

ISA ITEM SYNCHRONIZATION GUIDELINE

Overview.

The eBusiness Subcommittee of the Industrial Supply Association has been active in developing and promoting the use of E-Commerce and EDI to reduce costs from the Industrial channel. After developing a suite of EDI guidelines, it was determined that some distributor and manufacturer members preferred to do Item Synchronization using an electronic file format. For that reason, we reviewed several existing file layouts being used but found them to lack proper support for Global Trade Item Numbers (GTIN's), were too industry-specific, or were too broad. We also wanted to make sure that our file format was compatible with Global Data Synchronization (GDS) standards.

Industry-specific solution.

Committee members felt that a flat file format for exchanging item information would be implemented easier since it is fairly widely used today. The problem has been a need for a standard format that can be used by manufacturer-to-distributor partnerships as well as by third-party providers. Also, distributor software providers have had to create general solutions for loading or updating item information which haven't supported all the needed data fields for the Industrial channel.

The ISA Item Master file format supports basic transactional data and is meant to send information that will allow distributors to load their ERP systems with enough item master data and pricing to accurately buy and sell products from the manufacturers. Also, there are formats and examples that support enhanced pricing data, discontinuing products or replacing products, and identifying product assortments and kits.

Importance of Data Synchronization.

Providing accurate and timely data to Trading Partners is the fundamental enabler of Electronic Commerce. The processes used to exchange the needed information have evolved over time but the goal has remained the same; identify products, services and locations so that all parties involved in processing the data understand which product, service or location is being referred to. Successful exchange of this data has shown to significantly reduce costs from the supply chain of the industries who have implemented standardized formats and processes.

Global Trade Item Numbers.

The GTIN is used to globally and uniquely identify trade items sold, delivered, warehoused, and billed throughout the open supply chain. The use of a GTIN may eliminate the need for managing part number cross-reference files. Confusion is created when a single trade item has many different part numbers (e.g. manufacturer's number, catalog number, customer number, etc.). Conversely, errors result when different trade items from different manufacturers, coincidentally, have the same part number.

Item Synchronization in the Industrial Channel.

Exchanging item information accurately and in a timely manner has been a concern of the Industrial channel for some time. Current methods of sending and receiving item and price information have caused some key item or price data to be inaccurate and has caused both parties a great deal of time to fix problems that have arisen. The distributors haven't been able to load the information into their

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ERP systems without manually fixing some of the key data fields. The sheer volume of these corrections caused price updates and other item data changes to be delayed past their effective date. The manufacturers then would receive incorrect pricing and product information on purchase orders which required manual intervention to process orders accurately.

One major issue with current synchronization methods is the problem with manufacturers referring to products using only one unit of measure basis (usually the ordering/invoicing unit) and distributors needing to support multiple units of measure for purchasing, warehousing and selling to their customers. Frequently, the units of measure don't match even though the basis is the same (e.g. the manufacturer refers to an inner pack of an item as a dispenser and the distributor refers to this inner pack as a box.) Proper and extensive use of Global Trade Item Numbers (GTIN) and Global Location Numbers (GLN) has significantly reduced this problem in other industries. However, our industry needs to transition to their use and doesn't want to be limited to using GTIN's and GLN's to identify products and locations. Examples following the ISA Item Master file format illustrate a way of transitioning to the use of GTIN's and GLN's.

How the file layout was developed.

The Item Master Work Group that worked on this file format consisted of manufacturers, distributors, distribution software vendors and other solution providers who are part of our Industrial channel. The file format was reviewed by the ISA members' technical contacts and feedback given was evaluated for inclusion in the Item Master.

Product identification Keys.

Each packaging level of a product is known as a trade item. Because there is a need to identify trade items separately (see GTIN definition above), it was determined that the easiest way to support sending the data for the different packaging levels of a product was to send multiple records for a product using a separate key to differentiate them. This allows a transition to the use of GTIN's while still maintaining information about each trade item. The keys are Manufacturer ID & ID qualifier, Product ID and Product Package Type. The Product Package Type (also known as a Trade Item Unit Indicator) defines the package level without requiring a 'smart' unit of measure. Once a GTIN is assigned, it can and should be used to identify products for most computer-to-computer processes but the primary keys still need to be maintained.

File format.

Surveys taken of ISA members revealed that files are frequently sent in spreadsheet format and distributors preferred that the records be tab delimited. However, trading partners could agree to use any other method to create and send the data.

Comments and change requests.

Please send comments or changes to Frank Elvin at frank@eltechsolutions.net. A process for submitting changes and comments via the ISA website will be made available shortly.

ISA Item Master File

Fid No	Field Name	Description	M/O/C	Fid Type	Min/Max	Purpose	Validation Rule
1	ManufacturerID	Manufacturer or Brand owner ID.	M	AN	1/13	Identifies the Manufacturer or brand owner of the product. Especially necessary when using Third Party Providers (TPP) who send a file containing more than one manufacturer's products.	Sender of file must notify recipient when this value changes from the previous file. Receiver of file is responsible for cross-referencing this value to their ERP systems. GLN = 13 digits (preferred) DUNS = 9 digits DUNS+4 = 13 digits
2	ManufacturerIDQualifier	Qualifier of Manufacturer or Brand owner ID.	M	AN	2/4	Code that identifies the source of the Manufacturer ID.	GLN=Global Location Number (preferred), DUN=DUNS (9 digit), DUN4=DUNS+4, MFG=Manufacturer or brand owner has assigned and is responsible for notifying TPP's and distributors of changes, TPP=Third Party Provider has assigned and is responsible for notifying distributor clients of changes.
3	ManufacturerName	Manufacturer or Brand owner name	O	AN	1/35	Allows the ability to identify which Manufacturer the Manufacturer ID refers to during initial set up or file review.	
4	ProductID	Primary Product Identifier	M	AN	1/30	Primary Product Identification used by the Manufacturer or Brand Owner. Allows communication of standard packaging by tying together multiple records for a product.	The combination of Product ID & Product Package Type is unique. Use the manufacturer's model, catalog, or part number that the product is known by. Don't use a GTIN here.
5	ProductPackageType	The packaging type (trade item unit indicator) for this product	M	AN	2/2	Code to describe what type of package unit this trade item is. Facilitates building of unit conversion tables.	The combination of Product ID & Product Package Type is unique. Changing the value of the Product Package Type may cause problems after systems begin using this value as a unique key. BU=Base unit IP=Inner pack CA=Case PL=Pallet (Unit Load) ZZ=Mfg hasn't assigned Product Package Types yet When 'ZZ' is used, only 1 record per product is sent. When 'ZZ' is no longer used, there must be 1 record per product that is designated as the Base unit (BU). There cannot be an Inner pack (IP) record without a Case (CA) record.
6	NumberOfProductPackageTypes	Number of Product Package Types for this Product ID	M	N	1/1	Used to validate that all records for a Product ID have been processed.	Must equal number of records per Product ID.

