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Mechanized Invoice For Billing Verification and Authorization For Payment Process (BVAPP)

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All segment diagrams are preceded by an a Purpose statement and a Specification statement indicating whether the segment is Mandatory, Optional, or Floating and its Maximum (or fixed) length. The specified maximum length is the length defined by ANSI X12 and, therefore, may differ from the TCIF or the Ameritech BVAPP length due to data elements not used by T1 or not recommended by Ameritech. Also indicated are its maximum use within a loop and, if applicable, its position within a loop. Loop Positions are indicated by one of the following:

- Loop Start
- Within Loop
- Loop End

(A loop is defined as a repeating group of one or more data segments. In order for a loop to exist, the first data segment in the loop must appear; other segments defined as either "Within Loop" or "Loop End" need not appear for the loop to exist.)

The components of the Diagram shown in the example are as follows:

"SE" (or the equivalent) in the leftmost block is the Segment Identifier and is used to reference the segment. The example depicts the "SE" (or "Transaction Set Trailer") segment.

The upper left corner of each block is used to display the Data Element Sequence Number within the segment; the upper right corner of each block is used to display the ANSI X12 Data Element Number; and the center of each block is used to display the ANSI X12 Data Element Name. In the example, "SE01" is used to indicate the first ("01") data element in the "SE" segment. Its ANSI X12 Data Element Number is 96 and the ANSI X12 Data Element Name is "Number of Included Segments." The Data Element length, where applicable, is specified in the lower right corner of each block. In the example, the Number of Included Segments (SE01) is shown with a length of "01/06." The digits to the left of the slash (/) indicate the minimum element length while those digits to the right of the slash indicate a maximum length. A fixed element length is indicated by equal minimum and maximum lengths.

Asterisks (*) in the example represent the Data Element Separator as defined in the Interchange Control Header segment (ISA).

The "NL," or New Line, value (Hexadecimal "15") in the diagram represents the Data Segment Terminator as defined in the Interchange Control Header segment (ISA).

The Data Element Requirement Designator is specified in the lower left corner of each block. In the example, the Number of Included Segments (SE01), Data Element #96, is shown with the "M" designator. Designator codes and their meanings are shown below:

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- M - Mandatory. This data element must appear in the segment.
- C - Conditional. The use of this data element is based on the condition of some other data element within the same segment.
- O - Optional. The use of this data element in the segment is either at the option of the sending party or is based on mutual agreement between affected trading partners.
- @ - NOT USED BY T1. (See “NOT USED BY T1” below.)
- § - Indicates the T1 designations “optional” and/or “conditional” for a Data Segment or Element has been changed to “mandatory” for Ameritech PICS/DCPR BVAPP Implementation.

The Data Element Type is specified at the bottom of each block, centered. In the example, the Number of Included Segments (SE01) is specified as type “N0” (zero). Allowable types and their meanings are shown below:

- AN - String. Upper-case letters, digits, spaces, and punctuation marks. Trading partners may elect to include lower-case letters and other special characters. It should be left-justified.
- DT - A Date data element is specified in the format YYMMDD where YY indicates the last two digits of the year, MM indicates the month number, and DD indicates the day—e.g., 870109 for January 9, 1987.
- ID - Identifier. Allowable values for Identifier data elements are taken from predefined lists maintained by the ANSI X12 committee as modified by the TCIF (see “T1-RECOGNIZED” below).
- Nn - Numeric. In the representation “Nn” the “N” indicates Numeric and the “n” indicates the decimal place to the right of a fixed implied decimal point. The decimal point is fixed and not entered as part of the value. Optional leading signs (+ or -) are allowed but not included in the data element length. The absence of a sign indicates a positive value. The value shall be right-justified in the field and the field shall be zero filled, if necessary, to meet the minimum length.
- R - Decimal. The decimal point (.) is optional in the representation of integers under the Decimal data type, but it is required for fractional values. Optional leading signs (+ or -) are allowed. The absence of a sign indicates a positive value. The

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value shall be right justified within the data element length and optional signs and the decimal point are not included in the data element length.

- TM - Time. A Time data element is specified in the format HHMM where HH indicates the hour on a 24-hour clock and MM indicates the minute—e.g., 1440 for 2:40 PM.

