830 Planning Schedule

ANSI X12

Version 004010

830 Planning Schedule

Transaction Layout:

Heading:

Cummins-Cummins-Meritor Req	Pos No	Seg ID	Name	Req Des	Max Use	Loop Repeat	Notes and Examples
Required	010	ST	Transaction Set Header	M	1		
Required	020	BFR	Beginning segment of Planning Schedule	M	1		
			LOOP ID – N1			200	
Required	230	N1	Name	O	1		

Detail:

Cummins-Cummins-Meritor Req	Pos No	Seg ID	Name	Req Des	Max Use	Loop Repeat	Notes and Examples
			LOOP ID – LIN			>1	
Required	010	LIN	Item Identification	O	1		
Required	020	UIT	Unit Detail	O	1		
			LOOP ID – N1			200	
Required	320	N1	Name	O	1		
		SDP	Ship/Delivery Pattern	O	1		
			LOOP ID – FST			>1	
Required	410	FST	Forecast Schedule	O	1		Note 1.
			LOOP ID – SHP			25	
	470	SHP	Shipped/Received Information	O	1		

Summary:

Cummins-Cummins-Meritor Req	Pos No	Seg ID	Name	Req Des	Max Use	Loop Repeat	Notes and Examples
Required	010	CTT	Transaction Totals	O	1		Note 2.
Required	020	SE	Transaction Set Trailer	M	1		

Notes and Examples:

1. For Segment requirements, refer to the column titled "CUMMINS-CUMMINS-MERITOR Req" in the table above for those segments that are required in the Transaction.
2. For Element requirements, refer to the column titled "CUMMINS-CUMMINS-MERITOR Req" in the elements table for each segment detailed in the pages that follow.
   If the segment is used, then these elements are required.

Segment: ISA Interchange Control Header
Position: 001
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

Examples: ISA*00*   *00*   *01*052354297S   *01*00999999
*161014*0324*U*00401*000000038*0*P*}

Data Element Summary

Attributes	Req.	Des.	Element	Name	
	CUMMINS-CUMMINS-MERITOR		Ref.	Data	
	Req.	Des.	Element	Name	
	Required	ISA01	I01	Authorization Information Qualifier	M ID 2/2

Code to identify the information in Authorization information
00 No authorization information present

	Required	ISA02	I02	Authorization Information Description	M AN

10/10

Information used for additional identification or authorization of the interchange   sender or the data in the interchange; the type of information is set by the
Authorization Information Qualifier blank

	Required	ISA03	I03	Security Information Qualifier	M ID 2/2

Code to identify the type of information in the Security Information. All valid standard   codes are used
00 No security information present

	Required	ISA04	I04	Security Information	M AN

10/10

This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier blank

	Required	ISA05	I05	Interchange ID Qualifier	M ID

2/2

Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. All valid standard codes are used
01   Duns (Dun & Bradstreet)
12   Phone (Telephone companies)
ZZ Mutually Defined

	Required	ISA06	I06	Interchange Sender ID	M AN

15/15

Code Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element

	Required	ISA07	I05	Interchange ID Qualifier	M ID

2/2

Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. All valid standard codes are used
01 Duns (Dun & Bradstreet)
12 Phone (Telephone companies)
ZZ Mutually Defined

Required	ISA08	I07	Interchange Receiver ID		M AN

15/15

Identification code published by the receiver of the data. When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them

Required	ISA09	I08	Interchange Date		M

DT 6/6

Date of the interchange
YYMMDD

Required	ISA10	I09	Interchange Time		M TM

4/4

Time of the interchange
HHMM

Required	ISA11	I10	Interchange Control Standards Identifier		M ID

1/1

Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer
Constant U

Required	ISA12	I11	Interchange Control Version Number		M ID

5/5

This version number covers the interchange control segments.
00401 Draft standards for Trial Use Approved for Publication by
ASC X12 Procedures Review Board through October 1997
Constant 00401

Required	ISA13	I12	Interchange Control Number		M N0

9/9

A control number assigned by the interchange sender

Required	ISA14	I13	Acknowledgment Requested		M ID

1/1

Code sent by the sender to request an interchange acknowledgment
0 No Acknowledgement Required
1 = Yes Acknowledgement Required

	Required	ISA15	I14	Usage Indicator	M ID

1/1

Code to indicate whether data enclosed by this interchange envelope is test, production or information
P   Production
T   Test Data