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7	QuantityOfBaseUnits	Quantity of base units in this Product Package Type	C	N	1/10	Used to accurately load unit conversion tables in ERP systems.	Whole numbers only. When Product Package Type is 'ZZ', quantity of base units is blank or 0, otherwise, it's required. Base unit will equal 1.
8	UnitOfMeasureCode	Unit of Measure	M	AN	2/2	To identify the Unit used when exchanging EDI documents.	Any valid EDI value supported in the ISA guidelines.
9	UnitOfMeasureDescription	Unit of Measure Description	O	AN	2/10	Further describe U/M code	
10	GTIN	Global Trade Item Number	O	N	8/14	Identify the Item based on GS1 identification methodology. When assigned properly, it is a globally unique number for a trade item (product/unit) that can be used in data sync, bar-coding, RFID, etc.	GTIN is a unique number. After it has been assigned to a ProductID/ProductPackageType, it should not be changed unless required when following GTIN Allocation Rules. Changing a GTIN has repercussions down the supply chain and should be done with advance notice to the channel. There are four valid data structures for GTIN: GTIN-8 = 8 digits GTIN-12 = 12 digits GTIN-13 = 13 digits GTIN-14 = 14 digits Numeric but treat as Alphanumeric; is left justified; don't zero fill or remove leading zeroes. GTIN-14 cannot start with 0. GTIN-13 cannot start with 0.
11	ShortDescription	Describe the trade item	M	AN	1/35	For purchase orders, invoices, etc.	If applicable, use a noun followed by an adjective to describe the item so all like items would sort together.
12	LongDescription	Description of the item in more detail	O	AN	1/143	Used for more lengthy descriptions, for instance on a web page.	Put most important information first in case of truncation
13	Weight	Weight of trade item, including the immediate package	C	N	1/15	To determine weight of the item for shipping, handling and shipment verification (total of the shipment should equal sum of the trade items shipped).	Up to two places to the right of the decimal. When weight is used, then weight unit is required.
14	WeightUnit	Weight unit of measure	C	AN	2/2	Identifies what unit of measure that Weight is in.	When weight unit is used, weight is required. KG = Kilogram G = Gram LB = Pound OZ = Ounce
15	ListPrice	List price for trade item	O	N	1/10	Suggested List Price; may be used with Discount to establish distributor cost.	At least one record per ProductID should contain pricing information that allows distributor to calculate their cost. When multiple records for a ProductID are used, price/cost should be sent in the Invoice Unit record.
16	Cost	Distributor cost for trade item.	O	N	1/10	Distributor's Cost; may be used to determine pricing.	

ISA Item Master File

17	Discount	Discount from list price	O	N	1/10	Supports pricing where discount from list is used to calculate distributor cost.	Must have list price, when used. Should be sent as a percent off list; e.g. 30 (for 30% off) or 33.33 (for 33.33% off). Manufacturer may choose not to communicate distributor discount for security reasons. Distributor would then use their previously communicated discount from list to calculate cost.
18	PriceEffectiveDate	Date Item price goes into effect	O	D	8/8	To determine when the price is effective.	yyyymmdd
19	OrderableUnitIndic	Product can be ordered from Mfg in this unit	M	Y/N	1/1	To communicate whether Mfg accepts orders in this unit.	At least one record per ProductID should be Y.
20	InvoiceUnitIndic	Mfg will invoice distributor in this unit	M	Y/N	1/1	To communicate to distributors that Mfg will invoice in this unit.	At least one record per ProductID should be Y. Only one record per ProductID should be Y.
21	Length	Length (depth) of the package that contains this trade item	C	N	1/15	Used to determine space needed to store or transport a trade item.	Dimension of trade item package or if not packaged, the trade item itself. Not used for measure of quantity such as feet of cable or square feet of plywood. When used, all dimensions and their units are required.
22	LengthUnit	Length unit of measure	C	AN	2/2		IN = Inch FT = Foot YD = Yard MM = Millimeter CM = Centimeter MR = Meter It's preferable to not mix English or Metric measures. Distributor ERP systems need to be able to convert to/from English to Metric measures.
23	Width	Width of the package that contains this trade item	C	N	1/15	Used to determine space needed to store or transport a trade item.	Dimension of trade item package or if not packaged, the trade item itself. Not used for measure of quantity such as feet of cable or square feet of plywood. When used, all dimensions and their units are required.
24	WidthUnit	Width unit of measure	C	AN	2/2		IN = Inch FT = Foot YD = Yard MM = Millimeter CM = Centimeter MR = Meter It's preferable to not mix English or Metric measures. Distributor ERP systems need to be able to convert to/from English to Metric measures.
25	Height	Height of the package that contains this trade item	C	N	1/15	Used to determine space needed to store or transport a trade item.	Dimension of trade item package or if not packaged, the trade item itself. Not used for measure of quantity such as feet of cable or square feet of plywood. When used, all dimensions and their units are required.

