EDI ENGAGEMENT
{VENDOR NAME}

Purchase Order
(850)

X12 4010 Implementation Guidelines

Author: Tony LeBlanc

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Last Saved by: Tony LeBlanc

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Change Log

Person	Date	Description
Tony LeBlanc	Feb 23, 2014	First Draft
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Daniel Venton	Dec 17 2018	Rebranding
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1. Purpose

This document will detail only those segments and elements that are specific to transactions with this vendor. This is not meant to be an exhaustive detail of every segment and element that will be used in the document type. It will only provide information on specific detail where exact definition is needed to trade with this vendor.

2. Segment ISA - Interchange Control Header

Element Position	Ele. ID	Element Name	Req	Type	Length	Value or Usage
ISA-05	I05	Sender ID Qualifier	M	ID	2/2	**ZZ**
ISA-06	I06	Interchange Sender ID	M	ID	15/15	Health Authority system specific ID
ISA-07	I05	Interchange Receiver ID Qualifier	M	ID	2/2	**ZZ**
ISA-08	I07	Interchange Receiver ID	M	ID	15/15	Vendor ISA ID
EXAMPLE	**ISA*00* *00* *ZZ*HA System Specific ISA ID*ZZ*Vendor ISA ID*020201*1345*U*00401*000000789*0*P*>~**					

3. Segment GS - Functional Group Header

Element Position	Ele. ID	Element Name	Req	Type	Length	Value or Usage
GS-01	479	Functional ID	M	ID	2/2	**PO** – Purchase Order 850
GS-02	142	Application Sender ID	M	AN	2/15	Health Authority system specific ID
GS-03	124	Application Receiver ID	M	AN	2/15	Vendor GS ID
EXAMPLE	**GS*PO*HA System Specific GS ID*Vendor GS ID* 20020201*1345*789*X*004010~**					

4. Segment GE - Functional Group Trailer

Element Position	Ele. ID	Element Name	Req	Type	Length	Value or Usage
GE01	97	Number of Included Transaction Sets	M	N0	01/06	Total number of ST segments
GE02	28	Data Interchange Control Number	M	N0	01/09	Will be the same as GS06
EXAMPLE		**GE*1*789~**				

5. Segment IEA - Interchange Control Trailer

Element Position	Ele. ID	Element Name	Req	Type	Length	Value or Usage
IEA01	I16	Number of Included Groups	M	N0	01/05	Total number of GS segments
IEA02	I12	Interchange Control Number	M	AN	01/60	Will be the same as ISA13
EXAMPLE		**IEA*1*000000789~**				

6. Summary Layout

Segment Usage (U):
M = Mandatory, O = Optional, C = Conditional

HEADER								
			Version 4010			*PHSA*		
Segment ID		Name	U	Max Loop	Max Use	U	Max Loop	Max Use
ST	010	Transaction Set Header	M		1	M		1
BEG	020	Beginning Segment for Invoice	M		1	M		1
PER	060	Administrative Communications	O		1	M		1
DTM	150	Date/Time Reference	O		10	M		1
Loop ID – N9				**1000**			**1000**	
N9	330	Reference Identification	O		1	O		1
MSG	300	Message Text	O		1000	O		1000
Loop ID – N1				**200**			**3**	
N1	310	Name	O		1	M		1
N3	330	Address Information	O		2	O		1
N4	340	Geographical Location	O		>1	O		1
DETAIL								
Loop ID – PO1				**100 000**			**100 000**	
PO1	010	Baseline Item Data	M		1	M		1
Loop ID – PO1/PID				**1000**			**1000**	
PID	050	Product/Item Description	O		1	O		2
Loop ID – PO1/N9				**1000**			**1000**	
N9	330	Reference Identification	O		1	O		1
MSG	475	Message Text	O		1000	O		1000
Loop ID – PO1/N1				**200**			**3**	
N1	310	Name	O		1	M		1
N3	330	Address Information	O		2	O		1
N4	340	Geographical Location	O		>1	O		1
Summary								
Trailer								
SE	020	Transaction Set Trailer	M		1	M		1

7. Detail Layout

ANSI Specification

Element Number (#):
Element identification number as assigned by standards committee (ANSI)

Element Usage (U):
M = Mandatory, **O** = Optional, **C** = Conditional, **X** = Dependency – please refer to above table as to usage, the usage identifiers below simply mean that if the segment is used, then the usage of element applies.

