

Harbor Foodservice 810 Invoice

X12/V5010/810: 810 Invoice

Author:	SPS Commerce
Company:	Harbor Foodservice
Publication:	2/19/2024
Modified:	2/19/2024

810 Invoice

Functional Group=IN

Purpose: This X12 Transaction Set contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	ST	Transaction Set Header	M	1			Must use
0200	BIG	Beginning Segment for Invoice	M	1			Must use
0500	REF	Reference Information	M	5			Must use
0600	PER	Administrative Communications Contact	O	1			Used
LOOP ID - N1					<u>2</u>		
0700	N1	Party Identification	M	1			Must use
0800	N2	Additional Name Information	O	1			Used
0900	N3	Party Location	M	2			Must use
1000	N4	Geographic Location	M	1			Must use
1300	ITD	Terms of Sale/Deferred Terms of Sale	O	1			Used
1400	DTM	Date/Time Reference	M	1			Must use
LOOP ID - N9					<u>1</u>		
2400	N9	Extended Reference Information	M	1			Must use
2500	MSG	Message Text	M	1			Must use

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - IT1					<u>200000</u>		
0100	IT1	Baseline Item Data (Invoice)	M	1			Must use
0300	IT3	Additional Item Data	C	1			Used
0500	CTP	Pricing Information	O	1			Used
LOOP ID - PID					<u>2</u>		
0600	PID	Product/Item Description	M	1			Must use
LOOP ID - SAC					<u>25</u>		
1800	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	TDS	Total Monetary Value Summary	M	1			Must use

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - SAC					25		
0400	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
0700	CTT	Transaction Totals	O	1		N3/0700	Used
0800	SE	Transaction Set Trailer	M	1			Must use

Notes:

3/0700 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used CTT02 is the hash total of the quantities invoiced (IT102) for each IT1 segment.

General Usage:

Invoice (810)– Harbor Foodservice is requiring suppliers to provide electronic Invoices for orders shipped. This information will be used by to automate the receipt of invoices, use the three way matching functionality against the Inventory Receipt and Purchase Order and apply the invoice into their accounts payable system for timely payments to the suppliers. The suppliers are to create an invoice per single PO.

ST Transaction Set Header

Pos: 0100	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set

CodeList Summary (Total Codes: 318, Included: 1)

Code Name

810 Invoice

ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

BIG Beginning Segment for Invoice

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

Purpose: To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year						
User Note 1: <i>Invoice Date</i>						
BIG02	76	Invoice Number	M	AN	1/22	Must use
Description: Identifying number assigned by issuer						
BIG03	373	Date	O	DT	8/8	Used
Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year						
User Note 1: <i>Purchase Order Date</i>						
BIG04	324	Purchase Order Number	M	AN	1/22	Must use
Description: Identifying number for Purchase Order assigned by the orderer/purchaser						

Semantics:

- BIG01 is the invoice issue date.
- BIG03 is the date assigned by the purchaser to purchase order.
- BIG10 is the consolidated invoice number associated with the invoice identified in BIG02. When BIG07 contains code CI (Consolidated Invoice), BIG02 will contain the consolidated invoice number and BIG10 is not used.

Comments:

- BIG07 is used only to further define the type of invoice when needed.

REF Reference Information

Pos: 0500	Max: 5
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1731, Included: 6)

Code Name

2I Tracking Number

User Note 1:

Optional - Please provide a Bill of Lading or Carrier Pro/Tracking Number if available.

BM Bill of Lading Number

User Note 1:

Optional - Please provide a Bill of Lading or Carrier Pro/Tracking Number if available.

CN Carrier's Reference Number (PRO/Invoice)

User Note 1:

Optional - Please provide a Bill of Lading or Carrier Pro/Tracking Number if available.

CO Customer Order Number

User Note 1:

Optional - Should be returned if sent on the PO / PO Change

IA Internal Vendor Number

User Note 1:

Mandatory - Harbor Foodservice internal Vendor ID

VN Vendor Order Number

User Note 1:

Optional - Vendor's internal order number

REF02	127	Reference Identification	M	AN	1/50	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

User Note 1:

One iteration of the REF segment is required for the Harbor Foodservice internal vendor ID (REF02, REF01=IA).

Please provide a Bill of Lading or Carrier Pro/Tracking Number if available.

