CBP Automate Export System Trade Interface Requirements -

ACE AESTIR Application Advice

February 2023

U.S. Customs and Border Protection

824 Application Advice

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Functional Group ID= AG

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Introduction:

This X12 Transaction Set contains the format and establishes the data content of the Customs and Border Protection's (CBP) "Application Advice" transaction set (824) for use within the context of an Electronic Data Interchange (EDI) environment. It is used by CBP's Automated Export System (AES) to provide the "Commodity Shipment Filing Response" and, when necessary, the "Commodity Shipment Warning Reminder" to CBP's trading partners who transmit export shipment data in X12 format.

Notes:

This Implementation Guide is based on the version/release 4050 of the X12 standards

KEY to User Attributes – CBP's usage of the X12:824 standard.

M or M/U	Mandatory, Must Use
\<blank\>	Optional/Conditional (Refer to CBP's Proprietary record format in the AESTIR For the rules for correct usage.)
Not Used	Will not be included in the transmission.

Heading:

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
M/U	0050	ISA	Interchange Control Header	O	1	
M/U	0075	GS	Functional Group Header	O	1	
M	0100	ST	Transaction Set Header	M	1	
M	0200	BGN	Beginning Segment	M	1	
			LOOP ID-NI			>1
M/U	0300	N1	Party Identification	O	1	
Not Used	0400	N2	Additional Name Information	O	2	
Not Used	0500	N3	Party Location	O	2	
Not Used	0600	N4	Geographic Location	O	1	
M/U	0700	REF	Reference Information	O	12	
Not Used	0800	PER	Administrative Communications Contact	O	3	

Detail:

User Attribute	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat
			LOOP ID – OTI			>1
M	0199	OTI	Original Transaction Identification	M	1	
Not Used	0200	REF	Reference Information	O	12	
Not Used	0300	DTM	Date/Time Reference	O	2	
Not Used	0400	PER	Administrative Communications Contact	O	3	
Not Used	0500	AMT	Monetary Amount Information	O	>1	
Not Used	0600	QTY	Quantity Information	O	>1	
Not Used	0650	NM1	Individual or Organizational Name	O	9	
			LOOP ID - TED			>1
	0700	TED	Technical Error Description	O	1	
Not Used	0750	CTX	Context	O	10	
Not Used	0800	NTE	Note/Special Instruction	O	100	
Not Used	0820	RED	Related Data	O	100	
			LOOP ID - LM			>1
Not Used	0850	LM	Code Source Information	M	1	
			LOOP ID – LQ			100
Not Used	0860	LQ	Industry Code Identification	O	1	
Not Used	0870	RED	Related Data	O	100	
M	0900	SE	Transaction Set Trailer	M	1	
M/U	0930	GE	Functional Group Trailer	O	1	
M/U	0960	IEA	Interchange Control Trailer	O	1	

Segment: **ISA** Interchange Control Header
Position: 0050
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups interchange-related control segments

Data Element Summary

User Attributes	Ref. Des.	Data Element	Name		Attributes	
M	ISA01	101	**Authorization Information Qualifier** Code identifying the type of information in the Authorization Information	M	1	ID 2/2
			01 - UCS Communication ID			
M	ISA02	102	**Authorization Information** Information used for additional identification or authorization of the interchange; the type of information is set by the Authorization Information Qualifier (101)	M	1	AN 10/10
			TRANSMITTER ID - Identifier of the party that sent the commodity shipment data to the Customs and Border Protection (CBP).			
M	ISA03	103	**Security Information Qualifier** Code identifying the type of information in the Security	M	1	ID 2/2
			01 Password			
M	ISA04	104	**Security Information** 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 (I03)	M	1	AN 15/15
			Communication Password			
M	ISA05	I05	**Interchange ID Qualifier** Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified	M	1	ID 2/2
			ZZ Mutually Defined.			
M	ISA06	I06	**Interchange Sender ID** Identification code published by the sender for other parties to use as the receiver ID to route data to them: the sender always cods this value in the sender ID element	M	1	AN 15/15
			"USCSEA" for production data; "USCSAESTEST" for test data.			
M	ISA07	I05	**Interchange ID Qualifier**	M	1	ID 2/2

Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified

FILER ID TYPE

Filer ID reported in the X12:601:ISA05.

