

**New York State
Department of Motor Vehicles**

**ANSI X12 V3050
997 Functional Acknowledgment
INFORMATIVE GUIDE**

February 9, 2000

**Insurance Information & Enforcement System (IIES)
New Directions in Enforcing Compulsory Insurance Laws**

Purpose

NOTE: THIS DOCUMENT IS FOR INFORMATION PURPOSES ONLY. INSURERS SHOULD NOT HAVE TO MAP A 997 FUNCTIONAL ACKNOWLEDGMENT TRANSACTION, SINCE COMMERCIAL TRANSLATORS TYPICALLY GENERATE 997's AUTOMATICALLY.

This document provides a sample ANSI X12 V3050 997 Functional Acknowledgment transaction in response to requests from many insurance companies planning for the IIES Program. The standard used for the NYS DMV IIES Program is Version 3 Release 5 (V3050).

NYS DMV has NOT altered the ANSI X12 V3050 997 transaction for the IIES Program. IIES will utilize the segments, data elements and error codes as available from the standard without change.

997 transactions are typically generated automatically by your commercial EDI translator and should not require manual mapping by your organization. Please contact your particular vendor with questions regarding the generation of 997 transactions from your product.

997 Functional Acknowledgment

Functional Group=FA

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

Segments:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
	ISA	Interchange Control Header	M	1		
	GS	Functional Group Header	M	1		

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	ST	Transaction Set Header	M	1		N1/010
020	AK1	Functional Group Response Header	M	1		N1/020

<u>LOOP ID - AK2</u>			<u>999999</u>			
030	AK2	Transaction Set Response Header	O	1		N1/030
<u>LOOP ID - AK3</u>			<u>999999</u>			
040	AK3	Data Segment Note	O	1		
050	AK4	Data Element Note	O	99		
060	AK5	Transaction Set Response Trailer	M	1		
070	AK9	Functional Group Response Trailer	M	1		
080	SE	Transaction Set Trailer	M	1		

Segments:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
	GE	Functional Group Trailer	M	1		
	IEA	Interchange Control Trailer	M	1		

Notes:

- 1/010 These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments. The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code.
- There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.

- 1/020 AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
- 1/030 AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

ISA Interchange Control Header

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 16

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
ISA01	I01	Authorization Information Qualifier	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		00 No Authorization Information Present (No Meaningful Information in I02)			
		01 UCS Communications ID			
		02 EDX Communications ID			
		03 Additional Data Identification			
		04 Rail Communications ID			
		05 Department of Defense (DoD) Communication Identifier			
ISA02	I02	Authorization Information	M	AN	10/10
ISA03	I03	Security Information Qualifier	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		00 No Security Information Present (No Meaningful Information in I04)			
		01 Password			
ISA04	I04	Security Information	M	AN	10/10
ISA05	I05	Interchange ID Qualifier	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		01 Duns (Dun & Bradstreet)			
		02 SCAC (Standard Carrier Alpha Code)			
		03 FMC (Federal Maritime Commission)			
		04 IATA (International Air Transport Association)			
		08 UCC EDI Communications ID (Comm ID)			
		09 X.121 (CCITT)			
		10 Department of Defense (DoD) Activity Address Code			
		11 DEA (Drug Enforcement Administration)			
		12 Phone (Telephone Companies)			
		13 UCS Code (The UCS Code is a Code Used for UCS Transmissions; it includes the Area Code and Telephone Number of a Modem; it Does Not Include Punctuation, Blanks or Access Code)			
		14 Duns Plus Suffix			
		15 Petroleum Accountants Society of Canada Company Code			
		16 Duns Number With 4-Character Suffix			
		17 American Bankers Association (ABA) Transit Routing Number (Including Check Digit, 9 Digit)			
		18 Association of American Railroads (AAR) Standard Distribution Code			
		19 EDI Council of Australia (EDICA) Communications ID Number (COMM ID)			
		20 Health Industry Identification Number			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
		21 Integrated Postsecondary Education Data System, or (IPEDS)			
		22 Federal Interagency Commission on Education, or FICE			
		23 National Center for Education Statistics Common Core of Data 12-Digit Number for Pre-K-Grade 12 Institutes, or NCES			
		24 The College Board's Admission Testing Program 4-Digit Code of Postsecondary Institutes, or ATP			
		25 American College Testing Program 4-Digit Code of Postsecondary Institutions, or ACT			
		26 Statistics of Canada List of Postsecondary Institutions			
		27 Carrier Identification Number as assigned by Health Care Financing Administration (HCFA)			
		28 Fiscal Intermediary Identification Number as assigned by Health Care Financing Administration (HCFA)			
		29 Medicare Provider and Supplier Identification Number as assigned by Health Care Financing Administration (HCFA)			
		30 U.S. Federal Tax Identification Number			
		31 Jurisdiction Identification Number Plus 4 as assigned by the International Association of Industrial Accident Boards and Commissions (IAIABC)			
		32 U.S. Federal Employer Identification Number (FEIN)			
		33 National Association of Insurance Commissioners Company Code (NAIC)			
		34 Medicaid Provider and Supplier Identification Number as assigned by individual State Medicaid Agencies in conjunction with Health Care Financing Administration (HCFA)			
		NR National Retail Merchants Association (NRMA) - Assigned			
		ZZ Mutually Defined			
ISA06	I06	Interchange Sender ID	M	AN	15/15
ISA07	I05	Interchange ID Qualifier	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		01 Duns (Dun & Bradstreet)			
		02 SCAC (Standard Carrier Alpha Code)			
		03 FMC (Federal Maritime Commission)			
		04 IATA (International Air Transport Association)			
		08 UCC EDI Communications ID (Comm ID)			
		09 X.121 (CCITT)			
		10 Department of Defense (DoD) Activity Address Code			
		11 DEA (Drug Enforcement Administration)			
		12 Phone (Telephone Companies)			
		13 UCS Code (The UCS Code is a Code Used for UCS Transmissions; it includes the Area Code and Telephone Number of a Modem; it Does Not Include Punctuation, Blanks or Access Code)			
		14 Duns Plus Suffix			
		15 Petroleum Accountants Society of Canada Company Code			
		16 Duns Number With 4-Character Suffix			
		17 American Bankers Association (ABA) Transit Routing Number (Including Check Digit, 9 Digit)			
		18 Association of American Railroads (AAR) Standard Distribution Code			
		19 EDI Council of Australia (EDICA) Communications ID Number (COMM ID)			
		20 Health Industry Identification Number			
		21 Integrated Postsecondary Education Data System, or (IPEDS)			
		22 Federal Interagency Commission on Education, or FICE			
		23 National Center for Education Statistics Common Core of Data			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
		12-Digit Number for Pre-K-Grade 12 Institutes, or NCES			
	24	The College Board's Admission Testing Program 4-Digit Code of Postsecondary Institutes, or ATP			
	25	American College Testing Program 4-Digit Code of Postsecondary Institutions, or ACT			
	26	Statistics of Canada List of Postsecondary Institutions			
	27	Carrier Identification Number as assigned by Health Care Financing Administration (HCFA)			
	28	Fiscal Intermediary Identification Number as assigned by Health Care Financing Administration (HCFA)			
	29	Medicare Provider and Supplier Identification Number as assigned by Health Care Financing Administration (HCFA)			
	30	U.S. Federal Tax Identification Number			
	31	Jurisdiction Identification Number Plus 4 as assigned by the International Association of Industrial Accident Boards and Commissions (IAIABC)			
	32	U.S. Federal Employer Identification Number (FEIN)			
	33	National Association of Insurance Commissioners Company Code (NAIC)			
	34	Medicaid Provider and Supplier Identification Number as assigned by individual State Medicaid Agencies in conjunction with Health Care Financing Administration (HCFA)			
	NR	National Retail Merchants Association (NRMA) - Assigned			
	ZZ	Mutually Defined			
ISA08	I07	Interchange Receiver ID	M	AN	15/15
ISA09	I08	Interchange Date	M	DT	6/6
ISA10	I09	Interchange Time	M	TM	4/4
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1
		<u>Code</u> <u>Name</u>			
		U U.S. EDI Community of ASC X12, TDCC, and UCS			
ISA12	I11	Interchange Control Version Number	M	ID	5/5
		<u>Code</u> <u>Name</u>			
		00200 Standard Issued as ANSI X12.5-1987			
		00201 Draft Standard for Trial Use Approved by ASC X12 Through August 1988			
		00204 Draft Standard for Trial Use Approved by ASC X12 Through May 1989			
		00300 Standard Issued as ANSI X12.5-1992			
		00301 Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1990			
		00302 Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1991			
		00303 Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1992			
		00304 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1993			
ISA13	I12	Interchange Control Number	M	N0	9/9
ISA14	I13	Acknowledgment Requested	M	ID	1/1
		<u>Code</u> <u>Name</u>			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
		0 No Acknowledgment Requested			
		1 Interchange Acknowledgment Requested			
ISA15	I14	Test Indicator	M	ID	1/1
		<u>Code</u> <u>Name</u>			
		P Production Data			
		T Test Data			
ISA16	I15	Component Element Separator	M	AN	1/1