PER Administrative Communications Contact

Pos: 0600	Max: 1
Heading - Optional	
Loop: N/A	Elements: 8

User Option (Usage): Used

Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
<p>Description: Code identifying the major duty or responsibility of the person or group named</p> <p>CodeList Summary (Total Codes: 238, Included: 1)</p> <p><u>Code</u> <u>Name</u></p> <p>IC Information Contact</p>						
PER02	93	Name	O	AN	1/60	Used
<p>Description: Free-form name</p>						
PER03	365	Communication Number Qualifier	X	ID	2/2	Used
<p>Description: Code identifying the type of communication number</p> <p>CodeList Summary (Total Codes: 42, Included: 1)</p> <p><u>Code</u> <u>Name</u></p> <p>TE Telephone</p>						
PER04	364	Communication Number	X	AN	1/256	Used
<p>Description: Complete communications number including country or area code when applicable</p>						
PER05	365	Communication Number Qualifier	X	ID	2/2	Used
<p>Description: Code identifying the type of communication number</p> <p>CodeList Summary (Total Codes: 42, Included: 1)</p> <p><u>Code</u> <u>Name</u></p> <p>EM Electronic Mail</p>						
PER06	364	Communication Number	X	AN	1/256	Used
<p>Description: Complete communications number including country or area code when applicable</p>						
PER07	365	Communication Number Qualifier	X	ID	2/2	Used
<p>Description: Code identifying the type of communication number</p> <p>CodeList Summary (Total Codes: 42, Included: 1)</p> <p><u>Code</u> <u>Name</u></p> <p>FX Facsimile</p>						
PER08	364	Communication Number	X	AN	1/256	Used
<p>Description: Complete communications number including country or area code when applicable</p>						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		applicable				

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

Loop Party Identification

Pos: 0700	Repeat: 2
Mandatory	
Loop: N1	Elements: N/A

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0700	N1	Party Identification	M	1		Must use
0800	N2	Additional Name Information	O	1		Used
0900	N3	Party Location	M	2		Must use
1000	N4	Geographic Location	M	1		Must use

User Note 1:

One iteration of the N1 loop is required for the Ship To (N101=ST) name and address information.

N1 Party Identification

Pos: 0700	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identifier Code	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

CodeList Summary (Total Codes: 1500, Included: 2)

Code Name

RI Remit To

User Note 1:

Optional

ST Ship To

User Note 1:

Mandatory

N102	93	Name	M	AN	1/60	Must use
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Description: Free-form name

N103	66	Identification Code Qualifier	X	ID	1/2	Used
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Description: Code designating the system/method of code structure used for Identification Code (67)

User Note 1: *Not used when N101 = RI.*

CodeList Summary (Total Codes: 241, Included: 4)

Code Name

1 D-U-N-S Number, Dun & Bradstreet

9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix

92 Assigned by Buyer or Buyer's Agent

UL Global Location Number (GLN)

N104	67	Identification Code	X	AN	2/80	Used
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Description: Code identifying a party or other code

User Note 1: *Not used when N101 = RI.*

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2. N105 and N106 further define the type of entity in N101.

N2 Additional Name Information

Pos: 0800	Max: 1
Heading - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify additional names

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name	M	AN	1/60	Must use
		Description: Free-form name				
N202	93	Name	O	AN	1/60	Used
		Description: Free-form name				

N3 Party Location

Pos: 0900	Max: 2
Heading - Mandatory	
Loop: N1	Elements: 2

User Option (Usage): Must use

Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 1000	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Must use

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	M	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	M	ID	3/15	Must use
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country				

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. C0605 - If N406 is present, then N405 is required.
3. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

ITD Terms of Sale/Deferred Terms of Sale

Pos: 1300	Max: 1
Heading - Optional	
Loop: N/A	Elements: 9

User Option (Usage): Used

Purpose: To specify terms of sale

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD01	336	Terms Type Code	O	ID	2/2	Used

Description: Code identifying type of payment terms

CodeList Summary (Total Codes: 77, Included: 4)

Code Name

- 01 Basic
- 05 Discount Not Applicable
- 14 Previously agreed upon
- 18 Fixed Date, Late Payment Penalty Applies

ITD02	333	Terms Basis Date Code	O	ID	1/2	Used
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Description: Code identifying the beginning of the terms period

CodeList Summary (Total Codes: 17, Included: 3)

Code Name

- 1 Ship Date
- 3 Invoice Date
- 15 Receipt of Goods

ITD03	338	Terms Discount Percent	X	R	1/6	Used
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Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date

