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EDI 810 File Format

Direct Commerce (DCI) supports the EDI 810 format for uploaded invoice transactions. This document describes our implementation of the EDI 810 format for invoicing Univar. Please also read and understand the **Merchandise Data Validation Rules** for Univar.

The file format described in this document is a general-purpose format that is in common industry use, and Univar has additional validation rules, requirements, and restrictions you should be aware of when building these files.
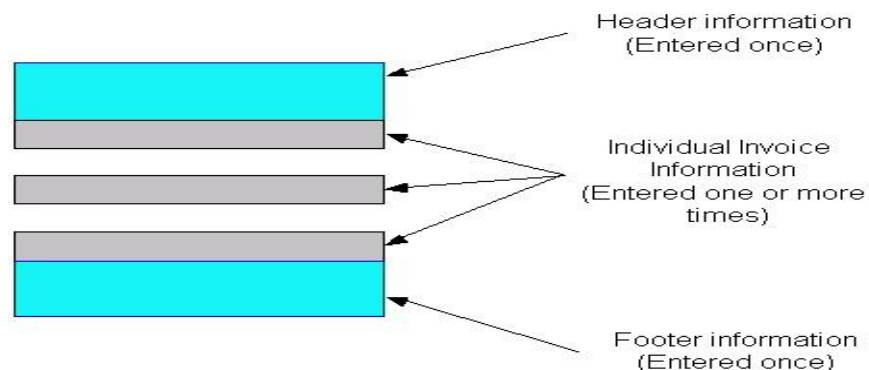
The EDI 810 specification is separated into logically distinct groups, which are composed of particular segment types.

There are a few assumptions made on the file layout. The carriage return character <CR> (ASCII character #13) is determined to be the end of each segment, which means there can be no <CR> characters in the data. Each field is separated by any character you chose. Blank spaces are interpreted as zero when supplied for numeric values and are trimmed when supplied for text values.

Minimum and maximum lengths given here are generally only relevant for fixed-width EDI formats. Vendors sending delimited files generally are able to send fields of unlimited size, though **Merchandise Data Validation Rules** for Univar should be consulted for constraints imposed regardless of the uploaded file format.

Please note: we only accept ONE ISA...IEA loop per input file. You may submit multiple invoices per file, each contained within their own ST...SE loops, but we cannot process more than one ISA...IEA loop per file.

File Structure

Header information (Entered once)

Individual Invoice Information (Entered one or more times)

Footer information (Entered once)

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These sections of the file (with their associated segment types) will be described in the following sections.

ISA – Interchange Control Header

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
ISA01	Authorization Information Qualifier	M	ID	2/2	'00'
ISA02	Authorization Information	M	AN	10/10	
ISA03	Security Information Qualifier	M	ID	2/2	'00'
ISA04	Security Information	M	AN	10/10	
ISA05	Interchange ID Qualifier	M	ID	2/2	'02'
ISA06	Interchange Sender ID	M	AN	15/15	Your vendor ID
ISA07	Interchange ID Qualifier	M	ID	2/2	ZZ
ISA08	Interchange Receiver ID	M	AN	15/15	see below
ISA09	Interchange Date	M	DT	6/6	YYMMDD
ISA10	Interchange Time	M	TM	4/4	HHMM
ISA11	Interchange Control Standards ID	M	ID	1/1	'U'
ISA12	Interchange Control Version Nbr.	M	ID	5/5	'00401'
ISA13	Interchange Control Number	M	N0	9/9	
ISA14	Acknowledgment Request	M	ID	1/1	'0'
ISA15	Test Indicator	M	ID	1/1	'T' – Test 'P' – Production
ISA16	Subelement Separator	M	AN	1/1	

Example: ISA*00**00**02*SENDER_ID*ZZ*BUYER_ID*020218*0400*U*00401*000000001*0*P*

GS – Functional Group Header

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
GS01	Functional Identifier Code	M	ID	2/2	'IN'

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GS02	Application Senders Code	M	AN	2/15	Your vendor ID
GS03	Application Receivers Code	M	AN	2/15	see below
GS04	Date	M	DT	8/8	CCYYMMDD
GS05	Time	M	TM	4/8	HHMM
GS06	Group Control Number	M	N0	1/9	
GS07	Responsible Agency Code	M	ID	1/2	'X'
GS08	Version/Release/Industry ID	M	AN	1/12	'004010'

Example: GS*IN*5279320*811600*20030926*1104*19*X*004010

Q: What qualifiers and ID's should I use in the ISA and GS?
A: Receiver ID = UNIVAR

ST – Transaction Set Header

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
ST01	Transaction Set Identifier Code	M	ID	3/3	'810'
ST02	Transaction Set Control Number	M	AN	4/9	

Example: ST*810*1116

BIG – Beginning Segment for Invoice

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
BIG01	Invoice Date	M	DT	8/8	CCYYMMDD (This value is ignored. In other words, the Invoice Date will be the date that the invoice is

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					submitted or uploaded electronically)
BIG02	Invoice Number	M	AN	1/15	
BIG03	PO Date	O	DT	8/8	CCYYMMDD
BIG04	PO Number	M	AN	1/15	
BIG05	Release Number	O	AN	1/3	
BIG06	Changed Order Sequence	O	AN	1/15	
BIG07	Transaction Type Code	O	AN	2/2	

