
Message Implementation Guideline

MBUSI_003050_820

based on

820
PrePayment Advice

ASC X12 003050

Version: 2.1
Issue date: 2019-10-22

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Change History

	Date	Chapter	Description
1.0	2016-03-16	All	Document created
2.0	2018-04-24	SLN	For Debit memos of RAN/CUME parts, Quality notification number is sent as DMT tracking cannot identify part by RAN# or Dummy value of the CUME.
2.1	2019-10-22	All/Structure	Remove RAN references. Clarify message structure looping.

Target Audience

This section (dealing with the EDI 820, PrePayment advice) is only for those suppliers who elect to receive it. This is an optional transaction that is sent by request. You can use it in a cash application activity to reconcile your records of what you have shipped with the payment you receive by wire transfer. Generally, your bank will send you an EDI820 that contains payment information summarized by (MBUSI's internal) invoice#. This transaction gives complete detail on the part numbers, quantities, and pricing used to compute the payment.

Introduction

MBUSI will send the Payment Order/Remittance Advice using the ASC X12 820 Transaction Set version 003050.

Only the Remittance Advice portion of the 820 will be used. This detail version is a pre-notification of part level components, and is the only payment information that suppliers will receive by EDI directly from MBUSI. This transaction will reflect MBUSI generated ERS (Evaluated Receipts Settlement) invoices. Non-productive ("indirect") materials, Service Parts, or parts bought with purchase orders or "spot buys," are not included in this process.

The final (monthly) payment made may include adjustments and miscellaneous supplier invoices. Suppliers must contact their own bank to get a summarized EDI file of the final payment made. This file is not available from MBUSI or MBUSI's bank.

For each segment, the elements of the segment are described. The tag is the ASC X12 element number. The name is the ASC X12 name for that element. This is followed by specifications detailing the ASC X12 3050 standard for that element number and the actual implementation used by MBUSI. This is presented with several values: the element status, element format, and element min/max values. If there is a variance between the standard and the implementation, MBUSI requires the supplier to comply with the implementation. The usage and remark give information about the value of that element and its description. One or more examples are shown for each segment.

Message Structure / Table of Contents

No	Tag	St	MaxOcc	Level	Content
ISA LOOP					
1	ISA	M	1	0	Interchange Control Header
GS LOOP					
2	GS	M	1	1	Functional Group Header
ST LOOP					
3	ST	M	1	2	Transaction Set Header
4	BPR	M	1	2	Beginning Segment for Payment Order/Remittance Advice
5	TRN	M	1	2	Trace
6	DTM	M	1	2	Date/Time Reference
7	N1	M	2	2	Name (Payee)
8	N1	M	2	2	Name (Payer)
9	ENT	M	1	2	Entity
10	RMR	M	1	2	Remittance Advice Accounts Receivable Open Item
IT1 LOOP					
11	IT1	M	1	3	Baseline Item Data
12	REF	M	1	3	Reference Numbers
13	DTM	M	1	3	Date/Time Reference
14	SLN	M	>1	3	Subline Item Detail
IT1 LOOP END					
15	SE	M	1	2	Transaction Set Trailer
ST LOOP END					
16	GE	M	1	1	Functional Group Trailer
GS LOOP END					
17	IEA	M	1	0	Interchange Control Trailer
ISA LOOP END					

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	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	ZZ Mutually defined
I06	Interchange Sender ID	M	ID 15/15	M	AN 15/15	MBUS MBUS002 (see remark 1)
I05	Interchange ID Qualifier	M	ID 2/2	M	ID 2/2	01 Duns Number, 08-Phone Number, ZZ-Mutually defined
I07	Interchange Receiver ID	M	ID 15/15	M	AN 15/15	Left justify, space fill
I08	Interchange Date	M	DT 6/6	M	DT 6/6	
I09	Interchange Time	M	TM 4/4	M	TM 4/4	
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	00305 Standard Issued as ANSI X12.5-1987
I12	Interchange Control Number	M	N0 9/9	M	N0 9/9	A number that cannot be repeated in a one year time
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	P Production Data T Test Data
I15	Subelement Separator	M	AN 1/1	M	AN 1/1	

Remarks:

