

864 EDI Text

Caterpillar Inc.

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PREFACE

This writing is intended to give details on how to process an edi text transaction set 864 as sent by Caterpillar or Caterpillar Supplier.

Any questions or concerns regarding the Caterpillar EDI TEXT and/or Caterpillar's EDI communication network may be directed to:

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EXPLANATION OF DATA SEGMENT LAYOUTS

The following pages give a layout of all the AIAG records Caterpillar uses in transferring TEXT data. They are in alphabetic sequence by transaction type.

The next page shows where all this information can be found on the segment layouts.

These pages explain the layout (2), purpose, and frequency of the segments (3) as defined by ANSI and/or AIAG.

Each field is identified with the AIAG data element reference designator (4), ANSI data dictionary reference number (5), and the ANSI data element name (8). We have given values to use (9) for these fields when applicable. We have also indicated which fields are required by Caterpillar and which are optional (7). You may also wish to refer to the ANSI and AIAG standards for further clarification.

We have indicated the field lengths (6) as used by Caterpillar. AIAG does suggest sending variable length fields and records. This means leading zeros in numeric fields and trailing spaces in alphabetic fields need not be transmitted. If this creates undo difficulty, go ahead and send them.

The ANSI data dictionary reference number can be used to access the definitions and/or allowable values from the ANSI or JEDI data dictionary if additional definitions are required.

The '@' at the end of each record represents the segment terminator. This segment terminator is defined in the 'ISA' record. It need not be, and probably will not be, a '@'. The '@' is only used so the end of record can be visualized.

The '*' between each field represents the field separator. The field separator is defined in the 'ISA' record. As with the segment terminator, any character may be used as a separator unless it is also contained in the data being sent.

(1)

BEGINNING SEGMENT (MESSAGE)

(2)

BMG*00*TEXT 1@

A B C

(3)	CONTAINS TRANSACTION SET AND MESSAGE SUBJECT. (THERE WILL BE ONE "BMG" SEGMENT WITH EACH MAIL)		
	AIAG REFERENCE	FIELD CHARACTERISTICS	DESCRIPTION
A.	BMG	(AN-3) REQUIRED	DATA SEGMENT IDENTIFIER

	(4)	(5)	(6)	(7)	(8)
B.	BMG01	353	(ID-2)	REQUIRED	TRANSACTION SET PURPOSE
				(9)	QUALIFIER USE '00'
(10)	INDICATES THE BEGINNING OF A TEXT TRANSACTION SET.				

DESCRIPTION OF NOTES

- (1) ANSI segment name
- (2) Layout of the segment fields
- (3) Description of purpose and use of the segment
- (4) AIAG data element reference number
- (5) ANSI data dictionary reference number
- (6) Type and size of field (size may be a range)
 - ID = identification data
 - AN = alphanumeric
 - NUM = numeric
 - DATE = date in YYYYMMDD format
 - TIME = time in HHMM format
- (7) Indication if segment is required, optional, or not used
- (8) ANSI data element title
- (9) Explanation of what the field contains
- (10) Notes pertaining to use of the segment.

RECOMMENDED EDITING

COUNT BALANCING

1. 'ISA' MUST BE THE FIRST RECORD OR PRECEDED BY 'IEA'.
2. 'IEA' MUST BE THE LAST RECORD.
3. 'GS' MUST BE PRECEDED BY 'ISA' OR 'GE'.
4. 'ST' MUST BE PRECEDED BY 'GS' OR 'SE'.
5. 'GE' MUST BE PRECEDED BY 'SE'.
6. 'IEA' MUST BE PRECEDED BY 'GE'.
7. THE INTERCHANGE CONTROL NUMBER IN 'IEA' MUST BE THE SAME AS THE PREVIOUS 'ISA'.
8. THE DATA INTERCHANGE CONTROL NUMBER IN 'GE' MUST BE THE SAME AS THE PREVIOUS 'GS'.
9. THE TRANSACTION SET CONTROL NUMBER IN 'SE' MUST BE THE SAME AS THE PREVIOUS 'ST'.

