

GCA Standard 134-1998

### **EMBARC/X12 - 1998** Electronic Manifest and Receiving Advice for Paper Used in Publishing and Printing

Prepared by GCA's Electronic Data Interchange Committee

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#### **Background:**

The Graphic Communication Association (GCA) became Idealliance in 2001 to better serve all segments of the graphic and visual communications value chain. Idealliance is a not-for-profit industry association with a history of innovation and transformation going back to 1896 with particular emphasis on supply chain best practices and specifications in color management, digital content, forest and paper products, production workflow, and mail. This updated copy of the Electronic Manifest and Receiving Advice for Paper Used in Publishing and Printing (EMBARC) / X12 standard serves as a snapshot in time of a widely used specifications for roll and sheet paper shipping and receiving transaction sets, along with data segments, data elements and codes for paper handling.



### EMBARC/X12-1998

#### Ship Notice and Receiving Advice for Paper Used in Printing and Publishing

#### Introduction

EMBARC represents a pioneering and successful use of electronic data interchange (EDI) in American industry. In 1985 - well before most other industries began planning for EDI - a GCA committee issued the first release of Specification EMBARC: Electronic Manifest and Bar Coding of Paper Stock Shipments, establishing a standard format for an electronic manifest sent from paper mills to printers. This new specification improves on the original EMBARC in a number of ways:

- Updates EMBARC in the national standard format for EDI
- · Provides date fields with century information for unambiguous compliance with year 2000 requirements
- · Adds a matching receiving advice transaction to acknowledge receipt and notify the supplier immediately of problems
- · Recommends best practices for getting the most value out of these transactions

#### EMBARC makes unit based inventories happen

Original EMBARC transmissions consist of a series of flat files, in either 80 or 128 character records, with each record identified by a two- or three-character code. The position of the field in the record determines the meaning of the field. This simple and straightforward design has made EMBARC easy to implement and encouraged its growth throughout the industry.

EMBARC enables printers and print customers to gain more detailed information about their paper inventories. When combined with a unique unit identification scheme, EMBARC allows receivers of paper shipments to capture individual roll or skid numbers transferred electronically from the paper suppliers. Since the paper suppliers generate those roll or skid numbers from their computer systems, customers can enter this detailed information without re-keying (a common source of errors). As a result, customers can learn much more about their paper inventories, with little or no additional cost or staffing.

These unit-based inventories allow paper customers to manage inventories more closely and reduce safety cushions caused by the uncertainty of lot- or weight-based systems. Unit-based inventories also encourage printers to track paper use through their entire production cycles, to reduce paper waste. Where print customers furnish paper used in print jobs, they often require close accounting of these valuable resources, including reports of waste and usage. Unit-level inventories make this close management of paper possible, and paper customers often receive electronic manifests as well as the printers.

#### Why fix EMBARC?

While EMBARC quickly became a successful EDI specification, it has its limitations. EMBARC preceded the development of the manifest/ ship notice transaction set found in the North American standard for EDI known as X12. As companies began to use other EDI transactions in the X12 standard, or exchange transactions outside the printing/publishing industry, they found the need to support both the EMBARC and X12 standards. GCA's EDI committee released an X12 version of EMBARC in 1991 that found some use in the industry, but the simple fixed-length field format of the original EMBARC maintained many of its followers.

As the year 2000 approaches, however, the fixed-length field format of EMBARC becomes more of a liability than an asset. EMBARC uses date fields in the classic Year/Month/Day or YYMMDD format. Since these fields have fixed lengths, one cannot simply add two positions for century, without having to rewrite each of the records with date information. With companies needing to transfer date information in unambiguous formats, i.e. with century clearly identified, original EMBARC will not work.

GCA's EDI Committee decided to update its X12 version of EMBARC, rather than rewriting the original fixed-length field format. The committee also included many of the features from the EDI transactions developed by American Forest & Paper Association's EDI committee in 1993-94.

#### Best practices to makeEMBARC/X12 more valuable

GCA's group also recommended a number of best practices for companies using this transaction. These best practices include:

- Sending a receiving advice transaction to acknowledge receipt of the paper and immediately indicate any problems with the shipment; see the recommended format for this receiving advice transaction that accompanies the ship notice/manifest
- Identifying multi-roll packages with the first roll in the package, rather than a separate package identifier, although the specification allows for separate package identifiers as well
- In the ship notice/manifest, adding a separate hierarchical level for tare (using code T) as a flag for shipments of sheeted rather than roll paper



#### A brief introduction to the X12 standard

Previous EMBARC users will find the format of this document considerably different from the original flat files. It uses the standard for EDI in North America known as X12. We offer a brief introduction to the X12 standard below. You can learn more about X12, and EDI in general, from the Data Interchange Standards Association, available on the Web at www.disa.org or by telephone at 703-548-7005.

The X12 standard divides into a series of transaction sets, roughly equivalent to hard-copy business documents such as invoices, purchase orders, and manifests. Some transaction sets, such as manifests, are widely applicable across many industries and, for that reason, have a great deal of flexibility built in. This flexibility, however, comes with a price - transactions can become very complex. GCA's EDI Committee has focused these transactions on established or desired business practices in the paper, publishing, direct marketing, and printing industries, stripping away the irrelevant parts of the standard and simplifying them considerably.

The X12 standard divides transaction sets into three main parts - header, detail, and summary. Header information covers items applicable to the transaction as a whole, such as the parties involved in the transaction. Detail includes the guts of the transaction, such as line items, product descriptions, and unit (roll or skid) descriptions. Summaries involve hash totals, such as number of line items in the transaction, and the number of segments transmitted.

The X12 standard uses data segments as the main building blocks of the transaction sets. Data segments are collections of related data elements, identified with unique two- or three-character codes. One often finds many of the same data segments repeated across many transactions. For example the name (N1) and date/time (DTM) segments appear in almost all transactions, including those in this document. The order of the segments listed in this document is the order in which they must appear in the transaction. Please note that a sender may repeat most segments in a transaction, but may also require a specified looping structure.

The ship notice/manifest transaction allows for two different structures of detail data segments, one for roll paper and one for sheeted paper. Each structure has a somewhat different hierarchy for organizing information in the detail part of the transaction.



ROLL PAPER HIERARCHY:	SHEETED PAPER HIERARCHY:	INFORMATION IN THIS LEVEL:
Shipment	Shipment	Parties in the transaction, dates, times
Order Order Order Purchase order references and totals, if r covered in shipment		Purchase order references and totals, if more than one p.o. covered in shipment
	Tare	Number of skids or pallets and types, tare weights
Product Description	Product Description	Grade name, basis weights, totals for each product
Item	Item	Roll, package, skid identifiers and weights

Data segments then are comprised of a series of data elements. The name (N1) segment for example has one data element for a qualifier -code number -from a table in the X12 standard to identify each of the parties in the transaction, such as the supplier, ship-to location, or purchaser. The next data element in the segment is the name of the entity. Another qualifier element, this time with codes to describe the type of identification code, follows the name. The identification codes recommended for these transactions are DUNS numbers or for book publishers the Standard Address Number (SAN) assigned by the Book Industry Systems Advisory Committee. The actual code number follows this qualifier.

Readers will see a few references to composite data elements, which are separate collections of data elements within data segments. In these transactions however, we use only one data element within composite elements.

Former EMBARC users will find other differences in data elements. The standard calls for minimum and maximum lengths of data elements, rather than fixed length data elements as in the original EMBARC. As a result, senders need delimiters between the data elements; asterisks (\*) in these transactions. Where senders of transactions need to skip optional data elements or those not recommended for our industry, they need only repeat the asterisk for each data element skipped. For example, skipping the first (optional) data element in a line item (LIN) data segment reads:

LIN\*\*PO\*123456 n/l

The n/l at the end of a data segment indicates next-line indicator.

#### **Contents of this document**

This EMBARC/X12 publication has five parts

- Specifications for the ship notice/manifest transaction set, giving the recommended data segments, data elements, and codes
- Examples of the ship notice/manifest for roll and sheeted paper
- A mapping guide giving the translation of each original EMBARC record and field into EMBARC/X12 data segments and elements
- · Specifications for the receiving advice transaction set, giving the recommended data segments, data elements, and codes
- Examples of the receiving advice, matched to the data in the ship notice/manifest



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The group benefited from the invaluable contributions of the following individuals:

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Eric Wee, EDIWISE.



# GCA Standard<br/>1998 - 134EMBARC/X12: Ship Notice/Manifest for Paper<br/>Used in Publishing and Printing

This document contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information.

The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

#### **Heading:**

Pos	ID	Segment Name	Reg	Max Use	Repeat	Notes	Page Number
010	ST	Transaction Set Header	М	1			7
020	BSN	Beginning Segment for Ship Notice	М	1			8
040	DTM	Date/Time Reference	0	10			9

#### **Detail:**

Pos	ID	Segment Name	Reg	Max Use	Repeat	Notes	Page Number
Loop I	D-HL			200000			
010	HL	Hierarchical Level	М	1			10
020	LIN	Item Identification	0	1			11
050	PRF	Purchase Order Reference	0	1			13
060	PO4	Item Physical Details	0	1			14
070	PID	Product/Item Description	0	200			16
080	MEA	Measurements	0	40			18
100	PKG	Marking, Packaging, Loading	0	25			20
120	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12			22
130	TD3	Carrier Details (Equipment)	0	12			24
150	REF	Reference Identification	0	>1			25
190	MAN	Marks and Numbers	0	>1			26
200	DTM	Date/Time Reference	0	10			27
Loop l	D-NI				200000		
220	N1	Name	0	1			28
240	N4	Address Information	0	2			29
250	N4	Geographic Location	0	1			30
260	REF	Reference Identification	0	12			31
270	PER	Administrative Communications Contact	0	3			32

#### **Summary:**

Pos	ID	Segment Name	Reg	Max Use	Repeat	Notes	Page Number
010	CTT	Transaction Totals	0	1		33	
020	SE	Transaction Set Trailer	М	1		34	



#### ST Transaction Set Header Pos: 101 Max: 1 Heading - Mandatory Loop: N/A Elems: 2

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

#### **Element Summary:**

Ref	ID	Element N	ame	Reg	Туре	MinMax
ST01	143	Transactio	n Set Identifier Code	М	ID	3/3
		Descriptio	n: Code uniquely identifying a Transaction Set			
		Code	Name			
		856	Ship Notice/Manifest	_		
ST02	329	Transactio	n Set Control Number	М	AN	4/9
		Descriptio	n: Identifying control number that must be unique			
		within the	transaction set functional group assigned by the			
		originator	for a transaction set			

#### Semantics:

I. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 856 selects the Manifest/Ship Notice Transaction Set).



RCNI	Beginning Segment for Ship Notice	Pos: 020 Heading - Mandatory	Max: 1
DJIN	beginning beginern for onip rotice	Loop: N/A	Elems: 4

To transmit identifying numbers, dates, and other basic data relating to the transaction set

#### **Element Summary:**

Ref	ID	Element N	/ame	Reg	Туре	MinMax
BSN01	353		on Set Purpose Code	М	ID	2/2
		Descriptio	n: Code identifying purpose of transaction set			
		Code	Name			
		00	Original			
		01	Cancellation			
		05	Replace			
		07	Duplicate			
BSN02	396	Shipment	Identification	М	AN	2/30
		Descriptio	n: A unique control number assigned by the original			
		shipper to	identify a specific shipment			
BSN03	373	Date		М	DT	8/8
		Descriptio	n: Date expressed as CCYYMMDD			
BSN04	337	Time		М	TM	4/8
		Descriptio	n: Time expressed in 24-hour clock time as follows:			
		HHMM, or	HHMMSS, or HHMMSSD, or HHMMSSDD, where H =			
		hours (00-	23), M = minutes (00-59), S = integer seconds (00-59) and			
			nal seconds; decimal seconds are expressed as follows: D			
			-9) and DD = hundredths (00-99)			

#### Semantics:

- l.  $\,$  BSN03 is the date the shipment transaction set is created.
- 2. BSN04 is the time the shipment transaction set is created.



## DTM Date/Time Reference

Pos: 040 Max: 10 Heading - Optional Loop: N/A Elems: 4

To specify pertinent dates and times

#### **Element Summary:**

Ref	ID	Element Name	Reg	Туре	MinMax
DTM01	374	Date/Time Qualifier	М	ID	3/3
		Description: Code specifying type of date or time, or both date and			
		time			

CodeName011Shipped

DTM02	373	Date	С	DT	8/8
		Description: Date expressed as CCYYMMDD			
DTM03	337	Time	С	TM	4/8
		Description: Time expressed in 24-hour clock time as follows:			
		HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where			
		H =hours (00- 23), M = minutes (00-59), S = integer seconds			
		(00-59) and DD = decimal seconds; decimal seconds are expressed			
		as follows: D = tenths (0-9) and DD - hundredths (00-99)			
DTM04	623	Time	0	ID	2/2
		Description: Code identifying the time			

Code	Name
СТ	Central Time
ET	Eastern Time
LT	Local Time - Use for times outside the continental USA
MT	Mountain Time
РТ	Pacific Time

#### Syntax:

R020305 - At least one of DTM02 or DTM03 is required. C0403 - If DTM04 is present, then DTM03 is required.



## Herarchical Level

Pos: 010 Max: 1 Detail - Mandatory Loop: HL Elems: 4

To identify dependencies among and the content of hierarchically related groups of data segments

#### **Element Summary:**

Ref	ID	Element Name	Reg	Туре	MinMax
HL01	628	Hierarchical ID Number	М	AN	1/12
		Description: A unique number assigned by the sender to identify a			
		particular data segment in a hierarchical structure			
HL02	734	Hierarchical Parent ID Number	0	AN	1/12
		Description: Identification number of the next higher hierarchical			
		data segment that the data segment being described is subordinate to			
HL03	735	Hierarchical Level Code	М	ID	1/2
		Description: Code defining the characteristic of a level in a			
		hierarchical structure			

Code	Name
D	Product Description
Ι	Item
0	Order
S	Shipment
Т	Shipping Tare - Used only for sheeted product

HLO4	736	Hierarchical Child Code	0	ID	1/1
		Description: Code indicating if there are hierarchical child data			
		segments subordinate to the level being described			

Code	Name
0	No Subordinate HL Segment in This Hierarchical
0	Structure.
т	Additional Subordinate HL Data Segment in
1	This Hierarchical Structure.