	Required	ISA16	I15	Component Element Separator	M

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

Segment: **GS** Functional Group Header
Position: 002
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a functional group and to provide control information

Examples: `GS*PS*052354297S  *00999999*20161014*0324*38*X*004010`

Data Element Summary

CUMMINS-MERITOR Req.	Ref. Des.	Data Element	Name	Attributes
Required	GS01	479	Functional Identifier Code	M ID 2/2

Code identifying a group of application related transaction sets.
All valid standard codes are used.
Constant PS

Required	GS02	142	Application Senders Code	M AN 2/15

Code identifying party sending transmission. Codes agreed to by Trading Partners.

Required	GS03	124	Application Receivers Code	M AN 2/15

Code identifying party receiving transmission. Codes agreed to by Trading Partners.

Required	GS04	373	Date	M DT 8/8

Date expressed as YYYYMMDD

Required	GS05	337	Time	M TM 4/8

Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H=hours (0-23), M=minutes (00-59), S=integer segments (00-59), and DD=decimal seconds; decimal seconds are expressed as follows: D=tenths (0-9) and DD=hundredths (00-99)

Required	GS06	28	Group Control Number	M N0 1/9

Assigned number originated and maintained by the Sender

Required	GS07	455	Responsible Agency Code	M ID 1/2

Code used in conjunction with Data Element 480 to identify the issuer of the standard.
Constant X

Required	GS08	480	Version / Release / Industry Identifier Code	M AN 1/12

Code indicating the version, release, sub-release, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are release and sub-release, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed.

Segment:		ST Transaction Set Header	
Position:	010		
Loop:			
Level:	Heading		
Usage:	Mandatory		
Max Use:	1		
Purpose:	To indicate the start of a transaction set and to assign a control number		
Syntax Notes:			
Semantic Notes:	The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition		
Examples:	ST*830*0038		

Data Element Summary

CUMMINS-MERITOR Req.	Des.	Ref. Element	Data Name	Attributes
Required	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set Constant 830 .	M ID 3/3
Required	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Segment:	**BFR** Beginning Segment for Shipping Schedule/Production Sequence
Position:	020
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the beginning of a planning schedule transaction set; whether a ship or delivery based forecast; and related forecast envelope dates
Syntax Notes:	At least one of BFR02 or BFR03 is required
Semantic Notes:	1 BFR06 is the forecast horizon start date – the date when the forecast horizon begins
	2 BFR07 is the forecast horizon end date – the date when the forecast horizon ends
	3 BFR08 is the forecast generation date – the date the forecast was created
Examples:	BFR*05**88888888*DL*A*20161013*20180228*20161014

Data Element Summary

CUMMINS-MERITOR Req.	Des.	Ref. Element	Data Name	Attributes
Required	BFR01	353	Transaction Set Purpose Code	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
			01 Cancellation	
			05 Replace	
Required	BFR03	328	Release Number	X DT 1/30
			Number identifying a release against a Purchase Order previously place by the parties involved in the transaction	
Required	BFR04	675	Schedule Type Qualifier	M ID 2/2
			Code identifying the type of dates used when defining a shipping or delivery time in a schedule or forecast	
			DL Delivery Based – Due at ArvinCummins-Meritor	
			SH Shipment Based – Due to ship from Vendor	
Required	BFR05	676	Schedule Quantity Qualifier	M ID 1/1
			Code identifying the type of quantities used when defining a schedule or forecast	
			A Actual Discrete Quantities	
			C Cumulative Quantities	
Required	BFR06	373	Horizon Start Date	M DT 8/8
			Date expressed as YYYYMMDD	
Required	BFR07	373	Horizon End Date	O DT 8/8
			Date expressed as YYYYMMDD	
Required	BFR08	373	Release Date	M DT 8/8
			Date expressed as YYYYMMDD	

Segment: **N1** Name
Position: 230
Loop: N1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.

