American Axle & Manufacturing

APPLICATION ADVICE - APERAK

Supplier EDI Implementation Guideline
Version 1.1

APERAK Guideline Changes

V1.1 – August 20, 2004

FTX segment – Add second line of free text using component element 4440.

Questions? Contact Support at aamedisupport@aam.com

APERAK Application Error and Acknowledgement Message

Introduction:

The function of this message is: a) to inform a message issuer that his message has been received by the addressee's application and has been rejected due to errors encountered during its processing in the application. b) to acknowledge to a message issuer the receipt of his message by the addressee's application.

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Group Repeat	Notes and Comments
M	0010	UNH	Message Header	M	1		
M	0020	BGM	Beginning of Message	M	1		
Must Use	0030	DTM	Date/Time/Period	C	9		
Must Use	0040	FTX	Free Text	C	9		
	0050	CNT	Control Total	C	9		
	0060		Segment Group 1: RFF-DTM	C		9	
M	0070	RFF	Reference	M	1		
Not Used	0080	DTM	Date/Time/Period	C	9		
	0090		Segment Group 2: NAD-CTA-COM	C		9	
M	0100	NAD	Name and Address	M	1		
Not Used	0110	CTA	Contact Information	C	9		
Not Used	0120	COM	Communication Contact	C	9		
Must Use	0130		Segment Group 3: ERC-FTX-SG4	C		99999	
M	0140	ERC	Application Error Information	M	1		
Not Used	0150	FTX	Free Text	C	1		
	0160		Segment Group 4: RFF-FTX	C		1	
M	0170	RFF	Reference	M	1		
	0180	FTX	Free Text	C	9		
M	0190	UNT	Message Trailer	M	1		

		UNH Message Header
Segment:		
Position:		0010
Group:		
Level:		0
Usage:		Mandatory
Max Use:		1
Purpose:		A service segment starting and uniquely identifying a message. The message type code for the Application error and acknowledgement message is APERAK.

Note: Application error and acknowledgement messages conforming to this document must contain the following data in segment UNH, composite S009:

Data element 0065 APERAK   0052 D   0054 97A   0051 UN

Dependency Notes:
Semantic Notes:
Comments:

Data Element Summary

	Data Element	Component Element	Name	Attributes	
M	0062		**MESSAGE REFERENCE NUMBER**	M	an..14
			Unique message reference assigned by the sender.		
			Must match the message reference number in the UNT		
M	S009		**MESSAGE IDENTIFIER**	M	
			Identification of the type, version etc. of the message being interchanged.		
M		0065	**Message type identifier**	M	an..6
			Code identifying a type of message and assigned by its controlling agency.		
			APERAK Application error and acknowledgement message		
			A code to identify the application error and acknowledgement message.		
M		0052	**Message type version number**	M	an..3
			Version number of a message type.		
			D Draft version/UN/EDIFACT Directory		
			Message approved and issued as a draft message (Valid for directories published after March 1993 and prior to March 1997). Message approved as a standard message (Valid for directories published after March 1997).		
M		0054	**Message type release number**	M	an..3
			Release number within the current message type version number (0052).		
			97A Release 1997 - A		
			Message approved and issued in the first 1997 release of the UNTDID (United Nations Trade Data Interchange Directory).		
M		0051	**Controlling agency**	M	an..2
			Code identifying the agency controlling the specification, maintenance and publication of the message type.		
			UN UN/ECE/TRADE/WP.4		
			United Nations Economic UN Economic Commission for Europe (UN/ECE), Committee on the development of trade (TRADE), Working Party on facilitation of international trade procedures (WP.4).		
X		0057	**Association assigned code**	C	an..6
			Code, assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message.		
X	0068		**COMMON ACCESS REFERENCE**	C	an..35

Reference serving as a key to relate all subsequent transfers of data to the same business case or file.

X	S010		**STATUS OF THE TRANSFER**	C	

Statement that the message is one in a sequence of transfers relating to the same topic.

X		0070	**Sequence message transfer number**	M	n..2

Number assigned by the sender indicating that the message is an addition or change of a previously sent message relating to the same topic.