Element Type (TY):
ID Identifier, **AN** Alpha-numeric String, **DT** Date, **TM** Time, **Nn** Numeric (n decimals), **R** Decimal, **B** Binary

Minimum/Maximum (S):
n/n (fixed length of n), **n/p** (minimum length of n and maximum length of p)

System Requirement indicators

Meditech Usage (MT):
Y Provided, N not provided.

PeopleSoft Usage (PS):
Y Provided, N not provided.

System Support Requirements

This document also includes ERP specific data in order to have a record of them, but the primary focus is on creating a specification that is compatible with every Supply Chain ERP. In our lists we've indicated these with a color and an indicator symbol. Please only use the qualifiers coded in **black**, as they're usable in our ordering systems province-wide.

Compliancy	Color indicator	Symbol Indicator
Meditech	RED	]
Peoplesoft	BLUE	>
All Systems	BLACK	

Comment/Values
PHSA may use any or all of the values listed in comment/values, but will favor mapping using elements in Black, as those are consistent across all five health authorities. This document will be constrained to only those values that PHSA can support.

7.1. Segment – ST

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Y	Y	**850** – Purchase Order
ST02	329	Transaction set Control Number	M	AN	4/9	Y	Y	Unique control number for each transaction
EXAMPLE		**ST*850*1234567~**						

7.2. Segment – BEG

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
BEG01	353	Transaction Set Purpose Code	M	ID	2/2	Y	Y	**00**- Original
BEG02	92	Purchase Order Type Code	M	ID	2/2	Y	Y	**SA** – Stand Alone **System Specific** > **RO** – Rush Order > **ST** – Standing Order > **BE** – Blanket Order > **BK** – Blanket Order (quantity firm) > **NE** – New Order
BEG03	324	Purchase Order Number	M	AN	1/22	Y	Y	Order Number assigned by Sender (trading partner) BOTH Meditech and PS allow a maximum of 10 characters
BEG04	328	Release Number	O	AN	1/30	N	O	**System Specific** > Release Number for Standing or >Blanket POs
BEG05	373	Date	M	DT	8/8	Y	Y	Purchase Order Entry Date (CCYYMMDD)
EXAMPLE		**BEG*00*SA*12345678**20020101~**						

- At present, PHSA SC does not send POs configured for Standing or Blanket Orders, 850s will follow formatting for standalone orders.

7.3. Segment – PER

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
PER01	366	Contact Function Code	M	ID	2/2	Y	Y	**BD** - Buyer Name or Department
PER02	93	Name	O	AN	1/60	Y	Y	Buyers Name
PER03	365	Communication Number Qualifier	X	ID	2/2	Y	Y	TE - Telephone
PER04	364	Communication Number	X	AN	2/256	Y	Y	Buyers Phone Number
PER05	365	Communication Number Qualifier	X	ID	2/2	N	Y	**EA** - Internet Email Address
PER06	364	Communication Number	X	AN	2/256	N	Y	Buyers Email address
PER07	365	Communication Number Qualifier	X	ID	2/2	N	Y	**WF** - Work Fax Number
PER08	364	Communication Number	X	AN	2/256	N	Y	Buyers Fax Number
PER09	443	Contact Inquiry Reference	O	AN	1/20	N	?	Ship To Contact Number
EXAMPLE		**PER*BD*John Doe*EA*john.doe@phsa.ca*WP*2504916301*WF*2504916300~**						

7.4. Segment – DTM

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
DTM01	374	Date/Time Qualifier	M	ID	3/3	Y	Y	**002** – Delivery Requested by
DTM02	373	Date	X	ID	8/8	Y	Y	CCYYMMDD
EXAMPLE	**DTM*002*20140101~**							

N9 Loop

7.5. Segment – N9

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
N901	128	Reference Identification Qualifier	M	ID	2/3	Y	Y	L1
N902	127	Reference Identification	X	AN	1/80	Y	Y	PO Comments
EXAMPLE	**N9^L1^PO COMMENTS~**							

7.6. Segment – MSG

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
MSG01	933	Free-form Message text	M	AN	1/264	Y	Y	Free form message text
EXAMPLE	**MSG^****** IMPORTANT ** ORDER CONFIRMATION REQUIRED ******~**							

N9 Loop Example
N9^L1^PO COMMENTS~
MSG^****** IMPORTANT ** ORDER CONFIRMATION REQUIRED ******~
MSG^***** KINDLY PROVIDE APPROXIMATE ETA IF POSSIBLE *****~
MSG^********** Fax: (250) 123-1234 **********~
MSG^Please advise John Doe, Purchasing Clerk~
MSG^of any backorder items with ETAs~
MSG^Tel: (250) 123-1234 Email: John.Doe@phsa.ca~
MSG^********** 48 HOUR NOTIFICATION **********~

If the supplier wishes to receive the most possible POs via EDI, MSG Segments must be loaded and displayable in the supplier's order management system to those that are processing orders. Due to ordering system limitations this is the only place PHSA Supply Chain can put certain instructions on the order such as: special handling, shipping instructions, and urgency indicators. If the supplier is unable to display MSG data to the parties processing the orders, these exceptional orders will need to be placed via other means, such as email or fax.