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26	HeightUnit	Height unit of measure	C	AN	2/2		IN = Inch FT = Foot YD = Yard MM = Millimeter CM = Centimeter MR = Meter It's preferable to not mix English or Metric measures. Distributor ERP systems need to be able to convert to/from English to Metric measures.
27	UNSPSC	UNSPSC Code (United Nations Standard Products and Services Code) www.unspsc.org	O	AN	8/10	To identify the category of a product using a standard classification system.	XX Segment; XX Family; XX Class; XX Commodity; Optional (and rarely used) XX Business Function
28	LeadTime	Number of work days between order receipt and shipment	O	N	1/3	Used to estimate time between PO issue date and product receipt.	
29	HarmonizationCode	Harmonization Code	O	AN	6/6	Code used to determine duty / tariffs; maintained by the World Customs Organization.	
30	CountryOfOrigin	ISO Code for Country of Origin	O	AN	2/3	The ISO country code (either alpha numeric or numeric).	
31	HazmatIndic	Product is Hazardous Material	M	Y/N	1/1	To identify products that must be shipped as Hazardous Material.	
32	SerialNumberIndic	Product has serial number	M	Y/N	1/1	Product is tracked and marked with serial number.	
33	LotNumberIndic	Product has lot number	M	Y/N	1/1	Product is tracked and marked with lot number.	
34	ExpirationDateIndic	Product has expiration date	M	Y/N	1/1	Product is marked with expiration date.	
35	MSDSIndic	Product has Material Data Safety Sheet	M	Y/N	1/1	Identifies products with MSDS sheets.	
36	PrevZZIndic	Record previously sent with ProductPackageType 'ZZ'	M	Y/N	1/1	Allows proper assignment of ProductPackageType after initial Item Sync sent as 'ZZ' (unassigned).	When 'ZZ' is no longer used, there must be 1 record per product that is designated as the Base unit (BU).
	Column Abbreviations:						
	M/O/C	M = Mandatory	*****				
	M/O/C	O = Optional	*****				
	M/O/C	C = Conditional	*****				
	Fld Type	AN = Alphanumeric		*****			
	Fld Type	N = Numeric		*****			
	Fld Type	Y/N = Logical yes/no		*****			
	Fld Type	D = Date yyyyymmdd		*****			

ISA Item Examples

A. Summary: Manufacturer has no special code to identify themselves; no product/package hierarchy is communicated; no GTIN's have been assigned; basic pricing is a mixture of list price with discount and distributor net cost.						
	Manufacturer ID	Manufacturer ID Qualifier	Manufacturer Name	Product ID	Product Package Type	Number Of Product Package Types
a1	ABCMFG	MFG	ABC Manufacturing Inc	A12	ZZ	1
a2	ABCMFG	MFG	ABC Manufacturing Inc	CKTBRK120	ZZ	1
a3	ABCMFG	MFG	ABC Manufacturing Inc	310-1001	ZZ	1
a4	ABCMFG	MFG	ABC Manufacturing Inc	PAC-1674	ZZ	1
a5	ABCMFG	MFG	ABC Manufacturing Inc	PBA-2532	ZZ	1
a6	ABCMFG	MFG	ABC Manufacturing Inc	PCM-10074	ZZ	1
a7	ABCMFG	MFG	ABC Manufacturing Inc	123GIF	ZZ	1
a8	ABCMFG	MFG	ABC Manufacturing Inc	MODEL10	ZZ	1

ISA Item Examples

A.						
	Quantity Of Base Units	Unit Of Measure Code	Unit Of Measure Description	GTIN	Short Description	Long Description
a1		EA	Each		Cabinet Storage 2 Door Manual 30 Gal Yellow	
a2		CA	Case		Circuit breaker 1P 20A 120V CB	1 pole 20 amp 120 volt circuit breaker with bright red letters
a3		CA	Case		Earplug Foam Classic 200pr/box	Earplug Classic Pillow Pack NRR29 200pr/box 10box/case
a4		EA	Each		7" Diagonal Pliers	
a5		EA	Each		8" End Nipper Pliers	
a6		EA	Each		10" Pump Pliers	
a7		EA	Each		Monitor 4 Gas	LEL/O2/H2S/CO Nicad
a8		EA	Each		Hard Cap Attachment	Brimaster Blue Huntsman

ISA Item Examples

A.														
	Weight	Weight Unit	List Price	Cost	Discount	Price Effective Date	Orderable Unit Indic	Invoice Unit Indic	Length	Length Unit	Width	Width Unit	Height	Height Unit
a1	205.00	LB	660.00	363.00		20090101	Y	Y	24	IN	36	IN	48	IN
a2	32	LB	700.00	495.00		20090101	Y	Y	12	IN	12	IN	4.25	IN
a3	24	LB	280.00	140.00		20090101	Y	Y	15	IN	24	IN	30	IN
a4	0.9	LB		5.74		20090101	Y	Y	7	IN	2	IN	0.5	IN
a5	1.2	LB		8.70		20090101	Y	Y	8	IN	2	IN	0.6	IN
a6	1.5	LB		10.75		20090101	Y	Y	10	IN	2.25	IN	1	IN
a7	6	LB	1705.60	1142.75		20090101	Y	Y	3	IN	4	IN	4	IN
a8	0.5	LB	9.75	6.25		20090101	Y	Y	6	IN	8	IN	2	IN

ISA Item Examples

A.										
	UNSPSC	Lead Time	Harmonization Code	Country OfOrigin	Hazmat Indic	Serial Number Indic	Lot Number Indic	Expiration Date Indic	MSDS Indic	PrevZZ Indic
a1					N	N	N	N	N	N
a2					N	N	N	N	N	N
a3					N	N	N	N	N	N
a4					N	N	N	N	N	N
a5					N	N	N	N	N	N
a6					N	N	N	N	N	N
a7					Y	Y	N	N	N	N
a8					N	N	N	N	N	N

ISA Item Examples

B.	Summary: Manufacturer identifies themselves using their DUNS number; no product/package hierarchy is communicated; GTIN's have been assigned on some items and are being sent; basic pricing is a mixture of list price with discount and distributor net cost.					
	Manufacturer ID	Manufacturer ID Qualifier	Manufacturer Name	Product ID	Product Package Type	Number Of Product Package Types
b1	123456789	DUN	ABC Manufacturing Inc	A12	ZZ	1
b2	123456789	DUN	ABC Manufacturing Inc	CKTBRK120	ZZ	1
b3	123456789	DUN	ABC Manufacturing Inc	310-1001	ZZ	1
b4	123456789	DUN	ABC Manufacturing Inc	PAC-1674	ZZ	1
b5	123456789	DUN	ABC Manufacturing Inc	PBA-2532	ZZ	1
b6	123456789	DUN	ABC Manufacturing Inc	PCM-10074	ZZ	1
b7	123456789	DUN	ABC Manufacturing Inc	123GIF	ZZ	1
b8	123456789	DUN	ABC Manufacturing Inc	MODEL10	ZZ	1