X		0073	**First/last sequence message transfer indication**	C	a1

Indication used for the first and last message in a sequence of the same type of message relating to the same topic.
Refer to D.97A Data Element Dictionary for acceptable code values.

		BGM Beginning of Message

Segment:
Position: 0020
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: A segment to indicate the type and function of the message and to transmit the identifying number.

Dependency Notes:
Semantic Notes:
Comments:

Data Element Summary

	Data Element	Component Element	Name		Attributes	
>>	C002		**DOCUMENT/MESSAGE NAME**		C	
			Identification of a type of document/message by code or name. Code preferred.			
		1001	**Document/message name, coded**		C	an..3
			Document/message identifier expressed in code.			
			7	Process data report		
				Reports on events during production process.		
X		1131	**Code list qualifier**		C	an..3
			Identification of a code list.			
			Refer to D.97A Data Element Dictionary for acceptable code values.			
X		3055	**Code list responsible agency, coded**		C	an..3
			Code identifying the agency responsible for a code list.			
			Refer to D.97A Data Element Dictionary for acceptable code values.			
X		1000	**Document/message name**		C	an..35
			Plain language identifier specifying the function of a document/message.			
	C106		**DOCUMENT/MESSAGE IDENTIFICATION**		C	
			Identification of a document/message by its number and eventually its version or revision.			
		1004	**Document/message number**		C	an..35
			Reference number assigned to the document/message by the issuer.			
			Sequence number assigned by AAM			
X		1056	**Version**		C	an..9
			To specify the version number or name of an object.			
X		1060	**Revision number**		C	an..6
			To specify a revision number.			
	1225		**MESSAGE FUNCTION, CODED**		C	an..3
			Code indicating the function of the message.			
			9	Original		
				Initial transmission related to a given transaction.		
	4343		**RESPONSE TYPE, CODED**		C	an..3
			Code specifying the type of acknowledgment required or transmitted.			
			AP	Accepted		
				Indication that the referenced offer or transaction (e.g., cargo booking or quotation request) has been accepted.		
			RE	Rejected		
				Indication that the referenced offer or transaction (e.g., cargo booking or quotation request) is not accepted.		

Segment: **DTM** Date/Time/Period
Position: 0030
Group:
Level: 1
Usage: Conditional (Required)
Max Use: 9
Purpose: A segment to specify related date/time.
Dependency Notes:
Semantic Notes:
Comments:

Data Element Summary

	Data Element	Component Element	Name	Attributes	
M	C507		**DATE/TIME/PERIOD**	M	
			Date and/or time, or period relevant to the specified date/time/period type.		
M		2005	**Date/time/period qualifier**	M	an..3
			Code giving specific meaning to a date, time or period.		
		137	Document/message date/time		
			(2006) Date/time when a document/message is issued. This may include authentication.		
		2380	**Date/time/period**	C	an..35
			The value of a date, a date and time, a time or of a period in a specified representation.		
		2379	**Date/time/period format qualifier**	C	an..3
			Specification of the representation of a date, a date and time or of a period.		
		203	CCYYMMDDHHMM		
			Calendar date including time with minutes: C=Century; Y=Year; M=Month; D=Day; H=Hour; M=Minutes.		

Segment:	**FTX** Free Text				
Position:	0040				
Group:					
Level:	1				
Usage:	Conditional (Required)				
Max Use:	9				
Purpose:	A segment to specify free form or processable supplementary information related to the whole message. In computer-to-computer exchanges free form text will normally require the receiver to process this segment manually.				