N1 Loop

7.7. Segment - N1

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
N101	98	Entity Identifier Code	M	ID	2/3	Y	Y	**ST –** Ship To **BT** – Bill To **VN** – Vendor
N102	93	Name	M	AN	1/60	Y	Y	Corresponding name
N103	66	Identification Code Qualifier	C	ID	1/2	Y	Y	**92** - Assigned by Buyer or Buyers Agent (for ST and BT) **01** – D-U-N-S Number **UL** - GLN
N104	67	Identification Code	C	ID	2/80	Y	Y	GLN Number for Location
EXAMPLE	**N1*ST*Location Name here*UL*GLN~**							

7.8. Segment – N3

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
N301	166	Address Information	M	AN	1/55	Y	Y	Address – compliant with Canada Post of US Postal service
N302	166	Address Information	M	AN	1/55	Y	Y	Address – compliant with Canada Post of US Postal service
EXAMPLE	**N3*1234 First St.*Bld #101~**							

7.9. Segment – N4

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
N401	19	City Name	O	AN	2/30	Y	Y	Address
N402	156	State Or Province Code	X	ID	2/2	Y	Y	Address
N403	116	Postal Code	X	ID	3/15	Y	Y	Postal Code
N404	26	Country Code	X	ID	2/3	Y	Y	Compliant with GS1 country code
EXAMPLE	**N4*City Name*Prov*Postal Code*Country Code~**							

- **N1** segment should loop three times, Once for each address type ST, BT and VN. See example below.

N1 Loop Example
N1*ST*Location Name here*UL*GLN~ N3*1234 First St.*Bld #101~ N4*City Name*Prov*Postal Code*Country Code~ N1*BT*Location Name here*UL*GLN~ N3*1234 First St.*Bld #101~ N4*City Name*Prov*Postal Code*Country Code~ N1*VN*Location Name here*UL*GLN~ N3*1234 First St.*Bld #101~ N4*City Name*Prov*Postal Code*Country Code~

7.10. Segment – Loop PO1

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
PO101	350	Assigned Identification	M	AN	1/20	Y	Y	Purchase order item line number, e.g.: 1, 2, 3, 4, etc
PO102	330	Quantity Ordered	M	R	1/15	Y	Y	Number
PO103	355	Unit or Basis For Measurement Code	M	ID	2/2	Y	Y	See (Appendix table 1 – Acceptable UOM Values)
PO104	212	Unit Price	O	N4	1/17	Y	Y	Item's unit price
PO106	235	Product/Service ID Qual.	C	ID	2/2	Y	Y	**VN** – Vendor's item number
PO107	234	Product/Service ID	M	AN	1/48	Y	Y	Vendor item number
PO108	235	Product/Service ID Qual.	C	ID	2/2	Y	Y	**IN** – Customer's item number
PO109	234	Product/Service ID	M	AN	1/48	Y	Y	Customer's item number
PO110	235	Product/Service ID Qual.	X	ID	2/2	M	M	UK – GTIN 14
PO111	234	Product/Service ID	X	AN	1/80	M	M	GTIN Number
EXAMPLE		**PO1*1*5*EA*12.34**VN*JK4872*IN*4872~**						

7.11. Segment – PID

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
PID01	349	Item Description Type	M	ID	1/1	Y	Y	**F** – free-form
PID05	352	Description	X	AN	1/80	Y	Y	Item description
EXAMPLE		**PID*F****WIDGET DESCRIPTION ONE~ PID*F****WIDGET DESCRIPTION TWO~**						

- **PID** should loop a maximum of two times, with each loop containing a self contained description

N9 Loop

7.12. Segment – N9

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
N901	128	Reference Identification Qualifier	M	ID	2/3	Y	Y	L1
N902	127	Reference Identification	X	AN	1/80	Y	Y	PO Comments
EXAMPLE		**N9^L1^PO COMMENTS~**						

7.13. Segment – MSG

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
MSG01	933	Free-form Message text	M	AN	1/264	Y	Y	Free form message text
EXAMPLE		**MSG^****** IMPORTANT ** ORDER CONFIRMATION REQUIRED ******~**						

