

EDI Transaction Set Specifications

Version 4010

Control Group Segment

Purchase Orders (850)

Purchase Order Acknowledgment (855)

Invoice (810)

Technical Contact:

Harley brookshrie brooksh@labcorp.com

336-436-8331

Laboratory Corporation of America Holdings has compiled this guide to provide information to our suppliers about the transmission of business data between LabCorp's computers and our suppliers' computers. This process is commonly known as Electronic Data Interchange (EDI).

ASC X12 STANDARD FORMATS

The American National Standards Institute (ANSI) has developed standards which define how this exchange works. This standard is commonly referred to as the ANSI ASC X12 standards. LabCorp intends to abide by this standard and will remain compliant with current published standards.

ANSI ASC X12 standards publications can be purchased from:

Washington Publishing 806 West Diamond Avenue Suite 4000 Gaithersburg, MD 20878 Internet Address: www.wpc-edi.com

Telephone: 301-590-9337 Publication Order Desk: 800-972-4334

The ASC X12 standard consists of transaction sets. Each set represents a business document. A transaction set consists of data segments and data segments consist of data elements. Many data elements within a transaction set are optional.

This guide explains the technical EDI requirements and options selected by LabCorp for the Purchase Order (850), Purchase Order Acknowledgment (855) and the Invoice (810) transaction sets.

CONTROL INFORMATION

Before transactions may actually be transmitted, the standard also requires control information to be present. Again, a variety of options are available. The next section of this guide explains the control information options which LabCorp has selected.

COMMUNICATIONS

LabCorp utilizes a Value Added Network (VAN) to manage the transmission of data and the conversion of the information into and out of the various formats expected by the different types of hardware used by our trading partners

LabCorp uses Sterling. Other VANs used in North America include A T &T, MCI (BT), Harbinger, Advantis, and GEIS.

VAN costs usually include a one-time installation charge, monthly Mailbox charge and additional transmission fees, to send and receive business information from the VAN. It should be noted that VANs also provide consulting and implementation services, in addition to communications, and charge additional fees accordingly.

EDITRANSLATION SOFTWARE

EDI translation software is needed to translate the application database information into the EDI format and to translate EDI data into a format that the application can understand. Translation software for PCs, mini computers, and mainframes is available from several EDI software companies. LabCorp uses the TSI, International translation software. We have entered into a partnership with TSI to develop PC Trading Partner Kits, pre-configured software kits, tailored to the requirements of LabCorp, which we recommend to our suppliers who are new to EDI.

CONFIDENTIALITY

LabCorp requires our Trading Partners to treat as confidential all electronically transmitted business information. Trading Partners are expected to expend the same effort to protect LabCorp business information as they do to protect their own proprietary data.

SUMMARY

LabCorp expects EDI to be a 'partnership' venture. We plan to work together with our trading partners to achieve a mutually beneficial result.

IMPLEMENTATION APPROACH

- 1 Identify the personnel in your organization who will participate in the project.
- 2 Complete the LabCorp TRADING PARTNER INFORMATION SHEET and mail, fax or e-mail to LabCorp
- 3 Analyze the LabCorp information requirements presented in this document and compare them to the information available in your system(s)
- 4 Identify any required modifications to current systems
- 5 Choose the EDI translation software to translate your data to the standard formats presented in this document
- 6 Determine the Value Added Network you will use
- 7 Contact LabCorp to initiate testing and provide additional information regarding your software and VAN.

Laboratory Corporation of America Holdings EDI Information for Trading Partners

Laboratory Corporation of America Holdings

PO Box 2230

Burlington, NC 27216-2230

Telephone: (336) 229-1127 Fax: (336) 513-4144

MIS Technical Contact

Harley Brookshire brooksh@labcorp.com 336-436-8331

EDI Information

EDI Network Sterling

EDI Software TSI International (Mainframe)

Sender /

Receiver ID 154410138 ID Qualifier 01

Standard ANSI X12

Transaction Sets	Туре	Version
810	Recv	004010
850	Send	004010
855	Recv	004010

FORMAT OF THIS GUIDE

The first pages of each chapter give a high level view of each transaction. The overview shows which segments LabCorp has selected for the transaction.

The subsequent pages describe in detail one segment. The segment ID, segment name, and segment purpose appear at the top of each page. A table follows which describes the elements which LabCorp has selected for that segment. Each line of the table describes one element; each element has a name, a reference number, description, attributes, and a description of values used. All information is obtained from the X12 standard, with the exception of the description of the values used by LabCorp.