GS

Functional Group Header

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 8

To indicate the beginning of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
GS01	479	Functional Identifier Code	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		AA Customer Account Analysis (822)			
		AG Application Advice (824)			
		AI Automotive Inspection Detail (928)			
		AK Student Educational Record (Transcript) Acknowledgment (131)			
		AL Set Cancellation (998) and Application Acceptance/Rejection Advice (499)			
		AN Return Merchandise Authorization and Notification (180)			
		AR Warehouse Stock Transfer Shipment Advice (943)			
		AW Warehouse Inventory Adjustment Advice (947)			
		BE Benefit Enrollment and Maintenance (834)			
		BS Shipment and Billing Notice (857)			
		CA Purchase Order Change Acknowledgment/Request - Seller Initiated (865)			
		CC Clauses and Provisions (504)			
		CD Credit/Debit Adjustment (812)			
		CF Corporate Financial Adjustment Information (844 and 849)			
		CG Administrative Message (994)			
		CH Car Handling Information (420)			
		CI Consolidated Service Invoice/Statement (811)			
		CO Cooperative Advertising Agreement (290)			
		CP Electronic Proposal Information (251, 805)			
		CR Rail Carhire Settlements (414)			
		CS Cryptographic Service Message (815)			
		CT Application Control Totals (831)			
		D3 Contract Completion Status (567)			
		D4 Contract Abstract (561)			
		D5 Contract Payment Management Report (568)			
		DA Debit Authorization (828)			
		DD Shipment Delivery Discrepancy Information (854)			
		DF Market Development Fund Allocation (883)			
		DI Dealer Information (128)			
		DM Shipper's Car Order (422)			
		DS Data Status Tracking (242)			
		DX Direct Exchange Delivery and Return Information (894, 895)			
		ED Student Educational Record (Transcript) (130)			
		EI Railroad Equipment Inquiry or Advice (456)			
		ER Revenue Receipts Statement (170)			
		EV Railroad Event Report (451)			
		FA Functional Acknowledgment (997)			
		FB Freight Invoice (859)			
		FC Court Notice (175)			
		FG Motor Carrier Loading and Route Guide (217)			
		FH Motor Carrier Tariff Information (218)			
		FR Financial Reporting (821, 827)			
		FT File Transfer (996)			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
	GB	Average Agreement Demurrage (423)			
	GC	Damage Claim Transaction Sets (920, 924, 925, 926)			
	GF	Response to a Load Tender (990)			
	GP	Grocery Products Invoice (880)			
	GR	Statistical Government Information (152)			
	HB	Health Care Eligibility/Benefit Information (271)			
	HC	Health Care Claim (837)			
	HI	Health Care Services Review Information (278)			
	HN	Health Care Claim Status Notification (277)			
	HP	Health Care Claim Payment/Advice (835)			
	HR	Health Care Claim Status Request (276)			
	HS	Health Care Eligibility/Benefit Inquiry (270)			
	IA	Air Freight Details and Invoice (110)			
	IB	Inventory Inquiry/Advice (846)			
	IC	Rail Advance Interchange Consist (418)			
	IG	Invoice Group - Grocery (880, 882)			
	II	Rail Freight Details and Invoice Summary (411)			
	IJ	Report of Injury or Illness (148)			
	IM	Motor Carrier Freight Details and Invoice (210)			
	IN	Invoice Information (810,819)			
	IO	Ocean Shipment Billing Details (310, 312)			
	IP	Intermodal Ramp Activity (622)			
	IR	Rail Carrier Freight Details and Invoice (410)			
	IS	Estimated Time of Arrival and Car Scheduling (421)			
	LA	Federal Communications Commission (FCC) License Application (195)			
	LA	Federal Communications Commission (FCC) License Application (195)			
	LB	Lockbox (823)			
	LN	Property and Casualty Loss Notification (272)			
	LR	Logistics Reassignment (536)			
	LS	Asset Schedule (851)			
	LT	Student Loan Transfer and Status Verification (144)			
	MB	Mortgage Credit Report (200)			
	MD	Department of Defense Inventory Management (527)			
	ME	Mortgage Origination (262)			
	MF	Market Development Funds Settlement (884)			
	MG	Mortgage Servicing Transaction Sets (260,264,266)			
	MH	Secondary Mortgage Market Investor Report (203)			
	MI	Motor Carrier Shipment Status Inquiry (213)			
	ML	Mortgage Credit Report Order (201,833)			
	MR	Multilevel Railcar Load Details (125)			
	MS	Material Safety Data Sheet (848)			
	MT	Electronic Form Structure (868)			
	MV	Material Obligation Validation (517)			
	MW	Rail Waybill Response (427)			
	MX	Material Claim (847)			
	NC	Nonconformance Report (842)			
	OC	Cargo Insurance Advice of Shipment (362)			
	OG	Order Group - Grocery (875, 876)			
	OR	Organizational Relationship (816)			
	OW	Warehouse Shipping Order (940)			
	PA	Price Authorization Acknowledgment/Status (845)			
	PB	Railroad Parameter Trace Registration (455)			
	PC	Purchase Order Change Request - Buyer Initiated (860)			
	PD	Product Activity Data (852)			
	PH	Pricing History (503)			
	PJ	Project Schedule Reporting (806)			
	PK	Project Cost Reporting (839) and Contractor Cost Data Reporting			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
		(196)			
	PL	Railroad Problem Log Inquiry or Advice (452)			
	PM	Residential Mortgage Insurance Application (872)			
	PO	Purchase Order (850)			
	PR	Purchase Order Acknowledgement (855)			
	PS	Planning Schedule with Release Capability (830)			
	PT	Product Transfer and Resale Report (867)			
	PV	Purchase Order Shipment Management Document (250)			
	PY	Payment Cancellation Request (829)			
	PZ	Residential Mortgage Insurance Application Response (263)			
	QG	Product Information (878, 879, 888, 889, 893, 896)			
	QM	Transportation Carrier Shipment Status Message (214)			
	QO	Ocean Shipment Status Information (313, 315)			
	RA	Payment Order/Remittance Advice (820)			
	RC	Receiving Advice/Acceptance Certificate (861)			
	RD	Royalty Regulatory Reports (185)			
	RE	Warehouse Stock Receipt Advice (944)			
	RF	Rail Route File Maintenance (475)			
	RG	Railroad Reciprocal Switch File (433)			
	RI	Routing and Carrier Instruction (853)			
	RL	Rail Industrial Switch List (423)			
	RM	Railroad Station Master File (431)			
	RN	Requisition Transaction (511)			
	RO	Ocean Booking Information (300, 301, 303)			
	RP	Commission Sales Report (818)			
	RQ	Request for Quotation (840) and Procurement Notices (836)			
	RR	Response to Request For Quotation (843)			
	RS	Order Status Information (869, 870)			
	RT	Report of Test Results (863)			
	RU	Railroad Retirement Activity (429)			
	RX	Rail Deprescription (432)			
	RY	Request for Student Educational Record (Transcript) (146)			
	RZ	Response to Request for Student Educational Record (Transcript) (147)			
	SA	Air Shipment Information (104)			
	SB	Switch Rails (424)			
	SC	Price/Sales Catalog (832)			
	SD	Student Loan Preclaims (191)			
	SE	Shipper's Export Declaration (601)			
	SF	Standard Transportation Commodity Code Master (435)			
	SG	SG Receiving Advice - Grocery (885)			
	SH	Ship Notice/Manifest (856)			
	SI	Shipment Information (858)			
	SL	Student Loan Application and Guarantee (135, 139)			
	SM	Motor Carrier Shipment Information (204)			
	SO	Ocean Shipment Information (304, 306, 309, 311, 317, 319, 321, 322, 323, 324, 325, 350, 352, 353, 354, 355, 356, 357, 358, 361)			
	SP	Specifications/Technical Information (841)			
	SQ	Production Sequence (866)			
	SR	Rail Carrier Shipment Information (404, 419, 426)			
	SS	Shipping Schedule (862)			
	ST	Railroad Service Commitment Advice (453)			
	SV	Student Enrollment Verification (190)			
	SW	Warehouse Shipping Advice (945)			
	TA	Electronic Filing of Tax Return Data Acknowledgment (151)			
	TC	Court Submission (176)			
	TD	Trading Partner Profile (838)			
	TF	Electronic Filing of Tax Return Data (813)			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
		TI Tax Information Reporting (826)			
		TN Tax Rate Notification (150)			
		TO Real Estate Title Insurance Services Order (265)			
		TP Rail Rate Transactions (460, 461, 462, 463, 464, 465, 466, 467, 468, 480, 485, 486, 490, 491, 492, 494)			
		TR Train Sheet (161)			
		TS Transportation Services Tender (602)			
		TX Text Message (864)			
		UA Store Characteristics (885)			
		UB Customer Call Reporting (886)			
		UC Uniform Commercial Code Filing (154)			
		UD Deduction Research Report (891)			
		UW Laboratory Reporting (186)			
		VA Vehicle Application Advice (126)			
		VB Vehicle Baying Order (127)			
		VC Vehicle Shipping Order (120)			
		VH Vehicle Carrier Rate Update (129)			
		VS Vehicle Service (121)			
		WA Product Service Transaction Sets (140, 141, 142, 143)			
		WB Rail Carrier Waybill Interchange (417)			
		WG Vendor Performance Review (501)			
		WR Shipment Weights (440)			
		WT Rail Waybill Request (425)			
GS02	142	Application Sender's Code	M	AN	2/15
GS03	124	Application Receiver's Code	M	AN	2/15
GS04	373	Date	M	DT	6/6
GS05	337	Time	M	TM	4/8
GS06	28	Group Control Number	M	N0	1/9
GS07	455	Responsible Agency Code	M	ID	1/2
		<u>Code</u> <u>Name</u>			
		T Transportation Data Coordinating Committee (TDCC)			
		X Accredited Standards Committee X12			
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12
		<u>Code</u> <u>Name</u>			
		001000 ASC X12 Standards Approved by ANSI in 1983			
		002000 ASC X12 Standards Approved by ANSI in Feb, 1986			
		002001 Draft Standards Approved by ASC X12 in November 1987			
		002002 Draft Standards Approved by ASC X12 through February 1988			
		002003 Draft Standards Approved by ASC X12 through August 1988			
		002031 Draft Standards Approved by ASC X12 Through February 1989			
		002040 Draft Standards Approved by ASC X12 Through May 1989			
		002041 Draft Standards Approved by ASC X12 Through October 1989			
		002042 Draft Standards Approved By ASC X12 Through February 1990.			
		003000 ASC X12 Standards Approved by ANSI in 1992			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
	003010	Draft Standards Approved By ASC X12 Through June 1990.			
	003011	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through February 1991			
	003012	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through June 1991			
	003020	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1991			
	003021	Draft Standards Approved for Publication By ASC X12 Procedures Review Board through February 1992			
	003022	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through June 1992			
	003030	Draft Standards Approved for Publication by ASC X12 Procedures Review Board Through October 1992			
	003031	Draft Standards for Publication by ASC X12 Procedures Review Board Through February 1993			
	003032	Draft Standards Approved for Publication by ASC X12 Procedures Review Board Through June 1993			
	003040	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1993			
	003041	Draft Standards Approved for Publication by ASC by ASC X12 Procedures Review Board through February 1994			
	003042	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through June 1994			
	003050	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1994			
	003051	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through February 1995			
	003052	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through June 1995			