COUNT BALANCING

1. THE 'NUMBER OF INCLUDED FUNCTIONAL GROUPS' IN 'IEA' (FIELD B) MUST EQUAL THE NUMBER OF 'GS' RECORDS SINCE THE PREVIOUS 'ISA'.
2. THE 'NUMBER OF INCLUDED TRANSACTION SETS' IN 'GE' (FIELD B) MUST EQUAL THE NUMBER OF 'ST' RECORDS SINCE THE PREVIOUS 'GS'.
3. THE 'NUMBER OF INCLUDED SEGMENTS' IN 'SE' (FIELD B) MUST EQUAL THE NUMBER OF RECORDS READ SINCE THE PREVIOUS 'ST'. THE 'ST' AND 'SE' RECORDS ARE INCLUDED IN THIS COUNT.

BMG-BEGINNING SEGMENT (MESSAGE)

BMG*00*TEXT 1@

A B C

CONTAINS TEXT TRANSACTION SET AND MESSAGE SUBJECT.			
(THERE WILL BE ONE "BMG" SEGMENT WITH EACH MAIL)			
AIAG	FIELD		
REFERENCE	CHARACTERISTICS		DESCRIPTION
A. BMG	(AN-3) REQUIRED		DATA SEGMENT IDENTIFIER
B. BMG01 353	(ID-2) REQUIRED		TRANSACTION SET PURPOSE QUALIFIER USE '00'
C. BMG02 352	(AN-80) REQUIRED		DESCRIPTION
"INDICATES THE BEGINNING OF A TEXT TRANSACTION SET."			

DTM-DATE/TIME REFERENCE (MESSAGE)

DTM*043*890316*1204@

A B C D

CONTAINS TRANSACTION DATE AND TIME REFERENCE.			
AIAG REFERENCE	FIELD CHARACTERISTICS		DESCRIPTION
A. DTM	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER
B. DTM01 374	(ID-3)	REQUIRED)	DATE/TIME QUALIFIER QUALIFIER USE '043'
C. DTM02 373	(DATE-6)	REQUIRED	TRANSACTION DATE
D. DTM03 337	(TIME-4)	REQUIRED	TRANSACTION TIME

GE -FUNCTIONAL GROUP TRAILER

GE*1*890751204@

A B C

IDENTIFIES THE END OF A FUNCTIONAL GROUP. THIS SEGMENT CONTAINS THE COUNT OF INCLUDED TRANSACTION SETS AND THE DATA INTERCHANGE CONTROL NUMBER USED TO INSURE ALL FUNCTIONAL GROUPS HAVE BEEN CORRECTLY PROCESSED. (ONE "GE" SEGMENT PER "GS" SEGMENT PROCESSED)				
AIAG REFERENCE		FIELD CHARACTERISTICS		DESCRIPTION
A. GE		(AN-2)	REQUIRED	DATA SEGMENT IDENTIFIER
B. GE01	97	(NUM-6)	REQUIRED	NUMBER OF INCLUDED TRANSACTION ACCUMULATED TOTAL NUMBER OF "ST" SEGMENTS INCLUDED IN THIS FUNCTIONAL GROUP
C. GE02	28	(NUM-9)	REQUIRED	INTERCHANGE CONTROL NUMBER SAME CONTROL NUMBER USED IN THE PREVIOUS "GS" SEGMENT (GS06)

GS -FUNCTIONAL GROUP HEADER

GS*TX*MAIL*A0048J0*890316*1204*890751204*X*003020@

A B C D E F G H I

IDENTIFIES THE FUNCTIONAL GROUP OF THE TRANSACTION SET BEING TRANSMITTED AS WELL AS ADDITIONAL INTERCHANGE CONTROL DATA USED IN THE TRANSMISSION. (ONE "GS" SEGMENT PER "ISA")				
AIAG REFERENCE		FIELD CHARACTERISTICS		DESCRIPTION
A. GS		(AN-2) REQUIRED		DATA SEGMENT IDENTIFIER
B. GS01	479	(ID-2) REQUIRED		FUNCTIONAL ID TX = TEXT (text)
C. GS02	142	(AN-12) REQUIRED		APPLICATION SENDER'S CODE CATERPILLER SENDING - "MAIL"
D. GS03	124	(AN-12) REQUIRED		APPLICATION RECEIVER'S CODE CATERPILLAR SENDING - CATERPILLER ASSIGNED SUPPLIER CODE
E. GS04	29	(DATE-6) REQUIRED		DATA INTERCHANGE DATE TRANSMISSION DATE IN YYMMDD FORMAT
F. GS05	30	(TIME-4) REQUIRED		DATA INTERCHANGE TIME TRANSMISSION TIME IN HHMM FORMAT
G. GS06	28	(NUM-9) REQUIRED		DATA INTERCHANGE CONTROL NUMBER ASSIGNED TO CONTROL TRANSMISSION, ALSO USED IN "GE" SEGMENT (GE02)
H. GS07	455	(ID-2) REQUIRED		RESPONSIBLE AGENCY CODE X = ANSI X-12 STANDARD
I. GS08	480	(AN-6) REQUIRED		VERSION "003020"