Each element has the following attributes:

- 1 Mandatory/optional/conditional indicator
 - M the element is mandatory
 - O the element is optional
 - C the element is conditional
- 2 Type
 - AN an alphanumeric string of characters
 - Nn a number with n digits to the right of an implied decimal point, with a sign
 - transmitted, but no decimal point.
 - ID an identifier, the value of which must be one specified in a discrete list in the X12
 - standard.
 - R a number with both the sign and decimal point transmitted
 - DT a date in CCYYMMDD format (always 8 digits in length), unless otherwise specified (see ISA)
 - TM a time in HHMMSSdd format (up to 8 digits in length)
- 3 Minimum length / maximum length

Explanatory notes which provide further clarification or LabCorp specific information follow the element description table.

NOTE: All segments selected by LabCorp in the following transaction sets are MANDATORY, unless specifically referred to as optional in the footnotes.

ANSI X12 INTERCHANGE CONTROL STRUCTURE

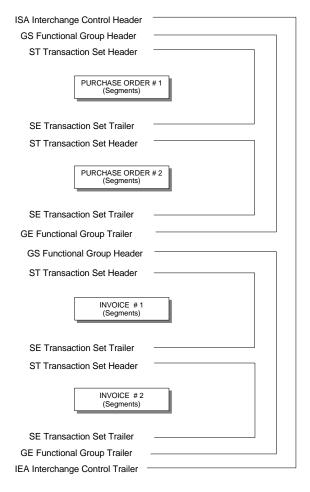
EDI information is sent in a specific format called the *Interchange Control Structure*. There are three levels within this structure: the interchange control headers and trailers, the functional group header and trailers and the transaction set headers and trailers.

The interchange control segments envelope one or more functional groups and identify the sender and receiver as well as provide control information for the transmission. The interchange consists of three components: an ISA Header segment, a series of functional groups and an IEA Trailer segment.

The functional group envelopes similar transaction sets and provide control and application identification information. The functional group consists of three components: a GS Header segment, a series of similar transaction sets and a GE Trailer segment.

The transaction set header and trailer control segments delineate a transaction set and provide identification of the set as well as a count of the data segments included. Transaction sets consist of three components: an ST Header segment, a collection of related segments and an SE Trailer segment.

The control segments are mandatory for all transaction sets.



Example X12 envelope Structure

Segment ID	Name	Req. Des.	Max Use	Loop Rep
Header				
ISA	Interchange Control Header	М	1	
GS	Functional Group Header	М	1	
Trailer				
GE	Functional Group Trailer	М	1	
IEA	Interchange Control Trailer	М	1	

Delimiters:

*5C Hex = Element Delimiter *5C Hex = Sub-element Delimiter N 15 Hex = Segment Delimiter

Segment ID	Element ID	Name	Data Value		ibutes
ISA		Interchange Control Header			
ISA01	I01	Authorization Information Qualifier	00 or Spaces, Same For All Transaction Sets	М	2/2
ISA02	102	Authorization Information	0 or Spaces, Same For All Transaction Sets	М	10/10
ISA03	103	Security Information Qualifier	00 = No Security Information Present (No meaningful information in I04)	М	2/2
ISA04	104	Security Information	0 or Spaces, Same For All Transaction Sets	М	10/10
ISA05	105	Interchange ID Qualifier	01 = Duns # (LabCorp)	М	2/2
ISA06	106	Interchange Sender ID	Sender Account EDI Address	М	15/15
ISA07	105	Interchange ID Qualifier	01 = Duns #	М	2/2
			12 = Telephone #		
ISA08	107	Interchange Receiver ID	Receiver Account EDI Address	М	15/15
ISA09	108	Interchange Date	Date Of Interchange	М	6/6
ISA10	109	Interchange Time	Time Of Interchange	М	4/4
ISA11	I10	Interchange Control Standards Identifier	U = US EDI Community Of X12	М	1/1
ISA12	I11	Interchange Control Version	00401 - Version 4010	М	5/5
ISA13	l12	Interchange Control Number		М	9/9
ISA14	I13	Acknowledgment Requested	0 = No Acknowledgment Requested	М	1/1
ISA15	l14	Usage Indicator	P = Production Data T = Test Data	М	1/1