#### **Comments:**

- 1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
- 2. The HL segment defines a top-down/left-right ordered structure.
- 3. HL0I shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL0l could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.
- 7. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.



## LIN Item Identification

Pos: 020 Max: 1 Detail - Optional Loop: N/A Elems: 17

To specify basic item identification data

Ref	ID	Element Name	Reg	Туре	MinMax
LIN01	350	Assigned Identification	0	AN	1/20
		Description: Alphanumeric characters assigned for differentiation			
		within a transaction set			
LIN02	235	Product/Service ID Qualifier	М	ID	2/2
		Description: Code identifying the type/source of the descriptive			
		number used in Product/Service ID (234)			

Code	Name
BP	Buyer's Part Number
CL	Color
GC	Grade Code
GD	Grain Direction
GN	Grade Name
JP	Package Type Code
MA	Machine Number
PG	Packaging Specification Number - Use for
10	identifiers on multi-roll packages
PM	Number of Positions on Machine
PS	Position
RD	Reel Number
RO	Roll Number
RS	Set Number
SK	Stock Keeping Unit (SKU)
SN	Serial Number
SU	Side Up/Side Down
VN	Vendor's (Seller's) Item Number - Use for the
VIN	Sheeted Paper Identifier

LIN03	234	Product/Service ID	М	AN	1/48
		Description: Identifying number for a product or service			
LIN04	235	Product/Service ID Qualifier	C	ID	2/2
		Description: Code identifying the type/source of the descriptive			
		number used in Product/Service ID (234). See LIN02 for codes.			
LIN05	234	Product/Service ID	C	AN	1/48
		Description: Identifying number for a product or service			
LIN06	235	Product/Service ID Qualifier	C	ID	2/2
		Description: Code identifying the type/source of the descriptive			
		number used in Product/Service ID (234). See LIN02 for codes.			
LIN07	234	Product/Service ID	С	AN	1/48
		Description: Identifying number for a product or service			



LIN08	235	Product/Service ID Qualifier	C	ID	2/2
		Description: Code identifying the type/source of the descriptive			
		number used in Product/Service ID (234). See LIN02 for codes.			
LIN09	234	Product/Service ID	C	AN	1/48
		Description: Identifying number for a product or service			
LIN10	235	Product/Service ID Qualifier	С	ID	2/2
		Description: Code identifying the type/source of the descriptive			
		number used in Product/Service ID (234). See LIN02 for codes.			
LIN11	234	Product/Service ID	C	AN	1/48
		Description: Identifying number for a product or service			
LIN12	235	Product/Service ID Qualifier	C	ID	2/2
		Description: Code identifying the type/source of the descriptive			
		number used in Product/Service ID (234). See LIN02 for codes.			
LIN13	234	Product/Service ID	C	AN	1/48
		Description: Identifying number for a product or service			
LIN14	235	Product/Service ID	C	ID	2/2
		Description: Code identifying the type/source of the descriptive			
		number used in Product/Service ID (234). See LIN02 for codes.			
LIN15	234	Product/Service ID	C	AN	1/48
		Description: Identifying number for a product or service			
LIN16	235	Product/Service ID Qualifier	C	ID	2/2
		Description: Code identifying the type/source of the descriptive			
		number used in Product/Service ID (234). See LIN02 for codes.			
LIN17	234	Product/Service ID	С	AN	1/48
		Description: Identifying number for a product or service			

#### Syntax:

P0405 - If either LIN04 or LIN05 are present, then the others are required.

P0607 - If either LIN06 or LINO7 are present, then the others are required.

 $\mathsf{P0809}$  - If either LIN08 or LIN09 are present, then the others are required.

PI011 - If either LIN IO or LIN 11 are present, then the others are required.

Pl213 - If either LIN12 or LIN13 are present, then the others are required.

Pl415 - If either LIN14 or LIN15 are present, then the others are required. Pl617 - If either LIN16 or LIN17 are present, then the others are required.

#### **Semantics:**

I. LIN01 is the line item identification



### PRF Purchase Order Reference

Pos: 050 Max: 1 Detail - Optional Loop: N/A Elems: 4

To provide reference to a specific purchase order

#### **Element Summary:**

Ref	ID	Element Name	Reg	Туре	MinMax
PRF01	324	Purchase Order Number	М	AN	1/22
		Description: Identifying number for Purchase Order assigned by			
		the orderer/purchaser			
PRF02	328	Release Number	0	AN	1/30
		Description: Number identifying a release against a Purchase Order			
		previously placed by the parties involved in the transaction			
PRF03	327	Change Order Sequence Number	0	AN	1/8
		Description: Number assigned by the orderer identifying a specific			
		change or revision to a previously transmitted transaction set			
PRF04	373	Date	0	DT	8/8
		Description: Date expressed as CCYYMMDD			

#### Semantics:

I. PRF04 is the date assigned by the purchaser to purchase order.



## PO4 Item Physical Details

Pos: 060 Max: 1 Detail - Optional Loop: N/A Elems: 13

To specify the physical qualities, packaging, weights, and dimensions relating to the item

Ref	ID	Element Name	Reg	Туре	MinMax
PO401	356	Pack	0	N0	1/6
		Description: The number of inner containers, or number of			
		individual units if there are no inner containers, per outer			
		container. Use this data element to express the number of rolls in a			
		package.			
PO402	357	Size	С	R	1/8
		Description: Size of supplier units in pack			
PO403	355	Unit or Basis for Measurement Code	С	ID	2/2
		Description: Code specifying the units in which a value is being			
		expressed, or manner in which a measurement has been taken			

Code	Name
СМ	Centimeter
IN	Inch
MM	Millimeter

PO404	103	Packaging Code	С	AN	3/5
		<b>Description:</b> Code identifying the type of packaging; Part 1:			
		Packaging Form, Part 2: Packaging Material. If the Data Element is			
		used, then Part 1 is always required			

Code	Name
Part 1: Packag	zing Form
BOX	Box
CTN	Carton
MRP	Multi-Roll Pack
PLT	Pallet
ROL	Roll
SKD	Skid
Part 2: Packag	ring Material
76	Paper
79	Plastic
90	Standard
94	Wood

PO405	187	Weight Qualifier Not used in this implementation of the standard.	0	ID	1/2
PO406	384	<b>Gross Weight per Pack</b> Not used in this implementation of the standard.	С	R	1/9



Ref	ID	Element Name	Reg	Туре	MinMax
PO407	355	Unit or Basis for Measurement Code	C	ID	2/2
		Not used in this implementation of the standard.			
PO408	385	Gross Volume per Pack	C	R	1/9
		Not used in this implementation of the standard.			
PO409	355	Unit or Basis for Measurement Code	C	ID	2/2
		Not used in this implementation of the standard.			
PO410	82	Length	C	R	1/8
		Description: Largest horizontal dimension of an object measured			
		when the object is in the upright position			
PO411	189	Width	С	R	1/8
		Description: Shorter measurement of the two horizontal			
		dimensions measured with the object in the upright position			
PO412	65	Height	С	R	1/8
		Description: Vertical dimension of an object measured when the			
		object is in the upright position			
PO413	355	Unit or Basis for Measurement Code	С	ID	2/2
		Description: Code specifying the units in which a value is being			
		expressed, or manner in which a measurement has been taken.			
		See PO403 for codes.			

#### Syntax:

- 1. PO402 P0203 If either PO402 or PO403 are present, then the others are required.
- 2. PO410 C1013 If PO410 is present, then P0413 is required
- 3. PO411 C1113 If PO411 is present, then PO413 is required
- 4. P0412 C1213 If PO412 is present, then PO413 is required
- 5. PO413 L13101112 If PO413 is present, then at least one of PO410, PO411 or PO412 is required.

#### **Comments:**

- 1. PO403 The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
- 2. PO413 defines the unit of measure for PO410, PO411, and PO412.



PID

### Product/Item Description

Pos: 070 Max: 200 Detail - Optional Loop: N/A Elems: 5

To describe a product or process in coded or free-form format, in this case the AF&PA/GCA basis size codes and grain direction codes, and color and shade information from the seller.

Ref	ID	Element N	lame	Reg	Туре	MinMa
PID01	349		ription Type on: Code indicating the format of a description	М	ID	1/1
		Code	Name			
		F	Free-form			
		S	Structured (From Industry Code List)			
		Х	Semi-structured (Code and Text)			
PID02	750	Descriptio	Process Characteristic Code on: Code identifying the general class of a product or aracteristic	0	ID	2/3
		Code	Name			
		08	Product			
		35	Color			
		38	Grade			
		40	Shade			
		BW	Basis Weight Size			
		GD	Grain Direction			
PID03	559		nalifier Code on: Code identifying the agency assigning the code values	С	ID	2/2
		Code	Name			
		AS	Assigned by Seller - Use for color and shade codes/ descriptions			
		GC	Graphic Communications Association - Use for grain direction codes			
		PA	American Forest & Paper Assn - Use for basis weight size and recommended grade categories			



PID04	751	Product Description Code	С	AN	1/12
		Description: A code from an industry code list which provides			
		specific data about a product characteristic			

Code	Name
BASIS WEIG	HT SIZE CODES
А	17 in x 22 in
В	20 inx 26 in
С	20 in x 30 in
D	22.5 in x 28.5 in
Е	25.5 in x 30.5 in
F	24 in x 36 in
G	25 in x 38 in
Н	1,000 square ft
J	Grams per sq meter
GRAIN DIRE	ECTION CODES
L	Grain direction, Long
S	Grain direction, Short

See Appendix for recommended grade categories

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

#### Syntax:

C0403 - If PID04 is present, then PID03 is required R0405 - At least one of PID04 or 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.

#### **Comments:**

I. 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.



## MEA Measurements

Pos: 080 Max: 40 Detail - Optional Loop: N/A Elems: 4

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

Ref	ID	Element N		Reg	Туре	MinMax
MEA01	737	Descriptio	nent Reference ID Code on: Code identifying the broad category to which a nent applies	0	ID	2/2
		Code	Name			
		CS	Core Size			
		СТ	Counts			
		PD	Physical Dimensions			
		SP	Splices			
		WT	Weights			
MEA02	738	Descriptio	nent Qualifier on: Code identifying a specific product or process stic to which a measurement applies	0	ID	1/3
		Code	Name			
		В	Billed Weight			
		G	Gross Weight			
		N	Actual Net Weight			
		Т	Tare Weight			
		BK	Bulk			
		BW	Basis Weight			
		CA	Caliper			
		DI	Diameter			
		DN	Density			
		ID	Inside Diameter			
		LN	Length			
		NA	Number per Package			
		NU	Number per Unit			
		OD	Outside Diameter			
		TH	Thickness			
		WT	Weight			
MEA03	739	Measuren		С	R	1/20
		Descriptio	on: The value of the measurement			



Ref	ID	Element Name	Reg	Туре	MinMax
MEA04	C001	Composite Unit of Measure	С	Com	
		Description: To identify a composite unit of measure		р	
	355	Unit or Basis for Measurement Code	М	ID	2/2
		Description: Code specifying the units in which a value is being			
		expressed, or manner in which a measurement has been taken			

Code	Name
BX	Box
СМ	Centimeter
СТ	Carton
FT	Foot
GR	Gram
IN	Inch
KG	Kilogram
LB	Pound
LF	Linear Foot
LM	Linear Meter
LR	Layer(s)
MM	Millimeter
MP	Metric ton
NS	Short Ton
PK	Package
PL	Pallet/Unit Load
PQ	Pages per Inch
RL	Roll
RM	Ream
SH	Sheet
SV	Skid
UN	Unit

#### Syntax:

1. MEA03 R03050608 - MEA03 is required.

#### **Semantics:**

1. MEA04 defines the unit of measure for MEA03.



PKG

### Marking, Packaging, Loading

Pos: 100 Max: 25 Detail - Optional Loop: N/A Elems: 4

To describe marking, packaging, loading, and unloading requirements, in this case industry codes for cores and skids.

Ref	ID	Element Name	Reg	Туре	MinMax
PKG01	349	Item Description Type Description: Code indicating the format of a description	С	ID	1/1
		Code Name			
		Code     Name       S     Structured (From Industry Code List)			
PKG02	753	Packaging Characteristic Code           Description: Code specifying the marking, packaging, loading and related characteristics being described	0	ID	1/5
		Code Name			
		65     Core Characteristics       68     Skid/Pallet Type			
PKG03	559	Agency Qualifier Code         Description: Code identifying the agency assigning the code values	С	ID	2/2
PKG04	754	Packaging Description Code         Description: A code from an industry code list which provides         specific data about the marking, packaging or loading and unloading         of a product	С	AN	1/7

Code	Name
Core 1	Material, Alpha
F	Fiber, reinforced
Н	Fiber, high strength
Х	Fiber, extra high strength
U	Fiber, ultra high strength
I	Iron
S	Steel
А	Aluminum



Core 2	End-type, Alpha
Р	Plain
Ν	Notched
М	Notched, full metal (tip or cap)
С	Plain full metal (tip or cap)
Н	Notched, half-metal (tip or cap)
Ι	Insert or sleeve
В	Bridge or half-notch
V	Beveled
Т	Tapered
Skid l	Position 1, Material
С	Compressed wood chip, as used in USPS
Р	Plastic
W	Wood
Skid 2	Position 2, Construction
2	Two sides
4	Four sides

#### Syntax:

R040506 - PKG04 is required. C0403 - If PKG04 is present, then PKG03 is required

#### **Semantics:**

1. PKG04 should be used for industry-specific packaging description codes.

#### **Comments:**

- 1. Use the MEA (Measurements) segment to define dimensions of the core, i.e. inside and outside diameters.
- 2. Use PKG03 to indicate the organization that publishes the code list being referred to.