N9 Loop Example
N9^L1^PO COMMENTS~ MSG^****** IMPORTANT ** ORDER CONFIRMATION REQUIRED ******~ MSG^***** KINDLY PROVIDE APPROXIMATE ETA IF POSSIBLE *****~ MSG^********** Fax: (250) 123-1234 **********~ MSG^Please advise John Doe, Purchasing Clerk~ MSG^of any backorder items with ETAs~ MSG^Tel: (250) 123-1234 Email: John Doe@phsa.ca~ MSG^********** 48 HOUR NOTIFICATION **********~

If the supplier wishes to receive the most possible POs via EDI, MSG Segments must be loaded and displayable in the supplier's order management system to those that are processing orders. Due to ordering system limitations this is the only place PHSA Supply Chain can put certain instructions on the order such as: special handling, shipping instructions, and urgency indicators. If the supplier is unable to display MSG data to the parties processing the orders, these exceptional orders will need to be placed via other means, such as email or fax.

7.14. Segment – CTT

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
CTT01	354	Number of Line Items	M	N0	1/6	Y	Y	Total number of LIN segments in transaction
CTT02	347	Hash Total	O	R	1/10	Y	Y	Hash total PO102 quantities
EXAMPLE		**CTT*3*125~**						

7.15. Segment – SE

SEQ	#	Element Name	U	TY	S	MT	PS	Comment/Values
SE01	96	Number of Included Segments	M	N0	1/10	Y	Y	Total number of segments in transaction (inc. ST & SE segments)
SE02	329	Transaction Set Control Number	M	AN	4/9	Y	Y	Same value as ST02
EXAMPLE		**SE*35*789000001~**						

8. Sample Message

```
ISA*00*          *00*          *ZZ* HASystem  Specific ISA  ID*ZZ* Vendor ISA ID*
020201*1345*U*00401*000000789*0*P*>~
GS*PO* HA System  Specific GS  ID*Vendor GS ID* 20020201*1345*789*X*004010~
ST*850*789000001~
BEG^00^SA^1326062^^20140311^^~
PER*BD*Doreen Boehm*EA*doreen.boehm@phsa.ca*WP*250-784-7387*WF*250-784-7377~
N9^L1^PO COMMENTS~
MSG^PLEASE CONFIRM RECEIPT OF THIS ORDER, PRICING & DELIVERY~
MSG^DATE BY RETURN ***** FAX: 250-784-7377 *****~
MSG^DIRECT ANY QUESTIONS TO DOREEN BOEHM @ 250-784-7387 OR SEND~
MSG^BY E:MAIL TO doreen.boehm@phsa.ca~
N1*ST*Location Name here*UL*GLN~
N3*1234 First St.*Bld #101~
N4*City Name*Prov*Postal Code*Country Code~
N1*BT*Location Name here*UL*GLN~
N3*1234 First St.*Bld #101~
N4*City Name*Prov*Postal Code*Country Code~
N1*VN*Location Name here*UL*GLN~
N3*1234 First St.*Bld #101~
N4*City Name*Prov*Postal Code*Country Code~
PO1^1^1^EA^8.1500^CP^VC^347-9106-02^IN^5172015^CG^5.PR^UK^65498732165498~
PID^F^^^^SPLINT, COLLES YOUTH (R)    > UNPADDED~
N9^L1^PO COMMENTS~
MSG^This is some text here~
PO1^2^1^BX^15.5100^CP^VC^195-LPL33^IN^5190111^CG^5.PR^UK^65498732165498~
PID^F^^^^PLASTER, BANDAGE7.5CM X2.7M >*~
N9^L1^PO COMMENTS~
MSG^This is some text here~
PO1^3^1^RL^12.0000^CP^VC^175-N-200^IN^5220081^CG^5.PR^UK^65498732165498~
PID^F^^^^LABEL, MEDICATION ADDED     >* FLOURESCENT RED 1.75 X 2.5"~
N9^L1^PO COMMENTS~
MSG^This is some text here~
PO1^14^2^CA^67.8000^CP^VC^DUP9322^IN^0003530^CG^ALPHA^UK^65498732165498~
PID^F^^^^ROLL,BANDAGE,GAUZE,6-PLY    >* 11.4cmx3.7M,STERILE,GAZETEC~
N9^L1^PO COMMENTS~
MSG^This is some text here~
N1*ST*Location Name here*UL*GLN~
N3*1234 First St.*Bld #101~
N4*City Name*Prov*Postal Code*Country Code~
. . .

CTT*786~
SE*4721*789000001~
GE*1*789~
IEA*1*000000789~
```