ITD04	370	Terms Discount Due Date	X	DT	8/8	Used
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Description: Date payment is due if discount is to be earned expressed in format CCYYMMDD where CC represents the first two digits of the calendar year

ITD05	351	Terms Discount Days Due	X	N0	1/3	Used
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Description: Number of days in the terms discount period by which payment is due if terms discount is earned

ITD06	446	Terms Net Due Date	O	DT	8/8	Used
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Description: Date when total invoice amount becomes due expressed in format CCYYMMDD where CC represents the first two digits of the calendar year

ITD07	386	Terms Net Days	O	N0	1/3	Used
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Description: Number of days until total invoice amount is due (discount not applicable)

ITD08	362	Terms Discount Amount	X	N2	1/10	Used
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Description: Total amount of terms discount

ITD12	352	Description	O	AN	1/80	Used
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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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Description: A free-form description to clarify the related data elements and their content

User Note 1: *Terms Description*

Syntax Rules:

1. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

DTM Date/Time Reference

Pos: 1400	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time

CodeList Summary (Total Codes: 1280, Included: 1)

Code Name

011 Shipped

DTM02	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

Loop Extended Reference Information

Pos: 2400	Repeat: 1
Optional	
Loop: N9	Elements: N/A

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
2400	N9	Extended Reference Information	M	1		Must use
2500	MSG	Message Text	M	1		Must use

N9 Extended Reference Information

Pos: 2400	Max: 1
Heading - Mandatory	
Loop: N9	Elements: 2

User Option (Usage): Must use

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1731, Included: 1)

Code Name

L1 Letters or Notes

N902	127	Reference Identification	M	AN	1/50	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

User Note 1:

N902 must contain the following 3 character code to identify the type of note to follow in MSG01.

. GEN: General Note

Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.
2. C0605 - If N906 is present, then N905 is required.

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

MSG Message Text

Pos: 2500	Max: 1
Heading - Mandatory	
Loop: N9	Elements: 1

User Option (Usage): Must use

Purpose: To provide a free-form format that allows the transmission of text information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MSG01	933	Free-form Message Text	M	AN	1/264	Must use

Description: Free-form message text

User Note 1:

If N902 =

. GEN - MSG01 is a General Note

Syntax Rules:

1. C0302 - If MSG03 is present, then MSG02 is required.

Semantics:

1. MSG03 is the number of lines to advance before printing.

Comments:

1. MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
2. If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

Loop Baseline Item Data (Invoice)

Pos: 0100	Repeat: 200000
Mandatory	
Loop: IT1	Elements: N/A

User Option (Usage): Must use

Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	IT1	Baseline Item Data (Invoice)	M	1		Must use
0300	IT3	Additional Item Data	C	1		Used
0500	CTP	Pricing Information	O	1		Used
0600		Loop PID	M		2	Must use
1800		Loop SAC	O		25	Used

IT1 Baseline Item Data (Invoice)

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: IT1	Elements: 11

User Option (Usage): Must use

Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT101	350	Assigned Identification	M	AN	1/20	Must use

Description: Alphanumeric characters assigned for differentiation within a transaction set

User Note 1: The line sequence number must be sent back on all return documents and must match what was sent on the PO (EDI 850 element PO101) or POC (EDI 860 element POC01).

IT102	358	Quantity Invoiced	M	R	1/15	Must use
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Description: Number of units invoiced (supplier units)

IT103	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CodeList Summary (Total Codes: 844, Included: 9)

Code Name

- BX Box
- CA Case
- CT Carton
- DZ Dozen
- EA Each
- KG Kilogram
- KT Kit
- LB Pound
- RL Roll

IT104	212	Unit Price	M	R	1/17	Must use
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Description: Price per unit of product, service, commodity, etc.

User Note 1: Gross Purchase Price

IT105	639	Basis of Unit Price Code	O	ID	2/2	Used
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Description: Code identifying the type of unit price for an item

User Note 1: IT105 should be returned if sent on the PO / PO Change

CodeList Summary (Total Codes: 91, Included: 3)

Code Name

PK Price per Kilogram

User Note 1:

Used for catch weight items (invoiced by KG)

PP Price per Pound

User Note 1:

Code Name

Used for catch weight items (invoiced by LB)

UM Price per Unit of Measure

User Note 1:

Used for non-catch weight items

IT106 235 **Product/Service ID Qualifier** M ID 2/2 Must use

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

User Note 1: *One of UPC/GTIN or Vendor Part Number must always be sent. UPC/GTIN is preferred, but if not available, a vendor part number must be sent.*

CodeList Summary (Total Codes: 519, Included: 4)

Code Name

- UA U.P.C./EAN Case Code (2-5-5)
- UI U.P.C. Consumer Package Code (1-5-5)
- UK GTIN 14-digit Data Structure
- VN Vendor's (Seller's) Item Number

IT107 234 **Product/Service ID** M AN 1/48 Must use

Description: Identifying number for a product or service

IT108 235 **Product/Service ID Qualifier** X ID 2/2 Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 519, Included: 5)

Code Name

SK Stock Keeping Unit (SKU)

User Note 1:

Harbor Foodservice assigned Item Number

- UA U.P.C./EAN Case Code (2-5-5)
- UI U.P.C. Consumer Package Code (1-5-5)
- UK GTIN 14-digit Data Structure
- VN Vendor's (Seller's) Item Number

IT109 234 **Product/Service ID** X AN 1/48 Used

Description: Identifying number for a product or service

IT110 235 **Product/Service ID Qualifier** X ID 2/2 Used

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 519, Included: 5)

Code Name

SK Stock Keeping Unit (SKU)

User Note 1:

Harbor Foodservice assigned Item Number

- UA U.P.C./EAN Case Code (2-5-5)
- UI U.P.C. Consumer Package Code (1-5-5)

Code Name

UK GTIN 14-digit Data Structure
 VN Vendor's (Seller's) Item Number

IT111	234	Product/Service ID	X	AN	1/48	Used
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Description: Identifying number for a product or service

Syntax Rules:

1. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.
2. P0607 - If either IT106 or IT107 is present, then the other is required.
3. P0809 - If either IT108 or IT109 is present, then the other is required.
4. P1011 - If either IT110 or IT111 is present, then the other is required.
5. P1213 - If either IT112 or IT113 is present, then the other is required.
6. P1415 - If either IT114 or IT115 is present, then the other is required.
7. P1617 - If either IT116 or IT117 is present, then the other is required.
8. P1819 - If either IT118 or IT119 is present, then the other is required.
9. P2021 - If either IT120 or IT121 is present, then the other is required.
10. P2223 - If either IT122 or IT123 is present, then the other is required.
11. P2425 - If either IT124 or IT125 is present, then the other is required.

Semantics:

1. IT101 is the line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

User Note 1:

The item identifiers from the Purchase Order must be returned on the Invoice.

IT3 Additional Item Data

Pos: 0300	Max: 1
Detail - Conditional	
Loop: IT1	Elements: 2

User Option (Usage): Used

Purpose: To specify additional item details relating to variations between ordered and shipped quantities, or to specify alternate units of measures and quantities

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT301	382	Number of Units Shipped	M	R	1/10	Must use

Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set

IT302	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CodeList Summary (Total Codes: 844, Included: 2)

Code Name

CA	Case
EA	Each

Syntax Rules:

1. P0102 - If either IT301 or IT302 is present, then the other is required.
2. R01030405 - At least one of IT301, IT303, IT304 or IT305 is required.

User Note 1:

If invoicing in pounds or kilograms (IT103 = LB or KG), then the IT3 segment is required to communicate the number of eches, or cases, the invoice is in relation to.

CTP Pricing Information

Pos: 0500	Max: 1
Detail - Optional	
Loop: IT1	Elements: 1

User Option (Usage): Used

Purpose: To specify pricing information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTP08	782	Monetary Amount	M	R	1/18	Must use

Description: Monetary amount

User Note 1: *This is the Quantity Ordered * Unit Price (Gross Price - Discounts)*

(Equivalent of AMT02 with AMT01=1 on all other documents)

Syntax Rules:

1. P0405 - If either CTP04 or CTP05 is present, then the other is required.
2. C0607 - If CTP06 is present, then CTP07 is required.
3. C0902 - If CTP09 is present, then CTP02 is required.
4. C1002 - If CTP10 is present, then CTP02 is required.
5. C1103 - If CTP11 is present, then CTP03 is required.

Semantics:

1. CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of .90 would be the factor if a 10% discount is given.
2. CTP08 is the rebate amount.