IEA-INTERCHANGE CONTROL TRAILER

IEA*1*890751204@

A B C

AIAG REFERENCE	FIELD CHARACTERISTICS	DESCRIPTION
A. IEA	(AN-3) REQUIRED	DATA SEGMENT IDENTIFIER
B. IEA01 405	(NUM-5) REQUIRED	NUMBER OF INCLUDED GROUPS ACCUMULATED TOTAL NUMBER OF "GS" SEGMENTS INCLUDED IN THIS INTERCHANGE (SINCE THE PREVIOUS "ISA" SEGMENT)
C. IEA02 709	(NUM-9) REQUIRED	INTERCHANGE CONTROL NUMBER SAME CONTROL NUMBER AS USED IN THE PREVIOUS "ISA" SEGMENT (ISA13)

ISA-INTERCHANGE CONTROL HEADER

```

ISA*00*          *00*          *09*005070479MAIL *ZZ*A0048J0      *
A  B  C          D  E          F  G          H  I
890316*1204*U*00200*890751204*0*P*\@
J      K    L M      N          O P QR
    
```

```

| THIS IS THE START OF THE INTERCHANGE ENVELOPE. IT IDENTIFIES
| THE SOURCE (CATERPILLAR) AND RECEIVER (SUPPLIER) OF THE DATA.
| IT IDENTIFIES SEPARATORS AND TERMINATORS TO BE USED IN THE
| TRANSMISSION. THIS IS DATA REQUIRED BY ANSI TO CONTROL THE
| THE INTERCHANGE OF DATA BETWEEN THE SENDER AND RECEIVER. ALL
| DATA IS IN A FIXED POSITION. (THERE WILL BE ONE 'ISA' SEGMENT
| FOR EACH CATERPILLAR LOCATION SENDING TEXTS)
    
```

AIAG REFERENCE	FIELD CHARACTERISTICS	DESCRIPTION
A. ISA	(AN-3) REQUIRED	DATA SEGMENT IDENTIFIER ISA = INTERCHANGE CONTROL HEADER
B. ISA01 744	(AN-2) REQUIRED	AUTHORIZED INFORMATION QUALIFIER USE '00'
C. ISA02 745	(AN-10) REQUIRED	AUTHORIZED INFORMATION USE 10 SPACES
D. ISA03 746	(AN-2) REQUIRED	SECURITY INFORMATION QUALIFIER USE '00'
E. ISA04 747	(AN-10) REQUIRED	SECURITY INFORMATION USE 10 SPACES
F. ISA05 704	(ID-2) REQUIRED	SENDER ID QUALIFIER 09 = DUNS NUMBER
G. ISA06 705	(AN-15) REQUIRED	SENDER ID 005070479 = CATERPILLAR DUNS CODE + 'MAIL' + 2 SPACES
H. ISA07 704	(ID-2) REQUIRED	RECEIVER ID QUALIFIER ZZ = MUTUALLY DEFINED
I. ISA08 706	(AN-15) REQUIRED	RECEIVER ID CATERPILLAR ASSIGNED SUPPLIER CODE
J. ISA09 373	(NUM-6) REQUIRED	SUBMIT DATE YYMMDD FORMAT
K. ISA10 337	(NUM-4) REQUIRED	SUBMIT TIME HHMM FORMAT