# Carrier Details (Routing<br/>Sequence/Transit Time)Pos: 120<br/>Detail - Optional<br/>Loop: N/AMax: 12<br/>Detail - Optional<br/>Elems: 5

To specify the carrier and sequence of routing and provide transit time information

Ref	ID	Element N	Jame	Reg	Туре	MinMa
TD501	133	Descriptio	equence Code on: Code describing the relationship of a carrier to a ipment movement	0	ID	1/2
		Code	Name			
		1	1st Carrier after Origin Carrier			
		2	2nd Carrier after Origin Carrier			
		Α	Origin Carrier Agent's Routing (Rail)			
TD502	66	Descriptio	tion Code Qualifier on: Code designating the system/method of code used for Identification Code (67)	С	ID	1/2
		0.1	X			
		Code	Name			
		1	D-U-N-S Number, Dun & Bradstreet			
		2	Standard Carrier Alpha Code (SCAC)			
		9	D-U-N-S+4,D-U-N-S Number with Four Character Suffix			
		20	Standard Point Location Code (SPLC)			
		91	Assigned by Seller or Seller's Agent			
		92	Assigned by Buyer or Buyer's Agent			
TD503	67	Identificat	tion Code	С	AN	2/80
		Descriptio	on: Code identifying a party or other code			
TD504	91	-	ation Method/Type Code	С	ID	1/2
		<b>Descriptio</b> for the shi	<b>on:</b> Code specifying the method or type of transportation pment			

Code	Name
А	Air
В	Barge
М	Motor (Common Carrier)
0	Containerized Ocean
R	Rail
Х	Intermodal (Piggyback)
CE	Customer Pickup/ Customer's Expense
LT	Less Than Trailer Load (L TL)
VE	Vessel,Ocean
VL	Vessel,Lake



Ref	ID	Element Name	Reg	Туре	MinMax
TD505	387	Routing	С	AN	1/35
		Description: Free-form description of the routing or requested			
		routing for shipment, or the originating carrier's identity			

#### Syntax:

R0204050612 -At least one of TD502, TD504, or TD505 is required. C0203 - If TD502 is present, then TD503 is required

#### **Comments:**

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.



<b>TD 7</b>		Pos: 130	Max: 12
TD3	Carrier Details (Equipment)	Detail - Optional	
		Loop: N/A	Elems: 3

To specify transportation details relating to the equipment used by the carrier

#### **Element Summary:**

Ref	ID	Element N	lame	Reg	Туре	MinMax
TD301	40		<b>t Description Code</b> <b>on:</b> Code identifying type of equipment used for shipment	С	ID	2/2
		Code	Name			
		AF	Air Freight (Break Bulk)			
		BR	Barge			
		BX	Boxcar			
		CN	Container			
		RF	Flat Car			
		RR	Rail Car			
		TL	Trailer (not otherwise specified)			
		TV	Truck,Van			
		VE	Vessel,Ocean			
		VL	Vessel,Lake			
		VT	Vessel,Containership			
TD302	206	Equipmen	t Initial	0	AN	1/4
		<b>Descriptio</b> identifying	on: Prefix or alphabetic part of an equipment unit's gnumber			
TD303	207	<b>Equipment Number</b> <b>Description:</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number		С	AN	1/10

#### Syntax:

C0203 - If TD302 is present, then TD303 is required

is preferred)



REF

### Reference Identification

Pos: 150 Max: >1 Detail - Optional Loop: N/A Elems: 3

To specify identifying information

#### **Element Summary:**

Ref	ID	Element N	ame	Reg	Туре	MinMax
REF01	128		<b>Identification Qualifier</b> <b>n:</b> Code qualifying the Reference Identification	М	ID	2/3
		Code Name	Name			
		97	Package Number	-		
		AP	Accounts Receivable Number			
		BM	Bill of Lading Number			
		EQ	Equipment Number			
		MI	Mill Order Number			
		SN	Seal Number			
		SO	Shipper's Order (Invoice Number)			
		VP	Vendor Product Number			
REF02	127	Reference	Identification	C	AN	1/30
		Descriptio	n: Reference information as defined for a particular			
			n Set or as specified by the Reference Identification			
		Qualifier				
REF03	352	Descriptio		C	AN	1/80
		-	<b>n:</b> A free-form description to clarify the related data			
		elements a	nd their content			

#### Syntax:

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



Pos: 190		Max: >1
	Detail - Optiona	l
Loop: N/A		Elems: 2

## MAN Marks and Numbers

To indicate identifying marks and numbers for shipping containers

Ref	ID	Element Name	Reg	Туре	MinMax
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2
		Description: Code specifying the application or source of Marks			
		and Numbers (87)			

Code	Ivame			
L	Line Item Only			
S	Entire Shipment			
SM	Shipper Assigned			
SR	Shipper Assigned Roll Number			
SS	Shipper Assigned Skid Number			
37 Marks and	Marks and Numbers		AN	1/48

MAN02	87	Marks and Numbers	М	AN	1/48
		Description: Marks and numbers used to identify a shipment or			
		parts of a shipment			



## DTM Date/Time Reference

Pos: 200 Max: 10 Detail - Optional Loop: N/A Elems: 2

To specify identifying information

#### **Element Summary:**

Ref	ID	Element N	ame	Reg	Туре	MinMax
DTM01	374	Date/Time	Qualifier	М	ID	3/3
		Descriptio	n: Code specifying type of date			
		Code	Name			
		004	Purchase Order			
		094	Manufacture			
		096	Discharge (from port)			
DTM02	373	Date		С	DT	8/8
		Descriptio	n: Date expressed as CCYYMMDD			

#### Syntax:

l. DTM02 R020305 - DTM02 is required.



Name

Pos: 220 Max: 1 Detail - Optional Loop: N1 Elems: 4

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

Ref	ID	Element Name	Reg	Туре	MinMax
N101	98	Entity Identifier Code	М	ID	2/3
		Description: Code identifying an organizational entity, a physical			
		location, property or an individual			

Code	Name
BO	Broker or Sales Office
BY	Buying Party (Purchaser)
CA	Carrier
CB	Customs Broker
MA	Party for whom Item is Ultimately Intended
MP	Manufacturing Plant
SD	Sold To and Ship To
SE	Selling Party
SF	Ship From
SO	Sold To If Different From Bill To
ST	Ship To
SU	Supplier/Manufacturer
UC	Ultimate Consignee
VN	Vendor
WH	Warehouse

N102	93	Name	С	AN	1/60
		Description: Free-form name			
N103	66	Identification Code Qualifier	С	ID	1/2
		Description: Code designating the system/method of code			
		structure used for Identification Code (67)			

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
15	Standard Address Number (SAN)

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



#### Syntax:

- I. N102 R0203 At least one of N102 or N103 is required.
- 2. NI03 P0304 If either N103 or N104 are present, then the others are 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.



## N3 Address Information

Pos: 240 Max: 2 Detail - Optional Loop: N/A Elems: 2

To specify the location of the named party

Ref	ID	Element Name	Reg	Туре	MinMax
N301	166	Address Information	М	AN	1/55
		Description: Address information			
N302	166	Address Information	0	AN	1/55
		Description: Address information			



**N4** 

### Geographic Location

Pos: 250 Max: 1 Detail - Optional Loop: N/A Elems: 4

To specify the geographic place of the named party

#### **Element Summary:**

Ref	ID	Element Name	Reg	Туре	MinMax
N401	19	City Name	0	AN	2/30
		Description: Free-form text for city name			
N402	156	State or Province Code	0	ID	2/2
		Description: Code (Standard State/Province) as defined by			
		appropriate government agency			
N403	116	Postal Code	0	ID	3/15
		Description: Code defining international postal zone code excluding			
		punctuation and blanks (zip code for United States)			
N404	26	Country Code	0	ID	2/3
		Description: Code identifying the country			

#### **Comments:**

- 1. The combination of N401 through N404 specifies a location.
- 2. N402 is required only if city name (N401) is in the U.S. or Canada.



REF

### Reference Identification

Pos: 260 Max: 12 Detail - Optional Loop: N/A Elems: 3

To specify identifying information

#### **Element Summary:**

Ref	ID	Element N	ame	Reg	Туре	MinMax
REF01	128	Reference	Identification Qualifier	М	ID	2/3
		Descriptio	n: Code qualifying the Reference Identification			
				_		
		Code	Name			
		CG	Consignee's Order Number			
		CO	Customer Order Number			
		СТ	Contract Number			
		JB	Job (Project) Number			
		MI	Mill Order Number			
		РО	Purchase Order Number			
			······			
REF02	127	Reference	Identification	С	AN	1/30
		Descriptio	n: Reference information as defined for a particular			
		Transaction	n Set or as specified by the Reference Identification			
		Qualifier				
REF03	352	Descriptio		C	AN	1/80
		Descriptio	n: A free-form description to clarify the related data			
		elements a	nd their content			

#### Syntax:

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



### PER Administrative Communications Contact

Pos: 270 Max: 3 Detail - Optional Loop: N/A Elems: 4

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

#### **Element Summary:**

Ref	ID	Element N	ame	Reg	Туре	MinMax
PER01	366	Contact Fu	unction Code	М	ID	2/2
		Descriptio	n: Code identifying the major duty or responsibility of the			
		person or §	group named			
		Code	Name			
		IC	Information Contact			
PER02	93	Name		0	AN	1/60
		Descriptio	n: Free-form name			
PER03	365	Communio	cation Number Qualifier	С	ID	2/2
		Descriptio	n: Code identifying the type of communication number			
		Code	Name			
		TE	Telephone			

PER04	364	Communication Number	С	AN	1/80
		Description: Complete communications number including country			
		or area code when applicable			

#### Syntax:

I. PER03 P0304 - If either PER03 or PER04 are present, then the others are required.



## CTT Transaction Totals

Pos: 010 Max: 1 Summary - Optional Loop: N/A Elems: 4

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

#### **Element Summary:**

Ref	ID	Element Name	Reg	Туре	MinMax
CTT01	354	Number of Line Items	М	N0	1/6
		Description: Total number of line items in the transaction set			

#### **Comments:**

- I. This segment is intended to provide hash totals to validate transaction completeness and correctness.
- 2. Number of line items (CTT01) is the accumulation of the number of HL segments.



# SE

## Transaction Set Trailer

Pos: 020 Max: 1 Summary - Mandatory Loop: N/A Elems: 2

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:**

Ref	ID	Element Name	Reg	Туре	MinMax
SE01	96	Number of Included Segments	М	N0	1/10
		Description: Total number of segments included in a transaction set			
		including ST and SE segments			
SE02	329	Transaction Set Control Number	М	AN	4/9
		Description: Identifying control number that must be unique within			
		the transaction set functional group assigned by the originator for a			
		transaction set			

### **Comments:**

I. SE is the last segment of each transaction set.



## EMBARC/X12 Roll paper example

## Manifest with multiple products, and single and multi-roll packages

Manifest and shipment information	1004500
Transaction control number	1234560
Manifest number	1234567
Manifest date and time	November 1, 2000
	9:05 am
Shipment date and time	October 31 , 2000
	1:05 pm
Sold to: ABC Publishers	DUNS+4: 123456789-0001
Purchase order number	1122233A
Ship to: XYZ Printers, ABC plant	DUNS+4: 234567891-0001
Consignee purchase order number	234567
Sollow 777 Donor Commercia	DUNS 4. 245670010 0001
Seller: ZZZ Paper Company	DUNS+4: 345678912-0001
Ship from: AAA mill AF&PA/CPPA mill code	DUNS+4: 345678912-0002
	ZZ2
Mill order number	654321
Carrier: BBB Transport	DUNS+4: 456789123-0001
Transportation mode	Truck
Vehicle ID	XTL 14803
Seal number	576579
Bill of lading	BOL974672
Shipment details	
Product 1. Grade name	Quality Web Offset
Grade code	WO40
Stock keeping unit (SKU) code	WP26635
Basis weight	40 lb
Color code (white)	WHT
Roll width	33.5 in
Roll diameter	40.0 in
Core weight	18 lb
Roll core type and dimensions	Iron core, plain end
non core type and unitensions	Inside diameter = 3 in
	Thickness = 1 in
Number of rolls in package	1  mickness = 1  m
Number of rolls in package	1



Product in shipment, by roll ID	Net weight
ZZ240K2025300	893 lbs
ZZ240K2025325	869
ZZ240K2025350	877
ZZ240K2025399	889
ZZ240K2026100	896
ZZ240K2026133	879
Total number of rolls for product 1	6
Gross weight	5,411 lbs
Tare weight	108
Net weight	5,303
i i i i i i i i i i i i i i i i i i i	0,000
Product 2, Grade name	Quality Web Offset
Grade code	WO36
Stock keeping unit (SKU) code	WO43633540-2
Basis weight	36 lb
Color code (white)	WHT
Roll width	27.0 in
Roll diameter	40.0 in
Core weight	5 lb
Roll core type and dimensions	Fiber core/high strength, tapered end
	Inside diameter = 3 in
	Thickness = 1 in
Number of rolls in package	2
Number of rolls in package	2
	2
Product in shipment,	
Product in shipment, by package and roll ID	2 Net weight
Product in shipment, by package and roll ID Package ID: ZZ210K2510100	Net weight
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100	Net weight 897 lbs
Product in shipment, by package and roll ID Package ID: ZZ210K2510100	Net weight
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133	Net weight 897 lbs
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167	Net weight 897 lbs 897
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167 ZZ210K2510167	Net weight 897 lbs 897 896
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167	Net weight 897 lbs 897
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167 ZZ210K2510167 ZZ210K2510199	Net weight 897 lbs 897 896
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167 ZZ210K2510167 ZZ210K2510199 Package ID: ZZ210K2410250	Net weight 897 lbs 897 896 895
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167 ZZ210K2510167 ZZ210K2510199	Net weight 897 lbs 897 896
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167 ZZ210K2510167 ZZ210K2510199 Package ID: ZZ210K2410250	Net weight 897 lbs 897 896 895
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167 ZZ210K2510167 ZZ210K2510199 Package ID: ZZ210K2410250 ZZ210K2410250 ZZ210K2410275	Net weight 897 lbs 897 896 895 879 879
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167 ZZ210K2510167 ZZ210K2510199 Package ID: ZZ210K2410250 ZZ210K2410250 ZZ210K2410275 Total packages for product 2	Net weight 897 lbs 897 896 895 879 879 879
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167 ZZ210K2510167 ZZ210K2510199 Package ID: ZZ210K2410250 ZZ210K2410250 ZZ210K2410275	Net weight 897 lbs 897 896 895 879 879
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167 ZZ210K2510167 ZZ210K2510199 Package ID: ZZ210K2410250 ZZ210K2410250 ZZ210K2410275 Total packages for product 2	Net weight 897 lbs 897 896 895 879 879 879
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167 ZZ210K2510167 ZZ210K2510199 Package ID: ZZ210K2410250 ZZ210K2410250 ZZ210K2410275 Total packages for product 2 Total number of rolls for product 2	Net weight 897 lbs 897 896 895 879 879 879 3 6
Product in shipment, by package and roll ID Package ID: ZZ210K2510100 ZZ210K2510100 ZZ210K2510133 Package ID: ZZ210K2510167 ZZ210K2510167 ZZ210K2510199 Package ID: ZZ210K2410250 ZZ210K2410250 ZZ210K2410275 Total packages for product 2 Total number of rolls for product 2 Gross weight	Net weight 897 lbs 897 896 895 879 879 879 3 6 5,373 lbs