Dependency Notes:
Semantic Notes:
Comments:

Data Element Summary

	Data Element	Component Element	Name	Attributes	
M	4451		TEXT SUBJECT QUALIFIER	M	an..3
			Code specifying subject of a free text.		
			AAP Response (free text)		
			Free text of the response to a communication.		
X	4453		TEXT FUNCTION, CODED	C	an..3
			Code specifying how to handle the text.		
			Refer to D.97A Data Element Dictionary for acceptable code values.		
	C107		TEXT REFERENCE	C	
			Coded reference to a standard text and its source.		
M		4441	Free text identification	M	an..17
			Free text in coded form.		
X		1131	Code list qualifier	C	an..3
			Identification of a code list.		
X		3055	Code list responsible agency, coded	C	an..3
			Code identifying the agency responsible for a code list.		
			Refer to D.97A Data Element Dictionary for acceptable code values.		
X	C108		TEXT LITERAL	C	
			Free text; one to five lines.		
X		4440	Free text	M	an..70
			Free text field available to the message sender for information.		
X		4440	Free text	C	an..70
			Free text field available to the message sender for information.		
X		4440	Free text	C	an..70
			Free text field available to the message sender for information.		
X		4440	Free text	C	an..70
			Free text field available to the message sender for information.		
X		4440	Free text	C	an..70
			Free text field available to the message sender for information.		
X	3453		LANGUAGE, CODED	C	an..3
			Code of language (ISO 639-1988).		

Segment:		**CNT** Control Total	
Position:		0050	
Group:			
Level:		1	
Usage:		Conditional (Optional)	
Max Use:		9	
Purpose:		A segment to provide message control totals.	

Dependency Notes:
Semantic Notes:
Comments:
Notes: This segment will only be used in response to the INVOIC message.

Data Element Summary

	Data Element	Component Element	Name	Attributes
M	**C270**		**CONTROL**	**M**
			Control total for checking integrity of a message or part of a message.	
M		6069	**Control qualifier**	**M an..3**
			Determines the source data elements in the message which forms the basis for 6066 Control value.	
			1 Algebraic total of the quantity values in line items in a message	
			12 Invoice total amount	
			[5444] Total sum charged in respect of one or more Invoices in accordance with the terms of delivery.	
M		6066	**Control value**	**M n..18**
			Value obtained from summing the values specified by the Control Qualifier throughout the message (Hash total).	
		6411	**Measure unit qualifier**	**C an..3**
			Indication of the unit of measurement in which weight (mass), capacity, length, area, volume or other quantity is expressed.	

Group: **RFF** Segment Group 1: Reference

Position:	0060
Group:	
Level:	1
Usage:	Conditional (Optional)
Max Use:	9
Purpose:	A group of segments to specify the document/message to which the current message relates, and related date and time.

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	0070	RFF	Reference	M	1	

Segment:		**RFF** Reference		

Position: 0070 (Trigger Segment)
Group: Segment Group 1 (Reference)   Conditional (Optional)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment to indicate the reference number of the document/message.
Dependency Notes:
Semantic Notes:
Comments:

Data Element Summary

	Data Element	Component Element	Name	Attributes
M	C506		**REFERENCE**	**M**
			Identification of a reference.	
M		1153	**Reference qualifier**	**M an..3**

Code giving specific meaning to a reference segment or a reference number.

AAK	Despatch advice number	
	Reference number assigned by issuing party to a despatch advice.	
BM	Bill of lading number	
	Reference number assigned to a bill of lading, see: 1001 = 705.	
FN	Freight bill number	
	Reference number assigned by issuing party to a freight bill.	
IV	Invoice number	
	[1334] Reference number assigned by the seller to a Commercial Invoice.	
JB	Job number	
	Identifies a piece of work.	
ON	Order number (purchase)	
	[1022] Reference number assigned by the buyer to an order.	
PB	Payer's financial institution account number	
	Originated company account number (ACH transfer), check, draft or wire.	
PR	Price quote number	
	Reference number assigned by the seller to a quote.	
RE	Release number	
	Reference number assigned to identify a release of a set of rules, conventions, conditions, etc.	
SI	SID (Shipper's identifying number for shipment)	
	Description to be provided.	
TN	Transaction reference number	
	Reference applied to a transaction between two or more parties over a defined life cycle; e.g. number applied by importer or broker to obtain release from Customs, may then used to control declaration through final accounting (synonyms: declaration, entry number).	
ZZZ	Mutually defined reference number	
	Number based on party agreement.	

	1154	**Reference number**	**C**	**an..35**

Identification number the nature and function of which can be qualified by an entry in data element 1153 Reference qualifier.

X	**1156**	**Line number**	**C**	**an..6**

Number of the line in the document/message referenced in 1154 Reference number.