Example: BIG*20030919*5690723100**X1055906

ITD – Terms for Invoice

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
ITD01	Terms Type Code	O	ID	2/2	
ITD02	Terms Basis Date Code	O	ID	1/2	
ITD03	Terms Discount Percent	O	R	1/6	
ITD04	Terms Discount Days Due	C	N0	1/3	
ITD04	Terms Net Days	O	AN	1/80	

Example: ITD***5**10**30*****0.5% 10 NET 30

NTE – Invoice Comments for Invoice

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:

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NTE01	Note Reference Code	O	AN	2/3	
NTE02	Description	O	AN	1/80	

Example: NTE*CM*This is an invoice header level comments

N1 – Name

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
N101	Entity Identifier Code	M	ID	2/2	'ST' – Ship-To 'BT' – Bill-To
N102	Name	M	AN	1/35	Organization name.

Example: N1*ST*Buyer Co, Inc.

N3 – Address Information

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
N301	Address Information	M	AN	1/35	
N302	Address Information	O	AN	1/35	

Example: N3*123 Main Street

N4 – Geographic Location

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
N401	City Name	I	AN	2/30	
N402	State or Province Code	I	ID	2/2	

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N403	Postal Code	I	ID	3/9	

Example: N4*Fernstown*NY*11201

DTM – Date Shipped

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
DTM01	Date/Time Qualifier	M	ID	3/3	011
DTM02	Date	M	DT	6/6	YYYYMMDD

Example: DTM*011*20150220

ITD – Payment Terms

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
ITD01	Unused	O	AN	2/30	
ITD02	Unused	O	ID	2/2	
ITD03	Discount Pct	M	R	1/3	
ITD04	Discount Due Date	M	DT	8/8	CCYYMMDD - The number of days until the invoice is due to receive a discount.
ITD05	Days Until Discount Expires	M	N	1/2	Number of days until the discount expires, for example, "5", "10", "15", etc.
ITD06	Net Due Date	M	DT	8/8	CCYYMMDD - The number of days until the invoice is due without a discount.

| ITD07 | Days Till Due | I | N | 1/2 | Number of days until payment is due, for example, "30", "45", etc. |

Example: ITD***2.0*20020701*10*20020801*30*

IT1 – Baseline Item Data

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
IT101	Assigned Identification	O	AN	1/6	Line Item Number
IT102	Quantity Ordered	M	R	1/10	
IT103	UOM	M	ID	2/2	
IT104	Unit Price	M	R	1/14	
IT105	Unused	O	AN	2/30	
IT106	Product/Service ID Qualifier	O	ID	2/2	BP – Buyer's Part Number IN – Buyer's Item Number MT – Major Product/Material/Machine Type PO – Purchase Order Number RN – Release Number SN – Serial Number VP – Vendor's Part Number
IT107	Product/Service ID	O	AN	1/30	
IT108	Line item discount amount	O	R	1/10	Line item discount amount (this value should be a negative number if you would like to indicate a discount)
IT109	Line item freight amount	O	R	1/10	Line item freight amount

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IT110	Line item deposit amount	O	R	1/10	Line item deposit amount
IT111	Line item tax amount	O	R	1/10	Line item tax amount
IT112	Line item other amount	O	R	1/10	Line item other amount

Example: IT1*1*1*EA*53.00**VP*AA0004-250UCI

PID – Product/Item Description

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
PID01	Item Description Type	M	ID	1/1	'F' – Free-Form
PID02	Unused	O	R	1/10	
PID03	Unused	O	ID	2/2	
PID04	Unused	O	R	1/14	
PID05	Item Description	O	AN		
PID06	Item Comment	O	AN		

Note: only **one** PID segment is supported per each line item (IT1 segment)

Example: PID*F*001***Sterile tubing*

SAC – Service, Promotion, Allowance, or Charge Information

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
SAC01	Allowance or Charge Indicator	M	ID	1/1	'C' – Charge , 'A' - Allowance
SAC02	Service, Promotion, Allowance, or Charge Code	O	ID	4/4	S040 or S0010 – Discount C310 – Discount

					D240 – Freight charges H750 – Sales Tax
SAC05	Amount	O	N2	1/15	
SAC12	Item Description Type	O	ID	2/2	'06' – Charge to be Paid by Customer

Example: SAC*C*D240***2995

Example: SAC*C*H750***1300

TDS – Total

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
TDS	Total invoice amount	M	N2	1/15	

Example: TDS*4072

The invoice amount includes all charges: sales tax, freight charges and misc. charges. However, we need to know how this amount has been calculated so the SAC segment has to be filled for every charge, tax that have been included in the invoice amount.

SE – Functional Group Trailer

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:
GE01	Number of Transaction Sets Incl.	M	NO	1/6	
GE02	Group Control Number	M	NO	1/9	

Example: GE*222*112

IEA – Interchange Control Trailer

Reference:	Field Name:	Req:	Type:	Length:	Field Contents:

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IEA01	Nbr Of Included Functional Groups	M	NO	1/5	
IEA02	Interchange Control Number	M	NO	9/9	

Example: IEA*1*000132382