#### Multiple product example in X12 format

#### Header information

Transaction set header Manifest number, date and time Shipment date and time

#### Shipment detail

Total rolls in shipment Total packages in shipment Total gross weight Total tare weight Total net weight

#### **Transportation:**

Carrier initial and trailer number Seal number Bill of lading number Carrier name and DUNS number

#### Parties in the transaction and references:

Sold-to name and DUNS number Buyer's purchase order Ship-to name and DUNS number Consignee (ship-to) order reference Supplier's name and DUNS number Ship-from mill name and DUNS number Mill order number

#### Product detail, product 1

Grade code, grade name, SKU, color No. of rolls in package, width, diameter Basis weight size (code G) Basis weight, product 1 Total number of rolls product 1 Total gross weight for product 1 Total tare weight for product 1 Total net weight for product 1 Individual core weight Roll core inside diameter Roll core thickness Roll core type ST\*856\*1234560 n/l BSN\*00\*1234567\*20001101\*0905 n/l DTM\*011\*20001031 \*1305 n/l

HL\*1\*\*S\*1 n/l MEA\*CT\*\*12\*RL n/l MEA\*CT\*\*9\*PK n/l MEA\*WT\*G\*10784\*LB n/l MEA\*WT\*T\*138\*LB n/l MEA\*WT\*N\*10646\*LB n/l

TD3\*TL\*XTL\*14803 n/l REF\*SN\*576579 n/l REF\*BM\* BOL974672 n/l N1\*CA\*BBB Transport\*9\*4567891230001 n/l

N1\*SO\*ABC Publishers\*9\*1234567890001 n/l REF\*PO\*1122233A n/l N1\*ST\*XYZ Printers, ABC plant\*9\*2345678910001 n/l REF\*CG\*234567 n/l N1\*SU\*ZZZ Paper\*9\*3456789120001 n/l N1\*SF\*AAA mill\*9\*3456789120002 n/l REF\*MI\*654321 n/l

HL\*2\*1\*D\*1 n/l LIN\*\*GC\*WO40\*GN\*Quality Web Offset\*SK\* WP26635\*CL \*WHT n/l PO4\*1\*33.5\*IN\*ROL76\*\*\*\*\*\*40\*IN n/l PID\*S\*BW\*PA\*G n/l MEA\*WT\*BW\*40\*LB n/l MEA\*WT\*6\*5411\*LB n/l MEA\*WT\*G\*5411\*LB n/l MEA\*WT\*N\*5303\*LB n/l MEA\*WT\*N\*5303\*LB n/l MEA\*CS\*WT\*18\*LB n/l MEA\*CS\*TD\*3\*IN n/l MEA\*CS\*TH\*1\*IN n/l PKG\*S\*65\*GC\*IC n/l



**Item detail, product 1** Roll number Net weight

Item detail, product 1 Roll number Net weight

**Product detail, product 2** Grade code, grade name, SKU, color

No. of rolls in package, width, diameter Basis weight size, product 2 (Code G) Basis weight, product 2 Individual core weight Total number of packages for product 2 Total number of rolls for product 2 Total gross weight for product 2 Total tare weight for product 2 Total net weight for product 2 Roll core inside diameter Roll core thickness Roll core type

#### Item detail, product 2

Package ID, roll number Net weight

Item detail, product 2 Roll number Net weight

Item detail, product 2 Package ID, roll number Net weight

Item detail, product 2 Roll number Net weight HL\*3\*2\*I n/l LIN\*\*RO\* ZZ240K2025300 n/l MEA\*WT\*N\*893\*LB n/l

HL\*4\*2\*I n/l LIN\*\*RO\* ZZ240K2025325 n/l MEA\*WT\*N\*869\*LB n/l

HL\*5\*2\*I n/l LIN\*\*RO\*ZZ240K2025350 n/l MEA\*WT\*N\*877\*LB n/l

HL\*6\*2\*I n/l LIN\*\*RO\*ZZ240K2025399 n/l MEA\*WT\*N\*889\*LB n/l

HL\*7\*2\*I n/l LIN\*\*RO\*ZZ240K2026100 n/l MEA\*WT\*N\*896\*LB n/l

HL\*8\*2\*I n/l LIN\*\*RO\*ZZ240K2026133 n/l MEA\*WT\*N\*879\*LB n/l

HL\*9\*1\*D\*I n/l LIN\*\*GC\*WO36\*GN\*Quality Web Offset \*SK\*WO3633540-2\*CL \*WHT n/l

PO4\*2\*27\*IN\*ROL76\*\*\*\*\*\*\*40\*IN n/l PID\*S\*BW\*PA\*G n/l MEA\*WT\*BW\*36\*LB n/l MEA\*CS\*WT\*5\*LB n/l MEA\*CT\*\*3\*PK n/l MEA\*CT\*\*6\*RL n/l MEA\*WT\*G\*5373 \*LB n/l MEA\*WT\*T\*30\*LB n/l MEA\*WT\*N\*5343\*LB n/l MEA\*CS\*ID\*3\*IN n/l MEA\*CS\*TH\*1\*IN n/l PKG\*S\*65\*GC\*HT n/l

HL\*10\*9\*1\*I n/l LIN\*\*PG\*ZZ210K2510100\*RO\* ZZ210K2510100 n/l MEA\*WT\*N\*897\*LB n/l

HL\*11\*10\*I n/l LIN\*\*RO\*ZZ210K2510133 n/l MEA\*WT\*N\*897\*LB n/l

HL\*12\*9\*1\*I n/l LIN\*\*PG\*ZZ210K2510167\*RO\*ZZ210K2510167 n/l MEA\*WT\*N\*896\*LB n/l

HL\*13\*12\*I n/l LIN\*\*RO\*ZZ210K2510199 n/l MEA\*WT\*N\*895\*LB n/l



Item detail, product 2 Package ID, roll number Net weight

Item detail, product 2 Roll number Net weight

#### Summary:

Number of HL segments in transaction Transaction set trailer HL\*14\*9\*I\*1 n/l LIN\*\*PG\*ZZ210K2401250\*RO\*ZZ210K2410250 n/l MEA\*WT\*N\*879\*LB n/l

HL\*15\*14\*l n/l LIN\*\*RO\*ZZ210K2410275 n/l MEA\*WT\*N\*879\*LB n/l

CTT\*15 n/l SE\*86\*1234560 n/l



## Roll paper manifest with multiple orders

Manifest and shipment information Transaction control number Manifest number Manifest date and time

Shipment date and time

Sold to: ABC Publishers Ship to: XYZ Printers, ABC plant Seller: ZZZ Paper Company Ship from: AAA mill AF&PA/CPPA mill code

Carrier: BBB Transport Transportation mode Vehicle ID Seal number Bill of lading

Shipment details Order 1. Purchase order number and date Mill order number

Product data, order 1 Grade name Grade code Basis weight Basis weight size Color code (white) Roll width Roll diameter Core weight Roll core type and dimensions

Number of rolls in package

765432 20001101-2 November 1, 2000 11:05 pm November 1, 2000 10:00 pm DUNS+4: 123456789-0001 DUNS+4: 234567891-0001 DUNS+4: 345678912-0001 DUNS+4: 345678912-0002 ZZ2 DUNS+4: 456789123-0001 Truck XTL 14803 975675 LAD659823 97531, 10 October 2000 102938 Quality Web Offset WO40 40 lb 25 x 38 in (Code G) WHT 33.5 in 40.0 in 18Ib

Iron core, plain end

1

Inside diameter= 3 in Thickness = 1 in



Product in shipment, by roll ID ZZ240K2025300 ZZ240K2025325 ZZ240K2025350 ZZ240K2025399 ZZ240K2026100 ZZ240K2026133	Net weight 893 lbs 869 877 889 896 879
Total number of rolls for order 1	6
Gross weight	5,411 lbs
Tare weight Net weight	108
Net weight	5,303
Order 2	
Purchase order number and date	97539, 14 October 2000
Mill order number	102985
Product data, order 2	Quality Web Offset
Grade name	WO40
Grade code	40 lb
Basis weight	25 x 38 in (Code G)
Basis weight size	WHT
Color code (white)	27.0 in
Roll width	40.0 in
Roll diameter	18 lb
Core weight	Iron core, plain end
Roll core type and dimensions	Inside diameter = 3 in
	Thickness = 1 in
Number of rolls in package	2
Product in shipment,	
by package and roll ID	Net weight
Package1D:ZZ210K2510100	i i ot i oi gitt
ZZ210K2510100	897 lbs
ZZ210K2510133	897
Package1D:ZZ210K2510167	
ZZ210K2510167	896
ZZ210K2510199	895
Dockage1D:77210/2410250	
Package1D:ZZ210K2410250 ZZ210K2410250	879
ZZ210K2410250 ZZ210K2410275	879 879
LL210K2410273	013
Total packages for order 2	3
Total number of rolls for order 2	6
Gross weight	5,451 lbs
Tare weight	108
Net weight	5,343
~	



#### Multiple order example in X12 format

**Header information** Transaction set header Manifest number, date and time Shipment date and time

#### Shipment detail

Total rolls in shipment Total packages in shipment Total gross weight Total tare weight Total net weight

Transportation: Carrier initial and trailer number Seal number Bill of lading number Carrier name and DUNS number

Parties in the transaction: Sold-to name and DUNS number Ship-to name and DUNS number

Supplier's name and DUNS number Ship-from mill name and DUNS number

#### Order 1 detail

Purchase order number and date Total number of rolls order 1 Total gross weight for order 1 Total tare weight for order 1 Total net weight for order 1 Mill order number

#### Product data, order 1

Grade code, grade name, color No. of rolls in package, width, diameter Basis weight size (code G) Basis weight, product 1 Individual core weight Roll core inside diameter Roll core thickness Roll core type ST\*856\*765432 n/l BSN\*00\*20001101-2\*20001101\*2305 n/l DTM\*011\*20001101\*2200 n/l

HL\*1\*\*1 n/l MEA\*CT\*\*12\*RL n/l MEA\*CT\*\*9\*PK n/l MEA\*WT\*G\*10862\*LB n/l MEA\*WT\*T\*216\*LB n/l MEA\*WT\*N\*10646\*LB n/l

TD3\*TL\*XTL\*14803 n/l REF\*SN\*576579 n/l REF\*BM\*LAD659823 n/l N1\*CA\*BBB Transport\*9\*4567891230001 n/l

N1\*SO\*ABC Publishers\*9\*1234567890001 n/l N1\*ST\*XYZ Printers, ABC plant\*9\* 2345678910001 n/l

N1\*SU\*ZZZ Paper\*9\*3456789120001 n/l N1\*SF\*AAA mill\*9\*3456789120002 n/l

HL\*2\*1\*O\*1 n/l PRF\*97531\*\*20001010 n/l MEA\*CT\*\*6\*RL n/l MEA\*WT\*G\*5411 \*LB n/l MEA\*WT\*T\*108\*LB n/l MEA\*WT\*N\*5303\*LB n/l REF\*MI\*102938 n/l

HL3\*2\*D\*1 n/l LIN\*\*GC\*W040\*GN\*Quality Web Offset\* CL \*WHT n/l PO4\*1\*33.5\*IN\*ROL76\*\*\*\*\*\*40\*IN n/l PID\*S\*BW\*PA\*G n/l MEA\*WT\*BW\*40\*LB n/l MEA\*CS\*WT\*18\*LB n/l MEA\*CS\*ID\*3\*IN n/l MEA\*CS\*TH\*1\*IN n/l PKG\*S\*65\*GC\*IC n/l



**Item detail, order 1** Roll number Net weight

Item detail. order 1 Roll number Net weight

Item detail. order 1 Roll number Net weight

Item detail, order 1 Roll number Net weight

Item detail, order 1 Roll number Net weight

Item detail, order 1 Roll number Net weight

#### Order 2 detail

Purchase order number and date Total number of packages for order 2 Total number of rolls for order 2 Total gross weight for order 2 Total tare weight for order 2 Total net weight for order 2 Mill order number

#### Product data, order 2

Grade code, grade name, color No. of rolls in package, width, diameter Basis weight size, product 2 (Code G) Basis weight, product 2 Individual core weight Roll core inside diameter Roll core thickness Roll core type HL\*4\*3\*I n/l LIN\*\*RO\* ZZ240K2025300 n/l MEA\*WT\*N\*893\*LB n/l

HL\*5\*3\*I n/l LIN\*\*RO\* ZZ240K2025325 n/l MEA\*WT\*N\*869\*LB n/l

HL\*6\*3\*1 n/l LIN\*\*RO\*ZZ240K2025350 n/l MEA\*WT\*N\*877\*LB n/l

HL\*7\*3 \*I n/l LIN\*\*RO\*ZZ240K2025399 n/l MEA\*WT\*N\*889\*LB n/l

HL\*8\*3\*I n/l LIN\*\*RO\*ZZ240K2026100 n/l MEA\*WT\*N\*896\*LB n/l

HL\*9\*3\*I n/l LIN\*\*RO\*ZZ240K2026133 n/l MEA\*WT\*N\*879\*LB n/l

HL\*10\*1\*O\*1 PRF\*97539\*\*20001014 n/l MEA\*CT\*\*3\*PK n/l MEA\*CT\*\*6\*RL n/l MEA\*WT\*G\*5451\*LB n/l MEA\*WT\*T\*108\*LB n/l MEA\*WT\*N\*5343\*LB n/l REF\*MI\*102985 n/l