X	**4000**	**Reference version number**	**C**	**an..35**

To uniquely identify a reference by its revision number.

Group: **NAD** **Segment Group 2: Name and Address**
Position: 0090
Group:
Level: 1
Usage: Conditional (Optional)
Max Use: 9
Purpose: A group of segments to specify the identifications of message sender and message receiver with their contacts and communication channels.

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	0100	NAD	Name and Address	M	1	

Segment:	**NAD** Name and Address		
Position:	0100 (Trigger Segment)		
Group:	Segment Group 2 (Name and Address)	Conditional (Optional)	
Level:	1		
Usage:	Mandatory		
Max Use:	1		
Purpose:	A segment to specify the identification of the message issuer and message receiver.		
Dependency Notes:			
Semantic Notes:			
Comments:			

Data Element Summary

	Data Element	Component Element	Name		Attributes	
M	3035		**PARTY QUALIFIER**		M	an..3
			Code giving specific meaning to a party.			
			FR	Message from		
				Party where the message comes from.		
			MR	Message recipient		
	C082		**PARTY IDENTIFICATION DETAILS**		C	
			Identification of a transaction party by code.			
M		3039	**Party id. identification**		M	an..35
			Code identifying a party involved in a transaction.			
X		1131	**Code list qualifier**		C	an..3
			Identification of a code list.			
			Refer to D.97A Data Element Dictionary for acceptable code values.			
		3055	**Code list responsible agency, coded**		C	an..3
			Code identifying the agency responsible for a code list.			
			16	DUNS (Dun & Bradstreet)		
			92	Assigned by buyer or buyer's agent		
X	C058		**NAME AND ADDRESS**		C	
			Unstructured name and address: one to five lines.			
X		3124	**Name and address line**		M	an..35
			Free form name and address description.			
X		3124	**Name and address line**		C	an..35
			Free form name and address description.			
X		3124	**Name and address line**		C	an..35
			Free form name and address description.			
X		3124	**Name and address line**		C	an..35
			Free form name and address description.			
X		3124	**Name and address line**		C	an..35
			Free form name and address description.			
	C080		**PARTY NAME**		C	
			Identification of a transaction party by name, one to five lines. Party name may be formatted.			
		3036	**Party name**		C	an..35
			Name of a party involved in a transaction.			
X		3036	**Party name**		C	an..35
			Name of a party involved in a transaction.			
X		3036	**Party name**		C	an..35

Name of a party involved in a transaction.

X		3036	**Party name**	C	an..35

Name of a party involved in a transaction.

X		3036	**Party name**	C	an..35

Name of a party involved in a transaction.

X		3045	**Party name format, coded**	C	an..3

Specification of the representation of a party name.

Refer to D.97A Data Element Dictionary for acceptable code values.

X	C059		**STREET**	C	

Street address and/or PO Box number in a structured address: one to three lines.

X		3042	**Street and number/p.o. box**	M	an..35

Street and number in plain language, or Post Office Box No.

X		3042	**Street and number/p.o. box**	C	an..35

Street and number in plain language, or Post Office Box No.

X		3042	**Street and number/p.o. box**	C	an..35

Street and number in plain language, or Post Office Box No.

X		3042	**Street and number/p.o. box**	C	an..35

Street and number in plain language, or Post Office Box No.

X	3164		**CITY NAME**	C	an..35

Name of a city (a town, a village) for addressing purposes.

X	3229		**COUNTRY SUB-ENTITY IDENTIFICATION**	C	an..9

Identification of the name of sub-entities (state, province) defined by appropriate governmental agencies.

X	3251		**POSTCODE IDENTIFICATION**	C	an..9

Code defining postal zones or addresses.

X	3207		**COUNTRY, CODED**	C	an..3

Identification of the name of a country or other geographical entity as specified in ISO 3166.

Group: **ERC** Segment Group 3: Application Error Information

Position: 0130

Group:

Level: 1

Usage: Conditional (Required)

Max Use: 99999

Purpose: A group of segments to identify the application error(s) within a specified received message and to give specific details related to the error type or to precise the type of acknowledgement.