TI-recognized. When applied to a code list—i.e., a list of valid codes for an ID type data element— the descriptor “TI-recognized” indicates that the specified list is a subset of the corresponding ANSI list for the ID-type data element. TI-recognized codes are those ANSI codes determined by the TCIF to be specifically applicable to the Telecommunications Industry. In some cases the TI-recognized list and the ANSI list will be identical. In other cases, however, the TI-recognized list will be shorter; the shorter list being the result of the elimination of certain codes by the TCIF that are not applicable to the Telecommunications Industry. The “ZZ” (Mutually Defined) code will only be included in a code list if it is recommended for Ameritech BVAPP Implementation.

Ameritech preferred. When applied to a code list—i.e., a list of valid codes for an ID type data element—the descriptor “Ameritech preferred” indicates that the specified list is a subset of the corresponding ANSI or TCIF list for the ID-type data element. Ameritech preferred codes are those ANSI codes determined by the Ameritech MOA/MI Task Force to be specifically applicable to the Ameritech BVAPP Implementation. The Ameritech-referred codes are designated by PICS/DCPR order subsystem (See HARDWIRED, PLUG-IN, REPAIR). If the PICS/DCPR order subsystem is not shown, the Ameritech preferred codes are applicable to all PICS/DCPR order subsystems, i.e., HARDWIRED, PLUG-IN and REPAIR.

Ameritech BVAPP Terminology for Recommendation. The Ameritech MOA/MI Task Force has determined the applicability of all of the Data Segments shown in the TCIF Guidelines for Electronic Data Interchange for use in the Ameritech BVAPP Implementation. The following terminology is used throughout this document to indicate the applicability:

MANDATORY - Mandatory indicates the Data Segment or Data Element must be provided. If the Data Segment or Element is not provided the Transaction Set will be rejected by BVAPP. Mandatory is designated as an “M” in the “Rec Spec” columns of the table.

STRONGLY RECOMMENDED - Strongly Recommended indicates the Data Segment or Element should be provided. If the Data Segment or Element is not provided the Transaction Set will be loaded with errors that could delay processing of the Transaction Set in BVAPP. Strongly Recommended is designated as an “SR” in the “Rec Spec” columns of the table.

RECOMMENDED - Recommended indicates the Data Segment or Element may be provided. If the Data Segment or Element is not provided the Transaction Set may or may not be loaded

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with errors, but will not delay processing of the Transaction Set in BVAPP. Recommended is designated as an "R" in the "Rec Spec" columns of the table.

NON RECOMMENDED - Not Recommended indicates the Data Segment or Element is not used in BVAPP. If the Data Segment or Element is provided, it will be reported but not used. Not Recommended is designated as an "NR" in the "Rec Spec" columns of the table.

USED - Used indicates the Data Segment or Element is used in BVAPP. Used is designated as a "U" in the "Used/Rptd" columns of the table.

REPORTED - Reported indicates the Data Segment is not used in BVAPP but is shown on a report. Reported is designated as an "R" in the "Used/Rptd" columns of the table.

REC MAX - "Rec Max" columns in the table indicate the recommended maximum length of a Data Element in BVAPP. If the Data Element provided is longer than the Rec Max, the additional characters will be reported but not used.

HARDWIRED - PICS/DCPR has three order subsystems. The range of the order number determines which subsystem will be accessed for BVAPP. The intermingling of Data Segments/Elements between different order number ranges may cause delay of processing the Transaction Set in BVAPP. The HARDWIRED order number ranges for the Ameritech Bell Companies (ABCs) may be obtained from that company's Ameritech BVAPP MOA/MI Coordinator. (See Appendix 1.)

PLUG-IN - PICS/DCPR has three order subsystems. The range of the order number determines which subsystem will be accessed for BVAPP. The intermingling of Data Segments/Elements between different order number ranges may cause delay of processing the Transaction Set in BVAPP. The PLUG-IN order number ranges for the Ameritech Bell Companies (ABCs) may be obtained from that company's Ameritech BVAPP MOA/MI Coordinator. (See Appendix 1.)