HL\*11\*10\*D\*1 n/l LIN\*\*GC\*W040\*GN\*Quality Web Offset\* CL \*WHT n/l PO4\*2\*27\*IN\*ROL76\*\*\*\*\*\*40\*IN n/l PID\*S\*BW\*PA\*G n/l MEA\*WT\*BW\*36\*LB n/l MEA\*CS\*WT\*18\*LB n/l MEA\*CS\*ID\*3\*IN n/l MEA\*CS\*TH\*1\*IN n/l PKG\*S\*65\*GC\*IC n/l



**Item data. order 2** Package ID, roll number Net weight

Item detail, order 2 Roll number Net weight

Item detail, order 2 Package ID, roll number Net weight

Item detail, order 2 Roll number Net weight

Item detail, order 2 Package ID, roll number Net weight

Item detail, order 2 Roll number Net weight

#### Summary:

Number of HL segments in transaction Transaction set trailer HL\*12\*11\*I\*1 n/l LIN\*\*PG\*ZZ210K2510100\*RO\* ZZ210K2510100 n/l MEA\*WT\*N\*897\*LB n/l

HL\*13\*12\*I n/l LIN\*\*RO\*ZZ210K2510133 n/l MEA\*WT\*N\*897\*LB n/l

HL\*14\*11\*I\*1 n/l LIN\*\*PG\*ZZ210K2510167\*RO\*ZZ210K2510167 n/l MEA\*WT\*N\*896\*LB n/l

HL\*15\*14\*I n/l LIN\*\*RO\*ZZ210K2510199 n/l MEA\*WT\*N\*895\*LB n/l

HL\*16\*11\*I\*1 n/l LIN\*\*PG\*ZZ210K2410250\*RO\* 22210K2410250 n/l MEA\*WT\*N\*879\*LB n/l

HL\*17\*16\*I n/l LIN\*\*RO\*ZZ210K2410275 n/l MEA\*WT\*N\*879\*LB n/l

CTT\*17 n/l SE\*90\*765432 n/l



## EMBARC/X12 - 1998

## Manifest with sheeted paper example

Transaction control number Date of transmission Time of transmission

#### Parties in the transaction

Seller: Top Notch Paper Co. Sycamore, Division Contact:

Sold to: World Class Books Contact:

Ship to: Quality Printers Northern Plant Contact:

#### Shipment information

Carrier Route Seal number Shipment date Bill of lading number Manifest number Invoice number

**Order information** Customer purchase order Mill order number

#### **Description of paper**

Company grade code Grade name Basis weight Sheet width Sheet length Shade Bulk Nominal ream weight Total (billed) ream weight Packaging Skid type 07654321 July 24, 1999 10:12 pm

DUNS number: 135792468-0001 Joe Dimaggio, Tel. 101-555-9999

Standard Address Number (SAN): 864-2975 Lou Gehrig, Tel. 105-555-8888

DUNS number: 975318642-0003 George H. Ruth, Tel. 108-555-7777

CommCarr Trucking, DUNS 224466889 Transource 485158 46295 July 24, 1999 77985 01Y18657-579641 74102

E877 D2982C 579641

ENX700 Enamel Book Offset 70 lb 24in 36 in Eggshell 360 ppi 63.6 lb 11,130 lb Skid Wood, runners, two-way entry



Item	Skid Identifier*	No. of Reams	Gross Weight	Tare Weight	Net Weight	Sheet Count
1	TNSA4BG239790	39	2,600	96	2,504	19,500
2	TNSA4BG239791	22	1,466	53	1,413	11,000
3	TNSA4BG239792	38	2,534	96	2,438	19,000
4	TNSA4BG239793	38	2,571	96	2,475	19,000
5	TNSA4BG239794	38	2,600	96	2,504	19,000
Total		175	11,771	437	11,334	87,500

Nominal ream weight	63.6 Lb
Total nominal (billed) ream wt	11130.0 Lb

\*Using the Sheeted Paper Identifiers Specification



#### Sheeted Paper Example Mapped to X12 Standard

Transaction set header Manifest number, date and time created Shipment date

#### Shipment

Total number of reams Total number of sheets Gross weight Net weight Nominal ream weight Total nominal (billed) ream weight

Transportation: Motor and routing Seal number Bill of lading number Carrier name and DUNS

Parties in the transaction: Sold-to customer and SAN Sold-to contact Customer purchase order

Ship-to customer and DUNS+4 Ship-to contact

Ship-from and DUNS+4 Ship-from contact Mill order number

#### **Product description**

Company grade code and name Shade Basis weight size Basis weight Sheet width Sheet length Bulk

#### Shipping tare

Number of skids Total tare weight Skid type Header

ST\*856\*07654321 n/l BSN\*00\*01Y18657-579641\*19990724\*2212 n/l DTM\*011\*19990724 n/l

#### Detail

HL\*1\*\*S\*1 n/l MEA\*CT\*\*175\*RM n/l MEA\*CT\*\*87500\* SH n/l MEA\*WT\*G\*11771\*LB n/l MEA\*WT\*N\*11334\*LB n/l MEA\*WT\*RE\*63.6\*LB n/l MEA\*WT\*B\*11130\*LB n/l

TD5\*\*\*\*M\* TRANSOURCE 485158 n/l REF\*SN\*46295 n/l REF\*BM\*77985 n/l N1\*CA\*COMMCARR TRUCK\*1\*224466B89 n/l

N1\*SO\*WORLD CLASS BKS\*15\*8642975 n/l PER\*IC\*LOU GEHRIG\*TE\*105-555-8888 n/l REF\*PO\*E877 D2982C n/l

N1\*ST\*QUALITY PRNTRS, NORTHERN DIV\*9\*9753186420003 n/l PER\*IC\*GEO H RUTH\*TE\*108-555-7777 n/l

N1\*SF\*TOP NOTCH PPR, SYCAMORE DIV\*9\*135792468-0001 n/l PER\*IC\*JOE DIMAGGIO\*TE\*101-555-9999 n/l REF\*MI\*579641 n/l

HL\*2\*1\*D\*1 n/l LIN\*\*GC\*ENX700\*GN\*ENAMEL BOOK OFFSET n/l PID\*F\*40\*AS\*\*Eggshell n/l PID\*S\*BW\*PA\*B n/l MEA\*WT\*BW\*70\*LB n/l MEA\*PD\*WD\*24\*IN n/l MEA\*PD\*LN\*36\*IN n/l MEA\*PDBK\*360\*PQ n/I

HL\*3\*2\*T\*1 n/l MEA\*CT\*\*5\*SV n/l MEA\*WT\*T\*437\*LB n/l PKG\*S\*68\*GC\*W2 n/l



#### Item 1

Item number, skid identifier Number of reams Gross weight Tare weight Net weight Sheet count

#### Item 2

Item number, skid identifier Number of reams Gross weight Tare weight Net weight Sheet count

#### Item 3

Item number, skid identifier Number of reams Gross weight Tare weight Net weight Sheet count

#### Item 4

Item number, skid identifier Number of reams Gross weight Tare weight Net weight Sheet count

#### Item 5

Item number, skid identifier Number of reams Gross weight Tare weight Net weight Sheet count

Total number of HL segments Total number of segments HL\*4\*3\*1 n/l LIN\*1\*VN\*TNSA4BG239790 n/l MEA\*CT\*\*39\*RM n/l MEA\*WT\*\*G\*2600\*LB n/l MEA\*WT\*T\*96\*LB n/l MEA\*WT\*N\*2504\*LB n/l MEA\*CT\*\*19500\*SH n/l

HL\*5\*3\*1 n/l LIN\*2\*VN\*TNSA4BG239791 n/l MEA\*CT\*\*22\*RM n/l MEA\*WT\*\*G\*1466\*LB n/l MEA\*WT\*T\*53\*LB n/l MEA\*WT\*N\*1413\*LB n/l MEA\*CT\*\*11000\*SH n/l

#### HL\*6\*3\*1 n/l

LIN\*3\*VN\*TNSA4BG239792 n/l MEA\*CT\*\*38\*RM n/l MEA\*WT\*\*G\*2534 LB n/l MEA\*WT\*T\*96 LB n/l MEA\*WT\*N\*2438\*LB n/l MEA\*CT\*\*19000\*SH n/l

#### HL\*7\*3\*1 n/l

LIN\*4\*VN\*TNSA4BG239793 n/l MEA\*CT\*\*38\*RM n/l MEA\*WT\*\*G\*2571 LB n/l MEA\*WT\*T\*96 LB n/l MEA\*WT\*N\*2475\*LB n/l MEA\*CT\*\*19000\*SH n/l

#### HL\*8\*3\*1 n/l LIN\*5\*VN\*TNSA4BG239794 n/l

MEA\*CT\*\*38\*RM n/l MEA\*WT\*\*G\*2600\*LB n/l MEA\*WT\*T\*96\*LB n/l MEA\*WT\*N\*2504\*LB n/l MEA\*CT\*\*19000\*SH n/l

#### Summary

CTT\*8 n/l SE\*71\*07654321 n/l



## GCA Standard Receiving Advice/Acceptance Certificate 1998 -134 for Paper Used in Publishing and Printing

This document contains the format and establishes the data contents of the Receiving Advice/Acceptance Certificate Transaction Set (861) 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 notification of receipt or formal acceptance of goods and services.

## **Heading:**

Pos	ID	Segment Name	Req	Max Use	Repeat	Notes	Page number
010	ST	Transaction Set Header	М	1			50
020	BRA	Beginning Segment for Receiving Advice or Acceptance Certificate	M	1			51
070	DTM	Date/Time Reference	М	10			52
080	PRF	Purchase Order Reference	0	25			53
110	TD3	Carrier Details (Equipment)	0	12			54
LOOP ID	N1				200		
130	N1	Name	0	1			55
170	REF	Reference Identification	0	100			56
180	PER	Administrative Communications Contact	0	3			57

### **Detail:**

Pos	ID	Segment Name	Req	Max Use	Repeat	Notes	Page number
LOOP ID	RCD				200000		
010	RCD	Receiving Conditions	0	1			58
040	LIN	Item Identification	0	100			61
050	PID	Product/Item Description	0	1000			62
090	DTM	Date/Time Reference	0	10			64
110	MEA	Measurements	0	>1			65

#### **Summary:**

Pos	ID	Segment Name	Req	Max Use	Repeat	Notes	Page number
010	CTT	Transaction Totals	0	1			67
020	SE	Transaction Set Trailer	М	1			68



ST

## Transaction Set Header

Pos: 010 Max: 1 Heading - Mandatory Loop: N/A Elems: 2

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

#### **Element Summary:**

Ref	ID	Element N	ame	Reg	Туре	MinMax
ST01	143	Transactio	Transaction Set Identifier Code		ID	3/3
		Descriptio	n: Code uniquely identifying a Transaction Set			
		Code	Name			
		861	Receiving Advice/Acceptance Certificate	_		
ST02	329	Transactio	n Set Control Number	М	AN	4/9
		Descriptio	n: 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) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 861 selects the Receiving Advice/Acceptance Certificate Transaction Set).



BRA	Beginning Segment for	•	Pos: 020 Heading - Mandatory	Max: 1
DNA	Advice or Acceptance	Certificate	Loop: N/A	Elems: 6

To indicate the beginning of a Receiving Advice or Acceptance Certificate Transaction Set and transmit an identifying number, date, and time

#### **Element Summary:**

	Element Name	Reg	Туре	MinMax
127	Reference Identification:	М	AN	1/30
	Description: Reference information as defined for a particular			
	Transaction Set or as specified by the Reference Identification Qualifier			
373	Date	М	DT	8/8
353	-	M	ID	2/2
	<b>Description:</b> Code identifying purpose of transaction set			
	Codo Nomo			
	01 Cancellation			
	05 Replace			
962	Receiving Advice or Acceptance Certificate Type CodeDescription: Code specifying type of receiving advice	М	ID	1/1
	Codo Nomo			- -
	8 Acceptance Certificate			
337	Time	0	TM	4/8
	<b>Description</b> : Time expressed in 24-hour clock time as follows: HHMM,			
	-			
				0/6
412	Receiving Condition Code	0	ID	2/2
	<b>Description:</b> Code designating physical condition or status of units	I		
	373 353 962 337	Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier         373       Date Description: Dat e expressed as CCYYMMDD         353       Transaction Set Purpose Code Description: Code identifying purpose of transaction set         00       Original         01       Cancellation         05       Replace         962       Receiving Advice or Acceptance Certificate Type Code Description: Code specifying type of receiving advice         1       Receiving Dock Advice         8       Acceptance Certificate         337       Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00°99)	Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier       M         373       Date Description: Date expressed as CCYYMMDD       M         353       Transaction Set Purpose Code Description: Code identifying purpose of transaction set       M         00       Original       M         01       Cancellation       Cancellation         05       Replace       M         962       Receiving Advice or Acceptance Certificate Type Code Description: Code specifying type of receiving advice       M         1       Receiving Dock Advice 8       Acceptance Certificate       M         337       Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00°99)       O	Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier       M       DT         373       Date Description: Date expressed as CCYYMMDD       M       DT         353       Transaction Set Purpose Code Description: Code identifying purpose of transaction set       M       ID         353       Code       Name 00       Original 01       Cancellation 05       Replace       M       ID         962       Receiving Advice or Acceptance Certificate Type Code Description: Code specifying type of receiving advice       M       ID         962       Receiving Advice or Acceptance Certificate Type Code Description: Code specifying type of receiving advice       M       ID         333       Time Description: Code specifying type of receiving advice       O       TM         334       Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00- 23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00°99)       O       TM

Code	Name	
07	Good Condition	
08	Rejected	
09	Hold	

#### **Semantics:**

- 1. BRA02 is the date that the receiving advice transaction set is created.
- 2. BRA05 is the time that the receiving advice transaction set is created.

### Notes:

This transaction set is a Receiving Advice unless BRA04 contains a value of "8". When BRA04 contains a value of "8", the transaction set is an Acceptance Certificate and the units received is the units accepted.