ISA Item Examples

B.						
	Quantity Of Base Units	Unit Of Measure Code	Unit Of Measure Description	GTIN	Short Description	Long Description
b1		EA	Each	614141069125	Cabinet Storage 2 Door Manual 30 Gal Yellow	
b2		CA	Case		Circuit breaker 1P 20A 120V CB	1 pole 20 amp 120 volt circuit breaker with bright red letters
b3		CA	Case		Earplug Foam Classic 200pr/box	Earplug Classic Pillow Pack NRR29 200pr/box 10box/case
b4		EA	Each	614141876457	7" Diagonal Pliers	
b5		EA	Each	614141647439	8" End Nipper Pliers	
b6		EA	Each	614141674312	10" Pump Pliers	
b7		EA	Each	614141872619	Monitor 4 Gas	LEL/O2/H2S/CO Nicad
b8		EA	Each	614141010097	Hard Cap Attachment	Brimaster Blue Huntsman

ISA Item Examples

B.														
	Weight	Weight Unit	List Price	Cost	Discount	Price Effective Date	Orderable Unit Indic	Invoice Unit Indic	Length	Length Unit	Width	Width Unit	Height	Height Unit
b1	205.00	LB	660.00		45	20090101	Y	Y	24	IN	36	IN	48	IN
b2	32	LB	700.00	495.00		20090101	Y	Y	12	IN	12	IN	4.25	IN
b3	24	LB	280.00	140.00		20090101	Y	Y	15	IN	24	IN	30	IN
b4	0.9	LB		5.74		20090101	Y	Y	7	IN	2	IN	0.5	IN
b5	1.2	LB		8.70		20090101	Y	Y	8	IN	2	IN	0.6	IN
b6	1.5	LB		10.75		20090101	Y	Y	10	IN	2.25	IN	1	IN
b7	6	LB	1705.60		33.33	20090101	Y	Y	3	IN	4	IN	4	IN
b8	0.5	LB	9.75	6.25		20090101	Y	Y	6	IN	8	IN	2	IN

ISA Item Examples

B.										
	UNSPSC	Lead Time	Harmonization Code	Country OfOrigin	Hazmat Indic	Serial Number Indic	Lot Number Indic	Expiration Date Indic	MSDS Indic	PrevZZ Indic
b1					N	N	N	N	N	N
b2					N	N	N	N	N	N
b3					N	N	N	N	N	N
b4					N	N	N	N	N	N
b5					N	N	N	N	N	N
b6					N	N	N	N	N	N
b7					Y	Y	N	N	N	N
b8					N	N	N	N	N	N

ISA Item Examples

Summary: Manufacturer identifies themselves using the GLN that they assigned for their entity; product/package hierarchy is communicated, when needed; GTIN's have been assigned and are sent for each trade item (package level); basic pricing is a mixture of list price with discount and distributor net cost on the invoice packaging level only.						
	Manufacturer ID	Manufacturer ID Qualifier	Manufacturer Name	Product ID	Product Package Type	Number Of Product Package Types
c1	0614141000005	GLN	ABC Manufacturing Inc	A12	BU	1
c2	0614141000005	GLN	ABC Manufacturing Inc	CKTBRK120	BU	3
c3	0614141000005	GLN	ABC Manufacturing Inc	CKTBRK120	IP	3
c4	0614141000005	GLN	ABC Manufacturing Inc	CKTBRK120	CA	3
c5	0614141000005	GLN	ABC Manufacturing Inc	310-1001	BU	3
c6	0614141000005	GLN	ABC Manufacturing Inc	310-1001	IP	3
c7	0614141000005	GLN	ABC Manufacturing Inc	310-1001	CA	3
c8	0614141000005	GLN	ABC Manufacturing Inc	PAC-1674	BU	2
c9	0614141000005	GLN	ABC Manufacturing Inc	PAC-1674	CA	2
c10	0614141000005	GLN	ABC Manufacturing Inc	PBA-2532	BU	2
c11	0614141000005	GLN	ABC Manufacturing Inc	PBA-2532	CA	2
c12	0614141000005	GLN	ABC Manufacturing Inc	PCM-10074	BU	2
c13	0614141000005	GLN	ABC Manufacturing Inc	PCM-10074	CA	2
c14	0614141000005	GLN	ABC Manufacturing Inc	123GIF	BU	1
c15	0614141000005	GLN	ABC Manufacturing Inc	MODEL10	BU	2
c16	0614141000005	GLN	ABC Manufacturing Inc	MODEL10	CA	2

ISA Item Examples

C.						
	Quantity Of Base Units	Unit Of Measure Code	Unit Of Measure Description	GTIN	Short Description	Long Description
c1	1	EA	Each	614141069125	Cabinet Storage 2 Door Manual 30 Gal Yellow	
c2	1	EA	Each	614141111114	Circuit breaker 1P 20A 120V CB	1 pole 20 amp 120 volt circuit breaker with bright red letters
c3	10	PK	Package	30614141111115	Circuit breaker 1P 20A 120V CB	1 pole 20 amp 120 volt circuit breaker with bright red letters
c4	100	CA	Case	50614141111119	Circuit breaker 1P 20A 120V CB	1 pole 20 amp 120 volt circuit breaker with bright red letters
c5	1	PR	Pair	614141222223	Earplug Foam Classic 200pr/box	Earplug Classic Pillow Pack NRR29 200pr/box 10box/case
c6	200	BX	Box	30614141222224	Earplug Foam Classic 200pr/box	Earplug Classic Pillow Pack NRR29 200pr/box 10box/case
c7	2000	CA	Case	50614141222228	Earplug Foam Classic 200pr/box	Earplug Classic Pillow Pack NRR29 200pr/box 10box/case
c8	1	EA	Each	614141876457	7" Diagonal Pliers	
c9	12	BX	Box	30614141876458	7" Diagonal Pliers	
c10	1	EA	Each	614141647439	8" End Nipper Pliers	
c11	10	BX	Box	30614141647430	8" End Nipper Pliers	
c12	1	EA	Each	614141674312	10" Pump Pliers	
c13	6	BX	Box	30614141674313	10" Pump Pliers	
c14	1	EA	Each	614141872619	Monitor 4 Gas	LEL/O2/H2S/CO Nicad
c15	1	EA	Each	614141010097	Hard Cap Attachment	Brimaster Blue Huntsman
c16	6	BX	Box	30614141010098	Hard Cap Attachment	Brimaster Blue Huntsman