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	0140	ERC	Application Error Information	M	1	
	0160		Segment Group 4: Reference	C		1

Segment:	**ERC** Application Error Information		
Position:	0140 (Trigger Segment)		
Group:	Segment Group 3 (Application Error Information) Conditional (Required)		
Level:	1		
Usage:	Mandatory		
Max Use:	1		
Purpose:	A segment identifying the type of application error or acknowledgement within the referenced message. In case of an error, the error code may specify the error in detail (e.g. a measurement relating to a piece of equipment is wrong) or as a rough indication (e.g. a measurement is wrong).		

Dependency Notes:
Semantic Notes:
Comments:

Data Element Summary

	Data Element	Component Element	Name	Attributes
M	**C901**		**APPLICATION ERROR DETAIL**	**M**
			Code assigned by the recipient of a message to indicate a data validation error condition.	
M		9321	**Application error identification**	**M an..8**
			The code assigned by the receiver of a message to the identification of a data validation error condition.	
			AAM will use the values from X12 Data Element Dictionary, element number 647.	
		004	Invalid commodity Code	
		005	Route Error	
		006	Duplicate	
		007	Missing Data	
		008	Out of Range	
		009	Invalid Date	
		010	Total out of Balance	
		011	Not Matching	
		012	Invalid Combination	
		024	Other unlisted Reason	
		813	Invalid or Missing Payee Name and Address	
X		1131	**Code list qualifier**	**C an..3**
			Identification of a code list.	
			Refer to D.97A Data Element Dictionary for acceptable code values.	
		3055	**Code list responsible agency, coded**	**C an..3**
			Code identifying the agency responsible for a code list.	
		116	US, ANSI ASC X12	
			American National Standards Institute ASC X12.	

Group: **RFF** Segment Group 4: Reference

Position: 0160
Group: Segment Group 3 (Application Error Information)   Conditional (Required)
Level: 2
Usage: Conditional (Optional)
Max Use: 1
Purpose: A group of segments to specify the functional entity reference (e.g. goods item level, equipment level) relating to the specified error; further details can be added to identify the error more precisely.

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	0170	RFF	Reference	M	1	
	0180	FTX	Free Text	C	9	

Segment:	**RFF** Reference		
Position:	0170 (Trigger Segment)		
Group:	Segment Group 4 (Reference)	Conditional (Optional)	
Level:	2		
Usage:	Mandatory		
Max Use:	1		
Purpose:	A segment to provide a reference relating to the acknowledgement type or the specified error (e.g. functional entity reference such as equipment level).		
Dependency Notes:			
Semantic Notes:			
Comments:			

Data Element Summary

	Data Element	Component Element	Name	Attributes
M	C506		**REFERENCE**	M
			Identification of a reference.	
M		1153	**Reference qualifier**	M an..3

Code giving specific meaning to a reference segment or a reference number.

AAO	Consignee's shipment reference number	
	[1362] Reference assigned by the consignee to a shipment.	
AAT	Master label number	
	Identifies the master label number of any package type.	
ABU	Article number	
ADA	Buyer's item number	
	Reference number assigned by the buyer to an item.	
AES	Primary reference	
	Description to be provided.	
BM	Bill of lading number	
	Reference number assigned to a bill of lading, see: 1001 = 705.	
BT	Batch number/lot number	
	Reference number assigned by manufacturer to a series of similar products or goods produced under similar conditions.	
CM	Credit memo number	
	Reference number assigned by issuer to a credit memo.	
CN	Carrier's reference number	
	Reference number assigned by carrier to a consignment.	
CO	Buyers order number	
	[1022] Reference number assigned by the buyer to an order.	
CR	Customer reference number	
	Reference number assigned by the customer to a transaction.	
CW	Package number	
	(7070) Reference number identifying a package or carton within a consignment.	
DL	Debit note number	
	Reference number assigned by issuer to a debit note.	
EQ	Equipment number	