ISA16	l15	Component Element Separator		М	1/1
GS		Functional Group Header			
GS01	479	Functional Identifier Code	Transaction Set Code: IN, PO, PR, FA	М	2/2
GS02	142	Application Sender's Code		М	2/15
GS03	124	Application Receiver's Code		М	2/15
GS04	373	Date	CCYYMMDD	М	8/8
GS05	337	Time	ННММ	М	4/8
GS06	28	Group Control Number	Assigned By Sender	М	1/9
GS07	455	Responsible Agency Code	X = X12	М	1/2
GS08	480	Version/Release/Industry Identifier Code	004010	М	1/12
GE		Functional Group Trailer			
GE01	97	Number Of Transaction Sets Included		М	1/6
GE02	28	Group Control Number	Assigned By Sender	М	1/9
IEA		Interchange Control Trailer			
IEA01	I16	Number Of Included Functional Groups		М	1/5
IEA02	l12	Interchange Control Number		М	9/9

Segment ID	Name	Req. Des.	Max Use	Loop Repeat
Header				
ST	Transaction Set Header	М	1	
BEG	Beginning Segment For	М	1	
N1	Purchase Order Name	0	1	200
N3	Address Information	0	2	
N4	Geographic Location	0	1	
N1	Name	0	1	200
N3	Address Information	0	2	
N4	Geographic Location	0	1	
N1	Name	0	1	200
N2	Additional Name Information	0	2	
N3	Address Information	0	2	
N4	Geographic Location	0	1	
PER	Administrative Communications Contact	0	1	
Detail				
PO1	Baseline Item Data	М	1	100,000
MSG	Message Text	0	1	
PID	Product/Item Description	0	1,000	
DTM	Date/Time Reference	0	10	
Summary				
CTT	Transaction Totals	0	1	1
SE	Transaction Set Trailer	М	1	

ST Transaction Set Header ST01 143 Transaction Set Identifier Code 850 = Purchase Order M 3/3 ST02 329 Transaction Set Control Number M 4/9 BEG Beginning Segment For Purchase Order BEG01 353 Transaction Set Purpose Code 00 = Original M 2/2 BEG02 92 Purchase Order Type Code SA = Stand-alone Order M 1/22 BEG03 324 Purchase Order Number Reserved For Future Use (Blanket Orders) M 1/22 BEG04 328 Release Number Reserved For Future Use (Blanket Orders) M 1/30 BEG05 373 Date Purchase Order Date M 2/3 N1 Name N 1/30 M 1/8 N1 Name N 2/3 Name N 1/55 N3 Address Information Mandatory Street Address M 1/55 N4 Geographic Location N 2/3 N401 19	Segment ID	Element ID	Name	Data Value	Attri	butes
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N302 166 Address Information Optional Street Address O 1/55 N4 Geographic Location State Or Province Code O 2/30 N401 19 City Name O 2/30 N402 156 State Or Province Code O 2/2	N3		Address Information			
N4 Geographic Location N401 19 City Name O 2/30 N402 156 State Or Province Code O 2/2	N301	166	Address Information	Mandatory Street Address	М	1/55
N401 19 City Name O 2/30 N402 156 State Or Province Code O 2/2	N302	166	Address Information	Optional Street Address	0	1/55
N402 156 State Or Province Code O 2/2	N4		Geographic Location			
	N401	19	City Name		0	2/30
N403 116 Postal Code O 3/15	N402	156	State Or Province Code		0	2/2
	N403	116	Postal Code		0	3/15

Segment ID	Element ID	Name	Data Value	Attr	ibutes
N101	98	Entity Identifier Code	ST = Ship To	М	2/3
N102	93	Name	LabCorp Ship To Name	М	1/60
N103	66	ID Code Qualifier	92 = Assigned By Buyer	М	1/2
N104	67	ID Code	LabCorp Ship To Code	M	2/80
N2		Additional Name Information			
N201	93	Name	Attention Line (Optional Use)	0	1/60
N3		Address Information			
N301	166	Address Information	Mandatory Street Address	М	1/55
N302	166	Address Information	Optional Street Address	0	1/55
N4		Geographic Location			
N401	19	City Name		0	2/30
N402	156	State Or Province Code		0	2/2
N403	116	Postal Code		0	3/15
PO1		Purchase Order Line Information			
PO101	350	Assigned Identification	PO Line Number	0	1/20
PO102	330	Quantity Ordered		0	1/15
PO103	355	Unit of Measure Code		0	2/2
PO104	212	Unit Price		0	1/17
PO105	639	Basis Of Unit Price Code	CT = Contract Price	0	2/2
PO106	235	Product/Service ID Qualifier	VC = Vendor's Catalog Number	0	2/2
PO107	234	Product ID	Vendor's Catalog Number	0	1/48
PO108	235	Product/Service ID Qualifier	PI = Purchaser's Item Code	0	2/2
PO109	234	Product ID	LabCorp Item Number	0	1/48
PO1010	235	Product/Service ID Qualifier	ZZ = Mutually Defined	0	2/2
PO1011	234	Product ID	LabCorp Department/Center Code	0	1/48
MSG		Message Text			
MSG01	933	Free-Form Message Text	Example: Special Shipping; Special Attention	M	1/264
PID		Product/Item Description			
PID01	349	Item Description Type	F = Free Form	М	1/1