Semantics:

1. GS04 is the Group Date.
2. GS05 is the Group Time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated Functional Group Trailer GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

To indicate the start of a transaction set and to assign a control number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
ST01	143	Transaction Set Identifier Code	M	ID	3/3
		<u>Code</u> <u>Name</u>			
		104 X12.100 Air Shipment Information			
		110 X12.101 Air Freight Details and Invoice			
		120 X12.70 Vehicle Shipping Order			
		121 X12.71 Vehicle Service			
		125 X12.75 Multilevel Railcar Load Details			
		126 X12.76 Vehicle Application Advice			
		127 X12.77 Vehicle Baying Order			
		128 X12.78 Dealer Information			
		129 X12.79 Vehicle Carrier Rate Update			
		130 X12.89 Student Educational Record (Transcript)			
		131 X12.90 Student Educational Record (Transcript)			
		Acknowledgment			
		135 X12.198 Student Loan Application			
		139 X12.265 Student Loan Guarantee Result			
		140 X12.200 Product Registration			
		141 X12.201 Product Service Claim Response			
		142 X12.202 Product Service Claim			
		143 X12.203 Product Service Notification			
		144 X12.94 Student Loan Transfer and Status Verification (144)			
		146 X12.121 Request for Student Educational Record (Transcript)			
		147 X12.123 Response to Request for Student Educational Record			
		(Transcript)			
		148 X12.124 Report of Injury or Illness			
		150 X12.204 Tax Rate Notification			
		151 X12.205 Electronic Filing of Tax Return Data Acknowledgment			
		152 X12.206 Statistical Government Information			
		154 X12.99 Uniform Commercial Code Filing			
		161 X12.72 Train Sheet			
		170 X12.210 Revenue Receipts Statement			
		175 X12.305 Court Notice			
		176 X12.306 Court Submission			
		180 X12.255 Return Merchandise Authorization and Notification			
		185 X12.266 Royalty Regulatory Reports			
		186 X12.284 Laboratory Reporting			
		190 X12.264 Student Enrollment Verification			
		191 X12.276 Student Loan Preclaims			
		195 X12.267 Federal Communications Commission (FCC) License			
		Application			
		196 X12.280 Contractor Cost Data Reporting			
		200 X12.304 Mortgage Credit Report			
		201 X12.326 Residential Loan Application			
		203 X12.340 Secondary Mortgage Market Investor Report			
		204 X12.103 Motor Carrier Shipment Information			
		210 X12.104 Motor Carrier Freight Details and Invoice			
		213 X12.105 Motor Carrier Shipment Status Inquiry			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
214		X12.106 Transportation Carrier Shipment Status Message			
217		X12.107 Motor Carrier Loading and Route Guide			
218		X12.108 Motor Carrier Tariff Information			
242		X12.274 Data Status Tracking			
250		X12.98 Purchase Order Shipment Management Document			
251		X12.288 Pricing Support			
260		X12.275 Application for Mortgage Insurance Benefits			
262		X12.278 Residential Appraisal Report (262)			
263		X12.279 Residential Mortgage Insurance Application Response			
264		X12.285 Mortgage Loan Default Status			
265		X12.286 Real Estate Title Insurance Services Order			
266		X12.295 Mortgage Record Change			
270		X12.281 Health Care Eligibility/Benefit Inquiry			
271		X12.282 Health Care Eligibility/Benefit Information			
272		X12.283 Property and Casualty Loss Notification			
276		X12.316 Health Care Claim Status Request			
277		X12.317 Health Care Claim Status Notification			
278		X12.336 Health Care Services Review Information			
290		X12.293 Cooperative Advertising Agreement			
300		X12.109 Reservation (Booking Request) (Ocean)			
301		X12.109 Confirmation (Ocean)			
303		X12.110 Booking Cancellation (Ocean)			
304		X12.113 Shipping Instructions			
306		Dock Receipt			
309		X12.117 U.S. Customs Manifest			
310		X12.118 Freight Receipt and Invoice (Ocean)			
311		X12.182-Canadian Customs Information (Ocean)			
312		X12.119 Arrival Notice (Ocean)			
313		X12.120 Shipment Status Inquiry (Ocean)			
315		X12.122 Status Details (Ocean)			
317		X12.271 Delivery/Pickup Order			
319		X12.292 Terminal Information			
321		Demurrage Guarantee (Ocean)			
322		X12.127 Terminal Operations and Intermodal Ramp Activity			
323		X12.128 Vessel Schedule and Itinerary (Ocean)			
324		X12.129 Vessel Stow Plan (Ocean)			
325		X12.208 Consolidation of Goods in Container			
326		X12.97 Consignment Summary List			
350		X12.130 U.S. Customs Release Information			
352		X12.131 U.S. Customs Carrier General Order Status			
353		X12.132 U.S. Customs Events Advisory Details			
354		X12.133 U.S. Customs Automated Manifest Archive Status			
355		X12.134 U.S. Customs Manifest Acceptance/Rejection			
356		X12.211 U.S. Customs Permit to Transfer Request			
357		X12.307 U.S. Customs In-Bond Information			
358		X12.308 U.S. Customs Consist Information			
361		X12.136 Carrier Interchange Agreement (Ocean)			
362		X12.312 Cargo Insurance Advice of Shipment			
404		X12.138 Rail Carrier Shipment Information			
410		X12.139 Rail Carrier Freight Details and Invoice			
411		Freight Details and Invoice Summary (Rail)			
414		X12.83 Car Hire Settlements			
417		X12.141 Rail Carrier Waybill Interchange			
418		X12.142 Rail Advance Interchange Consist			
419		X12.143 Advance Car Disposition			
420		X12.144 Car Handling Information			
421		X12.261 Estimated Time of Arrival and Car Scheduling			
422		X12.262 Shipper's Car Order			
423		X12.327 Rail Industrial Switch List			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
424		Switch Bills			
425		X12.149 Rail Waybill Request			
426		X12.150 Rail Revenue Waybill			
427		Waybill Response			
429		X12.35 Railroad Retirement Activity			
431		X12.65 Railroad Station Master File Transaction Set			
432		X12.328 Rail Deprescription			
433		X12.329 Railroad Reciprocal Switch File			
435		X12.330 Standard Transportation Commodity Code Master			
440		X12.152 Shipment Weights			