L.	ISA11	(AN-1)	REQUIRED	INTERCHANGE STANDARD ID U = USA
M.	ISA12 703	(AN-5)	REQUIRED	INTERCHANGE VERSION ID USE "00200"
N.	ISA13 709	(NUM-9)	REQUIRED	INTERCHANGE CONTROL NUMBER UNIQUE NUMBER ASSIGNED TO CONTROL TRANSMISSION, ALSO USED IN IEA SEGMENT(IEA02)
O.	ISA14 749	(AN-1)	REQUIRED	ACKNOWLEDGE REQUESTED USE "0" = no acknowledge requested
P.	ISA15 748	(AN-1)	REQUIRED	TEST INDICATOR USE "P" = production "T" = test
Q.	ISA16 701	(AN-1)	REQUIRED	SUBELEMENT SEPARATOR ALWAYS '\.'
R.	ISA17 701	(AN-1)	REQUIRED	TERMINATOR

MIT-MESSAGE NUMBER

MIT*1@

A B

CONTAINS THE REFERENCE NUMBER FOR THE MESSAGE.			
AIAG REFERENCE	FIELD CHARACTERISTICS		DESCRIPTION
A. MIT	(AN-3)	REQUIRED	DATA SEGMENT IDENTIFIER
B. MIT01 127	(ID-1)	REQUIRED	REFERENCE NUMBER ID

MSG-MESSAGE LINE

MSG*THIS MESSAGE IS TO INFORM YOU OF NEW MESSAGE CAPABILITIES@
A B

CONTAINS DESCRIPTIVE MESSAGE LINE.			
AIAG REFERENCE	FIELD CHARACTERISTICS		DESCRIPTION
A. MSG	(AN-3) REQUIRED		DATA SEGMENT IDENTIFIER
B. MSG01 933	(AN-264) REQUIRED		FREE-FORM MESSAGE TEXT

N1 - ORGANIZATION NAME

N1*SU*ABCD COMPANY*92*X0000X0@
 A B C D E

N1*FR*DPGO*92*KORTHTL@
 A B C D E

ASC X12 REFERENCE	ELEMENT CHARACTERISTICS	DESCRIPTION
A. N1	(AN-2) REQUIRED	DATA SEGMENT IDENTIFIER.
B. N101 98	(ID-2) REQUIRED	ORGANIZATION IDENTIFIER. SU = SUPPLIER. FR = MESSAGE FROM.
C. N102 93	(AM-35) REQUIRED	FREE-FORM ORGANIZATION NAME. See appendix A for: MESSAGE ADDRESS.
D. N103 66	(ID-2) REQUIRED	ID CODE QUALIFIER. 92 = Assigned by Buyer.
E. N104 67	(AN-17) REQUIRED	FREE-FORM ORGANIZATION NAME. See appendix A for: CODE.

REF-REFERENCE NUMBERS

REF*MG*DISOSSABCD COMPANY@
 A B C

CONTAINS MESSAGE ADDRESS/ID. (THIS IS AN OPTIONAL SEGMENT.)			
AIAG REFERENCE	FIELD CHARACTERISTICS		DESCRIPTION
A. REF	(AN-2)	REQUIRED	DATA SEGMENT IDENTIFIER
B. REF01 128	(ID-2)	REQUIRED	REFERENCE NUMBER QUALIFIER MG = MESSAGE ADDRESS/ID
C. REF02 127	(AN-30)	REQUIRED	REFERENCE NUMBER

SE -TRANSACTION SET TRAILER

SE*10*0001@

A B C

IDENTIFIES THE END OF A TRANSACTION SET. THIS SEGMENT CONTAINS THE SEGMENT COUNTS AND INTERCHANGE CONTROL NUMBER USED TO INSURE ALL RECORDS HAVE BEEN CORRECTLY PROCESSED. (ONE "SE" SEGMENT PER "ST" SEGMENT PROCESSED)				
AIAG REFERENCE	FIELD CHARACTERISTICS		DESCRIPTION	
A. SE	(AN-2)	REQUIRED	DATA SEGMENT IDENTIFIER	
B. SE01 96	(NUM-6)	REQUIRED	NUMBER OF INCLUDED SEGMENTS ACCUMULATED TOTAL NUMBER OF SEGMENTS FROM PREVIOUS "ST" SEGMENT, INCLUDING THE "ST" AND "SE" SEGMENTS	
C. SE02 329	(AN-9)	REQUIRED	TRANSACTION SET CONTROL NUMBER SAME CONTROL NUMBER AS THE ONE USED IN THE PREVIOUS "ST" SEGMENT (ST02)	