Segment ID	Element ID	Name	Data Value		
				Attrik	outes
PID05	352	Item Description		М	1/80
DTM		Date/Time Reference			
DTM01	374	Date/Time Qualifier	002 = Delivery Requested	М	3/3
DTM02	373	Date		М	8/8
СТТ		Transaction Totals			
CTT01	354	Number Of Line Items		М	1/6
CTT02	347	Hash Total		Ο	1/10
SE		Transaction Set Trailer			
SE01	96	Number Of Included Segments		М	1/10
SE02	329	Transaction Set Control Number		М	4/9
SE01		Number Of Included Segments			

Segment ID	Name	Req. Des.	Max Use	Loop Repeat
Header				
ST	Transaction Set Header	М	1	
BAK	Beginning Segment for PO Acknowledgment	М	1	
N1	Name	0	1	200
N3	Address Information	0	2	
N4	Geographic Location	0	1	
Detail				
PO1	Baseline Item Data	0	1	100,000
ACK	Line Item Acknowledgment	0	1	104
Summary				
CTT	Transaction totals	0	1	1
SE	Transaction set trailer	M	1	

Segment ID	Element ID	Name	Data Value	Attributes		
ST		Transaction set header				
ST01	143	Transaction set ID Code	855 = Purchase Order Acknowledgment	М	3/3	
ST02	329	Transaction set control number		М	4/9	
ВАК		Beginning Segment				
BAK01	353	Transaction Set Purpose	06 = Confirmation	М	2/2	
BAK02	587	Acknowledgment Type	AC = Acknowledge - With Detail and Change	М	2/2	
BAK03	324	Purchase Order Number		М	1/22	
BAK04	373	Date	Purchase Order Date	М	8/8	
BAK05	328	Release Number	Reserved for future use (Blanket Orders)	0	1/30	
BAK08	127	Reference Identification	Seller's Order Number	0	1/30	
BAK09	373	Date	Acknowledgment Date	0	8/8	
N1		Name				
N101	98	Entity Identifier Code	ST = Ship To	М	2/3	
N102	93	Name	LabCorp Ship to Name	М	1/60	
N103	66	Identification Code Qualifier	92 = Assigned by Buyer	М	1/2	
N104	67	Identification Code	LabCorp Ship to Code	М	2/80	
N3		Address Information				
N301	166	Address Information	Mandatory Street Address	М	1/55	
N302	166	Address Information	Optional Street Address	М	1/55	
N4		Geographic Location				
N401	19	City Name		0	2/30	
N402	156	State or Province Code		0	2/2	
N403	116	Postal Code		0	3/15	
PO1		Baseline Item Data				
PO101	350	Assigned Identification	PO Line Number	М	1/20	
PO102	330	Quantity Ordered		М	1/15	
PO103	355	Unit of Measure Code		М	2/2	
PO104	212	Unit Price		М	1/17	
PO105	639	Basis of Unit Price	CT = Contract Price	0	2/2	
PO106	235	Product/Service ID Qualifier	VC = Vendor's Catalog Number	0	2/2	