451		X12.337 Railroad Event Report			
452		X12.338 Railroad Problem Log Inquiry or Advice			
453		X12.331 Railroad Service Commitment Advice			
455		X12.332 Railroad Parameter Trace Registration			
456		X12.333 Railroad Equipment Inquiry or Advice			
460		Rate Format Docket Data			
461		Rate Format Level Data			
462		Rate Format Sub-Level Data			
463		Rate Set Docket Index			
464		Rate Set Docket Data			
465		Rate Set Sub-Level Data			
466		X12.159 Rate Request			
467		Scale Rate Docket Transmittal			
468		X12.161 Rate Docket Journal Log			
469		Rate Distribution Set			
475		X12.334 Rail Route File Maintenance			
480		Docket/Cluster Terminator			
485		X12.164 Ratemaking Action			
486		X12.165 Rate Docket Expiration			
490		X12.166 Rate Group Definition			
491		Rate Increase/Decrease Transmittal			
492		X12.168 Miscellaneous Rates			
494		X12.169 Scale Rate Table			
499		Application Acceptance Rejection Advice			
501		X12.341 Vendor Performance Review			
503		X12.352 Pricing History			
504		X12.353 Clauses and Provisions			
511		X12.225 Requisition			
517		X12.230 Material Obligation Validation			
527		X12.231 Material Due-In and Receipt			
536		X12.243 Logistics Reassignment			
561		X12.212 Contract Abstract			
567		X12.218 Contract Completion Status			
568		X12.219 Contract Payment Management Report			
601		X12.273 Shipper's Export Declaration			
602		X12.126 Transportation Services Tender			
622		X12.173 Intermodal Ramp Activity			
805		X12.195 Contract Pricing Proposal			
806		X12.196 Project Schedule Reporting			
810		X12.2 Invoice			
811		X12.39 Consolidated Service Invoice/Statement			
812		X12.40 Credit/Debit Adjustment			
813		X12.62 Electronic Filing of Tax Return Data			
815		X12.42 Cryptographic Service Message			
816		X12.66 Organization Relationship			
818		X12.256 Commission Sales Report			
819		X12.43 Operating Expense Statement			
820		X12.4 Payment Order/Remittance Advice			
821		X12.24 Financial Information Reporting			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
822		X12.25 Customer Account Analysis			
823		X12.38 Lockbox			
824		X12.44 Application Advice			
826		X12.19 Tax Information Reporting			
827		X12.47 Financial Return Notice			
828		X12.45 Debit Authorization			
829		X12.48 Payment Cancellation Request			
830		X12.14 Planning Schedule with Release Capability			
831		X12.49 Application Control Totals			
832		X12.13 Price/Sales Catalog			
833		X12.69 Mortgage Credit Report Order			
834		X12.84 Benefit Enrollment and Maintenance			
835		X12.85 Health Care Claim Payment/Advice			
836		X12.54 Procurement Notices			
837		X12.86 Health Care Claim			
838		X12.17 Trading Partner Profile			
839		X12.31 Project Cost Reporting			
840		X12.7 Request for Quotation			
841		X12.51 Specifications/Technical Information			
842		X12.21 Nonconformance Report Transaction Set			
843		X12.8 Response to Request for Quotation			
844		X12.26 Product Transfer Account Adjustment			
845		X12.27 Price Authorization Acknowledgment/Status			
846		X12.28 Inventory Inquiry/Advice			
847		X12.63 Material Claim			
848		X12.36 Material Safety Data Sheet			
849		X12.50 Response to Product Transfer Account Adjustment			
850		X12.1 Purchase Order			
851		X12.51 Asset Schedule			
852		X12.52 Product Activity Data			
853		X12.64 Routing and Carrier Instruction			
854		X12.68 Shipment Delivery Discrepancy Information			
855		X12.9 Purchase Order Acknowledgment			
856		X12.10 Ship Notice/Manifest			
857		X12.29 Shipment and Billing Notice			
858		X12.18 Shipment Information			
859		X12.55 Freight Invoice			
860		X12.15 Purchase Order Change Request - Buyer Initiated			
861		X12.12 Receiving Advice			
862		X12.37 Shipping Schedule			
863		X12.41 Report of Test Results			
864		X12.34 Text Message			
865		X12.16 Purchase Order Change Acknowledgment/Request - Seller Initiated			
866		X12.57 Production Sequence			
867		X12.33 Product Transfer and Resale Report			
868		X12.30 Electronic Form Structure			
869		X12.11 Order Status Inquiry			
870		X12.23 Order Status Report			
872		X12.53 Residential Mortgage Insurance Application			
875		X12.298 Grocery Products Purchase Order			
876		X12.299 Grocery Products Purchase Order Change			
878		X12.182 Product Authorization/De-Authorization			
879		X12.60 Price Change			
880		X12.287 Grocery Products Invoice			
882		X12.125 Direct Store Delivery Summary Information			
883		X12.309 Market Development Fund Allocation			
884		X12.310 Market Development Fund Settlement			
885		X12.320 Store Characteristics			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
	886	X12.319 Customer Call Reporting			
	888	X12.269 - Item Maintenance (UCS)			
	889	X12.183 Promotion Announcement			
	891	X12.184 Deduction Research Report			
	893	X12.197 Item Information Request			
	894	X12.186 Delivery/Return Base Record			
	895	X12.187 Delivery/Return Acknowledgement and/or Adjustment			
	896	X12.188 Product Dimension Maintenance			
	920	X12.174 Loss or Damage Claim - General Commodities			
	924	X12.175 Loss or Damage Claim - Motor Vehicle			
	925	X12.176 Claim Tracer			
	926	X12.177 Claim Status Report and Tracer Reply			
	928	X12.178 Automotive Inspection Detail			
	940	X12.189 Warehouse Shipping Order			
	943	X12.191 Warehouse Stock Transfer Shipment Advice			
	944	X12.192 Warehouse Stock Transfer Receipt Advice			
	945	X12.193 Warehouse Shipping Advice			
	946	Delivery Information Message			
	947	X12.194 Warehouse Inventory Adjustment Advice			
	980	X12.179 Functional Group Totals			
	990	X12.180 Response To a Load Tender			
	994	Administrative Message			
	996	X12.32 File Transfer			
	997	X12.20 Functional Acknowledgment			
	998	X12.181 Set Cancellation			
	999	Acceptance/Rejection Advice			

ST02	329	Transaction Set Control Number	M	AN	4/9
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Semantics:

- The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

AK1

Functional Group Response Header

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

To start acknowledgment of a functional group.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
AK101	479	Functional Identifier Code	M	ID	2/2
		<u>Code</u> <u>Name</u>			
		AA Customer Account Analysis (822)			
		AG Application Advice (824)			
		AI Automotive Inspection Detail (928)			
		AK Student Educational Record (Transcript) Acknowledgment (131)			
		AL Set Cancellation (998) and Application Acceptance/Rejection Advice (499)			
		AN Return Merchandise Authorization and Notification (180)			
		AR Warehouse Stock Transfer Shipment Advice (943)			
		AW Warehouse Inventory Adjustment Advice (947)			
		BE Benefit Enrollment and Maintenance (834)			
		BS Shipment and Billing Notice (857)			
		CA Purchase Order Change Acknowledgment/Request - Seller Initiated (865)			
		CC Clauses and Provisions (504)			
		CD Credit/Debit Adjustment (812)			
		CF Corporate Financial Adjustment Information (844 and 849)			
		CG Administrative Message (994)			
		CH Car Handling Information (420)			
		CI Consolidated Service Invoice/Statement (811)			
		CO Cooperative Advertising Agreement (290)			
		CP Electronic Proposal Information (251, 805)			
		CR Rail Carhire Settlements (414)			
		CS Cryptographic Service Message (815)			
		CT Application Control Totals (831)			
		D3 Contract Completion Status (567)			
		D4 Contract Abstract (561)			
		D5 Contract Payment Management Report (568)			
		DA Debit Authorization (828)			
		DD Shipment Delivery Discrepancy Information (854)			
		DF Market Development Fund Allocation (883)			
		DI Dealer Information (128)			
		DM Shipper's Car Order (422)			
		DS Data Status Tracking (242)			
		DX Direct Exchange Delivery and Return Information (894, 895)			
		ED Student Educational Record (Transcript) (130)			
		EI Railroad Equipment Inquiry or Advice (456)			
		ER Revenue Receipts Statement (170)			
		EV Railroad Event Report (451)			
		FA Functional Acknowledgment (997)			
		FB Freight Invoice (859)			
		FC Court Notice (175)			
		FG Motor Carrier Loading and Route Guide (217)			
		FH Motor Carrier Tariff Information (218)			
		FR Financial Reporting (821, 827)			
		FT File Transfer (996)			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
	GB	Average Agreement Demurrage (423)			
	GC	Damage Claim Transaction Sets (920, 924, 925, 926)			
	GF	Response to a Load Tender (990)			
	GP	Grocery Products Invoice (880)			
	GR	Statistical Government Information (152)			
	HB	Health Care Eligibility/Benefit Information (271)			
	HC	Health Care Claim (837)			
	HI	Health Care Services Review Information (278)			
	HN	Health Care Claim Status Notification (277)			
	HP	Health Care Claim Payment/Advice (835)			
	HR	Health Care Claim Status Request (276)			
	HS	Health Care Eligibility/Benefit Inquiry (270)			
	IA	Air Freight Details and Invoice (110)			
	IB	Inventory Inquiry/Advice (846)			
	IC	Rail Advance Interchange Consist (418)			
	IG	Invoice Group - Grocery (880, 882)			
	II	Rail Freight Details and Invoice Summary (411)			
	IJ	Report of Injury or Illness (148)			
	IM	Motor Carrier Freight Details and Invoice (210)			
	IN	Invoice Information (810,819)			
	IO	Ocean Shipment Billing Details (310, 312)			
	IP	Intermodal Ramp Activity (622)			
	IR	Rail Carrier Freight Details and Invoice (410)			
	IS	Estimated Time of Arrival and Car Scheduling (421)			
	LA	Federal Communications Commission (FCC) License Application (195)			
	LA	Federal Communications Commission (FCC) License Application (195)			
	LB	Lockbox (823)			
	LN	Property and Casualty Loss Notification (272)			
	LR	Logistics Reassignment (536)			
	LS	Asset Schedule (851)			
	LT	Student Loan Transfer and Status Verification (144)			
	MB	Mortgage Credit Report (200)			
	MD	Department of Defense Inventory Management (527)			
	ME	Mortgage Origination (262)			
	MF	Market Development Funds Settlement (884)			
	MG	Mortgage Servicing Transaction Sets (260,264,266)			
	MH	Secondary Mortgage Market Investor Report (203)			
	MI	Motor Carrier Shipment Status Inquiry (213)			
	ML	Mortgage Credit Report Order (201,833)			
	MR	Multilevel Railcar Load Details (125)			
	MS	Material Safety Data Sheet (848)			
	MT	Electronic Form Structure (868)			
	MV	Material Obligation Validation (517)			
	MW	Rail Waybill Response (427)			
	MX	Material Claim (847)			
	NC	Nonconformance Report (842)			
	OC	Cargo Insurance Advice of Shipment (362)			
	OG	Order Group - Grocery (875, 876)			
	OR	Organizational Relationship (816)			
	OW	Warehouse Shipping Order (940)			
	PA	Price Authorization Acknowledgment/Status (845)			
	PB	Railroad Parameter Trace Registration (455)			
	PC	Purchase Order Change Request - Buyer Initiated (860)			
	PD	Product Activity Data (852)			
	PH	Pricing History (503)			
	PJ	Project Schedule Reporting (806)			
	PK	Project Cost Reporting (839) and Contractor Cost Data Reporting			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
		(196)			
	PL	Railroad Problem Log Inquiry or Advice (452)			
	PM	Residential Mortgage Insurance Application (872)			
	PO	Purchase Order (850)			
	PR	Purchase Order Acknowledgement (855)			
	PS	Planning Schedule with Release Capability (830)			
	PT	Product Transfer and Resale Report (867)			
	PV	Purchase Order Shipment Management Document (250)			
	PY	Payment Cancellation Request (829)			
	PZ	Residential Mortgage Insurance Application Response (263)			
	QG	Product Information (878, 879, 888, 889, 893, 896)			
	QM	Transportation Carrier Shipment Status Message (214)			
	QO	Ocean Shipment Status Information (313, 315)			
	RA	Payment Order/Remittance Advice (820)			
	RC	Receiving Advice/Acceptance Certificate (861)			
	RD	Royalty Regulatory Reports (185)			
	RE	Warehouse Stock Receipt Advice (944)			
	RF	Rail Route File Maintenance (475)			
	RG	Railroad Reciprocal Switch File (433)			
	RI	Routing and Carrier Instruction (853)			
	RL	Rail Industrial Switch List (423)			
	RM	Railroad Station Master File (431)			
	RN	Requisition Transaction (511)			
	RO	Ocean Booking Information (300, 301, 303)			
	RP	Commission Sales Report (818)			
	RQ	Request for Quotation (840) and Procurement Notices (836)			
	RR	Response to Request For Quotation (843)			
	RS	Order Status Information (869, 870)			
	RT	Report of Test Results (863)			
	RU	Railroad Retirement Activity (429)			
	RX	Rail Deprescription (432)			
	RY	Request for Student Educational Record (Transcript) (146)			
	RZ	Response to Request for Student Educational Record (Transcript) (147)			
	SA	Air Shipment Information (104)			
	SB	Switch Rails (424)			
	SC	Price/Sales Catalog (832)			
	SD	Student Loan Preclaims (191)			
	SE	Shipper's Export Declaration (601)			
	SF	Standard Transportation Commodity Code Master (435)			
	SG	SG Receiving Advice - Grocery (885)			
	SH	Ship Notice/Manifest (856)			
	SI	Shipment Information (858)			
	SL	Student Loan Application and Guarantee (135, 139)			
	SM	Motor Carrier Shipment Information (204)			
	SO	Ocean Shipment Information (304, 306, 309, 311, 317, 319, 321, 322, 323, 324, 325, 350, 352, 353, 354, 355, 356, 357, 358, 361)			
	SP	Specifications/Technical Information (841)			
	SQ	Production Sequence (866)			
	SR	Rail Carrier Shipment Information (404, 419, 426)			
	SS	Shipping Schedule (862)			
	ST	Railroad Service Commitment Advice (453)			
	SV	Student Enrollment Verification (190)			
	SW	Warehouse Shipping Advice (945)			
	TA	Electronic Filing of Tax Return Data Acknowledgment (151)			
	TC	Court Submission (176)			
	TD	Trading Partner Profile (838)			
	TF	Electronic Filing of Tax Return Data (813)			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
		TI Tax Information Reporting (826)			
		TN Tax Rate Notification (150)			
		TO Real Estate Title Insurance Services Order (265)			
		TP Rail Rate Transactions (460, 461, 462, 463, 464, 465, 466, 467, 468, 480, 485, 486, 490, 491, 492, 494)			
		TR Train Sheet (161)			
		TS Transportation Services Tender (602)			
		TX Text Message (864)			
		UA Store Characteristics (885)			
		UB Customer Call Reporting (886)			
		UC Uniform Commercial Code Filing (154)			
		UD Deduction Research Report (891)			
		UW Laboratory Reporting (186)			
		VA Vehicle Application Advice (126)			
		VB Vehicle Baying Order (127)			
		VC Vehicle Shipping Order (120)			
		VH Vehicle Carrier Rate Update (129)			
		VS Vehicle Service (121)			
		WA Product Service Transaction Sets (140, 141, 142, 143)			
		WB Rail Carrier Waybill Interchange (417)			
		WG Vendor Performance Review (501)			
		WR Shipment Weights (440)			
		WT Rail Waybill Request (425)			
AK102	28	Group Control Number	M	N0	1/9

Semantics:

1. AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
2. AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.

AK2 Transaction Set Response Header

Pos: 030	Max: 1
Heading - Optional	
Loop: AK2	Elements: 2

To start acknowledgment of a single transaction set.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
AK201	143	Transaction Set Identifier Code	M	ID	3/3
		<u>Code</u> <u>Name</u>			
		104 X12.100 Air Shipment Information			
		110 X12.101 Air Freight Details and Invoice			
		120 X12.70 Vehicle Shipping Order			
		121 X12.71 Vehicle Service			
		125 X12.75 Multilevel Railcar Load Details			
		126 X12.76 Vehicle Application Advice			
		127 X12.77 Vehicle Baying Order			
		128 X12.78 Dealer Information			
		129 X12.79 Vehicle Carrier Rate Update			
		130 X12.89 Student Educational Record (Transcript)			
		131 X12.90 Student Educational Record (Transcript)			
		Acknowledgment			
		135 X12.198 Student Loan Application			
		139 X12.265 Student Loan Guarantee Result			
		140 X12.200 Product Registration			
		141 X12.201 Product Service Claim Response			
		142 X12.202 Product Service Claim			
		143 X12.203 Product Service Notification			
		144 X12.94 Student Loan Transfer and Status Verification (144)			
		146 X12.121 Request for Student Educational Record (Transcript)			
		147 X12.123 Response to Request for Student Educational Record (Transcript)			
		148 X12.124 Report of Injury or Illness			
		150 X12.204 Tax Rate Notification			
		151 X12.205 Electronic Filing of Tax Return Data Acknowledgment			
		152 X12.206 Statistical Government Information			
		154 X12.99 Uniform Commercial Code Filing			
		161 X12.72 Train Sheet			
		170 X12.210 Revenue Receipts Statement			
		175 X12.305 Court Notice			
		176 X12.306 Court Submission			
		180 X12.255 Return Merchandise Authorization and Notification			
		185 X12.266 Royalty Regulatory Reports			
		186 X12.284 Laboratory Reporting			
		190 X12.264 Student Enrollment Verification			
		191 X12.276 Student Loan Preclaims			
		195 X12.267 Federal Communications Commission (FCC) License Application			
		196 X12.280 Contractor Cost Data Reporting			
		200 X12.304 Mortgage Credit Report			
		201 X12.326 Residential Loan Application			
		203 X12.340 Secondary Mortgage Market Investor Report			
		204 X12.103 Motor Carrier Shipment Information			
		210 X12.104 Motor Carrier Freight Details and Invoice			
		213 X12.105 Motor Carrier Shipment Status Inquiry			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
214	X12.106	Transportation Carrier Shipment Status Message			
217	X12.107	Motor Carrier Loading and Route Guide			
218	X12.108	Motor Carrier Tariff Information			
242	X12.274	Data Status Tracking			
250	X12.98	Purchase Order Shipment Management Document			
251	X12.288	Pricing Support			
260	X12.275	Application for Mortgage Insurance Benefits			
262	X12.278	Residential Appraisal Report (262)			
263	X12.279	Residential Mortgage Insurance Application Response			
264	X12.285	Mortgage Loan Default Status			
265	X12.286	Real Estate Title Insurance Services Order			
266	X12.295	Mortgage Record Change			
270	X12.281	Health Care Eligibility/Benefit Inquiry			
271	X12.282	Health Care Eligibility/Benefit Information			
272	X12.283	Property and Casualty Loss Notification			
276	X12.316	Health Care Claim Status Request			
277	X12.317	Health Care Claim Status Notification			
278	X12.336	Health Care Services Review Information			
290	X12.293	Cooperative Advertising Agreement			
300	X12.109	Reservation (Booking Request) (Ocean)			
301	X12.109	Confirmation (Ocean)			
303	X12.110	Booking Cancellation (Ocean)			
304	X12.113	Shipping Instructions			
306		Dock Receipt			
309	X12.117	U.S. Customs Manifest			
310	X12.118	Freight Receipt and Invoice (Ocean)			
311	X12.182	-Canadian Customs Information (Ocean)			
312	X12.119	Arrival Notice (Ocean)			
313	X12.120	Shipment Status Inquiry (Ocean)			
315	X12.122	Status Details (Ocean)			
317	X12.271	Delivery/Pickup Order			
319	X12.292	Terminal Information			
321		Demurrage Guarantee (Ocean)			
322	X12.127	Terminal Operations and Intermodal Ramp Activity			
323	X12.128	Vessel Schedule and Itinerary (Ocean)			
324	X12.129	Vessel Stow Plan (Ocean)			
325	X12.208	Consolidation of Goods in Container			
326	X12.97	Consignment Summary List			
350	X12.130	U.S. Customs Release Information			
352	X12.131	U.S. Customs Carrier General Order Status			
353	X12.132	U.S. Customs Events Advisory Details			
354	X12.133	U.S. Customs Automated Manifest Archive Status			
355	X12.134	U.S. Customs Manifest Acceptance/Rejection			
356	X12.211	U.S. Customs Permit to Transfer Request			
357	X12.307	U.S. Customs In-Bond Information			
358	X12.308	U.S. Customs Consist Information			
361	X12.136	Carrier Interchange Agreement (Ocean)			
362	X12.312	Cargo Insurance Advice of Shipment			
404	X12.138	Rail Carrier Shipment Information			
410	X12.139	Rail Carrier Freight Details and Invoice			
411		Freight Details and Invoice Summary (Rail)			
414	X12.83	Car Hire Settlements			
417	X12.141	Rail Carrier Waybill Interchange			
418	X12.142	Rail Advance Interchange Consist			
419	X12.143	Advance Car Disposition			
420	X12.144	Car Handling Information			
421	X12.261	Estimated Time of Arrival and Car Scheduling			
422	X12.262	Shipper's Car Order			
423	X12.327	Rail Industrial Switch List			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
424		Switch Bills			
425		X12.149 Rail Waybill Request			
426		X12.150 Rail Revenue Waybill			
427		Waybill Response			
429		X12.35 Railroad Retirement Activity			
431		X12.65 Railroad Station Master File Transaction Set			
432		X12.328 Rail Deprescription			
433		X12.329 Railroad Reciprocal Switch File			
435		X12.330 Standard Transportation Commodity Code Master			
440		X12.152 Shipment Weights			
451		X12.337 Railroad Event Report			
452		X12.338 Railroad Problem Log Inquiry or Advice			
453		X12.331 Railroad Service Commitment Advice			
455		X12.332 Railroad Parameter Trace Registration			
456		X12.333 Railroad Equipment Inquiry or Advice			
460		Rate Format Docket Data			
461		Rate Format Level Data			
462		Rate Format Sub-Level Data			
463		Rate Set Docket Index			
464		Rate Set Docket Data			
465		Rate Set Sub-Level Data			
466		X12.159 Rate Request			
467		Scale Rate Docket Transmittal			
468		X12.161 Rate Docket Journal Log			
469		Rate Distribution Set			
475		X12.334 Rail Route File Maintenance			
480		Docket/Cluster Terminator			
485		X12.164 Ratemaking Action			
486		X12.165 Rate Docket Expiration			
490		X12.166 Rate Group Definition			
491		Rate Increase/Decrease Transmittal			
492		X12.168 Miscellaneous Rates			
494		X12.169 Scale Rate Table			
499		Application Acceptance Rejection Advice			
501		X12.341 Vendor Performance Review			
503		X12.352 Pricing History			
504		X12.353 Clauses and Provisions			
511		X12.225 Requisition			
517		X12.230 Material Obligation Validation			
527		X12.231 Material Due-In and Receipt			
536		X12.243 Logistics Reassignment			
561		X12.212 Contract Abstract			
567		X12.218 Contract Completion Status			
568		X12.219 Contract Payment Management Report			
601		X12.273 Shipper's Export Declaration			
602		X12.126 Transportation Services Tender			
622		X12.173 Intermodal Ramp Activity			
805		X12.195 Contract Pricing Proposal			
806		X12.196 Project Schedule Reporting			
810		X12.2 Invoice			
811		X12.39 Consolidated Service Invoice/Statement			
812		X12.40 Credit/Debit Adjustment			
813		X12.62 Electronic Filing of Tax Return Data			
815		X12.42 Cryptographic Service Message			
816		X12.66 Organization Relationship			
818		X12.256 Commission Sales Report			
819		X12.43 Operating Expense Statement			
820		X12.4 Payment Order/Remittance Advice			
821		X12.24 Financial Information Reporting			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
822		X12.25 Customer Account Analysis			
823		X12.38 Lockbox			
824		X12.44 Application Advice			
826		X12.19 Tax Information Reporting			
827		X12.47 Financial Return Notice			
828		X12.45 Debit Authorization			
829		X12.48 Payment Cancellation Request			
830		X12.14 Planning Schedule with Release Capability			
831		X12.49 Application Control Totals			
832		X12.13 Price/Sales Catalog			
833		X12.69 Mortgage Credit Report Order			
834		X12.84 Benefit Enrollment and Maintenance			
835		X12.85 Health Care Claim Payment/Advice			
836		X12.54 Procurement Notices			
837		X12.86 Health Care Claim			
838		X12.17 Trading Partner Profile			
839		X12.31 Project Cost Reporting			
840		X12.7 Request for Quotation			
841		X12.51 Specifications/Technical Information			
842		X12.21 Nonconformance Report Transaction Set			
843		X12.8 Response to Request for Quotation			
844		X12.26 Product Transfer Account Adjustment			
845		X12.27 Price Authorization Acknowledgment/Status			
846		X12.28 Inventory Inquiry/Advice			
847		X12.63 Material Claim			
848		X12.36 Material Safety Data Sheet			
849		X12.50 Response to Product Transfer Account Adjustment			
850		X12.1 Purchase Order			
851		X12.51 Asset Schedule			
852		X12.52 Product Activity Data			
853		X12.64 Routing and Carrier Instruction			
854		X12.68 Shipment Delivery Discrepancy Information			
855		X12.9 Purchase Order Acknowledgment			
856		X12.10 Ship Notice/Manifest			
857		X12.29 Shipment and Billing Notice			
858		X12.18 Shipment Information			
859		X12.55 Freight Invoice			
860		X12.15 Purchase Order Change Request - Buyer Initiated			
861		X12.12 Receiving Advice			
862		X12.37 Shipping Schedule			
863		X12.41 Report of Test Results			
864		X12.34 Text Message			
865		X12.16 Purchase Order Change Acknowledgment/Request - Seller Initiated			
866		X12.57 Production Sequence			
867		X12.33 Product Transfer and Resale Report			
868		X12.30 Electronic Form Structure			
869		X12.11 Order Status Inquiry			
870		X12.23 Order Status Report			
872		X12.53 Residential Mortgage Insurance Application			
875		X12.298 Grocery Products Purchase Order			
876		X12.299 Grocery Products Purchase Order Change			
878		X12.182 Product Authorization/De-Authorization			
879		X12.60 Price Change			
880		X12.287 Grocery Products Invoice			
882		X12.125 Direct Store Delivery Summary Information			
883		X12.309 Market Development Fund Allocation			
884		X12.310 Market Development Fund Settlement			
885		X12.320 Store Characteristics			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
	886	X12.319 Customer Call Reporting			
	888	X12.269 - Item Maintenance (UCS)			
	889	X12.183 Promotion Announcement			
	891	X12.184 Deduction Research Report			
	893	X12.197 Item Information Request			
	894	X12.186 Delivery/Return Base Record			
	895	X12.187 Delivery/Return Acknowledgement and/or Adjustment			
	896	X12.188 Product Dimension Maintenance			
	920	X12.174 Loss or Damage Claim - General Commodities			
	924	X12.175 Loss or Damage Claim - Motor Vehicle			
	925	X12.176 Claim Tracer			
	926	X12.177 Claim Status Report and Tracer Reply			
	928	X12.178 Automotive Inspection Detail			
	940	X12.189 Warehouse Shipping Order			
	943	X12.191 Warehouse Stock Transfer Shipment Advice			
	944	X12.192 Warehouse Stock Transfer Receipt Advice			
	945	X12.193 Warehouse Shipping Advice			
	946	Delivery Information Message			
	947	X12.194 Warehouse Inventory Adjustment Advice			
	980	X12.179 Functional Group Totals			
	990	X12.180 Response To a Load Tender			
	994	Administrative Message			
	996	X12.32 File Transfer			
	997	X12.20 Functional Acknowledgment			
	998	X12.181 Set Cancellation			
	999	Acceptance/Rejection Advice			