1. Value for field I06 Interchange Sender ID will be "MBUS MBUS002 " for all messages sent by MBUSI (please note the three spaces between MBUS and MBUS002 are mandatory as well as the single space at the end).
2. Field I07 will hold the Interchange Sender ID of the supplier receiving the message (the supplier will provide this value to MBUSI)

Example:

```
ISA*00*          *00*          *ZZ*MBUS  MBUS002 *ZZ*AAABBB          *030430*2203*U*003050*000006887*0*P*::~~
```

Segments

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

0000	2	GS	M	1	1	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	RA	Remittance Advice
142	Application Sender's Code	M AN 2/12	M AN 2/15	MBUS002 MBUS002T	For regular processes For Steel Offload Process
124	Application Receiver's Code	M AN 2/12	M AN 2/15		Supplier number from MBUSI's system
373	Date	M DT 6/6	M DT 6/6		
337	Time	M TM 4/4	M TM 4/8		
28	Group Control Number	M N0 1/9	M N0 1/9		
455	Responsible Agency Code	M ID 1/2	M ID 1/2	X	Accredited Standards Committee X12
480	Version / Release / Industry Identifier Code	M ID 1/12	M AN 1/12	003050	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1994

Remark:

GS03 Application Receiver's Code will hold the supplier number from MBUSI's system for the receiver of the message.

Example:

Regular process:

GS*RA*MBUS002*15446487*140717*0940*1751*X*003050~

For special Steel Offload process:

GS*RA*MBUS002T*1234567890*151218*1047*159538*X*003050~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
0010	3	ST	M	1	2	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	820 Payment Order/Remittance Advice	
329	Transaction Set Control Number	M AN 4/9	M AN 4/9	Must be the same as SE02	

Remark:

ST Loop may occur more than once.

Example:

ST*820*119492~

Segments

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

4		BPR	M	1	2	Beginning Segment for Payment Order/Remittance Advice
---	--	------------	---	---	---	---

Standard			Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
BPR					
305	Transaction Handling Code	M ID 1/2	M ID 1/1	E Debit/Credit advice with remittance detail	
782	Monetary Amount	M R 1/15	M R 1/15	Total payment amount	
478	Credit/Debit Flag Code	M ID 1/1	M ID 1/1	C A credit to receiver/debit to originator D A debit to receiver/credit to originator (D will be accompanied by information in fields SLN11 through SLN26 for tracking defective material)	
591	Payment Method Code	M ID 3/3	M ID 3/3	NON Non-payment Data	
812	Payment Format Code	O ID 1/10		Not used	
506	DFI ID Number Qualifier	C ID 2/2		Not used	
507	DFI Identification Number	C AN 3/12		Not used	
569	Account Number Qualifier	O ID 1/3		Not used	
508	Account Number	C AN 1/35		Not used	
509	Originating Company Identifier	O AN 10/10	O AN 10/10	Should match TRN03	
510	Originating Company Supplemental Code	O AN 9/9	O AN 9/9	MBUSI Should match TRN04	

Remark:

The "D" (debit) may occur in situations such as returns of damaged (DMT) material or non-conforming parts. See also section on SLN segment.

Dollar values are always reported as positive numbers, even in debit memos.

Example:

BPR*E*81984.00*C*NON*****3824839872*MBUSI~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	5	TRN	M	1	2	Trace

		Standard	Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
TRN					
481	Trace Type Code	M ID 1/2	M ID 1/2	1 Current Transaction Trace Numbers	
127	Reference Number	M AN 1/30	M AN 1/30	MBUSI Batch Number	
509	Originating Company Identifier	O AN 10/10	O AN10/10	Should match BPR10	
127	Reference Number	O AN 1/30	O AN 1/30	MBUSI Should match BPR11	

Remark:

None

Example:

TRN*1*743-743*3824839872*MBUSI~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	6	DTM	M	1	2	Date/Time Reference

Standard			Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
DTM					
374	Date/Time Qualifier	M ID 3/3	M ID 3/3	097 Transaction Creation	
373	Date	C DT 6/6	C DT 6/6	Creation date in format YYMMDD	
337	Time	C TM 4/8		Not used	
623	Time Code	O ID 2/2		Not used	
624	Century	O N0 2/2	O N0 2/2	20 Century	
1250	Date Time Period Format Qualifier	C ID 2/3		Not used	
1251	Date Time Period	C AN 1/35		Not used	