ISA Item Examples

C.														
	Weight	Weight Unit	List Price	Cost	Discount	Price Effective Date	Orderable Unit Indic	Invoice Unit Indic	Length	Length Unit	Width	Width Unit	Height	Height Unit
c1	205.00	LB	660.00		45	20090101	Y	Y	24	IN	36	IN	48	IN
c2	0.25	LB	7.00			20090101	N	N	2	IN	2	IN	0.75	IN
c3	3	LB				20090101	N	N	11	IN	2.25	IN	2	IN
c4	32	LB	700.00	495.00		20090101	Y	Y	12	IN	12	IN	4.25	IN
c5	0.01	LB				20090101	N	N	0.3	IN	1	IN	1.5	IN
c6	2.2	LB	28.00			20090101	N	N	15	IN	12	IN	6	IN
c7	24	LB	280.00	140.00		20090101	Y	Y	15	IN	24	IN	30	IN
c8	0.9	LB		5.74		20090101	Y	Y	7	IN	2	IN	0.5	IN
c9	11.5	LB				20090101	N	N	7.25	IN	4.5	IN	3.5	IN
c10	1.2	LB		8.70		20090101	Y	Y	8	IN	2	IN	0.6	IN
c11	13	LB				20090101	N	N	8.25	IN	4.5	IN	3.5	
c12	1.5	LB		10.75		20090101	Y	Y	10	IN	2.25	IN	1	IN
c13	10	LB				20090101	N	N	10.25	IN	4.75	IN	3.25	IN
c14	6	LB	1705.60		33.33	20090101	Y	Y	3	IN	4	IN	4	IN
c15	0.5	LB	9.75	6.25		20090101	Y	Y	6	IN	8	IN	2	IN
c16	3.5	LB				20090101	N	N	6	IN	8	IN	12	IN

ISA Item Examples

C.										
	UNSPSC	Lead Time	Harmonization Code	Country OfOrigin	Hazmat Indic	Serial Number Indic	Lot Number Indic	Expiration Date Indic	MSDS Indic	PrevZZ Indic
c1					N	N	N	N	N	N
c2					N	N	N	N	N	N
c3					N	N	N	N	N	N
c4					N	N	N	N	N	N
c5					N	N	N	N	N	N
c6					N	N	N	N	N	N
c7					N	N	N	N	N	N
c8					N	N	N	N	N	N
c9					N	N	N	N	N	N
c10					N	N	N	N	N	N
c11					N	N	N	N	N	N
c12					N	N	N	N	N	N
c13					N	N	N	N	N	N
c14					Y	Y	N	N	N	N
c15					N	N	N	N	N	N
c16					N	N	N	N	N	N

ISA Item Examples

D.	<p>Summary: Manufacturer had previously sent item information without assigning ProductPackageTypes. They now are sending information on all packaging levels; GTIN's have been assigned and are sent for each trade item (package level). The new record that is associated with the original 'ZZ' Product Package Type is marked. (PrevZZIndic=Y). Distributor will now be able to use data from these records to build quantity conversion tables.</p>					
	Manufacturer ID	Manufacturer ID Qualifier	Manufacturer Name	Product ID	Product Package Type	Number Of Product Package Types
	Sent originally:					
a1	ABCMFG	MFG	ABC Manufacturing Inc	A12	ZZ	1
a3	ABCMFG	MFG	ABC Manufacturing Inc	310-1001	ZZ	1
	Change Product Package Type:					
d1	ABCMFG	MFG	ABC Manufacturing Inc	A12	BU	1
d2	ABCMFG	MFG	ABC Manufacturing Inc	310-1001	BU	3
d3	ABCMFG	MFG	ABC Manufacturing Inc	310-1001	IP	3
d4	ABCMFG	MFG	ABC Manufacturing Inc	310-1001	CA	3

ISA Item Examples

D.						
	Quantity Of Base Units	Unit Of Measure Code	Unit Of Measure Description	GTIN	Short Description	Long Description
a1		EA	Each	614141069125	Cabinet Storage 2 Door Manual 30 Gal Yellow	
a3		CA	Case		Earplug Foam Classic 200pr/box	Earplug Classic Pillow Pack NRR29 200pr/box 10box/case
d1	1	EA	Each	614141069125	Cabinet Storage 2 Door Manual 30 Gal Yellow	
d2	1	PR	Pair	614141222223	Earplug Foam Classic 200pr/box	Earplug Classic Pillow Pack NRR29 200pr/box 10box/case
d3	200	BX	Box	30614141222224	Earplug Foam Classic 200pr/box	Earplug Classic Pillow Pack NRR29 200pr/box 10box/case
d4	2000	CA	Case	50614141222228	Earplug Foam Classic 200pr/box	Earplug Classic Pillow Pack NRR29 200pr/box 10box/case

ISA Item Examples

D.														
	Weight	Weight Unit	List Price	Cost	Discount	Price Effective Date	Orderable Unit Indic	Invoice Unit Indic	Length	Length Unit	Width	Width Unit	Height	Height Unit
a1	205.00	LB	660.00	363.00		20090101	Y	Y	24	IN	36	IN	48	IN
a3	24	LB	280.00	140.00		20090101	Y	Y	15	IN	24	IN	30	IN
d1	205.00	LB	660.00	363.00		20090101	Y	Y	24	IN	36	IN	48	IN
d2	0.01	LB				20090101	N	N	0.3	IN	1	IN	1.5	IN
d3	2.2	LB	28.00			20090101	N	N	15	IN	12	IN	6	IN
d4	24	LB	280.00	140.00		20090101	Y	Y	15	IN	24	IN	30	IN

ISA Item Examples

D.										
	UNSPSC	Lead Time	Harmonization Code	Country OfOrigin	Hazmat Indic	Serial Number Indic	Lot Number Indic	Expiration Date Indic	MSDS Indic	PrevZZ Indic
a1					N	N	N	N	N	N
a3					N	N	N	N	N	N
d1					N	N	N	N	N	Y
d2					N	N	N	N	N	N
d3					N	N	N	N	N	N
d4					N	N	N	N	N	Y

ISA Item Examples

E.	<p>Summary: Manufacturer adds an inner pack for an item that already had a base unit and case unit assigned; GTIN's have been assigned and are sent for each trade item (package level). Distributor will need to use data from this record to update the quantity conversion table for this product.</p>					
	Manufacturer ID	Manufacturer ID Qualifier	Manufacturer Name	Product ID	Product Package Type	Number Of Product Package Types
e1	0614141000005	GLN	ABC Manufacturing Inc	MODEL10	IP	3

ISA Item Examples

E.						
	Quantity Of Base Units	Unit Of Measure Code	Unit Of Measure Description	GTIN	Short Description	Long Description
e1	2	PK	Package	10614141010094	Hard Cap Attachment	Brimaster Blue Huntsman