M		ISA08	I07	**Interchange Receiver ID** Identification code published by the receiver of the data; When sending, it is used the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	M	1	AN 15/15
				FILER ID Filer ID reported in the X12:601:ISA06.			
M		ISA09	I08	**Interchange Date** Date of the interchange	M	1	DT 6/6
				Date of the response transmission (YYMMDD format).			
M		ISA10	I09	**Interchange Time** Time of interchange	M	1	TM 4/4
				Time of the response transmission.			
M		ISA11	I65	**Repetition Separated** Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter use to separate repeated occurrences of a simple data element or a composite data structure; this value must be different that the data element separator, component element separator, and the segment terminator	M	1	AN 1/1
				^ (caret)			
M		ISA12	I11	**Interchange Control Version Number** Code specifying the version number of the interchange control segments	M	1	ID 5/5
				00405 Standard approved for publication by the ASC X12 Procedures Review Board.			
M		ISA13	I12	**Interchange Control Number** A control number assigned by the interchange sender	M	1	N0 9/9
				==BATCH CONTROL NUMBER defaulted to 000000000 for 97H/97R response==			
M		ISA14	I13	**Acknowledgement Requested** Code indicating sender request for an interchange acknowledgement	M	1	ID 1/1
				0 No Interchange Acknowledgment Request			
M		ISA15	I14	**Interchange Usage Indicator** Code indicating whether data enclosed by this interchange envelope is test, production or information	M	1	ID 1/1
				"P" for production data; "T" for test data.			

| M | ISA16 | I15 | Component Element Separator | M | 1 | AN 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

~   (tilde)

Segment: **GS** Functional Group Header
Position: 0075
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To start and identify an interchange of zero or more functional groups interchange-related control segments

Data Element Summary

User Attribute	Ref. Des.	Data Elements	Name	Attributes
M	GS01	479	**Functional Identifier Code** Code identifying a group of application related transaction sets	**M 1 ID 2/2**
			AG Application Advice (824)	
M	GS02	142	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners	**M 1 AN 2/15**
			"USCAES" for production data; "USCSAETEST" for test data.	
M	GS03	124	**Application Receiver's Code** Code identifying party receiving transmission; codes agreed to by trading partners	**M 1 AN 2/15**
			Same Transmitter ID as in element ISA02.	
M	GS04	373	**Date** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	**M 1 DT 8/8**
			Transmission Date	
M	GS05	337	**Time** Time expressed in 24-hour clock times as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minuets (00-559), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenth (0-9) and DD = hundredths (00-99)	**M 1 TM 4/8**
			Transmission Time.	
M	GS06	28	**Group Control Number** Assigned number originated and maintained by the sender	**M 1 N0 1/9**
M	GS07	455	**Responsible Agency Code** Code identifying the issuer of the standard; this code is used in conjunction with Data Elements 480	**M 1 ID 1/2**
			X Accredited Standards Committee X12	

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

Code indicating the version, release, subrelease, and industry identifier of the EDI standards being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, 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

004050 Standard approved for publication by ASC X12 Procedures Review Board.

Segment: BGN **Beginning Segment**
Position: 0200
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction

Data Elements Summary

User Attribute	Ref. Des.	Data Elements	Name	Attributes
M	BGN01	353	**Transaction Set Purpose** Code identifying purpose of transaction set	M 1 ID 2/2
			01 Batch Identification	
M	BGN02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identifier Qualifier	M 1 AN 1/50
			TRANSMITTER ID Identifier of the party that sent the commodity shipment data to the Customs and Border Protection (CBP). Equivalent AESTIR Proprietary Element: A – Transmitter ID. Equivalent X12:601 Element: ISA02	
M	BGN03	373	**Date** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M 1 DT 8/8
			TRANSMITTER DATE This is the Filer/Transmitter's date of transmission. Equivalent AESTIR Proprietary Element: A – Transmitter Date. Equivalent X12:601 Element: ISA09.	
Not Used	BNG04	337	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSDD, where H = hours (00-23), M = minuets (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X 1 TM 4/8
Not Used	BNG05	623	**Time Code** Code identifying the time. In accordance with International Standards Organization standards 8601, time can be specified by a + or – and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and – are substituted by P and M in the codes that follow	O 1 ID 2/2
M/U	BGN06	127	**Reference Identification**	O 1 AN 1/50

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

APPLICATION INTENIFER

Identifies the AES output batch type:

XT = Commodity Shipment Filing Response.
XN = Commodity Shipment Warning Reminder.

Equivalent AESTIR Propriety Element: A – Application Identifier.

Not Used	BGN07	640	**Transaction Type Code** Code specifying the type of transaction	**O**	**1**	**ID**	**2/2**
Not Used	BGN08	306	**Action Code** Code indicating type of action	**O**	**1**	**ID**	**1/2**
Not Used	BGN09	786	**Security Level Code** Code indicating the level of confidentiality assigned by the sender to the information following	**O**	**1**	**ID**	**2/2**

Segment: $N1$ Party Identification
Position: 0300
Loop: N1   Optional
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code

Data Elements Summary

User Attribute	Ref. Des.	Data Elements	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual	**M 1 ID 2/3**
			01 Block Identification	
M	**N102**	**93**	**Name** Free-form name	**X 1 AN 1/60**
			USPPI NAME Name of the US Principal Party of Interest (USPPI) for the commodity shipment transactions. Equivalent AESTIR Proprietary Element: B – USPPI Name. Equivalent X12:601 Element: N102	
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67)	**X 1 ID 1/2**
			USPPI ID TYPE Type of US Principal Party of Interest ID reported in X12:601: N104.	
			1 DUNS 24 EIN 34 SSN ZZ Foreign Entity	
			Equivalent AESTIR Proprietary Element: B – USPPI ID Type. Equivalent x12:601 Element: N103	
			The Census Bureau has eliminated the acceptance of SSN on any new filings effective December 3, 2009. Corrections (change, replace or cancel) to SEDs filed with SSN prior to the effective date will continue to be accepted.	
	N104	**67**	**Identification Code** Code identifying a party or other code	**X 1 AN 2/80**
			USPPI ID	

			Identifier o the US Principal Party in Interest (USPPI) for the commodity shipments. Equivalent AESTIR Proprietary Element: B – USPPI DI. Equivalent X12:601 Element:N104				
Not Used	N105	706	**Entity Relationship Code** Code describing entity relationship	O	1	ID	2/2
Not Used	N106	98	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual	O	1	ID	2/3

Segment: REF Reference Information
Position: 0700
Loop: N1　　Optional
Level: Heading
Usage: Optional (Must Use)
Max Use: 12
Purpose: To specify identifying information

Data Elements Summary

User Attribute	Ref. Des.	Data Elements	Name	Attributes
M	REF01	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M 1 ID 2/3
			01 Batch Control Number	
	REF02	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50
			BATCH CONTROL NUMBER Filer/Transmitter's internal batch identification sent in to the Customs and Borders Protection (CBP).	
Not Used	REF03	352	**Description** A free-form description to clarify the related data elements and their content	X 1 AN 1/80
Not Used	REF04	C040	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O 1
Not Used	C04001	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/50
Not Used	C04003	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50
Not Used	C04005	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	X ID 2/3
Not Used	C04006	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50