AK202	329	Transaction Set Control Number	M	AN	4/9
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Semantics:

1. AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.
2. AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

AK3 Data Segment Note

Pos: 040	Max: 1
Heading - Optional	
Loop: AK3	Elements: 4

To report errors in a data segment and to identify the location of the data segment.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
AK301	721	Segment ID Code	M	ID	2/3
AK302	719	Segment Position in Transaction Set	M	N0	1/6
AK303	447	Loop Identifier Code	O	AN	1/4
AK304	720	Segment Syntax Error Code	O	ID	1/3
		<u>Code</u> <u>Name</u>			
		1 Unrecognized segment ID			
		2 Unexpected segment			
		3 Mandatory segment missing			
		4 Loop Occurs Over Maximum Times			
		5 Segment Exceeds Maximum Use			
		6 Segment Not in Defined Transaction Set			
		7 Segment Not in Proper Sequence			
		8 Segment Has Data Element Errors			

AK4 Data Element Note

Pos: 050	Max: 99
Heading - Optional	
Loop: AK3	Elements: 4

To report errors in a data element and to identify the location of the data element.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
AK401	C030	Position in Segment	M	Comp	
	722	Element Position in Segment	M	N0	1/2
	1528	Component Data Element Position in Composite	O	N0	1/2
AK402	725	Data Element Reference Number	O	N0	1/4
AK403	723	Data Element Syntax Error Code	M	ID	1/3
		<u>Code</u> <u>Name</u>			
		1 Mandatory data element missing			
		2 Conditional required data element missing.			
		3 Too many data elements.			
		4 Data element too short.			
		5 Data element too long.			
		6 Invalid character in data element.			
		7 Invalid code value.			
		8 Invalid Date			
		9 Invalid Time			
		10 Exclusion Condition Violated			
AK404	724	Copy of Bad Data Element	O	AN	1/99

AK5 Transaction Set Response Trailer

Pos: 060	Max: 1
Heading - Mandatory	
Loop: AK2	Elements: 6

To acknowledge acceptance or rejection and to report errors in a transaction set.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
AK501	717	Transaction Set Acknowledgment Code	M	ID	1/1
		<u>Code</u> <u>Name</u>			
		A Accepted			
		E Accepted But Errors Were Noted			
		M Rejected, Message Authentication Code (MAC) Failed			
		R Rejected			
		X Rejected, Content After Decryption Could Not Be Analyzed			
AK502	718	Transaction Set Syntax Error Code	O	ID	1/3
		<u>Code</u> <u>Name</u>			
		1 Transaction Set Not Supported			
		2 Transaction Set Trailer Missing			
		3 Transaction Set Control Number in Header and Trailer Do Not Match			
		4 Number of Included Segments Does Not Match Actual Count			
		5 One or More Segments in Error			
		6 Missing or Invalid Transaction Set Identifier			
		7 Missing or Invalid Transaction Set Control Number			
		8 Authentication Key Name Unknown			
		9 Encryption Key Name Unknown			
		10 Requested Service (Authentication or Encrypted) Not Available			
		11 Unknown Security Recipient			
		12 Incorrect Message Length (Encryption Only)			
		13 Message Authentication Code Failed			
		15 Unknown Security Originator			
		16 Syntax Error in Decrypted Text			
		17 Security Not Supported			
		19 S1E Security End Segment Missing for S1S Security Start Segment			
		20 S1S Security Start Segment Missing for S1E Security End Segment			
		21 S2E Security End Segment Missing for S2S Security Start Segment			
		22 S2S Security Start Segment Missing for S2E Security End Segment			
		23 Transaction Set Control Number Not Unique within the Functional Group			
AK503	718	Transaction Set Syntax Error Code	O	ID	1/3
		<u>Code</u> <u>Name</u>			
		1 Transaction Set Not Supported			
		2 Transaction Set Trailer Missing			
		3 Transaction Set Control Number in Header and Trailer Do Not Match			
		4 Number of Included Segments Does Not Match Actual Count			
		5 One or More Segments in Error			

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
		6 Missing or Invalid Transaction Set Identifier			
		7 Missing or Invalid Transaction Set Control Number			
		8 Authentication Key Name Unknown			
		9 Encryption Key Name Unknown			
		10 Requested Service (Authentication or Encrypted) Not Available			
		11 Unknown Security Recipient			
		12 Incorrect Message Length (Encryption Only)			
		13 Message Authentication Code Failed			
		15 Unknown Security Originator			
		16 Syntax Error in Decrypted Text			
		17 Security Not Supported			
		19 S1E Security End Segment Missing for S1S Security Start Segment			
		20 S1S Security Start Segment Missing for S1E Security End Segment			
		21 S2E Security End Segment Missing for S2S Security Start Segment			
		22 S2S Security Start Segment Missing for S2E Security End Segment			
		23 Transaction Set Control Number Not Unique within the Functional Group			

AK504 718 Transaction Set Syntax Error Code O ID 1/3

<u>Code</u>	<u>Name</u>
1	Transaction Set Not Supported
2	Transaction Set Trailer Missing
3	Transaction Set Control Number in Header and Trailer Do Not Match
4	Number of Included Segments Does Not Match Actual Count
5	One or More Segments in Error
6	Missing or Invalid Transaction Set Identifier
7	Missing or Invalid Transaction Set Control Number
8	Authentication Key Name Unknown
9	Encryption Key Name Unknown
10	Requested Service (Authentication or Encrypted) Not Available
11	Unknown Security Recipient
12	Incorrect Message Length (Encryption Only)
13	Message Authentication Code Failed
15	Unknown Security Originator
16	Syntax Error in Decrypted Text
17	Security Not Supported
19	S1E Security End Segment Missing for S1S Security Start Segment
20	S1S Security Start Segment Missing for S1E Security End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	Transaction Set Control Number Not Unique within the Functional Group