ISA Item Examples

E.														
	Weight	Weight Unit	List Price	Cost	Discount	Price Effective Date	Orderable Unit Indic	Invoice Unit Indic	Length	Length Unit	Width	Width Unit	Height	Height Unit
e1		1 LB				20090101	N	N	6	IN	8	IN	4	IN

ISA Item Examples

E.										
	UNSPSC	Lead Time	Harmonization Code	Country OfOrigin	Hazmat Indic	Serial Number Indic	Lot Number Indic	Expiration Date Indic	MSDS Indic	PrevZZ Indic
e1					N	N	N	N	N	N

**ISA Item Master File
Extended Pricing**

Fld No	Field Name	Description	M/O/C	Fld Type	Min/Max	Purpose	Validation Rule
1	GTIN	Global Trade Item Number	C	N	8/14	Key to identify the Trade Item that this price record refers to.	Either a GTIN must be used to identify which product/package type this price record refers to or a combination of ManufacturerID, ManufacturerIDQualifier, ProductID, and ProductPackageType must be used. Must have already be assigned and communicated in the item master prior to sending the extended pricing record.
2	ManufacturerID	Manufacturer or Brand owner ID	C	AN	1/13	Identifies the Manufacturer or brand owner of the product.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the extended pricing record.
3	ManufacturerIDQualifier	Qualifier of Manufacturer or Brand owner ID	C	AN	2/4	Code that identifies the source of the Manufacturer ID.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the extended pricing record.
4	ProductID	Primary Product Identifier	C	AN	1/30	Primary Product Identification used by the Manufacturer or Brand Owner.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the extended pricing record.
5	ProductPackageType	The packaging type (trade item unit indicator) for this product	C	AN	2/2	Code to describe what type of package unit this trade item is.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the extended pricing record.
6	UnitOfMeasureDescription	Unit of Measure Description	O	AN	2/10	Assists identifying which productid/productpackagetype this price record refers to.	
7	PriceEffectiveDate	Date Item price goes into effect	M	D	8/8	To determine when the price is effective.	yyyymmdd
8	PriceEndDate	Last date Item price will be available	O	D	8/8	Determines when the price will end, if known.	yyyymmdd
9	PricingGroup	Group products for quantity break purposes	O	AN	1/6	This field allows the supplier to group products for pricing or discount purposes.	
10	QuantityBasisCd	Basis for Quantity Breaks	C	AN	1/1	Quantity breaks based on units or dollars	Required if quantity breaks are used. Q=based on units D=based on dollars
11	ListPrice	List price for trade item	O	N	1/10	Suggested List Price; may be used with Discount to establish distributor cost.	Required if any values sent in ListPrice2 through ListPrice10.
12	ListPrice2	List price per qty break	O	N	1/10	Suggested List Price; may be used with Discount to establish distributor cost.	Must have quantity break 2

**ISA Item Master File
Extended Pricing**

13	ListPrice3	List price per qty break	O	N	1/10	Suggested List Price; may be used with Discount to establish distributor cost.	Must have quantity break 3
14	ListPrice4	List price per qty break	O	N	1/10	Suggested List Price; may be used with Discount to establish distributor cost.	Must have quantity break 4
15	ListPrice5	List price per qty break	O	N	1/10	Suggested List Price; may be used with Discount to establish distributor cost.	Must have quantity break 5
16	ListPrice6	List price per qty break	O	N	1/10	Suggested List Price; may be used with Discount to establish distributor cost.	Must have quantity break 6
17	ListPrice7	List price per qty break	O	N	1/10	Suggested List Price; may be used with Discount to establish distributor cost.	Must have quantity break 7
18	ListPrice8	List price per qty break	O	N	1/10	Suggested List Price; may be used with Discount to establish distributor cost.	Must have quantity break 8
19	ListPrice9	List price per qty break	O	N	1/10	Suggested List Price; may be used with Discount to establish distributor cost.	Must have quantity break 9
20	ListPrice10	List price per qty break	O	N	1/10	Suggested List Price; may be used with Discount to establish distributor cost.	Must have quantity break 10
21	QuantityBreak2	Quantity needed to use price/disc/cost 2	O	N	1/10	Supports quantity breaks in pricing/costing	Must have list price 2/disc 2 or cost 2
22	QuantityBreak3	Quantity needed to use price/disc/cost 3	O	N	1/10	Supports quantity breaks in pricing/costing	Must have list price 3/disc 3 or cost 3
23	QuantityBreak4	Quantity needed to use price/disc/cost 4	O	N	1/10	Supports quantity breaks in pricing/costing	Must have list price 4/disc 4 or cost 4
24	QuantityBreak5	Quantity needed to use price/disc/cost 5	O	N	1/10	Supports quantity breaks in pricing/costing	Must have list price 5/disc 5 or cost 5
25	QuantityBreak6	Quantity needed to use price/disc/cost 6	O	N	1/10	Supports quantity breaks in pricing/costing	Must have list price 6/disc 6 or cost 6
26	QuantityBreak7	Quantity needed to use price/disc/cost 7	O	N	1/10	Supports quantity breaks in pricing/costing	Must have list price 7/disc 7 or cost 7
27	QuantityBreak8	Quantity needed to use price/disc/cost 8	O	N	1/10	Supports quantity breaks in pricing/costing	Must have list price 8/disc 8 or cost 8
28	QuantityBreak9	Quantity needed to use price/disc/cost 9	O	N	1/10	Supports quantity breaks in pricing/costing	Must have list price 9/disc 9 or cost 9
29	QuantityBreak10	Quantity needed to use price/disc/cost 10	O	N	1/10	Supports quantity breaks in pricing/costing	Must have list price 10/disc 10 or cost 10
30	Cost	Distributor cost for trade item.	O	N	1/10	Distributor's Cost; may be used to determine pricing.	Required if any values sent in Cost2 through Cost10.
31	Cost2	Distributor's cost per qty break	O	N	1/10	Distributor's Cost; may be used to determine pricing.	Must have quantity break 2
32	Cost3	Distributor's cost per qty break	O	N	1/10	Distributor's Cost; may be used to determine pricing.	Must have quantity break 3
33	Cost4	Distributor's cost per qty break	O	N	1/10	Distributor's Cost; may be used to determine pricing.	Must have quantity break 4