Examples: N1*SU**92*00999999

Data Element Summary

CUMMINS-MERITOR Req.	Ref. Des.	Data Element	Name	Attributes
Required	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
			SU Supplier Manufacturer	
Required	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			12 Telephone Number (Phone)	
			92 Assigned by Buyer or Buyer's Agent	
			ZZ Mutually Defined	
Required	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	

Segment:	**LIN** Item Identification
Position:	010
Loop:	LIN Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	1 If either LIN04 or LIN05 is present, then the other is required
	2 If either LIN06 or LIN07 is present, then the other is required
	3 If either LIN07 or LIN08 is present, then the other is required
Examples:	`LIN*9*PN*12345678901*PO*203431*EC*--T`

Data Element Summary

CUMMINS-MERITOR Req.	Des.	Ref. Element	Data Name	Attributes
Required	LIN01	666	Assigned Identification Identifying number for a line item PO Line Number	M ID 1/6
Required	LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) PN Part Number	M ID 2/2
Required	LIN03	234	Product/Service ID Identifying number for a product or service Cummins-Meritor Part Number	M AN 1/48
Required	LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) PO Purchase Order Number	M ID 2/2
Required	LIN05	234	Product/Service ID Identifying number for a product or service Cummins-Meritor Purchase Order Number	M AN 1/48
Required	LIN06	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) EC Engineering Change Level	X ID 2/2
Required	LIN07	234	Product/Service ID Identifying number for a product or service Part Engineering Change Level	X AN 1/48

Segment: **UIT** Unit Detail
Position: 020
Loop: LIN   Optional
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify item unit data

Examples: UIT*EA

Data Element Summary

CUMMINS-MERITOR Req.	Ref. Des.	Data Element	Name	Attributes
Required	UIT01	355	Unit or Basis for Measurement Code	M ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

EA	Each
LB	Pound
PC	Piece

Segment: **N1** Name

Position:	320			
Loop:	N1	Optional		
Level:	Detail			
Usage:	Optional			
Max Use:	1			
Purpose:	To identify a party by type of organization, name, and code			
Syntax Notes:	1 At least one of N102 or N103 is required.			
	2 If either N103 or N104 is present, then the other is required.			

Examples: `N1*ST**92*052354297S`
                    `N1*SF**92*00999999`

Data Element Summary

CUMMINS-MERITOR Req.	Des.	Ref. Element	Data Name	Attributes
Required	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an Individual	
			SF Ship From	
			ST Ship To	
Required	N102	93	Name	X AN 1/60
			Free-form name	
Required	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			1 D-U-N-S Number, Dun & Bradstreet	
			12 Telephone Number (Phone)	
			92 Assigned by Buyer or Buyer's Agent	
			ZZ Mutually Defined	
Required	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	

Segment: SDP Ship/Delivery Pattern
Position: 2190
      Loop: SDP Optional
      Level: Detail
      Usage: Optional
Max Use: 1
      Purpose: To specify identifying information
Syntax Notes:

      Examples: SDP*Z*Z

Data Element Summary

CUMMINS-MERITOR Req.	Des.	Ref. Element	Data Name	Attributes
Required	SDP01	678	Ship Delivery Pattern Code Status Codes for element 678 Z -Mutually defined	M ID 1/1
Required	SDP02	679	Ship Delivery Pattern Time Code Status Codes for element 679 Z -Mutually defined	M AN 1/2

Segment: **FST** Forecast Schedule
Position: 480
Loop: FST Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the forecasted dates and quantities
Syntax Notes: 1 If FST03 equals "F", then FST04 and FST05 are required. FST04 would be used for the start date of the flexible interval and FST05 would be used for the end date of the flexible interval
2 As qualified by FST02 and FST03, FST04 represents either a discrete forecast date, the first date of a forecast bucket (weekly, monthly, etc.) or the start date of a flexible interval

Examples:
```
FST*10*D*D*20161019
FST*96*D*W*20161024
FST*58*D*W*20161031
```

Data Element Summary

CUMMINS-MERITOR Req.	Des.	Ref. Element	Data Name	Attributes
Required	FST01	380	Quantity	M R 1/15
			Numeric value of quantity	
Required	FST02	680	Forecast Qualifier	M ID 1/1
			Code specifying the sender's confidence level of the forecast data or an action associated with a forecast	
		A	Immediate	
		C	Firm	
		D	Planning	
Required	FST03	681	Forecast Timing Qualifier	M ID 1/1
			Code specifying interval grouping of the forecast	
		D	Daily	
		F	Flexible Interval	
		W	Weekly	
		M	Monthly	
Required	FST04	373	Date	M DT 8/8
			Date expressed as YYYYMMDD	

Segment: **SHP** Shipped/Received Information

Position: 470
Loop: SHP   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify shipment and/or receipt information
Syntax Notes: 1…If SHP01 is present, then SHP02 is required.
               2…If SHP03 is present, then SHP04 is required.
               3…If SHP04 is present, then SHP03 is required.