Segment ID	Element ID	Name	Data Value	Attri	butes
PO107	234	Product/Service ID	Vendor's Catalog Number	0	1/48
PO108	235	Product/Service ID Qualifier	PI = Purchaser's Item Code	0	2/2
PO109	234	Product/Service ID	LabCorp Item Number	0	1/48
PO1010	235	Product/Service ID Qualifier	ZZ = Mutually Defined	0	2/2
PO1011	234	Product/Service ID	LabCorp Department/Center Code	0	1/48
ACK		Line Item Acknowledgment			
ACK01	668	Line Item Status Code	AC = Item Accepted and Shipped AR = Item Accepted/Released for Shipment DR = Item Accepted - Date Rescheduled IA = Item Accepted IB = Item Backordered IC = Item Accepted - Changes Made ID = Item Deleted IH = Item on Hold IP = Item Accepted - Price Changed IQ = Item Accepted - Quantity Changed IR = Item Rejected IS = Item Accepted - Substitution Made	M	2/2
ACK02	380	Quantity	is = nom/necepted Casemane/i Made	М	1/15
ACK03	355	Unit of Measure Code		М	2/2
СТТ		Transaction Totals			
CTT01	354	Number of line items		M	1/6
CTT02	347	Hash Total		0	
SE		Transaction Set Trailer			
SE01	96	Number of Included Segments		М	1/10
SE02	329	Transaction Set Control Number		М	4/9

Segment ID	Name	Req. Des.	Max Use	Loop Repeat
Header				
ST	Transaction Set Header	М	1	
BIG	Beginning Segment for Invoice	M	1	
REF	Reference Identification	0	12	
Detail				
IT1	Baseline Item Data (Invoice)	0	1	200,000
PID	Product/Item Description	0	1	1,000
Summary				
TDS	Total Monetary Value Summary	М	1	1
TX1	Tax Information	M	10	
SAC	Allowance, Charge or Service	0	1	25
СТТ	Transaction totals	0	1	
SE	Transaction set trailer	M	1	

Segment ID	Element ID	Name	Data Value	Attributes	
ST		Transaction set header			
ST01	143	Transaction set ID Code	810 = Invoice	М	3/3
ST02	329	Transaction set control number		М	4/9
BIG		Beginning Segment for Invoice			
BIG01	373	Invoice Date	CCYYMMDD	М	8/8
BIG02	76	Invoice Number	16 characters, Left justified	М	1/22
BIG03	373	Purchase Order Date	CCYYMMDD - Issue Date of PO	0	8/8
BIG04	324	Purchase Order Number	LabCorp Purchase Order Number	М	1/22
BIG05	328	Release Number	Reserved for future use (Blanket Orders)	0	1/30
BIG07	640	Transaction Type Code	DI = Debit Invoice DR = Debit Invoice CR = Credit Memo	Ο	2/2
REF		Reference Number			
REF01	128	Reference Identification Qualifier	SI = Shipper's Identifying Number for Shipment	М	2/3
REF02	127	Reference Identification	Unique number used on invoice and Packing Slip	M	1/30
IT1		Item Baseline Data			
IT101	350	Assigned Identification	LabCorp Purchase Order Line Number	М	1/20
IT102	358	Quantity Invoiced		М	1/10
IT103	355	Unit of Measure Code		М	2/2
IT104	212	Unit Price		М	1/17
IT106	235	Product/Service ID Qualifier	VC = Vendor's Catalog Number	0	2/2
IT107	234	Product/Service ID	Vendor's Catalog Number	0	1/48
PID		Product/Item Description			
PID01	349	Item Description Type	F = Free-Form	М	1/1
PID05	352	Description		0	1/80
TDS		Total Monetary Value Summary			
TDS01	610	Amount	Total Amount of Invoice (including charges, less allowances)	M	1/15

Segment ID	Element ID	Name Tax Information	Data Value	Attributes	
TXI					
TXI0I	963	Tax Type Code	LS = State and Local Sales Tax	М	2/2
			LT = Local Sales Tax		
TXI02	782	Monetary Amount		М	1/18
SAC		Service, Promotion, Allowance or Charge Information			
SAC01	248	Allowance or Charge Indicator	A = Allowance	М	1/1
			C = Charge		
SAC02	1300	Service, Promotion, Allowance or Charge Code	C510 = Dry Ice	М	4/4
			D240 = Freight		
			D540 = Hazardous Material Handling Fee		
			E290 - Layout/Design		
			H090 - Special Handling		
SAC05	610	Amount		0	1/15
SAC12	331	Allowance or Charge Method of Handling Code	ZZ = Mutually Defined	0	2/2
СТТ		Transaction Totals			
CTT01	354	Number of Line Items		М	1/6
SE		Transaction Set Trailer			
SE01	96	Number of Included Segments		М	1/10
		•			
SE02	329	Transaction Set Control Number		M	4/9