		Number assigned by the manufacturer to specific equipment.
	FN	Freight bill number
		Reference number assigned by issuing party to a freight bill.
	IV	Invoice number
		[1334] Reference number assigned by the seller to a Commercial Invoice.
	LA	Shipping label serial number
	LS	Bar coded label serial number
	MB	Master bill of lading number
		Reference number assigned to a master bill of lading, see: 1001 = 704.
	ON	Order number (purchase)
		[1022] Reference number assigned by the buyer to an order.
	POR	Purchase order response number
		Reference number assigned by the seller to an order response.
	PP	Purchase order change number
		Reference number assigned by a buyer for a revision of a purchase order.
	RE	Release number
		Reference number assigned to identify a release of a set of rules, conventions, conditions, etc.
	SE	Serial number
		Identification number of an item which distinguishes this specific item out of an number of identical items.
	SF	Ship from
		Description to be provided.
	SI	SID (Shipper's identifying number for shipment)
		Description to be provided.
	UO	Ultimate customer's order number
		The originator's order number as forwarded in a sequence of parties involved.
	ZZZ	Mutually defined reference number
		Number based on party agreement.

	1154	**Reference number**	C	**an..35**

Identification number the nature and function of which can be qualified by an entry in data element 1153 Reference qualifier.

X	1156	**Line number**	C	**an..6**

Number of the line in the document/message referenced in 1154 Reference number.

X	4000	**Reference version number**	C	**an..35**

To uniquely identify a reference by its revision number.

<table>
<tr><td>**Segment:**</td><td>**FTX** Free Text</td></tr>
</table>

Position:	0180
Group:	Segment Group 4 (Reference) Conditional (Optional)
Level:	3
Usage:	Conditional (Optional)
Max Use:	9
Purpose:	A segment to provide additional details relating to the reference, e.g. the content of the wrong data (and its exact place in the message).
Dependency Notes:	
Semantic Notes:	
Comments:	

Data Element Summary

	Data Element	Component Element	Name	Attributes	
M	4451		**TEXT SUBJECT QUALIFIER**	M	an..3
			Code specifying subject of a free text.		
		AAO	Error description (free text)		
			Error described by a free text.		
		ABO	Discrepancy information		
			Free text or coded information to indicate a specific discrepancy.		
X	4453		**TEXT FUNCTION, CODED**	C	an..3
			Code specifying how to handle the text.		
			Refer to D.97A Data Element Dictionary for acceptable code values.		
X	C107		**TEXT REFERENCE**	C	
			Coded reference to a standard text and its source.		
X		4441	**Free text identification**	M	an..17
			Free text in coded form.		
X		1131	**Code list qualifier**	C	an..3
			Identification of a code list.		
			Refer to D.97A Data Element Dictionary for acceptable code values.		
X		3055	**Code list responsible agency, coded**	C	an..3
			Code identifying the agency responsible for a code list.		
			Refer to D.97A Data Element Dictionary for acceptable code values.		
	C108		**TEXT LITERAL**	C	
			Free text; one to five lines.		
M		4440	**Free text**	M	an..70
			Free text field available to the message sender for information. Actual error message text.		
			Actual Error message in free text format		
		4440	**Free text**	C	an..70
			Free text field available to the message sender for information.		
			Additional message text if required.		
X		4440	**Free text**	C	an..70
			Free text field available to the message sender for information.		
X		4440	**Free text**	C	an..70
			Free text field available to the message sender for information.		
X		4440	**Free text**	C	an..70
			Free text field available to the message sender for information.		
X	3453		**LANGUAGE, CODED**	C	an..3

Code of language (ISO 639-1988).

Segment: $\textbf{UNT}$ **Message Trailer**

Position:	0190
Group:	
Level:	0
Usage:	Mandatory
Max Use:	1
Purpose:	A service segment ending a message, giving the total number of segments in the message and the control reference number of the message.
Dependency Notes:	
Semantic Notes:	
Comments:	
Notes:	Must match the message reference number in the UNH

Data Element Summary

	Data Element	Component Element	Name	Attributes	
M	0074		**NUMBER OF SEGMENTS IN A MESSAGE**	M	n..6
			Control count of number of segments in a message.		
M	0062		**MESSAGE REFERENCE NUMBER**	M	an..14
			Unique message reference assigned by the sender.		