# DTM Date/Time Reference

Pos: 070 Max: 10 Heading - Mandatory Loop: N/A Elems: 4

To specify pertinent dates and times, in this case, dates of shipment and receiving

#### **Element Summary:**

	ID	Element Na	ime	Reg	Туре	MinMax
DTM01	374	Date/Time	Qualifier	М	ID	3/3
		Description	a: Code specifying type of date or time. or both date and time			
		Code	Name			
		011	Shipped			
		019	Unloaded			
			Use this code and code 035 if the receiving location			
			unloaded the shipment at a later date than the			
		<u>.</u>	delivery.			
		035	Delivered			
			Use this code and code 019 if the receiving location			
			unloaded the shipment at a later date than the			
		<b>.</b>	delivery.			
		050	Received			
			Use this code if the receiving location unloaded the			
		<u>.</u>	shipment immediately upon delivery.			
	T		1		r	,

DTM02	373	Date	С	DT	8/8
		Description: Date expressed as CCYYMMDD			
DTM03	337	Time	С	TM	4/8
		Description: Time expressed in 24-hour clock time as follows: HHMM,			
		or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-			
		23), M = minutes (00-59), S = integer seconds (00-59) and DD= decimal			
		seconds; decimal seconds are expressed as follows: D = tenths (0-9) and			
		DD = hundredths (00-99)			
DTM04	623	Time Code	0	ID	2/2
		Description: Code identifying the time			

Code	Name
СТ	Central Time
ET	Eastern Time
LT	Local Time
	Use for times outside the continental USA
MT	Mountain Time
PT	Pacific Time

#### Syntax:

R020305 - At least one of DTM02 or DTM03 is required. C0403 - If DTM04 is present, then DTM03 is required.



## PRF Purchase Order Reference

Pos: 080 Max: 25 Heading - Optional Loop: N/A Elems: 4

To provide reference to a specific purchase order. Recommended for lot-based inventory.

#### **Element Summary:**

Ref	ID	Element Name	Reg	Туре	MinMax
PRF01	374	Purchase Order Number	M	AN	1/22
		Description: Identifying number for Purchase Order assigned by the			
		orderer:/purchaser			
PRF02	328	Release Number	0	AN	1/30
		Description: Number identifying a release against a Purchase Order			
		previously placed by the parties involved in the transaction			
PRF03	327	Change Order Sequence Number	0	AN	1/8
		Description: Number assigned by the orderer identifying a specific			
		change or revision to a previously transmitted transaction set			
PRF04	373	Date	0	DT	8/8
		Description: Date expressed as CCYYMMDD ·			

## Semantics:

1. PRF04 is the date assigned by the purchaser to purchase order.



## Carrier Details (Equipment) TD3

Pos: 110 Max: 12 Heading - Optional Loop: N/A Elems: 6

To specify transportation details relating to the equipment used by the carrier. Recommended for lot-based inventory.

## **Element Summary:**

Ref	ID	Element N	lame	Reg	Туре	MinMax
TD301	40		nt Description Code on: Code identifying type of equipment used for shipment	С	ID	2/2
		Code	Name			
		AF	Air Freight (Break Bulk)			
		BR	Barge			
		BX	Boxcar			
		CN	Container			
		RF	Flat Car			
		RR	Rail Car			
		TL	Trailer (not otherwise specified)			
		TV	Truck, Van			
		VE	Vessel,Ocean			
		VL	Vessel,Lake			
		VT	Vessel, Containership			
TD302	206	Equipmen	nt Initial	0	AN	1/4
		<b>Descriptio</b> number	on: Prefix or alphabetic part of an equipment unit's identifying			
TD303	207	-	<b>nt Number</b> <b>on:</b> Sequencing or serial part of an equipment unit's identifying pure numeric form for equipment number is preferred)	С	AN	1/10
TD304	187	Weight Qu		0	ID	1/2
		Code	Name			
		G	Gross Weight			
		Ν	Actual Net Weight			
		Т	Tare Weight			

	 	Actua	I Net	Weig	ht
		Tare V	Veigh	ıt	

TD305	81	Weight	С	R	1/10
		Description: Numeric value of weight			
TD306	355	Unit or Basis for Measurement Code	С	ID	2/2
		Description: Code specifying the units in which a value is being			
		expressed, or manner in which a measurement has been taken			

Code	Name
KG	Kilogram
LB	Pound
MP	Metric Ton
NS	Short Ton



## Syntax:

- C0203 If TD302 is present, then TD303 is required.
- C0405 lf TD304 is present, then TD305 is required.
- P0506 If either TD305 or TD306 are present, then the others are required.



N1 Name

Pos: 130 Max: 1 Heading - Optional Loop: N1 Elems: 4

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

#### **Element Summary:**

Ref	ID	Element Name	Reg	Туре	MinMax
N101	98	Entity Identifier Code	M	ID	2/3
		Description: Code identifying an organizational entity, a physical			
		location, property or an individual			

Code	Name
BO	Broker or Sales Officer
BY	Buying Party (Purchaser)
CA	Carrier
MA	Party for Whom Item is Ultimately Intended End User
MP	Manufacturing Plant
SD	Sold to and Ship To
SE	Selling Party
SF	Ship From
SO	Sold To If Different From Bill To
SU	Supplier/Manufacturer
VN	Vendor
WH	Warehouse

N102	93	Name	0	AN	1/60
		Description: Free-form name			
N103	66	Identification Code Qualifier	С	ID	1/2
		<b>Description:</b> Code designating the system/method of code structure			
		used for Identification Code (67)			

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
15	Standard Address Number (SAN)

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

#### Syntax:

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



REF

## Reference Identification

Pos: 170	Max: 100
Heading - Optional	
Loop: N/A	Elems: 2

To specify identifying information

## **Element Summary:**

Ref	ID	Element N	Jame	Reg	Туре	MinMax
REF01	128	Reference	Identification Qualifier	М	ID	2/3
		Descriptio	on: Code qualifying the Reference Identification			
		Code	Name			
		BM	Bill of Lading Number			
		LT	Lot Number			
		MA	Ship Notice/Manifest Number			
		MI	Mill Order Number			
REF02	127	Reference	Identification	С	AN	1/30
		Descriptio	on: Reference information as defined for a particular			
		Transactio	n Set or as specified by the Reference Identification Qualifier			

#### Syntax:

1. REF02 R0203 - REF02 is required.



## PER Administrative Communications Contact

Pos: 180 Max: 3 Heading - Optional Loop: N/A Elems: 4

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

## **Element Summary:**

ID	Element Name	Reg	Туре	MinMax
366	Contact Function Code	М	ID	2/2
	Description: Code identifying the major duty or responsibility of the			
	person or group named			
	Code Name			
	IC Information Contact			
93	Name	0	AN	1/60
	Description: Free-form name			
365	Communication Number Qualifier	C	ID	2/2
	Description: Code identifying the type of communication number			
	Code Name			
		-		
	93	366       Contact Function Code         Description: Code identifying the major duty or responsibility of the person or group named         Code       Name         IC       Information Contact         93       Name         Description: Free-form name         365       Communication Number Qualifier         Description: Code identifying the type of communication number	366       Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named       M         Code       Name IC       Information Contact         93       Name Description: Free-form name       O         365       Communication Number Qualifier Description: Code identifying the type of communication number       C	366       Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named       M       ID         ID       M       ID         Code       Name IC       Information Contact         93       Name Description: Free-form name       O         365       Communication Number Qualifier Description: Code identifying the type of communication number       C

PER04	364	Communication Number	С	AN	1/80
		Description: Complete communications number including country or			
		area code when applicable			

## Syntax:

1. PER03 P0304 - If either PER03 or PER04 are present, then the others are requited.



Pos: 010		Max: 1
	Detail - Optional	
Loop: RCD		Elems: 8

RCD Receiving Conditions

To report receiving conditions and specify contested quantities

## **Element Summary:**

Ref	ID	Element Name	Reg	Туре	MinMax
RCD01	350	Assigned Identification	0	AN	1/20
		Description: Alphanumeric characters assigned for differentiation			
		within a transaction set			
RCD02	663	Quantity Units Received or Accepted	С	R	1/9
		Description: Number of Units Received or Accepted			
RCD03	C001	Composite Unit of Measure	С	Comp	
		Description: To identify a composite unit of measure			
	355	Unit or Basis for Measurement Code	М	ID	2/2
		Description: Code specifying the units in which a value is being			
		expressed, or manner in which a measurement has been taken			

BXBoxCTCartonFTFootINInchKGKilogramLBPoundMPMetric TonNSShort TonPKPackagePLPallet/Unit LoadRLRollRMReamSHSheetSVSkid	Code	Name
FTFootINInchKGKilogramLBPoundMPMetric TonNSShort TonPKPackagePLPallet/Unit LoadRLRollRMReamSHSheetSVSkid	BX	Box
INInchKGKilogramLBPoundMPMetric TonNSShort TonPKPackagePLPallet/Unit LoadRLRollRMReamSHSheetSVSkid	СТ	Carton
KGKilogramLBPoundMPMetric TonNSShort TonPKPackagePLPallet/Unit LoadRLRollRMReamSHSheetSVSkid	FT	Foot
LBPoundMPMetric TonNSShort TonPKPackagePLPallet/Unit LoadRLRollRMReamSHSheetSVSkid	IN	Inch
MPMetric TonNSShort TonPKPackagePLPallet/Unit LoadRLRollRMReamSHSheetSVSkid	KG	Kilogram
NSShort TonPKPackagePLPallet/Unit LoadRLRollRMReamSHSheetSVSkid	LB	Pound
PKPackagePLPallet/Unit LoadRLRollRMReamSHSheetSVSkid	MP	Metric Ton
PLPallet/Unit LoadRLRollRMReamSHSheetSVSkid	NS	Short Ton
RLRollRMReamSHSheetSVSkid	РК	Package
RMReamSHSheetSVSkid	PL	Pallet/Unit Load
SHSheetSVSkid	RL	Roll
SV Skid	RM	Ream
	SH	Sheet
	SV	Skid
UN Unit	UN	Unit

RCD04	664	Quantity Units Returned	С	R	1/9
		Description: Number of units returned			



Ref	ID	Element Name	Reg	Туре	MinMax
RCD05	C001	Composite Unit of Measure	С	Comp	
		Description: To identify a composite unit of measure			
	355	Unit or Basis for Measurement Code	М	ID	2/2
		<b>Description:</b> Code specifying the units in which a value is being			
		expressed, or manner in which a measurement has been taken			

Code	Name
BX	Box
СТ	Carton
FT	Foot
IN	Inch
KG	Kilogram
LB	Pound
MP	Metric Ton
NS	Short Ton
РК	Package
PL	Pallet/Unit Load
RL	Roll
RM	Ream
SH	Sheet
SV	Skid
UN	Unit

RCD06	667	Quantity in Question	С	R	1/9
		Description: Number of units contested because of physical condition			
		or status of units			
RCD07	C001	Composite Unit of Measure	С	Comp	
		Description: To identify a composite unit of measure			
	355	Unit or Basis for Measurement Code	М	ID	2/2
		Description: Code specifying the units in which a value is being			
		expressed, or manner in which a measurement has been taken			

Code	Name
BX	Box
СТ	Carton
FT	Foot
IN	Inch
KG	Kilogram
LB	Pound
MP	Metric Ton
NS	Short Ton
РК	Package
PL	Pallet/Unit Load
RL	Roll
RM	Ream
SH	Sheet
SV	Skid
UN	Unit



Ref	ID	Element N	Jame	Reg	Туре	MinMax
RCD08	412	Receiving	Condition Code	С	ID	2/2
			on: Code designating physical condition or status of units			
		received in	n a specific shipment			
		100001100 II				
	1	lecenteun				
	1	Code	Name			1
	1					1
	1	Code	Name			1

03	Quantity Over
04	Quality Problem
05	Incorrect Product
07	Good Condition
08	Rejected
09	Hold
10	Material Scrapped
11	Adjust Supplier Shipped Cumulative Quantity
12	Quantity Over - Returned to Supplier
13	Quantity Received, But Cannot Process Because No Matching Ship Notice
14	Quantity Received and Processed with No Matching Ship Notice/Manifest

## Syntax:

- 1. RCD02 R020406 At least one of RCD02, RCD04 or RCD06 is required.
- 2. RCD02 P0203 If either RCD02 or RCD03 are present, then the others are required.
- 3. RCD04 P0405 If either RCD04 or RCD05 are present, then the others are required.
- 4. RCD06 P060708 If either RCD06, RCD07 or RCD08 are present, then the others are required.

#### **Semantics:**

l. RCD01 is the receiving advice line item identification.



# LIN Item Identification

Pos: 040 Max: 100 Detail - Optional Loop: N/A Elems: 5

To specify basic item identification data

### **Element Summary:**

Ref	ID	Element Name	Reg	Туре	MinMax
LIN01	350	Assigned Identification	0	AN	1/20
		Description: Alphanumeric characters assigned for differentiation			
		within a transaction set			
LIN02	235	Product/Service ID Qualifier	М	ID	2/2
		Description: Code identifying the type/source of the descriptive number			
		used in Product/Service ID (234)			

Code	Name
BP	Buyer's Part Number
CL	Color
GC	Grade Code
GN	Grade Name
PG	Packaging Specification Number - Use for identifiers on multi#roll packages
RO	Roll Number
SK	Stock Keeping Unit (SKU)
VN	Vendor's (Seller's) Item Number - Use for the Sheeted Paper Identifier

LIN03	234	Product/Service ID	М	AN	1/48
		Description: Identifying number for a product or service			
LIN04	235	Product/Service ID Qualifier	C	ID	2/2
		<b>Description:</b> Code identifying the type/source of the descriptive			
		number used in Product/Service ID (234). See LIN02 for codes.			
LIN05	234	Product/Service ID	С	AN	1/48
		Description: Identifying number for a product or service			

#### Syntax:

1. LIN04 P0405 - If either LIN04 or LIN05 are present, then the others are required.

#### **Semantics:**

l. LIN01 is the line item identification



## PID Product/Item Description

Pos: 050 Max: 1000 Detail - Optional Loop: N/A Elems: 5

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

### **Element Summary:**

Ref	ID	Element	Name	Reg	Туре	MinMax
PID01	349		cription Type	М	ID	1/1
		Descripti	ion: Code indicating the format of a description			
		Code	Name			
		F	Free-form	-		
		S	Structured (From Industry Code List)			
		X	Semi-structured (Code and Text)			
PID02	750	Descripti	<b>Process Characteristic Code</b> ion: Code identifying the general class of a product s characteristic	0	ID	2/3
		Code	Name			
		08	Product	-		
		35	Color			
		38	Grade			
		40	Shade			
		BW	Basis Weight Size			
		GD	Grain Direction			
PID03	559		Pualifier Code ion: Code identifying the agency assigning the code values	С	ID	2/2
		Code	Name			
		AS	Assigned by Seller Use for color and shade codes/descriptions			
		GC	Graphic Communications Association Use for grain direction codes			
		РА	American Forest & Paper Assn. Use for basis weight size and recommended grade categories			



PID04	751	Product D	escription Code	С	AN	1/12
			on: A code from an industry code list which provides specific			
		data abou	t a product characteristic			
		Code	Name			
		BASIS WE	IGHT SIZE CODES			
		А	17 x 22 in			
		В	20 x 26 in			
		С	20 x 30 in			
		D	22.5 x 28.5 in			
		Е	25.5 x 30.5 in			
		F	24 x 36 in			
		G	25 x 38 in			
		Н	1,000 sq ft			
		J	Grams per sq meter			
		GRAIN DI	RECTION CODES			
		L	Grain direction, Long			
		S	Grain direction, Short			

See Appendix for recommended grade categories

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

#### **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.

#### **Comments:**

l. 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.