REPAIR - PICS/DCPR has three order subsystems. The range of the order number determines which subsystem will be accessed for BVAPP. The intermingling of Data Segments/Elements between different order number ranges may cause delay of processing the Transaction Set in BVAPP. The REPAIR order number ranges for the Ameritech Bell Companies (ABCs) may be obtained from that company's Ameritech BVAPP MOA/MI Coordinator. (See Appendix 1.)

NOT USED BY TI. Both valid ANSI X12 data elements and ANSI X12 data segments may be described in this Guidelines as "NOT USED BY TI." This specification is used to indicate that it has been determined by the TCIF that there is not a valid business reason within the Telecommunications industry for the inclusion of the particular data element or segment in an electronic document. "NOT USED BY TI" data segments are only indicated in the table. In order to obtain the specifications for "NOT USED BY TI" data segments, the applicable ANSI X12 documentation should be consulted.

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Control Segment Relationships. Control segments have a nested relationship to the associated transaction sets as shown in the diagram below.

ISA Interchange Control Header - starts an electronic interchange
GS Functional Group Header - starts a group of related transaction sets
ST Transaction Set Header - starts a transaction set
..
Transaction Set segments
..
SE Transaction Set Trailer - ends a transaction set
ST Transaction Set Header - starts a transaction set
..
Transaction Set segments
..
SE Transaction Set Trailer - ends a transaction set
GE Functional Group Trailer - ends a group of related transaction sets

GS Functional Group Header - starts a group of related transaction sets
ST Transaction Set Header - starts a transaction set
..
Transaction Set segments
..
SE Transaction Set Trailer - ends a transaction set
ST Transaction Set Header - starts a transaction set
..
Transaction Set segments
..
SE Transaction Set Trailer - ends a transaction set
GE Functional Group Trailer - ends a group of related transaction sets
IEA Interchange Control Trailer - ends an electronic interchange

2. PURCHASE ORDER ACKNOWLEDGMENT (855) AND MI (810) MATCH TABLE

TO PREVENT A "MATCHING ORDER ITEM NOT FOUND" THE FOLLOWING DATA ELEMENTS MUST MATCH ON THE POA855 AND MI810 TRANSACTION SETS.

<u>MOA - 855</u>			<u>MI - 810</u>		
DATA ELEMENT	PLUG-IN	HARDWIRE	DATA ELEMENT	PLUG-IN	HARDWIRE
BAK03	X	X	BIG04	X	X
BAK09		X	IT1/VO		X
M1043 SE	X	X	N1043 SE	X	X
BY			BY		
N1/N102	X	X	N1/N102	X	X
N2	X	X	N2	X	X
N3	X	X	N3	X	X
N4	X	X	N4	X	X
PO101	X	X	IT101	X	X
PO104 PO304	X	X	IT104	X	X
PO106/VX		X	IT106/VX		X
ACK07			ACK07		
PO106/VS	X	X	IT106/VX	X	X
ACK07			ACK07		
PO106/CI	X	X	IT106/CI	X	X
ACK07			ACK07		
PO106/MF	X	X	IT106/MF	X	X
ACK07			ACK07		
PO106/PN	X	X	IT106/PN	X	X
ACK07			ACK07		
PO106/VU	X	X	IT106/VU	X	X
ACK07			ACK07		
SLN01		X	IT106/VS		X
SLN06 PO304		X	IT104		X
SLN09/VX		X	IT106/VS		X
ACK07			ACK07		
SLN09/CI		X	IT106/CI		X
ACK07			ACK07		
SLN09/MF		X	IT109/MF		X
ACK07			ACK07		
SLN09/PN		X	IT106/PN		X
ACK07			ACK07		
SLN09/VN		X	IT106VN		X
ACK07			ACK07		
SLN09/VU		X	IT106/VU		X
ACK07			ACK07		

Note: N104 is preferred using the DUNS #. If N104 is not used, N1/N102 associated with N2, N3, N4 is required.

If price change occurred PO304 must be used to change the price of PO104.

If there are changes to PO106/IT106 or SLN09/IT106, ACK07 must follow on a preceding transmission.