**ISA Item Master File
Extended Pricing**

34	Cost5	Distributor's cost per qty break	O	N	1/10	Distributor's Cost; may be used to determine pricing.	Must have quantity break 5
35	Cost6	Distributor's cost per qty break	O	N	1/10	Distributor's Cost; may be used to determine pricing.	Must have quantity break 6
36	Cost7	Distributor's cost per qty break	O	N	1/10	Distributor's Cost; may be used to determine pricing.	Must have quantity break 7
37	Cost8	Distributor's cost per qty break	O	N	1/10	Distributor's Cost; may be used to determine pricing.	Must have quantity break 8
38	Cost9	Distributor's cost per qty break	O	N	1/10	Distributor's Cost; may be used to determine pricing.	Must have quantity break 9
39	Cost10	Distributor's cost per qty break	O	N	1/10	Distributor's Cost; may be used to determine pricing.	Must have quantity break 10
40	Discount	Discount from list price	O	N	1/10	Supports pricing where discount from list is used to calculate distributor cost.	Must have list price, when used. Should be sent as a percent off list; e.g. 30 (for 30% off) or 33.33 (for 33.33% off).
41	Discount2	Discount from list 2 if qty met	O	N	1/10	Supports pricing where discount from list is used to calculate distributor cost.	Must have list price 2
42	Discount3	Discount from list 3 if qty met	O	N	1/10	Supports pricing where discount from list is used to calculate distributor cost.	Must have list price 3
43	Discount4	Discount from list 4 if qty met	O	N	1/10	Supports pricing where discount from list is used to calculate distributor cost.	Must have list price 4
44	Discount5	Discount from list 5 if qty met	O	N	1/10	Supports pricing where discount from list is used to calculate distributor cost.	Must have list price 5
45	Discount6	Discount from list 6 if qty met	O	N	1/10	Supports pricing where discount from list is used to calculate distributor cost.	Must have list price 6
46	Discount7	Discount from list 7 if qty met	O	N	1/10	Supports pricing where discount from list is used to calculate distributor cost.	Must have list price 7
47	Discount8	Discount from list 8 if qty met	O	N	1/10	Supports pricing where discount from list is used to calculate distributor cost.	Must have list price 8
48	Discount9	Discount from list 9 if qty met	O	N	1/10	Supports pricing where discount from list is used to calculate distributor cost.	Must have list price 9
49	Discount10	Discount from list 10 if qty met	O	N	1/10	Supports pricing where discount from list is used to calculate distributor cost.	Must have list price 10

ISA Pricing Examples

A. Summary: Manufacturer is sending pricing for items where quantity breaks are used. Key to identify the trade item will either be a GTIN or a combination of MfgID, qual, ProductID, ProdPkgTy. If GTIN is used, it must have been previously sent.									
	GTIN	Manufacturer ID	Manufacturer ID Qualifier	Product ID	Product Package Type	Unit Of Measure Description	Price Effective Date	Price End Date	Pricing Group
a1		ABCMFG	MFG	310-1001	ZZ	Case	20090101		
a2	614141876457						20090101		
a3	614141647439						20090101		
a4	614141674312						20090101		

ISA Pricing Examples

A.												
	Quantity Basis Cd	List Price	List Price2	List Price3	List Price4	List Price5	List Price6	List Price7	List Price8	List Price9	List Price10	Quantity Break2
a1	Q											10
a2	Q											24
a3	Q											20
a4	Q											12

ISA Pricing Examples

A.												
	Quantity Break3	Quantity Break4	Quantity Break5	Quantity Break6	Quantity Break7	Quantity Break8	Quantity Break9	Quantity Break10	Cost	Cost2	Cost3	Cost4
a1									140.00	130.00		
a2									5.74	5.60		
a3									8.70	8.60		
a4									10.75	10.55		

ISA Pricing Examples

A.												
	Cost5	Cost6	Cost7	Cost8	Cost9	Cost10	Discount	Discount2	Discount3	Discount4	Discount5	Discount6
a1												
a2												
a3												
a4												

ISA Pricing Examples

A.				
	Discount7	Discount8	Discount9	Discount10
a1				
a2				
a3				
a4				

**ISA Item Master File -
Discontinue or Replace Items**

Fld No	Field Name	Description	M/O/C	Fld Type	Min/ Max	Purpose	Validation Rule
1	GTIN	Global Trade Item Number	C	N	8/14	Key to identify the Trade Item to be discontinued or replaced.	Either a GTIN must be used to identify which product/package type this record refers to or a combination of ManufacturerID, ManufacturerIDQualifier, ProductID, and ProductPackageType must be used. Must have already be assigned and communicated in the item master prior to sending the record.
2	ManufacturerID	Manufacturer or Brand owner ID	C	AN	1/13	Identifies the Manufacturer or brand owner of the product.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the record.
3	ManufacturerIDQualifier	Qualifier of Manufacturer or Brand owner ID	C	AN	2/4	Code that identifies the source of the Manufacturer ID.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the record.
4	ProductID	Primary Product Identifier	C	AN	1/30	Primary Product Identification used by the Manufacturer or Brand Owner.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the record.
5	ProductPackageType	The packaging type (trade item unit indicator) for this product	C	AN	2/2	Code to describe what type of package unit this trade item is.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the record.
6	ProductStatusChgType	Type of change to product being made.	M	AN	1/1	Identifies type of status change.	D = discontinue item R = replace item
7	ProductStatusChgDate	Date of product status change	O	D	8/8	Identifies date product status change was or will be effective	yyyymmdd If not sent, date is assumed to be immediate. A future date assumes that the manufacturer will continue supplying the existing product until this date or when supplies run out.
8	ReplacementGTIN	Replacement Global Trade Item Number	C	N	8/14	Key field to identify replacement GTIN, when applicable.	Required when ProductStatusChgType is R and GTIN is used to identify the trade item. Must have already be assigned and communicated in the item master prior to sending the record.
9	ReplacementProductID	Replacement Product Identifier	C	AN	1/30	Key field to identify replacement product when GTIN is not used.	Required when ProductStatusChgType is R and GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the record.