Semantic Notes: 1 SHP04 is the date shipped, delivered, received, or the cumulative quantity start date
                   (as qualified by SHP03).
                2 SHP06 is the cumulative quantity end date.
                3 The SHP segment is used to communicate shipment, delivery, or receipt information
                   and may include discrete or cumulative quantities, dates, and times.
                4 If SHP01 equals "02", then SHP04 and SHP06 are required to identify the start and
                   end dates of the quantity count.

Examples: `SHP*01*835*050*20160906`
               `SHP*01*529*050*20160823`
               `SHP*01*862*050*20160624`
               `SHP*02*4014*051*20160101**20161013`

<div align="center">Data Element Summary</div>

CUMMINS-MERITOR Req.	Des.	Ref. Element	Data Name	Attributes
Required	SHP01	673	Quantity Qualifier Code specifying the type of quantity	O ID 2/2
			01 Discrete Quantity	
			02 Prior Cum Required	
Required	SHP02	380	Quantity Numeric value of quantity	X R 1/15
Required	SHP03	374	Date/Time Qualifier Code specifying type of date or time, or both date and time	X ID 3/3
			050 Received	
			051 Cumulative Quantity Start	
Required	SHP04	373	Date Date expressed as YYYYMMDD If SHP03 = "050", this date is the Last Shipment Received Date. If SHP03 = "051", this date is the Cumulative Quantity Start date.	X DT 8/8
Required	SHP06	373	Date Date expressed as YYYYMMDD If SHP03 = "051", this date is the Cumulative Quantity End Date.	O DT 8/8

Segment: **CTT** Transaction Totals
Position: 010
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set

Examples: `CTT*6*127284`

<div align="center">Data Element Summary</div>

CUMMINS-MERITOR Req.	Des.	Ref. Element	Data Name	Attributes
Required	CTT01	354	Number of Line Items Total number of line items in the transaction set	M N0 1/6
Required	CTT02	347	Hash Total Sum of values of the FST quantities.	O R 1/10

Segment: **SE** Transaction Set Trailer

Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Examples: SE*133*0038

<div align="center">Data Element Summary</div>

CUMMINS-MERITOR Req.	Des.	Ref. Element	Data Name	Attributes
Required	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
Required	SE02	329	Transaction Set Control Number Sequentially assigned number must be the same as the number in ST02	M AN 4/9

Segment: **GE Functional Group Trailer Segment**
Position: 030
       Loop:
      Level: Summary
      Usage: Mandatory
  Max Use: 1
    Purpose: To indicate the end of a functional group and to provide control information

Example: `GE*1*38`

Data Element Summary

CUMMINS-MERITOR Req.	Des.	Ref. Element	Data Name	Attributes
Required	GE01	97	Number of Transaction Set	M N0 1/6
			Total number of ST segments in the group	
Required	GE02	329	Control Number	M AN 4/9
			Sequentially assigned number must be the same as the number in GS06	

Segment: **IEA** **Interchange Control Trailer**
Position: 040
  Loop:
  Level: Summary
  Usage: Mandatory
Max Use: 1
 Purpose: To define the end of an interchange of one or more functional groups and interchange-related control segments

Example: `IEA*1*000000038`

Data Element Summary

CUMMINS-MERITOR Req.	Des.	Ref. Element	Data Name	Attributes
Required	IEA01	116	Number of Functional Groups Total number of GS segments in the Transmission	M N0 1/5
Required	IEA02	112	Control Number Sequentially assigned number must be the same as the number in ISA13	M AN 9/9