Remark:

None

Example:

DTM*097*150624***20~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	7	N1	M	2	2	Name (Payee)

Standard			Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
N1					
98	Entity Identifier Code	M ID 2/2	M ID 2/2	PE	Payee
93	Name	C AN 1/35	M AN 1/35		Payee's name
66	Identification Code Qualifier	C ID 1/2	M ID 2/2	93	Assigned by Buyer or Buyer's Agent
67	Identification Code	C AN 2/20	M AN 2/10		MBUSI supplier number

Remark:

None

Example:

N1*PE*AMERICAN WIDGET FACTORY*92*15548622~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	8	N1	M	2	2	Name (Payer)

Standard			Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
N1					
98	Entity Identifier Code	M ID 2/2	M ID 2/2	PR Payer	
93	Name	C AN 1/35	M AN 1/35	"MERCEDES-BENZ"	
66	Identification Code Qualifier	C ID 1/2	M ID 2/2	92 Assigned by Buyer or Buyer's Agent	
67	Identification Code	C AN 2/20	M AN 2/6	"MBUSI"	

Remark:

None

Example:

N1*PR*MERCEDES-BENZ*92*MBUSI~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	9	ENT	M	1	2	Entity

Standard			Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
ENT					
554	Assigned Number	O N0 1/6	M N0 1/6		1
98	Entity Identifier Code	C ID 2/2			Not used
66	Identification Code Qualifier	C ID 1/2			Not used
67	Identification Code	C AN 2/20			Not used
98	Entity Identifier Code	C ID 2/2			Not used
66	Identification Code Qualifier	C ID 1/2			Not used
67	Identification Code	C AN 2/20			Not used
128	Reference Number Qualifier	C ID 2/2			Not used
127	Reference Number	C AN 1/30			Not used

Remark:

None

Example:

ENT*1~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	10	RMR	M	1	2	Remittance Advice Accounts Receivable Open Item

		Standard	Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
RMR					
128	Reference Number Qualifier	C ID 2/2	M ID 2/2	IK (SAP) Invoice Number	
127	Reference Number	C AN 1/30	M AN 1/30	MBUSI Internal Invoice Number	
482	Payment Action Code	O ID 2/2		Not used	
782	Monetary Amount	O R 1/15		Not used	
777	Total Invoice or Credit/Debit Amount	- - -----	M R 1/15	Total Invoice Amount in USD	

Remark:

MBUSI Internal Invoice Number is generated by MBUSI's SAP system.

This reference number given here acts as a "seller's invoice number." It is internally generated by MBUSI's SAP system as a part of self-billing. The supplier can refer to this number when communicating to MBUSI for resolving discrepancies, as it will appear inside MBUSI's SAP system as a vendor invoice number.

For the detail version of the 820 the RMR05 value is equal to the extended value (IT102 * IT104) of all IT1 segments below it.

Example:

RMR*IK*5150018356***1645.32~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	11	IT1	M	1	3	Baseline Item Data

Standard			Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
IT1					
350	Assigned Identification	O AN 1/11	M AN 1/11	Line Item Number	
358	Quantity Invoiced	C R 1/10	M R 1/10	Actual Quantity of Parts Used/Received	
355	Unit or Basis for Measurement	C ID 2/2	M ID 2/2	Dynamic, based on value in SAP for piece parts, contains "EA" – Each	
212	Unit Price (US dollars)	C R 1/17	M R 1/17		
639	Basis of Unit Price Code	O ID 2/2	M ID 2/2	UM	Price per Unit of Measure
				PN	Price per 10
				HP	Price per 100
				TP	Price per 1000
235	Product/Service Qualifier	O ID 2/2	M ID 2/2	BP	Buyer's Part Number
234	Product/Service ID	C AN 1/40	M AN 1/40	MBUSI Part Number	
235	Product/Service Qualifier	O ID 2/2	M ID 2/2	PD	Part Description
234	Product/Service ID	C AN 1/40	M AN 1/40	MBUSI Part Description	

Remark:

IT1 Loop may occur more than once.