Comments:

1. See Figures Appendix for an example detailing the use of CTP03 and CTP04.
2. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

Loop Product/Item Description

Pos: 0600	Repeat: 2
Mandatory	
Loop: PID	Elements: N/A

User Option (Usage): Must use

Purpose: To describe a product or process in coded or free-form format

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0600	PID	Product/Item Description	M	1		Must use

User Note 1:

One iteration of the PID for the Product Description (PID05, when PID01=F and PID02=08) is required. The Product Description (PID05, when PID01=F and PID02=08) can repeat (up to 2 iterations) if needed.

PID Product/Item Description

Pos: 0600	Max: 1
Detail - Mandatory	
Loop: PID	Elements: 3

User Option (Usage): Must use

Purpose: To describe a product or process in coded or free-form format

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use

Description: Code indicating the format of a description

CodeList Summary (Total Codes: 3, Included: 1)

Code Name

F Free-form

PID02	750	Product/Process Characteristic Code	M	ID	2/3	Must use
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Description: Code identifying the general class of a product or process characteristic

CodeList Summary (Total Codes: 238, Included: 1)

Code Name

08 Product

PID05	352	Description	M	AN	1/80	Must use
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.
4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

Loop Service, Promotion, Allowance, or Charge Information

Pos: 1800	Repeat: 25
Optional	
Loop: SAC	Elements: N/A

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
1800	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 1800	Max: 1
Detail - Optional	
Loop: SAC	Elements: 4

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use

Description: Code which indicates an allowance or charge for the service specified

CodeList Summary (Total Codes: 7, Included: 2)

Code Name

A Allowance
C Charge

SAC02	1300	Service, Promotion, Allowance, or Charge Code	M	ID	4/4	Must use
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Description: Code identifying the service, promotion, allowance, or charge

CodeList Summary (Total Codes: 1090, Included: 9)

Code Name

B720 Cooperative Advertising/Merchandising Allowance (Performance)
C000 Defective Allowance
C300 Discount - Special
C310 Discount
D240 Freight
D260 Fuel Charge
F800 Promotional Allowance
F970 Rebate
G860 Shrink Allowance

SAC05	610	Amount	M	N2	1/15	Must use
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Description: Monetary amount

SAC15	352	Description	O	AN	1/80	Used
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. C1413 - If SAC14 is present, then SAC13 is required.

7. C1615 - If SAC16 is present, then SAC15 is required.
8. R0507 - At least one of SAC05 or SAC07 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

TDS Total Monetary Value Summary

Pos: 0100 Max: 1
 Summary - Mandatory
 Loop: N/A Elements: 2

User Option (Usage): Must use

Purpose: To specify the total invoice discounts and amounts

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount	M	N2	1/15	Must use

Description: Monetary amount

User Note 1: Total Invoice Amount (including charges, less allowances, plus taxes) before terms discount (if discount is applicable).

TDS02	610	Amount	M	N2	1/15	Must use
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Description: Monetary amount

User Note 1: Merchandise Total (does not includes charges/allowances/taxes) total upon which terms discount amount is calculated

Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2. TDS02 indicates the amount upon which the terms discount amount is calculated.
3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4. TDS04 indicates the total amount of terms discount.

Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Loop Service, Promotion, Allowance, or Charge Information

Pos: 0400	Repeat: 25
Optional	
Loop: SAC	Elements: N/A

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0400	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

SAC Service, Promotion, Allowance, or Charge Information

Pos: 0400	Max: 1
Summary - Optional	
Loop: SAC	Elements: 4

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use

Description: Code which indicates an allowance or charge for the service specified

CodeList Summary (Total Codes: 7, Included: 2)

Code Name

- A Allowance
- C Charge

SAC02	1300	Service, Promotion, Allowance, or Charge Code	M	ID	4/4	Must use
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Description: Code identifying the service, promotion, allowance, or charge

All valid standard codes are used. (Total Codes: 1090)

SAC05	610	Amount	M	N2	1/15	Must use
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Description: Monetary amount

SAC15	352	Description	O	AN	1/80	Used
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. C1413 - If SAC14 is present, then SAC13 is required.
7. C1615 - If SAC16 is present, then SAC15 is required.
8. R0507 - At least one of SAC05 or SAC07 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable

to service, promotion, allowance, or charge.

7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

CTT Transaction Totals

Pos: 0700	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use

Description: Total number of line items in the transaction set

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

SE Transaction Set Trailer

Pos: 0800	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: 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>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use

Description: Total number of segments included in a transaction set including ST and SE segments

SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
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Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Comments:

- SE is the last segment of each transaction set.