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Example: <mark>*(example data continued on next two pages)*</mark>

```
ISA*00*          *00*          *01*052354297S    *01*00999999
*161014*0324*U*00401*000000038*0*P*}
GS*PS*052354297S *00999999*20161014*0324*38*X*004010
ST*830*0038
BFR*05**88888888*DL*A*20161013*20180228*20161014
N1*SU**92*00999999
LIN*9*PN*12345678901*PO*203431*EC*--T
UIT*EA
N1*ST**92*052354297S
N1*SF**92*00999999
SDP*Z*Z
FST*10*D*D*20161019
FST*96*D*W*20161024
FST*58*D*W*20161031
FST*96*D*W*20161107
FST*128*D*W*20161114
FST*32*D*W*20161121
FST*32*D*W*20161128
FST*50*D*W*20161205
FST*32*D*W*20161212
FST*68*D*W*20161219
FST*257*D*W*20170102
FST*112*D*M*20170201
FST*208*D*M*20170301
FST*192*D*M*20170401
FST*208*D*M*20170501
FST*183*D*M*20170601
FST*176*D*M*20170701
FST*128*D*M*20170801
FST*208*D*M*20170901
FST*48*D*M*20171001
SHP*01*835*050*20160906
SHP*01*529*050*20160823
SHP*01*862*050*20160624
SHP*02*4014*051*20160101**20161013
LIN*5*PN*12345678902*PO*203431*EC*--T
UIT*EA
N1*ST**92*052354297S
N1*SF**92*00999999
SDP*Z*Z
FST*7920*A*D*20161012
SHP*01*80*050*20160705
SHP*01*523*050*20160209
SHP*01*457*050*20151016
SHP*02*603*051*20160101**20161013
LIN*6*PN*12345678903*PO*203431*EC*--T
UIT*EA
N1*ST**92*052354297S
N1*SF**92*00999999
SDP*Z*Z
FST*8446*A*D*20161012
SHP*01*480*050*20160817
SHP*01*1074*050*20160705
```

```
SHP*01*80*050*20151202
SHP*02*1554*051*20160101**20161013
LIN*3*PN*12345678904*PO*203431*EC*--T
UIT*EA
N1*ST**92*052354297S
N1*SF**92*00999999
SDP*Z*Z
FST*6*D*W*20161107
FST*184*D*W*20161114
FST*192*D*W*20161128
FST*176*D*W*20161205
FST*240*D*W*20161212
FST*227*D*W*20161219
FST*1106*D*W*20170102
FST*483*D*M*20170201
FST*944*D*M*20170301
FST*979*D*M*20170401
FST*928*D*M*20170501
FST*880*D*M*20170601
FST*899*D*M*20170701
FST*432*D*M*20170801
FST*899*D*M*20170901
FST*256*D*M*20171001
SHP*01*831*050*20161011
SHP*01*1119*050*20161004
SHP*01*160*050*20160906
SHP*02*8198*051*20160101**20161013
LIN*7*PN*12345678905*PO*203431*EC*--T
UIT*EA
N1*ST**92*052354297S
N1*SF**92*00999999
SDP*Z*Z
FST*2622*D*W*20161024
FST*3135*D*W*20161031
FST*3234*D*W*20161107
FST*1873*D*W*20161114
FST*48*D*W*20161121
FST*1657*D*W*20161128
FST*1879*D*W*20161205
FST*1543*D*W*20161212
FST*1803*D*W*20161219
FST*8155*D*W*20170102
FST*2521*D*M*20170201
FST*7584*D*M*20170301
FST*6720*D*M*20170401
FST*6640*D*M*20170501
FST*6064*D*M*20170601
FST*5904*D*M*20170701
FST*2864*D*M*20170801
FST*5488*D*M*20170901
FST*1232*D*M*20171001
SHP*01*1040*050*20161013
SHP*01*1032*050*20161013
SHP*01*1042*050*20161013
SHP*02*135702*051*20160101**20161013
LIN*8*PN*12345678906*PO*203431*EC*--T
UIT*EA
```

```
N1*ST**92*052354297S
N1*SF**92*00999999
SDP*Z*Z
FST*1461*D*W*20161107
FST*720*D*W*20161114
FST*633*D*W*20161121
FST*1251*D*W*20161128
FST*3344*D*W*20161205
FST*2073*D*W*20161212
FST*672*D*W*20161219
FST*3733*D*W*20170102
FST*2928*D*M*20170201
FST*4608*D*M*20170301
FST*1360*D*M*20170401
FST*1312*D*M*20170501
FST*1264*D*M*20170601
FST*1248*D*M*20170701
FST*608*D*M*20170801
FST*1248*D*M*20170901
FST*336*D*M*20171001
SHP*01*1040*050*20161013
SHP*01*1012*050*20161005
SHP*01*480*050*20161004
SHP*02*45824*051*20160101**20161013
CTT*6*127284
SE*133*0038
GE*1*38
IEA*1*000000038
```