# DTM Date/Time Reference

Pos: 090 Max: 10 Detail - Optional Loop: N/A Elems: 4

To specify pertinent dates and times

### **Element Summary:**

Ref	ID	Element Name		Reg	Туре	MinMax
DTM01	374	Date/Time Quality Description: Cod	f <b>ier</b> e specifying type of date or time, or both date and time	М	ID	3/3
		Code N	ame			
		002 D	elivery Requested			
		019 U	nloaded			
		U	elivered se this code and code 019 if the receiving location nloaded the items at a later date than their delivery.			
		U	eceived se this code if the receiving location unloaded the items nmediately upon delivery.			
DTM02	373	Date		С	DT	8/8
DTM03	337	<b>Time</b> <b>Description:</b> Tim or HHMMSS, or F 23), M = minutes	e expressed as CCYYMMDD e expressed in 24-hour clock time as follows: HHMM, HHMMSSD, or HHMMSSDD, where H = hours (00- (00-59), S = integer seconds (00-59) and DD= decimal seconds are expressed as follows: D = tenths (0-9) and (00-99)	С	TM	4/8
DTM04	623	International Star specified by a + or Time Coordinate	e identifying the time. In accordance with ndards Organization standard 8601, time can be r - and an indication in hours in relation to Universal (UTC) time; since + is a restricted character, + and - r P and M in the codes that follow	0	ID	2/2

## CodeNameLTLocal Time

#### Syntax:

- 1. DTM02 R020305 At least one of DTM02 or DTM03 is required.
- 2. DTM04 C0403 If DTM04 is present, then DTM03 is required



# MEA Measurements

Pos: 110 Max: >1
Detail - Optional
Loop: N/A Elems: 4

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

## **Element Summary:**

Ref	ID	Element N	Name	Reg	Туре	MinMax
MEA01	737	Descriptio	<b>nent Reference ID Code</b> on: Code identifying the broad category to which a nent applies	0	ID	2/2
	1		* *	I	1	
		Code	Name			
		CS	Core Size			
		СТ	Counts			
		PD	Physical Dimensions			
		WT	Weights			
MEA02	738	Measuren	nent Qualifier	0	ID	1/3
			on: Code identifying a specific product or process			
		characteri	stic to which a measurement applies			
		Code	Name			
		В	Billed Weight			
		G	Gross Weight			
		N	Actual Net Weight			
		Т	Tare Weight			
		BK	Bulk			
		BW	Basis Weight			
		CA	Caliper			
		DI	Diameter			
		ID	Inside Diameter			
		OD	Outside Diameter			
		TH	Thickness			
		WT	Weight			
MEA03	739	Measuren	nent Value	С	R	1/20
		Descriptio	on: The value of the measurement			



Ref	ID	Element Name	Reg	Туре	MinMax
MEA04	C001	Composite Unit of Measure	С	Com	
		Description: To identify a composite unit of measure		р	
	355	Unit or Basis for Measurement Code	M	ID	2/2
		<b>Description:</b> Code specifying the units in which a value is being			
		expressed, or manner in which a measurement has been taken			

Code	Name
BX	Box
СМ	Centimeter
СТ	Carton
FT	Foot
GR	Gram
IN	Inch
KG	Kilogram
LB	Pound
LM	Linear Meter
LR	Layer(s)
MM	Millimeter
MP	Metric Ton
NS	Short Ton
РК	Package
PL	Pallet/Unit Load
PQ	Pages Per Inch
RL	Roll
RM	Ream
SH	Sheet
SV	Skid
UN	Unit

## Syntax:

1. MEA03 R03050608 - MEA03 is required.

## **Semantics:**

1. MEA04 defines the unit of measure for MEA03.



# CTT Transaction Totals

Pos: 010 Max: 1 Summary - Optional Loop: N/A Elems: 4

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

#### **Element Summary:**

Ref	ID	Element Name	Reg	Туре	MinMax
CTT01	354	Number of Line Items	М	N0	1/6
		Description: Total number of line items in the transaction set			
CTT02	347	Hash Total	0	R	1/10
		Description: Sum of values of the specific data. element. All values			
		in the data element will be summed without regard to decimal			
		points (explicit or implicit) or signs. Truncation will occur on the			
		left most digits if the sum is greater than the maximum size of the			
		hash total of the data element. Example:0018 First occurrence of			
		value beinghashed18 Second occurrence of value beinghashed .1.8			
		Third occurrence of value beinghashed1855 Hash total prior to			
		truncation.855 Hash total after truncation to three-digit field.			
CTT03	81	Weight	C	R	1/10
		Description: Numeric value of weight			
CTT04	355	Unit or Basis for Measurement Code	С	ID	2/2
		Description: Code specifying the units in which a value is being			
		expressed, or manner in which a measurement has been taken			

Code	Name
KG	Kilogram
LB	Pound
MP	Metric Ton
NS	Short Ton

#### Syntax:

1. CTT03 P0304 - If either CTT03 or CTT04 are present, then the others are required

### **Comments:**

- 1. This segment is intended to provide hash totals to validate transaction completeness and correctness.
- 2. The number of line items (CTT0I) is the accumulation of the number of RCD segments. If used, hash total (CTT02) is the sum of the value of quantities received (RCD02) for each RCD segment.



# SE

Transaction Set Trailer

Pos: 020 Max: 1 Summary - Mandatory Loop: N/A Elems: 2

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:**

Ref	ID	Element Name	Reg	Туре	MinMax
SE01	96	Number of Included Segments	М	N0	1/10
		Description: Total number of segments included in a transaction set			
		including ST and SE segments			
SE02	329	Transaction Set Control Number	М	AN	4/9
		Description: Identifying control number that must be unique within			
		the transaction set functional group assigned by the originator for a			
		transaction set			

### **Comments:**

1. SE is the last segment of each transaction set.



# EMBARC/X12 - Receiving Advice Roll paper example

Header information	
Transaction control number	54321
Receiving advice number	20001102-002
Transaction creation date and time	2 November 2000, 9:30 a.m.
Date and time of delivery	1 November 2000, 11:45 p.m.
Date and time of unloading	2 November 2000, 7:30 a.m.
0	· · · · · · · · · · · · · · · · · · ·
Sold to: ABC Publishers	DUNS+4: 123456789-0001
Purchase order number	1122233A
Ship to: XYZ Printers, ABC plant	DUNS+4: 234567891-0001
Seller: ZZZ Paper Company	DUNS+4: 345678912-0001
Ship from: AAA mill	DUNS+4: 345678912-0002
AF&PA/CPPA mill code	ZZ2
Manifest number	1234567
Mill order number	654321
Carrier: BBB Transport	DUNS+4: 456789123-0001
Transportation mode	Truck
Vehicle ID	XTL 14803
Product 1. Grade name	Quality Web Offset
Grade code	WO40
Stock keeping unit (SKU) code	WP26635
Basis weight	40 lb
Color code (white)	WHT
Roll width	33.5 in
Roll diameter	40.0 in
Roll detail information, product 1	
Number of rolls received	6
Good rolls received, by roll ID	ZZ240K2025300
	ZZ240K2025325
	ZZ240K2025350
	ZZ240K2025399
	ZZ240K2026100
Number of rolls in question/rejected	1
Rejected rolls, by ID	ZZ240K2026133
Product 2, Grade name	Quality Web Offset
Grade code	WO36
Stock keeping unit (SKU) code	WO43633540-2
Basis weight	36 lb
Color code (white)	WHT
Roll width	27.0 in
Roll diameter	40.0 in



Number of rolls received Good rolls received, by roll ID ZZ210K2510133 6

ZZ210K2510100 ZZ210K2510167 ZZ210K2510199 ZZ210K2410250 ZZ210K2410275

Number of rolls returned/incorrect product Returned/incorrect roll by ID number

1 ZZ230K2510100

### Roll paper example in X12 format

#### Header

Transaction set header Transaction number, date, purpose, time Delivery date/time Unloading date/time

Purchase order number Carrier initial and trailer number Carrier name and DUNS number

Parties in the transaction and references: Sold-to name and DUNS number Ship-to name and DUNS number Supplier's name and DUNS number Ship-from mill name and DUNS number Mill order number Manifest/ship notice number

#### Detail

Product 1: Total rolls unloaded, product 1 Grade code, grade name, color Basis weight size (code G) Basis weight Roll width Roll diameter

Total number of good rolls received Identifiers for good condition rolls received

Rolls in question/rejected Identifier for rejected roll

ST\*861\*54321 n/l BRA\*20001102002\*20001102\*00\*1\*0930 n/l DTM\*035\*20001101 \*2345\*LT n/l DTM\*019\*20001102\*0730\*LT n/l

PRF\*1122233A n/l TD3\*TL\*XTL \*14803 n/l N1\*CA\*BBB Transport\*9\*4567891230001 n/l

N1\*SO\*ABC Publishers\*9\*1234567890001 n/l N1\*ST\*XYZ Printers, ABC plant\*9\* 2345678910001 n/l N1\*SU\*ZZZ Paper\*9\*3456789120001 n/l N1\*SF\*AAA mill\*9\*3456789120002 n/l REF\*MI\*654321 n/l REF\*MA\*1234567 n/l

RCD\*1\*6\*RL n/l LIN\*\*GC\*W023\*GN\*Quality Web Offset\* CL \*WHT n/l PID\*S\*BW\*PA\*G n/l MEA\*WT\*BW\*40\*LB n/l MEA\*PD\*WD\*33.5\*1N n/l MEA\*PD\*Dl\*40\*1N n/l

RCD\*2\*5\*RL\*\*\*\*07 n/l LIN\*\*RO\* ZZ240K2025300 n/l LIN\*\*RO\* ZZ240K2025325 n/l LIN\*\*RO\* ZZ240K2025350 n/l LIN\*\*RO\* ZZ240K2025399 n/l LIN\*\*RO\* ZZ240K2026100 n/l RCD\*3\*\*\*\*1\*RL\*08 n/l LIN\*\*RO\* ZZ240K2026133 n/l



Product 2: Total rolls unloaded, product 2 Grade code, grade name, color Basis weight size (Code G) Basis weight Roll width Roll diameter

Total number of good rolls received Identifiers for good condition rolls received RCD\*4\*6\*RL n/l LIN\*\*GC\*WO36\*GN\*Quality Web Offset \*CL \*WHT n/l PID\*S\*BW\*PA\*G n/l MEA\*WT\*BW\*36\*LB n/l MEA\*PD\*WD\*27\*IN n/l MEA\*PD\*DI\*40\*IN n/l

RCD\*5\*6\*RL\*\*\*\*07 n/l LIN\*\*RO\*ZZ201K2510100 n/l LIN\*\*RO\*ZZ201K2510133 n/l LIN\*\*RO\*ZZ201K2510167 n/l LIN\*\*RO\*ZZ201K2510199 n/l LIN\*\*RO\*ZZ201K2410250 n/l LIN\*\*RO\*ZZ201K2410275 n/l

Rolls returned/incorrect product Identifier for returned/incorrect roll

#### Summary

Number of line items/RCD segments Transaction set trailer RCD\*6\*\*\*1\*RL\*\*\*05 n/l LIN\*\*RO\* ZZ230K2510100 n/l

CTT\*6 n/l SE\*44\*54321 n/l



# EMBARC/X12 - Receiving Advice Sheeted paper example

Header information	
Transaction control number	07654321
Receiving advice number	RC99007893
Transaction creation date and time	26 July 1999, 8:30 a.m.
Date and time of delivery	25 July 1999, 5:00 p.m.
Date and time of unloading	25 July 1999, 6:00 p.m.
-	
Parties in the transaction:	
Sold to: World Class Books	Standard Address Number (SAN): 864-2975
Customer purchase order	E877D2982C
Ship to: Quality Printers	
Northern Plant	DUNS number: 975318642-0003
Seller: Top Notch Paper Co.,	
Sycamore Division	DUNS number: 135792468-0001
Manifest number	01Y18657-579641
Mill order number	579641
Carrier	CommCarr Trucking , DUNS 224466889
Description of paper	
Company grade code	ENX700
Grade name	Enamel Book Offset
Basis weight	70 lb
Sheet width	24 in
Sheet length	36 in
Shade	Eggshell
Bulk	360 ppi
Skid detail information	

Item	Skid Identifier*	Reams on manifest	Reams on skid	Reams on accepted	Reams damaged	Reams missing
1	TNSA4BG239790	39	39	39		
2	TNSA4BG239791	22	22	12	10	
3	TNSA4BG239792	38	38	38		
4	TNSA4BG239793	38	30	30		8
5	TNSA4BG239794	38	38	38		
Total		175	167	157	10	8

\*Using the Sheeted Paper Identifiers Specification



## Example in X12 format

### Header

Transaction set header Transaction number, date, purpose, time Receiving (unload) date/time

Purchase order number

Parties in the transaction and references: Sold-to name and SAN Ship-to name and DUNS

Supplier's name and DUNS Ship-from plant name and DUNS Mill order number Manifest/ship notice number Carrier name and DUNS number

### Detail

Total number of skids unloaded Company grade code and name Shade Basis weight Sheet width Sheet length Bulk

Good reams accepted, skid #1 Skid number, using SPI Good reams, accepted, skid #2 Skid number, using SPI Damaged reams, unloaded, skid #2 Skid number, using SPI Good reams accepted, skid #3 Skid number, using SPI Good reams accepted, skid #4 Skid number, using SPI Missing reams, skid #4 Skid number, using SPI Good reams accepted, skid #5 Skid number, using SPI