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3. INVOICE (810) TABLE

INVOICE (810) TABLE

Data Element	Spec	Type	TCIF Length		Max Use	AMERITECH BVAPP								
			Min	Max		HARDWIRED			PLUG-IN			REPAIR		
						Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd

CONTROL SEGMENTS - START

ISA	M			106	1	M	U		M	U		M	U	
ISA01	M	ID	02	02		M	U		M	U		M	U	
ISA02	M	AN	10	10		M	U		M	U		M	U	
ISA03	M	ID	02	02		M	U		M	U		M	U	
ISA04	M	AN	10	10		M	U		M	U		M	U	
ISA05	M	ID	02	02		M	U		M	U		M	U	
ISA06	M	AN	15	15		M	U		M	U		M	U	
ISA07	M	ID	02	02		M	U		M	U		M	U	
ISA08	M	AN	15	15		M	U		M	U		M	U	
ISA09	M	DT	06	06		M	U		M	U		M	U	
ISA10	M	TM	04	04		M	U		M	U		M	U	
ISA11	M	ID	01	01		M	U		M	U		M	U	
ISA12	M	ID	05	05		M	U		M	U		M	U	
ISA13	M	N0	09	09		M	U		M	U		M	U	
ISA14	M	ID	01	01		M	U		M	U		M	U	
ISA15	M	ID	01	01		M	U		M	U		M	U	
ISA16	M	ID	01	01		M	U		M	U		M	U	
GS				70	1	M	U		M	U		M	U	
GS01	M	ID	02	02		M	U		M	U		M	U	
GS02	M	ID	02	12		M	U		M	U		M	U	
GS03	M	ID	02	12		M	U		M	U		M	U	
GS04	M	DT	06	06		M	U		M	U		M	U	
GS05	M	TM	04	04		M	U		M	U		M	U	
GS06	M	N0	01	09		M	U		M	U		M	U	
GS07	M	ID	01	02		M	U		M	U		M	U	
GS08	M	ID	01	12		M	U		M	U		M	U	

HEADER SEGMENTS

ST	M			17	1	M	U		M	U		M	U	
ST01	M	ID	03	03		M	U		M	U		M	U	
ST02	M	AN	04	09		M	U		M	U		M	U	

INVOICE (810) TABLE

Data Element	Spec	Type	TCIF Length		Max Use	AMERITECH BV APP								
			Min	Max		HARDWIRED			PLUG-IN			REPAIR		
						Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd

HEADER SEGMENTS (Continued)

BIG	M			107	1	M	U	M	U	M	U	
BIG01	M	DT	06	06		M	U	M	U	M	U	
BIG02	M	AN	01	10		M	U	M	U	M	U	
BIG03	O	DT	06	06		SR	U	SR	U	SR	U	
BIG04	M	AN	01	22		M	10 U	M	10 U	M	10 U	
BIG05	O	AN	01	10		R	R	R	R	R	R	
BIG06	O	AN	01	03		NR	R	NR	R	NR	R	
BIG07	O	ID	02	02		R	U	R	U	NR	R	
NTE	F			69	100	NR	R	NR	R	NR	R	
NTE01	O	ID	03	03		NR	R	NR	R	NR	R	
NTE02	M	AN	01	60		NR	R	NR	R	NR	R	
N1	O			63	A/LS 5L	M	U	M	U	M	U	
N101	M	ID	02	02		M	U	M	U	M	U	
N102	C	AN	01	35		NR	U	NR	U	NR	U	
N103	C	ID	01	02		SR	U	SR	U	SR	U	
N104	C	AN	02	17		SR	12 U	SR	12 U	SR	12 U	
N3	O			75	2/L	NR	U	NR	U	NR	U	
N301	M	AN	01	35		NR	U	NR	U	NR	U	
N302	O	AN	01	35		NR	U	NR	U	NR	U	
N4	O			68	1/L	NR	U	NR	U	NR	U	
N401	M	AN	02	19		NR	U	NR	U	NR	U	
N402	C	ID	02	02		NR	U	NR	U	NR	U	
N403	O	ID	05	09		NR	U	NR	U	NR	U	
N404	O	ID	02	02		NR	U	NR	U	NR	U	
N405	@	ID	02	02								
N406	@	AN	01	25								
PER	M			114	3/LE	R	U	R	U	R	U	
PER01	M	ID	02	02		R	U	R	U	R	U	
PER02	O	AN	01	35		R	U	R	U	R	U	
PER03	O	ID	02	02		R	U	R	U	R	U	
PER04	C	AN	07	21		R	U	R	U	R	U	
PER05	@	AN	01	45								