Example:

IT1*000001*23*EA*80.00*UM*BP*A2512410234*PD*Ground Cable~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	12	REF	M	1	3	Reference Numbers

Standard			Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
REF					
128	Reference Number Qualifier	M ID 2/2	M AN 2/2	VV Voucher Number	
127	Reference Number	C AN 1/30	M R 1/30	MBUSI (SAP) Internal Invoice Number	
352	Description	C AN 1/80		Not used	

Remark:

None

Example:

REF*VV*4600710554~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	13	DTM	M	1	3	Date/Time Reference

Standard			Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
DTM					
374	Date/Time Qualifier	M ID 3/3	M ID 3/3	050 Voucher Number	
373	Date	C DT 6/6	M DT 6/6	Receipt Date or Offline Date	
337	Time	C TM 4/8		Not used	
623	Time Code	O ID 2/2		Not used	
624	Century	O N0 2/2	O N0 2/2	20	
1250	Date Time Period Format Qualifier	C ID 2/3		Not used	
1251	Date Time Period	C AN 1/35		Not used	

Remark:

None

Example:

DTM*050*050409***20~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
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14 **SLN** M >1 3 Subline Item Detail

Standard			Implementation		
Tag	Name	St Format	St Format	Usage / Remark	
SLN					
350	Assigned Identification	M AN 1/11	M N 1/11	Voucher Number	
350	Assigned Identification	O AN 1/11	O AN 1/11	Part Number ID Number	
662	Relationship Code	M ID 1/1	M ID 1/1	I Included	
380	Quantity	M R 1/15	M R 1/15	Quantity of parts received	
355	Unit or Basis for Measurement	M ID 2/2	M ID 2/2	Dynamic; "EA" for piece parts	
212	Unit Price	C R 1/17		Not used	
639	Basis of Unit Price Code	O ID 2/2		Not used	
662	Relationship Code	O ID 1/1		Not used	
235	Product/Service ID Qualifier	C ID 2/2	M ID 2/2	PO if this is a CUME part SI if this is ASN data related to a CUME part PR if this is a Sequence part CN if this is a JIT part	
234	Product/Service ID	C AN 1/40	C AN 1/30	'Dummy' value (if SLN09 = "PO" and CUMES part) ASN Number (if SLN09 = "SI") Production Number (if SLN09="PR") Call-off Number (if SLN09 = "CN")	

The following 16 fields appear only in the case of **Debit memos**. Included in this area is information you need to contact the Supplier Quality Engineer to determine the reason for the Debit. The ID qualifiers used should pass filtering, but several have different meanings, as shown in the last column "Usage/Remark".

235	Product/Service ID Qualifier	O ID 2/2	O ID 2/2	F7 End-Item Description (Notification item text)	
234	Product/Service ID	C AN 1/40	O AN 1/40	Notification item short text	
235	Product/Service ID Qualifier	O ID 2/2	O ID 2/2	SN Serial Number (Notification number)	
234	Product/Service ID	C AN 1/40	O AN 1/12	Notification number	
235	Product/Service ID Qualifier	O ID 2/2	O ID 2/2	RA Return Code (Damage code description)	
234	Product/Service ID	C AN 1/40	O AN 1/40	Damage code description	
235	Product/Service ID Qualifier	O ID 2/2	O ID 2/2	TC ID (Badge holder's name)	
234	Product/Service ID	C AN 1/40	O AN 1/30	Badge holder's name	
235	Product/Service ID Qualifier	O ID 2/2	O ID 2/2	BX Bill Credit Code (Subject text)	
234	Product/Service ID	C AN 1/40	O AN 1/40	Subject text	
235	Product/Service ID Qualifier	O ID 2/2	O ID 2/2	LC Condition Code (SQE name)	
234	Product/Service ID	C AN 1/40	O AN 1/25	SQE name	
235	Product/Service ID Qualifier	O ID 2/2	O ID 2/2	SB Submission number (SQE telephone number)	
234	Product/Service ID	C AN 1/40	O AN 1/16	SQE telephone number	
235	Product/Service ID Qualifier	O ID 2/2	O ID 2/2	ZZ Mutually defined (SQE fax number)	
234	Product/Service ID	C AN 1/40	O AN 1/31	SQE fax number	

Remarks:

For Sequence parts, SLN09 will contain a "PR", and there will be no ASN information. A single SLN line will convey the consumed quantity.