ST -TRANSACTION SET HEADER

ST*864*0001@

A B C

IDENTIFIES START OF A TRANSACTION SET FOR A PURCHASE ORDER. (THERE WILL BE ONE "ST" SEGMENT PER RELEASE)				
AIAG REFERENCE		FIELD CHARACTERISTICS		DESCRIPTION
A. ST		(AN-2) REQUIRED		DATA SEGMENT IDENTIFIER
B. ST01	143	(ID-3) REQUIRED		TRANSACTION SET IDENTIFIER 864 = TEXT
C. ST02	329	(AN-9) REQUIRED		TRANSACTION SET CONTROL NUMBER INCREMENTED BY 1 WITH EACH SHIPMENT WITHIN THE TRANSMISSION. SAME AS IN THE FOLLOWING SE02.

SAMPLE DATA - CATERPILLAR SENDING MESSAG

(ONE ENVELOPE - ELECTRONIC TEXT)

COLUMN 1....1....2....2....3....3....4....4....5....5....6....6....7
1234567890123456789012345678901234567890123456789012345678901234567890
-----+-----+-----+-----+-----+-----+-----+-----+-----+

ISA*00* *00* *09*005070479MAIL *ZZ*A0048J0 *
890316*1204*U*00200*890751204*0*P*\@

GS*TX*MAIL*A0048J0*890316*1204*890751204*X*003020@

ST*864*0001@

BMG*00*MESSAGE 1@

DTM*043*890316*1204@

N1*SU*ABCD COMPANY*92*X0000X0@

N1*FR*DPGO*92*KORTHTL@

MIT*1@

MSG*THE CONTRACT YOU SENT APPEARS TO BE IN ORDER, EXCEPT THE PARAGRAPH@

MSG*DEALING WITH THE "JUST IN TIME" DELIVERY PERCENTAGE. OUR LAST@

MSG*DISCUSSION LEFT THAT NUMBER AT 99%. IF YOU AGREE, THEN SEND ME A@

MSG*REVISED COPY SO SHIPMENTS CAN BEGIN.@

SE*11*0001@

GE*1*890751204@

IEA*1*890751204@

NOTE: @ = TERMINATION CHARACTER (HEX "0D")

APPENDIX A-MESSAGE IDENTIFICATION CODES

(DISOSS MESSAGE CODES)

The following are a list of codes used to identify the Caterpillar EDI Coordinators available to send/receive supplier messages. To obtain new Disoss Message codes for your purchasing contacts. Contact your Purchasing Contact.

MESSAGE		CATERPILLAR CONTACT
ADDRESS	CODE	
-----	----	-----
NPEO	ANDREM	MICHEL ANDRE (GRENOBLE - MANUFACTURING)
NPEO	BLANCHT	TERESA BLANCO (CONEK - PURCHASING)
NPEO	BLANCG	BEQUILLE GUY BLANC (GRENOBLE - DATA PROCESSING)
DPGO	BURGEDL	JOE BURGESS (BAR CODE)
GOS	BLANCJ	JOHAN BLANCKAERT (GOSSELIES PURCHASING)
DPGO	GOLLNPF	PAUL GOLLNITZ - SPEDI SUPPORT
DPGO	KORTHL	TOM KORTH
NPEO	MORRIP	PAUL MORRIS (LEICESTER MATERIALS)
DPGO	PROCTRC	ROGER PROCTOR - EDI D.P. SUPPORT
NPEO	RANDOSW	STEVE W. RANDON (LEICESTER MATERIALS)
NPEO	SENGEIM	INEZ M. SENGERS (GRIMBERGEN PURCHASING)
DPGO	FONTALM	LESLEY FONTANA - SUPPLIER SUPPORT SERVICES
DPGO	GILBEEC	ERIC GILBERT - SUPPLIER SUPPORT SERVICES
DPGO	MOEHNGK	JERRY MOEHN - TECHNICAL DATA INTERCHANGE