**ISA Item Master File -
Discontinue or Replace Items**

10	ReplacementProductPackageType	Replacement packaging type (trade item unit indicator) for this product	C	AN	2/2	Key field to identify which type of package unit this trade item is. Used when GTIN is not used.	<p>Required when ProductStatusChgType is R and GTIN is not used to identify the trade item. Otherwise not needed.</p> <p>Must have already be assigned and communicated in the item master prior to sending the record.</p>
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ISA Item Discontinue or Replace Examples

A.	<p>Summary: Manufacturer removes only the inner pack for a product. Key to identify the trade item will either be a GTIN or a combination of MfgID, qual, ProductID, ProdPkgTy. If GTIN is used, it must have been previously sent. Change is immediate since chg date is blank.</p> <p>Distributor will need to use data from this record to update the quantity conversion table for this product when all inventory using the inner pack has been sold.</p>						
	GTIN	Manufacturer ID	Manufacturer ID Qualifier	Product ID	Product Package Type	Product Status ChgType	Product Status ChgDate
a1	10614141010094					D	

ISA Item Discontinue or Replace Examples

A.			
	Replacement GTIN	ReplacementProductID	Replacem ent Product Package Type
a1			

ISA Item Discontinue or Replace Examples

B.	<p>Summary: Manufacturer discontinues a product which includes all trade items for that product. Key to identify the product is a combination of MfgID, qual, ProductID. Mfg will not process orders for the product after 5/31/09.</p> <p>Distributor will need to keep trade item data for this product until all inventory has been sold.</p>						
	GTIN	Manufacturer ID	Manufacturer ID Qualifier	Product ID	Product Package Type	Product Status ChgType	Product Status ChgDate
b1		0614141000005	GLN	310-1001		D	20090601

ISA Item Discontinue or Replace Examples

B.			
	Replacement GTIN	ReplacementProductID	Replacem ent Product Package Type
b1			

ISA Item Discontinue or Replace Examples

C.	<p>Summary: Manufacturer replaces a product with another. All trade items for the original product will be replaced by those already set up for the replacement product. Key to identify the original product is a combination of MfgID, qual, ProductID. Key for the replacement product is Replacement ProductID. Because trade item information such as quantity in inner pack or case may change, using GTIN and Replacement GTIN works best when there is a single trade item for a product.</p> <p>Distributor will need to keep trade item data for the original product until all inventory has been sold.</p>						
	GTIN	Manufacturer ID	Manufacturer ID Qualifier	Product ID	Product Package Type	Product Status ChgType	Product Status ChgDate
c1		0614141000005	GLN	310-1001		R	20090401

ISA Item Discontinue or Replace Examples

C.			
	Replacement GTIN	ReplacementProductID	Replacem ent Product Package Type
c1		310-1201	

**ISA Item Master File
Assortments and Kits**

Fld No	Field Name	Description	M/O/C	Fld Type	Min/Max	Purpose	Validation Rule
1	GTIN	Global Trade Item Number	C	N	8/14	Key to identify the Trade Item of the orderable assortment or kit.	Either a GTIN must be used to identify which product/package type this record refers to or a combination of ManufacturerID, ManufacturerIDQualifier, ProductID, and ProductPackageType must be used. Must have already be assigned and communicated in the item master prior to sending the record. GTIN is to be that of the base unit.
2	ManufacturerID	Manufacturer or Brand owner ID	C	AN	1/13	Identifies the Manufacturer or brand owner of the product.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the record.
3	ManufacturerIDQualifier	Qualifier of Manufacturer or Brand owner ID	C	AN	2/4	Code that identifies the source of the Manufacturer ID.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the record.
4	ProductID	Primary Product Identifier	C	AN	1/30	Primary Product Identification used by the Manufacturer or Brand Owner to identify the assortment or kit.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the record.
5	ProductPackageType	The packaging type (trade item unit indicator) for this product	C	AN	2/2	Code to describe what type of package unit this trade item is.	Required when GTIN is not used to identify the trade item. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the record. This is the base unit (BU) for the product.
6	TotalComponents	Total number of components in assortment/kit	M	N	1/4	To verify number of records for this assortment/kit	Must be equal to the highest ComponentNumber.
7	ComponentNumber	Sequence number of component in assortment/kit	M	N	1/4	Uniquely identifies component in assortment/kit	Must be unique for the assortment/kit trade item. Must be consecutive.
8	ComponentMaintCd	Maintenance type code	M	AN	1/1	To specify what maintenance is being done to the assortment/kit.	A = Add component C = Change component R = Remove component - no replacement
9	ComponentGTIN	Component Global Trade Item Number	C	N	8/14	Identifies component GTIN, when applicable	Required when GTIN is used to identify the component. Must have already be assigned and communicated in the item master prior to sending the record.

**ISA Item Master File
Assortments and Kits**

10	ComponentProductID	Component Product Identifier	C	AN	1/30	Primary Product Identification used by the Manufacturer or Brand Owner to identify the component.	Required when GTIN is not used to identify the component. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the record.
11	ComponentProductPackageType	Component packaging type (trade item unit indicator) for this product	C	AN	2/2	Code to describe what type of package unit this trade item is.	Required when GTIN is not used to identify the component. Otherwise not needed. Must have already be assigned and communicated in the item master prior to sending the record. Normally would be a base unit (BU) but could be a bigger unit such as inner packs or cases. Also non-orderable units smaller than a base unit (consumer units (CU)) could be components.
12	ComponentQuantity	Quantity of this component in an assortment/kit	M	N	1/10	To specify quantity of a component in the assortment/kit	

ISA Item Assortments or Kits Examples

A.	<p>Summary: Manufacturer creates an orderable product assortment to make it more convenient for the distributor to order or to promote a group of similar products. The assortment has already been assigned a ProductID and has previously been sent as a new product. The components that make up the convenience assortment have also been previously sent. (Either the GTIN or ComponentProductID, Component Prod Pkg Ty should be sent.) These records identify which items and quantities make up the assortment. It is assumed that the distributor can sell the individual components but will not necessarily sell or inventory the assortment.</p>						
	GTIN	Manufacturer ID	Manufacturer ID Qualifier	Product ID	Product Package Type	Total Components	Component Number
a1	0614141012411	0614141000005	GLN	B1235	BU	4	1
a2	0614141012411	0614141000005	GLN	B1235	BU	4	2
a3	0614141012411	0614141000005	GLN	B1235	BU	4	3
a4	0614141012411	0614141000005	GLN	B1235	BU	4	4

ISA Item Assortments or Kits Examples

A.					
	Component MaintCd	Component GTIN	Component ProductID	Component Product Package Type	Component Quantity
a1	A	0614141012305			1
a2	A		A15	BU	3
a3	A		C6500	BU	1
a4	A	0614141015290			2