For CUME parts, SLN09 will contain a "PO" but SLN10 will contain a 'dummy' value. **This value should be ignored.** The field is being populated because it is conditionally required if SLN09 contains a value, which it does. In this case, an additional SLN line (with SLN09="SI") containing the ASN Number will be provided. The supplier-reported quantity is included in that second SLN, allowing you to see if there is a variance between the ASN-claimed quantity and the quantity actually received at MBUSI.

Exception: Debit Memos will no have the dummy value. For Damaged Material (DMT) tracking, the Quality notification number will be sent (with SLN09= "SI").

Examples:

For a Sequence Part

SLN*5150044502*000001*I*1*EA***PR*0002175486~

The production number is shown as a 10-digit number, but only the low-order (rightmost) 7 digits are meaningful. No check digit is used.

For a CUMES Part

SLN*4600899999**I*32*EA***PO*DUMMY~

SLN*4600899999**I*32*EA***SI*80925012~

These two SLN lines go together: the first is the received quantity, and the second is what the supplier sent in their ASN.

In addition, for a Debit memo

SLN*4601131367**I*1*C6***SI*PS0001089469

The SLN line has the Quality notification number.

For a Debit Memo

SLN*5150075063**I*8*EA***SI*PS0001089469*F7*shipping damage*SN*000200003416*RA*FINISH /
QUALITY*TC*Cindy Johnson*BX*shipping damage*LC*Sulu*SB*867-5309*ZZ*867-5309

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
0020	27	SE	M	1	2	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	Must be the same as ST02

Remark:

ST Loop may occur more than once.

Example:

SE*25*119492~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	16	GE	M	1	1	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	Must match the Group Control Number in GS06

Remark:

None

Example:

GE*1*1751~

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	17	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:

None

Example:

IEA*1*000001751~

Appendix

MBUSI Trading Partner Specific Information

ID Qualifier			“ZZ”
EDI Interchange ID	MBUSI Sending – Prod.	“MBUS	MBUS002 ”
	MBUSI Sending – Test	“MBUS	MBUS002 ”
	Supplier Sending – Prod.	“MBUS	MBUS003 ”
	Supplier Sending – Test	“MBUS	MBUS005 ”

*Note the three spaces after “MBUS”

Value Added Network GXS / IE (now part of OpenText)

Element Status Legend

- M mandatory
- C conditional
- O optional

Element Format Legend

- Nn integer (with *n* specified decimal spaces, ie. N0 is an integer with no decimal places)
- R real number (explicit decimal point)
- AN alphanumeric
- DT date (always 6 characters YYMMDD)
- TM time (4 HHMM, 6 HHMMSS, 7 HHMMSS, 8 HHMMSSDD)
- ID defined code

Example message

The following is an example of an EDI Payment Order/Remittance Advice. The overall format is the same for CUMES, and Sequence Suppliers; for CUMES parts, a second SLN segment contains the additional information of ASN# and ASN quantity.

```

ISA*00*                *00*                *ZZ*MBUS   MBUS002 *01*999999999
*971003*1550*U*00200*000000002*0*P*^~
GS*PS*MBUS002*16546754A *971003*1550*2*X*003050~
ST*820*0136~
BPR*E*206.40*C*NON*****5150044502*MBUSI~
TRN*1*0000008699999*5150044502*MBUSI~
DTM*097*050929***20~
N1*PE*ALPHA DELTA ELECTRIC*92*16546754A~
N1*PR*MERCEDES-BENZ*92*MBUSI~
ENT*1~
RMR*IK*5150044502***206.40~
IT1*000001*1*EA*104.90*PE*BP*A1645400508*PD*WIRING HARNESS FRONT DOOR~
REF*VV*5150044502~
DTM*050*050311***20~
SLN*5150044502*000001*I*1*EA****PR*0002000051~
IT1*000002*10*EA*10.15*PE*BP*A1645400530*PD*STARTER CABLE ~
REF*VV*5150044502~
DTM*050*050311***20~
SLN*5150044502*000002*I*10*EA****PO*DUMMY~
SLN*5150044502*000002*I*10*EA****SI*3002527099~
SE*36*0136~
GE*1*2~
IEA*1*000000002~
    
```