INVOICE (810) TABLE

Data Element	Spec Type		TCIF Length Min Max		Max Use	AMERITECH BVAPP								
						HARDWIRED			PLUG-IN			REPAIR		
						Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd

HEADER SEGMENTS (Continued)

ITD	O			155	5	NR	R	NR	R	NR	R
ITD01	M	ID	02	02		NR	R	NR	R	NR	R
ITD02	M	ID	01	02		NR	R	NR	R	NR	R
ITD03	C	R	01	06		NR	R	NR	R	NR	R
ITD04	C	DT	06	06		NR	R	NR	R	NR	R
ITD05	C	N0	01	03		NR	R	NR	R	NR	R
ITD06	C	DT	06	06		NR	R	NR	R	NR	R
ITD07	C	N0	01	03		NR	R	NR	R	NR	R
ITD08	C	N2	01	10		NR	R	NR	R	NR	R
ITD09	@	DT	06	06							
ITD10	@	N2	01	10							
ITD11	@	R	01	05							
ITD12	@	AN	01	80							
DTM	O			20	1	NR	R	NR	R	NR	R
DTM01	M	ID	03	03		NR	R	NR	R	NR	R
DTM02	C	DT	06	06		NR	R	NR	R	NR	R
DTM03	C	TM	04	04		NR	R	NR	R	NR	R
FOB	O			185	1	NR	U	NR	U	NR	U
FOB01	M	ID	02	02		NR	U	NR	U	NR	U
FOB02	O	ID	02	02		NR	U	NR	U	NR	U
FOB03	C	AN	01	80		NR	R	NR	R	NR	R
FOB04	O	ID	02	02		NR	R	NR	R	NR	R
FOB05	C	ID	03	06		NR	R	NR	R	NR	R
FOB06	O	ID	02	02		NR	R	NR	R	NR	R
FOB07	C	AN	01	80		NR	R	NR	R	NR	R

INVOICE (810) TABLE

Data Element	Spec	Type	TCIF Length		Max Use	AMERITECH BVAPP								
			Min	Max		HARDWIRED			PLUG-IN			REPAIR		
						Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd

DETAIL SEGMENTS

IT1	M		383	1/LS	M	U	M	U	M	U		
IT101	O	AN	01	04	10000L	M	U	M	U	M	U	
IT102	M	R	01	10		M	08 U	M	08 U	M	08 U	
IT103	M	ID	02	02		M	U	M	U	M	U	
IT104	M	R	01	14		M	U	M	U	M	U	
IT105	O	ID	02	02		SR	U	SR	U	SR	U	
IT106	O	ID	02	02	10/S	SR	U	SR	U	SR	U	
IT107	C	AN	01	30	10/S	SR	U	SR	U	SR	U	
SLN	O		390	1000/L	NR	U	NR	R	NR	R		
SLN01	M	AN	01	06		NR	04 U	NR	R	NR	R	
SLN02	@	AN	01	02								
SLN03	M	ID	01	01		NR	U	NR	R	NR	R	
SLN04	M	R	01	10		NR	05 U	NR	R	NR	R	
SLN05	M	ID	02	02		NR	U	NR	R	NR	R	
SLN06	M	R	01	14		NR	U	NR	R	NR	R	
SLN07	O	ID	02	02		NR	U	NR	R	NR	R	
SLN08	M	ID	01	01		NR	U	NR	R	NR	R	
SLN09	O	ID	02	02	10/S	NR	U	NR	R	NR	R	
SLN10	C	AN	01	30	10/S	NR	U	NR	R	NR	R	
J2X	O		90	1000/L	NR	R	NR	R	NR	R		
J2X01	M	ID	02	02		NR	R	NR	R	NR	R	
J2X02	M	ID	01	01		NR	R	NR	R	NR	R	
J2X03	M	AN	01	80		NR	R	NR	R	NR	R	

