIT*EA~*

REF Reference Identification

Pos: 050 **Max: 12**
Detail - Optional
Loop: LIN **Elements: 2**

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must Use	Fixed value **KK**
REF02	127	**Reference Identification**	X	AN	1/30	Used	Indicates the structure: Deliver_to (A4) + line_feed (A4) + Secondary_location (A6) + Dock_location (A6)

Example: *REF*KK* S1D3PD03D ~*

REF Reference Identification

Pos: 050 **Max: 12**
Detail - Optional
Loop: LIN **Elements: 2**

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must Use	Fixed value **82**
REF02	127	**Reference Identification**	X	AN	1/30	Used	Unloading Point

Example: *REF*82*C1~*

FST Forecast Schedule

Pos: 080 **Max: 1**
Detail - Optional
Loop: FST **Elements: 8**

User Option (Usage): Used

Purpose: To specify forecasted dates and quantities

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
FST01	380	**Quantity**	M	R	1/15	Must Use	Quantity to be delivered
FST02	680	**Forecast Qualifier**	M	ID	1/1	Must Use	Fixed value **C**
FST03	681	**Forecast Timing Qualifier**	M	ID	1/1	Must Use	Fixed value **C**
FST04	373	**Date**	M	DT	8/8	Must Use	Delivery Date
FST05							**Not Used**
FST06	374	**Date/Time Qualifier**	X	ID	3/3	Used	Fixed value **DOI**
FST07	337	**Time**	X	TM	4/8	Used	**Not Used**
FST08	128	**Reference Identification Qualifier**	X	ID	2/3	Used	**BB**
FST09	127	**Reference Identification**	X	AN	1/30	Used	RAN Number

Example: *FST*400*C*C*20190114**DOI*000000*BB*FR80974A~*

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SDQ Destination Quantity

Pos: 100 **Max: >1**
Detail - Optional
Loop: FST **Elements: 4**

SDQ01-SDQ04 NOT USED/PROVIDE NO USEFUL INFORMATION/CAN BE IGNORED

User Option (Usage): Used

Purpose: To specify destination and quantity detail

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
SDQ01	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must Use	**CAN BE IGNORED**
SDQ02	66	**Identification Code Qualifier**	O	ID	½	Used	**CAN BE IGNORED**
SDQ03	67	**Identification Code**	M	AN	2/80	Must Use	**CAN BE IGNORED**
SDQ04	380	**Quantity**	M	R	1/15	Must Use	**CAN BE IGNORED**

Example: *SDQ*EA*6*0000*400~*

JIT Just-In-Time Schedule

Pos: 110 **Max: 1**
Detail - Optional
Loop: JIT **Elements: 2**

JIT01-JIT02 NOT USED/PROVIDE NO USEFUL INFORMATION/CAN BE IGNORED

User Option (Usage): Used

Purpose: To identify the specific shipping/delivery time in terms of a 24-hour clock and identify the associated quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
JIT01	380	**Quantity**	M	R	1/15	Must Use	**CAN BE IGNORED**
JIT02	337	**Time**	M	TM	4/8	Must Use	**CAN BE IGNORED**

Example: *JIT*400*000000~*

REF Reference Identification

Pos: 120 **Max: 500**

Detail - Optional

Loop: JIT **Elements: 2**

User Option (Usage): Not used

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must Use	Fixed value **VW**
REF02	127	**Reference Identification**	X	AN	1/30	Used	Quantity per pack unit

Example: *REF*VW*400~*

REF Reference Identification

Pos: 120 **Max: 500**

Detail - Optional

Loop: JIT **Elements: 2**

User Option (Usage): Not used

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Comment
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must Use	Fixed value **9H**
REF02	127	**Reference Identification**	X	AN	1/30	Used	MB ExTra packaging material number

Example: *REF*9H*MNEXP1~*

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.

- One RAN is always for exactly for one material
- An 862 file is always containing the information for exactly one RAN
- The RAN quantity can be similar to the packaging quantity but can also differ from the packaging quantity

General Structure:

ISA*00* *00* *ZZ*DAI_GSSPLUS_T *ZZ*DPHTEST5 *190305*1935*U*00401*000000004*0*T*>~

GS*SS*18802587*18546754D*20190305*1935*4*X*004010~

ST*862*0001~

BSS*12*DD02*20190305*DL*20190305*20190305~

N1*SU**92*018546754D~

LIN*1*BP*A1775407923*PO*1100000773*CB*A1775407923D~

UIT*EA~

REF*KK* S1D3PD03D ~

REF*82*C1~

FST*400*C*C*20190114**DOI*000000*BB*FR80974A~

SDQ*EA*6*0000*400~

JIT*400*000000~

REF*VW*400~

REF*9H*MNEXP1~

CTT*1~

SE*14*0001~

GE*1*4~

IEA*1*000000004~

Example:

In the example below the RAN quantity for Part A is similar to the packaging quantity whereas the RAN quantity for Part B is differing from the RAN quantity.

Part A packed in 2 totes with 7 EA per tote

Part B packed in 3 totes with 10 EA per tote

Therefore, three ANSI 862 will be transmitted for:

RAN 1: Part A, RAN Quantity: 7, Packaging Quantity 7

RAN 2: Part A, RAN Quantity: 7, Packaging Quantity 7

RAN 3: Part B, RAN Quantity: 30, Packaging Quantity 10