Segment: OTI Original Transaction Identification
Position: 0100
Loop: OTI
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify the edited transaction set and the level which the results of the edit are reported, and to indicate the accepted, rejected, or accepted with change edit results

Data Elements Summary

User Attribute	Ref. Des.	Data Elements	Name	Attributes
M	OT101	110	**Application Acknowledgement Code** Code indicating the application system edit results of the business data	**M 1 ID 1/2**
			02 Response Identification	
M	OT102	128	**Reference Identification Qualifier** Code qualifying the Reference Identification	**M 1 ID 2/3**
			OT102 and OT103 identify the Customs and Border Protection (CBP) Proprietary record represented in the X12 response. OT102 contains the record ID of the Proprietary record. (A1 represents A record, B1 the B record, Y1 the Y record, Z1 represents the Z record.) See the table in OT103	
	OT103	127	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	**C 1 AN 1/50**

OT103 identifies which instance of the Customs and Boarder Protection (CBP) Proprietary record is being reported on in the TED segment.

OT102   OT103
A1   Filers
B1   USPPI ID
SC1   Shipment Reference Number
SC2   Inbounds Code + Entry Number
SC3   Transportation Reference Number
N01   Party ID or Party Name
N02   Address Line 1
N03   City
CL1   Line Number + Commodity Description
CL2   Schedule B/HTS Number
ODT   DDTC Registration Number
EV1   VIN/Product Number
ES1   Internal Tracking Number (ITN) for an accepted shipment
Y1   USPPI ID
Z1   Filer ID

	OT104	**142**	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners	**O**	**1**	**AN**	**2/15**

AES SYSTEM GENERATED RECORD INDICATOR

OT104 = "01" indicates that AES was not able to create the Proprietary record identified in OT102 from data provided in the X12:601 inbound transmission. Therefore a place-holder Proprietary record was generated in order to create syntactically correct response. A space-holder record may be generate for the B, SC1, CL1, Y and/or Z Proprietary records (OT102 = "B1", "SC1", "CL1", "Y1", or "Z1")

Not Used	**OT105**	**124**	**Application Receiver's Code** Code identifying party receiving transmission; codes agreed to by trading partners	**O**	**1**	**AN**	**2/15**
Not Used	**OT106**	**373**	**Date** Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	**O**	**1**	**DT**	**8/8**
Not Used	**OT107**	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSDD, or where H = hours (00-23),, M = minuets (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	**O**	**1**	**TM**	**4/8**
Not Used	**OT108**	**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	**X**	**1**	**N0**	**1/9**
Not Used	**OTI10**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set	O 1 ID 3/3			
Not Used	**OTI11**	**480**	**Version / Release / Industry Identifier Code** Code indicating the version, release, subrelease, 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 the release and subrelease, 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	O 1 AN 1/12			
Not Used	**OTI12**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set	O 1 ID 2/2			

Not Used	OTI13	640	**Transaction Type Code**	**O 1 ID 2/2**
			Code specifying the type of transaction	
Not Used	OTI14	346	**Application Type**	**O 1 ID 2/2**
			Code identifying an application	
Not Used	OTI15	306	**Action Code**	**O 1 ID 1/2**
			Code indicating type of action	
Not Used	OTI16	305	**Transaction Handling Code**	**O 1 ID 1/2**
			Code designating the action to be taken by all parties	
Not Used	OTI17	641	**Status Reason Code**	**O 1 ID 3/3**
			Code indicating the status reason	

Segment: TED Technical Error Description
Position: 0700
Loop: TED   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify the error and if feasible, the erroneous segment, or data, or both

Data Element Summary

User Attributes	Ref. Des.	Data Element	Name		Attributes	
M	TED01	674	**Application Error Condition Code** Code indication application error condition	M	1	ID 1/3

RESPONSE CODE

Code that describes the condition or final disposition. See AESTIR Appendix A – "Commodity Filing Response Messages."

Equivalent AESTIR Proprietary Element: ES1 – Response Code.