AK505 718 Transaction Set Syntax Error Code O ID 1/3

<u>Code</u>	<u>Name</u>
1	Transaction Set Not Supported
2	Transaction Set Trailer Missing
3	Transaction Set Control Number in Header and Trailer Do Not Match

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
	4	Number of Included Segments Does Not Match Actual Count			
	5	One or More Segments in Error			
	6	Missing or Invalid Transaction Set Identifier			
	7	Missing or Invalid Transaction Set Control Number			
	8	Authentication Key Name Unknown			
	9	Encryption Key Name Unknown			
	10	Requested Service (Authentication or Encrypted) Not Available			
	11	Unknown Security Recipient			
	12	Incorrect Message Length (Encryption Only)			
	13	Message Authentication Code Failed			
	15	Unknown Security Originator			
	16	Syntax Error in Decrypted Text			
	17	Security Not Supported			
	19	S1E Security End Segment Missing for S1S Security Start Segment			
	20	S1S Security Start Segment Missing for S1E Security End Segment			
	21	S2E Security End Segment Missing for S2S Security Start Segment			
	22	S2S Security Start Segment Missing for S2E Security End Segment			
	23	Transaction Set Control Number Not Unique within the Functional Group			

AK506 718 Transaction Set Syntax Error Code O ID 1/3

<u>Code</u>	<u>Name</u>
1	Transaction Set Not Supported
2	Transaction Set Trailer Missing
3	Transaction Set Control Number in Header and Trailer Do Not Match
4	Number of Included Segments Does Not Match Actual Count
5	One or More Segments in Error
6	Missing or Invalid Transaction Set Identifier
7	Missing or Invalid Transaction Set Control Number
8	Authentication Key Name Unknown
9	Encryption Key Name Unknown
10	Requested Service (Authentication or Encrypted) Not Available
11	Unknown Security Recipient
12	Incorrect Message Length (Encryption Only)
13	Message Authentication Code Failed
15	Unknown Security Originator
16	Syntax Error in Decrypted Text
17	Security Not Supported
19	S1E Security End Segment Missing for S1S Security Start Segment
20	S1S Security Start Segment Missing for S1E Security End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	Transaction Set Control Number Not Unique within the Functional Group

AK9 Functional Group Response Trailer

Pos: 070	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 9

To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
AK901	715	Functional Group Acknowledge Code	M	ID	1/1
		<u>Code</u> <u>Name</u>			
		A Accepted			
		E Accepted, But Errors Were Noted.			
		M Rejected, Message Authentication Code (MAC) Failed			
		P Partially Accepted, At Least One Transaction Set Was Rejected			
		R Rejected			
		X Rejected, Content After Decryption Could Not Be Analyzed			
AK902	97	Number of Transaction Sets Included	M	N0	1/6
AK903	123	Number of Received Transaction Sets	M	N0	1/6
AK904	2	Number of Accepted Transaction Sets	M	N0	1/6
AK905	716	Functional Group Syntax Error Code	O	ID	1/3
		<u>Code</u> <u>Name</u>			
		1 Functional Group Not Supported			
		2 Functional Group Version Not Supported			
		3 Functional Group Trailer Missing			
		4 Group Control Number in the Functional Group Header and Trailer Do Not Agree			
		5 Number of Included Transaction Sets Does Not Match Actual Count			
		6 Group Control Number Violates Syntax			
		10 Authentication Key Name Unknown			
		11 Encryption Key Name Unknown			
		12 Requested Service (Authentication or Encryption) Not Available			
		13 Unknown Security Recipient			
		14 Unknown Security Originator			
		15 Syntax Error in Decrypted Text			
		16 Security Not Supported			
		17 Incorrect Message Length (Encryption Only)			
		18 Message Authentication Code Failed			
		19 S1E Security End Segment Missing for S1S Security Start Segment			
		20 S1S Security Start Segment Missing for S1E End Segment			
		21 S2E Security End Segment Missing for S2S Security Start Segment			
		22 S2S Security Start Segment Missing for S2E Security End Segment			
AK906	716	Functional Group Syntax Error Code	O	ID	1/3

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
		<u>Code</u> <u>Name</u>			
		1 Functional Group Not Supported			
		2 Functional Group Version Not Supported			
		3 Functional Group Trailer Missing			
		4 Group Control Number in the Functional Group Header and Trailer Do Not Agree			
		5 Number of Included Transaction Sets Does Not Match Actual Count			
		6 Group Control Number Violates Syntax			
		10 Authentication Key Name Unknown			
		11 Encryption Key Name Unknown			
		12 Requested Service (Authentication or Encryption) Not Available			
		13 Unknown Security Recipient			
		14 Unknown Security Originator			
		15 Syntax Error in Decrypted Text			
		16 Security Not Supported			
		17 Incorrect Message Length (Encryption Only)			
		18 Message Authentication Code Failed			
		19 S1E Security End Segment Missing for S1S Security Start Segment			
		20 S1S Security Start Segment Missing for S1E End Segment			
		21 S2E Security End Segment Missing for S2S Security Start Segment			
		22 S2S Security Start Segment Missing for S2E Security End Segment			

AK907 716 **Functional Group Syntax Error Code** O ID 1/3

	<u>Code</u> <u>Name</u>
	1 Functional Group Not Supported
	2 Functional Group Version Not Supported
	3 Functional Group Trailer Missing
	4 Group Control Number in the Functional Group Header and Trailer Do Not Agree
	5 Number of Included Transaction Sets Does Not Match Actual Count
	6 Group Control Number Violates Syntax
	10 Authentication Key Name Unknown
	11 Encryption Key Name Unknown
	12 Requested Service (Authentication or Encryption) Not Available
	13 Unknown Security Recipient
	14 Unknown Security Originator
	15 Syntax Error in Decrypted Text
	16 Security Not Supported
	17 Incorrect Message Length (Encryption Only)
	18 Message Authentication Code Failed
	19 S1E Security End Segment Missing for S1S Security Start Segment
	20 S1S Security Start Segment Missing for S1E End Segment
	21 S2E Security End Segment Missing for S2S Security Start Segment
	22 S2S Security Start Segment Missing for S2E Security End Segment

AK908 716 **Functional Group Syntax Error Code** O ID 1/3

	<u>Code</u> <u>Name</u>
	1 Functional Group Not Supported
	2 Functional Group Version Not Supported
	3 Functional Group Trailer Missing

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
	4	Group Control Number in the Functional Group Header and Trailer Do Not Agree			
	5	Number of Included Transaction Sets Does Not Match Actual Count			
	6	Group Control Number Violates Syntax			
	10	Authentication Key Name Unknown			
	11	Encryption Key Name Unknown			
	12	Requested Service (Authentication or Encryption) Not Available			
	13	Unknown Security Recipient			
	14	Unknown Security Originator			
	15	Syntax Error in Decrypted Text			
	16	Security Not Supported			
	17	Incorrect Message Length (Encryption Only)			
	18	Message Authentication Code Failed			
	19	S1E Security End Segment Missing for S1S Security Start Segment			
	20	S1S Security Start Segment Missing for S1E End Segment			
	21	S2E Security End Segment Missing for S2S Security Start Segment			
	22	S2S Security Start Segment Missing for S2E Security End Segment			

AK909 716 **Functional Group Syntax Error Code** O ID 1/3

<u>Code</u>	<u>Name</u>
1	Functional Group Not Supported
2	Functional Group Version Not Supported
3	Functional Group Trailer Missing
4	Group Control Number in the Functional Group Header and Trailer Do Not Agree
5	Number of Included Transaction Sets Does Not Match Actual Count
6	Group Control Number Violates Syntax
10	Authentication Key Name Unknown
11	Encryption Key Name Unknown
12	Requested Service (Authentication or Encryption) Not Available
13	Unknown Security Recipient
14	Unknown Security Originator
15	Syntax Error in Decrypted Text
16	Security Not Supported
17	Incorrect Message Length (Encryption Only)
18	Message Authentication Code Failed
19	S1E Security End Segment Missing for S1S Security Start Segment
20	S1S Security Start Segment Missing for S1E End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment

Comments:

1. If AK901 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.

SE Transaction Set Trailer

Pos: 080	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
SE01	96	Number of Included Segments	M	N0	1/10
SE02	329	Transaction Set Control Number	M	AN	4/9

Comments:

1. SE is the last segment of each transaction set.

GE

Functional Group Trailer

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 2

To indicate the end of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
GE01	97	Number of Transaction Sets Included	M	N0	1/6
GE02	28	Group Control Number	M	N0	1/9

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated Functional Header GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 2

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5
IEA02	I12	Interchange Control Number	M	N0	9/9

end of document