Summary Number of line items/RCD segments Transaction set trailer ST\*861\*07654321 n/l BRA\*RC99007893\*19990726\*00\*1 \*0830 n/l DTM\*050\*990725\*1800\*\*19 n/l

PRF\*E877D2982 n/l

N1\*SO\*WORLD CLASS BOOKS\*15\*8642975 n/l N1\*ST\*QUALITY PRTS, NORTHERN PLANT \*9\*9753186420003 n/l N1\*SU\*TOP NOTCH PAPER \*1\*135792468 n/l N1\*SF\*SYCAMORE DIV\*9\*1357924680001 n/l REF\*MI\*579641 n/l REF\*MA\*01Y18657-579641 n/l N1\*CA\*COMMCARR TRK\*1\*224466889 n/l

RCD\*1\*5\*SV n/l LIN\*\*GC\*ENX700\*GN\*ENAMEL BOOK OFFSET n/l PID\*F\*40\*AS\*\*Eggshell n/l MEA\*WT\*BW\*70\*LB n/l MEA\*PD\*WD\*24\*IN n/l MEA\*PD\*LN\*36\*IN n/l MEA\*PD\*BK\*360\*PQ n/l

RCD\*2\*39\*RM\*\*\*\*07 n/l LIN\*\*VN\* TNSA4BG239790 n/l RCD\*3\*12\*RM\*\*\*\*07 n/l LIN\*\*VN\* TNSA4BG239791 n/l RCD\*4\*\*\*10\*RM\*01 n/l LIN\*VN\* TNSA4BG239791 n/l RCD\*5\*38\*RM\*\*\*\*07 n/l LIN\*\*VN\* TNSA4BG239792 n/l RCD\*6\*30\*RM\*\*\*\*07 n/l LIN\*\*VN\* TNSA4BG239793 n/l RCD\*7\*\*\*\*8\*RM\*02 n/l LIN\*\*VN\* TNSA4BG239793 n/l RCD\*8\*38\*RM\*\*\*\*07 n/l

CTT\*8 n/l SE\*30\*07654321 n/l



# Mapping Guide: EMBARC to EMBARC/X12 -1998

EMBARC recordTransmission header, 1TManual Pages16-17Update pages4

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Transmission name	ST	01	143	856	
Release	ISA	11	I10		
Version	ISA	12	I11		
Month transmission created	ISA	09	I08		YYMMDD
Day transmission created					Recommend duplicating
Year transmission created					in header DTM segment
					for Year 2000 compliance
Receiver's transmission number	ISA	13	I12		Must match IEA02
Sender company code	ISA	05	I05		
	ISA	06	I06		
or					
	N1	01	98		
	N1	03	66	1 or 9	
	N1	04	93		
Sender company name	N1	01	98		
	N1	02	93		
Transmission description					Not applicable



EMBARC record	Manifest header, 1M	Manual Pages	18-21
		Update pages	4-5

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Transaction code	ST	01	143	856	
Manifest number	BSN	02	396		
Month manifest created	BSN	03	373		CCYYMMDD
Day manifest created					
Year manifest created					
Sold-to customer code	N1	01	98	BY	Buyer
				SO	Sold-to, if different from ship-to
	N1	03	66	1 or 9	
	N1	04	93		
Ship-to customer code	N1	01	98		
	N1	03	66		
	N1	04	93		
Transmit-to indicator	ISA	08	I07		
Transportation mode	TD5	04	91		
First vehicle number	TD3	03	207		
Second vehicle or first container number	TD3	03	207		
Second container number	TD3	03	207		
Standard Carrier Alpha Code	TD5	02	66	2	
	TD5	03	67		
Standard Point Location Code	TD5	02	66	20	
	TD5	03	67		
Seal number	REF	01	128	SN	
	REF	02	127		
Company code	N1	01	98	SF	
	N1	03	66	1 or 9	
	N1	04	93		
Manufacturing mill code	N1	01	98	MP	
	N1	03	66	1 or 9	
	N1	04	93		
Time manifest created or released	DTM	01	374	011	
	DTM	02	373		CCYYMMDD
	DTM	03	337		HHMM 24 hour format



### EMBARC record

Transmission record/export, 1E

Manual Pages22-23Update pages5

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Port of entry	N1	01	98	CB	Customs broker
	N1	02	93		
Port of exit	N1	01	98		
	N1	02	93		
Discharge port	N1	01	98		
	N1	02	93		
Discharge month	DTM	01	374	096	
Discharge day	DTM	02	373		CCYYMMDD
Discharge year					
Customs broker	N1	01	98		
	N1	02	93		



### EMBARC record

Common ship-to information, 2A

Manual Pages24Update pages5

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Ship to lines 1-3					
Name	N1	01	98	ST	
	N1	02	93		
Address	N3	01	166		
	N3	02	166		
City name	N4	01	19		
State/province	N4	02	156		
Postal code	N4	03	116		
Country	N4	04	26		

**EMBARC record** 

Common ship-to information, 2B

Manual Pages24Update pages5

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Ship to lines 4-6					
Name	N1	01	98	ST	
	N1	02	93		
Address	N3	01	166		
	N3	02	166		
City name	N4	01	19		
State/province	N4	02	156		
Postal code	N4	03	116		
Country	N4	04	26		

EMBARC record

Common ship-to information, 2C

Manual Pages25Update pages5

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Route description	TD5	05	387		
Route code	TD5	01	133		
	TD5	02	66		
	TD5	03	67		
	TD5	04	91		
Freight invoice number	REF	01	128	FR	
	REF	02	127		



### EMBARC record

Common ship-to information, 3A

Manual Pages26Update pages5

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Ship to lines 1-3					
Name	N1	01	98	BY	
	N1	02	93		
Address	N3	01	166		
	N3	02	166		
City name	N4	01	19		
State/province	N4	02	156		
Postal code	N4	03	116		
Country	N4	04	26		

### **EMBARC record**

Common ship-to information, 3B

Manual Pages26Update pages5

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Ship to lines 4-6					
Name	N1	01	98	ST	
	N1	02	93		
Address	N3	01	166		
	N3	02	166		
City name	N4	01	19		
State/province	N4	02	156		
Postal code	N4	03	116		
Country	N4	04	26		

EMBARC record

Common ship-to information, 3C

Manual Pages27Update pages5

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Manifest special marks and	MAN	01	88	L or S	
handling instructions	MAN	02	87		



EMBARC record	Item header, 4M	Manual Pages	28-31
		Update pages	6-8

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Metric/English flag	Indicated by qualifier	for each measurement val	ue provided		
Bar coded unit	Indicated by qualifier	in the appropriate line-ite	m data elements		
Roll core or skid type	PKG	01	349	S	
	PKG	02	753		
	PKG	03	348	GC	
	PKG	04	754		
Packaging unit ID code	Indicated by qualifier	in the appropriate line-ite	m data elements	,	
Items per unit (e.g., rolls per pack)	PO4	01	357		
Color code	LIN	02	235	CL	
	LIN	03	234		
Caliper of a single sheet	MEA	01	737	PD	
	MEA	02	738	CA	
	MEA	03	739		
	MEA	04	355		
Shipping order number	REF	01	128	MI	
	REF	02	127		
Purchase order number	PRF	01	324		
Bill of lading number	REF	01	128	BM	
	REF	02	127		
Stock/grade code	LIN	02	235	GC	
	LIN	03	234		
Mill invoice number	REF	01	128	MI	
	REF	02	127		
Basis Weight	MEA	01	737	PD	
	MEA	02	738	BW	
	MEA	03	739		
	MEA	04	355		



Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Basis size code	PID	01	349	S	
	PID	03	348	PA	
	PID	04	751		
Roll width	PO4	02	357		
	PO4	03	355		
Sheet length	MEA	01	737	PD	
	MEA	02	738	LN	
	MEA	03	739		
	MEA	04	355		
Roll diameter	PO4	15	65		
	PO4	16	355		
Ordered lineal measure	MEA	01	737	PD	
	MEA	02	738	LN	
	MEA	03	739		
	MEA	04	355		
Core, inside diameter	MEA	01	737	CS	
	MEA	02	738	ID	
	MEA	03	739		
	MEA	04	355		
Individual core weight	MEA	01	737	CS	
	MEA	02	738	WT	
	MEA	03	739		
	MEA	04	355		



EMBARC record	Item description, 4D	Manual Pages	32-33
		Update pages	8

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Stock/grade name	LIN	02	235	GN	
	LIN	03	234		
Color description	PID	01	349	F	
	PID	02	750	08	
	PID	03	348	AS	
	PID	05	352		
Special item information	MAN	01	88	L	
	MAN	02	87		



EMBARC record	Item detial, 5M	Manual Pages	34-35
		Update pages	9-11

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Bar coded unit	LIN	02	235	RO, PG,	
identification				VN	
	LIN	03	234		
Packaging unit ID code	Indicated by qualifier	in the appropriate line-ite	m data elements		
Number of rolls per package	PO4	01	357		
Number of splices per package	MEA	01	737	SP	
	MEA	02	738	NA	
	MEA	03	739		
	MEA	04	355	UN	
Actual linear measure	MEA	01	737	PD	
	MEA	02	738	LN	
	MEA	03	739		
	MEA	04	355		
Number of sheets per unit	MEA	01	737	CT	
	MEA	02	738	NU	
	MEA	03	739		
	MEA	04	355	SH	
Gross Weight	MEA	01	737	WT	
	MEA	02	738	G	
	MEA	03	739		
	MEA	04	355		
Tare Weight	MEA	01	737	WT	
	MEA	02	738	Т	
	MEA	03	739		
	MEA	04	355		
Invoice/net weight	MEA	01	737	WT	
	MEA	02	738	N	
	MEA	03	739		
	MEA	04	355		
Second roll/skid	Repeat above entries				
Third roll/skid	Repeat above entries				



EMBARC record	Supplemental item detail, 5S	Manual Pages	36-37
		Update pages	11

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Date of manufacture	DTM	01	374	094	
	DTM	02	373		CCYYMMDD
Machine number	LIN	02	235	MA	
	LIN	03	234		
Reel number	LIN	02	235	RD	
	LIN	03	234		
Set number	LIN	02	235	RS	
	LIN	03	234		
Position	LIN	02	235	PS	
	LIN	03	234		
Number of positions across machine	LIN	02	235	PM	
	LIN	03	234		
Shift	DTM	01	374	094	
	DTM	02	373		CCYYMMDD
	DTM	03	337		HHMM 24 hour format
Side-up/side-out	LIN	02	235	SU	
	LIN	03	234		



EMBARC record	Item summary, 6M	<b>Manual Pages</b>	38-39
		Update pages	11

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Total units shipped	MEA	01	737	СТ	
	MEA	03	739		
	MEA	04	355		
Total rolls shipped	MEA	01	737	СТ	
	MEA	03	739		
	MEA	04	355	RL	
Total gross weight	MEA	01	737	WT	
	MEA	02	738	G	
	MEA	03	739		
	MEA	04	355		
Total tare weight	MEA	01	737	WT	
	MEA	02	738	Т	
	MEA	03	739		
	MEA	04	355		
Total invoice/net weight	MEA	01	737	WT	
	MEA	02	738	N	
	MEA	03	739		
	MEA	04	355		
Total lineal measure	MEA	01	737	PD	
	MEA	02	738	LN	
	MEA	03	739		
	MEA	04	355		
Total square measure	MEA	01	737	PD	
	MEA	03	739		
	MEA	04	355		
Bar coded unit	Indicated b	y qualifier in the appropr	iate line-item data elem	ents	1
Consignee purchase order number	REF	01	128	CG	
	REF	02	127		
Customer accounts receivable number	REF	01	128	AP	
	REF	02	127		
Pallet unit identification	LIN	02	235	VN	Sheeted Paper Identifier
	LIN	03	234		



EMBARC record	Manifest trailer, 9M	<b>Manual Pages</b>	40-41
		Update pages	12

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Total units shipped	CTT	02	347		
Total number of records	SE	01	96		
Total gross weight of shipment	MEA	01	737	WT	
	MEA	02	738	G	
	MEA	03	739		
	MEA	04	355		
Total tare weight of shipment	MEA	01	737	WT	
	MEA	02	738	Т	
	MEA	03	739		
	MEA	04	355		
Total net/invoice weight of shipment	MEA	01	737	WT	
	MEA	02	738	N	
	MEA	03	739		
	MEA	04	355		



EMBARC record	Transmission trailer, 9T	Manual Pages	42-43
		Update pages	12-13

Item/field name	X12 segment	Data element number	Reference number	Value	Comments
Transmission name	ST	01	143	856	
Release	ISA	11	I10		
Version	ISA	12	I11		
Month transmission created	ISA	09	I08		YYMMDD
Day transmission created					Recommend duplicating in header DTM segment for Year 2000 compliance
Year transmission created					
Receiver's transmission number	ISA	13	112		Must match IEA02
Sender company code	ISA	05	105		
	ISA	06	106		
or					
	N1	01	98		
	N1	03	66	1 or 9	
	N1	04	93		
Sender company name	N1	01	98		
	N1	02	93		
Transmission description					Not applicable
Total number of logical records	SE	01	96		



## Appendix Recommended Newsprint Product Codes

Product Code	Description	Note	Color Code	Description	Basis Weight	Percent recycled content	
SN	Standard newsprint		W	White	as grammage	Two digits, 00-99	
RN	Rotonews		Y	Yellow, canary		Or blank	
PN	Premium newsprint		G	Green			
FN	Flexo newsprint		Р	Pink	Three digits with		
HB	Hi-Brite		В	Blue	one decimal place assumed		
LW	Lightweight	1	С	Cream			
BN	Bulky/novel	2	N	Brown			
SA	Supercalendered - A		Н	Peach			
SB	Supercalendered - B						
RP	Repulping paper						
ON	Off-grade						
Notes	1 Grammage less than 40						
	2 Grammage greater than 57						

### Description

The product/grade code structure has two alpha characters for the product, one alpha character for color, three digits for the metric basis weight/grammage or grams per square meter, and two digits for recycled content.

### Examples

White standard newsprint, 48.8 g/m<sup>2</sup>, 30 percent recycled content: SNW48830 Canary flexo newsprint, 48.8 g/m<sup>2</sup>, no recycled content: FNY488

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