M	TED02	3	**Free Form Message** Free-form text	M	1	AN 1/60

RESPONSE MESSAGE

 Format:

SEVERITY IND + blank + FINAL DISPOSITION IND + blank + NARRATIVE TEXT

Where: Severity Indicator - is 1 byte, alphabetic in position 1. Final Disposition Indicator - is 1 byte, alphabetic in position 3. Narrative Text - is up to 40 bytes, alphanumeric starting in position 5.

There is a 1 byte space between the Severity Indicator and the Final Disposition Indicator, and a 1 byte space between the Final Disposition Indicator and the start of the message text. The Final Disposition Indicator is only present when OTI02 = "ES1".
Maximum length of the Response Message - 44 bytes.

Equivalent AESTIR Proprietary Elements: ES1 - Severity Indicator, Final Disposition Indicator, Narrative Text. TED03 721 Segment ID Code O 1 ID 2/3

M	TED03	721	**Segment ID Code**	O	1	ID 2/3

Code identifying the type of information in the Security

Not Used	TED04	719	**Segment Position in Transaction Set**	O	1	N0	1/6

The numerical count position of this data segment from the start of the transaction ser: the transaction set header is count position 1

Not Used	TED05	C030	**Position in Segment**	O	1		

Code indicating the relative position of the simple data element or composite data structure in error within a segment, count beginning with 1 for the position immediately following the segment ID; additionally indicating the relative position of a repeating structure in error, count beginning with 1 for the position immediately following the preceding element separator; additionally indicating the relative position of a component of a composite data structure in error, count beginning with 1 for the position following the preceding element or repetition separator

Not Used	C03001	722	**Element Position in Segment**	M		N0	1/2

This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID

Not Used	C03002	1528	**Component Data Element Position in Composite**	O		N0	1/2

To identify the component data element position within the composite that is in error

Not Used	C03003	1686	**Repeating Data Element Position**	O		N0	1/4

To identify the specific repetition of a data element that is in error

Not Used	TED06	C999	**Reference in Segment**	O	1		

To hold the reference number of a data element and optionally a component data element within a composite

Not Used	C99901	725	**Data Element Reference Number**	M		N0	1/4

Reference number used to locate the data element in the Data Element Dictionary

Not Used	C99902	725	**Data Element Reference Number**	O		N0	1/4

Reference number used to locate the data element in the Data Element Dictionary

Not Used	TED07	724	**Copy of Bad Data Element**	O	1	AN	1/99

This is a copy of the data element in error

Not Used   **TED08**   **961**   **Data Element New Content**   **O**   **1**   **AN**   **1/99**

New data which has replaced erroneous data

Segment: SE **Transaction Set Trailer**
Position: 0900
Loop:
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction aet to provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Data Elements Summary

User Attribute	Ref. Des.	Data Elements	Name	Attributes
M	SE01	96	**Number of Included Segments** Total number of segments included in a transaction sed including ST and SE	**M 1 N0 1/10**
M	SE02	329	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group by the originator for a transaction set	**M 1 AN 4/9**

Segment: GE **Functional Group Trailer**
Position: 0930
Loop:
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information

Data Elements Summary

User Attribute	Ref. Des.	Data Elements	Name	Attributes
M	GE01	97	**Number of transaction Set Included** Total number of transactions set included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	**M 1 N0 1/6**
M	GE02	28	**Group Control Number** Assigned number originated and maintained by the sender	**M 1 N0 4/9**

Segment: IEA   **Interchange Control Trailor**
Position: 0960
Loop:
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To define the of an interchange of zero or more functional groups and interchange related control segments

Data Elements Summary

User Attribute	Ref. Des.	Data Elements	Name	Attributes
M	IEA01	116	**Number of Included Functional Groups** A count of the number of functional groups included in an interchange	**M 1 N0 1/5**
M	IEA02	112	**Interchange Control Number** A control number assigned by the interchange sender	**M 1 N0 9/9**