INVOICE (810) TABLE

Data Element	Spec	Type	TCIF Length		Max Use	AMERITECH BVAPP								
			Min	Max		HARDWIRED			PLUG-IN			REPAIR		
						Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd

DETAIL SEGMENTS (Continued)

ITA	O			175	10/L	R	U	R	U	NR	X	
ITA01	M	ID	01	01		M	U	M	U	NR	X	
ITA02	M	ID	02	02		M	U	M	U	NR	X	
ITA03	C	ID	02	10		SR	U	SR	U	NR	X	
ITA04	M	ID	02	02		M	U	M	U	NR	X	
ITA05	O	AN	01	16		NR		NR		NR	X	
ITA06	C	R	01	09		NR	U	NR	U	NR	X	
ITA07	C	N2	01	09		SR	U	SR	U	NR	X	
ITA08	O	ID	01	01		NR	U	NR	U	NR	X	
ITA09	C	R	01	06		NR	U	NR	U	NR	X	
ITA10	@	R	01	10								
ITA11	@	ID	02	02								
ITA12	@	R	01	10								
ITA13	C	AN	01	80		NR	U	NR	U	NR	X	
N1	O			63	1/LLS	NR	R	NR	R	NR	R	
N101	M	ID	02	02	5/LL	NR	R	NR	R	NR	R	
N102	C	AN	01	35		NR	R	NR	R	NR	R	
N103	C	ID	01	02		NR	R	NR	R	NR	R	
N104	C	AN	02	17		NR	R	NR	R	NR	R	
N3	O			75	2/LL	NR	R	NR	R	NR	R	
N301	M	AN	01	35		NR	R	NR	R	NR	R	
N302	O	AN	01	35		NR	R	NR	R	NR	R	
N4	O			68	1/LL	NR	R	NR	R	NR	R	
N401	M	AN	02	19		NR	R	NR	R	NR	R	
N402	C	ID	02	02		NR	R	NR	R	NR	R	
N403	O	ID	05	09		NR	R	NR	R	NR	R	
N404	@	ID	02	02		NR	R	NR	R	NR	R	
N405	@	ID	02	02								
N406	@	AN	01	25								

INVOICE (810) TABLE

Data Element	Spec	Type	TCIF Length		Max Use	AMERITECH BVAPP								
			Min	Max		HARDWIRED			PLUG-IN			REPAIR		
						Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd

DETAIL SEGMENTS (Continued)

PER	O			114	3/LLE	NR	R		NR	R		NR	R	
PER01	M	ID	02	02		NR	R		NR	R		NR	R	
PER02	O	AN	01	35		NR	R		NR	R		NR	R	
PER03	O	ID	02	02		NR	R		NR	R		NR	R	
PER04	C	AN	07	21		NR	R		NR	R		NR	R	
PER05	@	AN	01	45										

SUMMARY SEGMENTS

TDS	M			48	1	M	U		M	U		M	U	
TDS01	M	N2	01	10		M	U		M	U		M	U	
TDS02	C	N2	01	10		NR	U		NR	U		NR	U	
TDS03	O	N2	01	10		NR	U		NR	U		NR	U	
TDS04	O	N2	01	10		NR	U		NR	U		NR	U	
CAD	O			98	1	R	U		R	U		R	U	
CAD01	O	ID	01	02		R	U		R	U		R	U	
CAD02	@	AN	01	04										
CAD03	@	AN	01	07										
CAD04	C	ID	02	04		NR	R		NR	R		NR	R	
CAD05	C	AN	01	35		R	U		R	U		R	U	
CAD06	@	ID	02	02										
CAD07	O	ID	02	02		NR	R		NR	R		NR	R	
CAD08	O	AN	01	30		NR	R		NR	R		NR	R	

INVOICE (810) TABLE

Data Element	Spec	Type	TCIF Length		Max Use	AMERITECH BVAPP								
			Min	Max		HARDWIRED			PLUG-IN			REPAIR		
						Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd

SUMMARY SEGMENTS (Continued)

ITA	O			175	10	R		U	R		U	R		U
ITA01	M	ID	01	01		M		U	M		U	M		U
ITA02	M	ID	02	02		M		U	M		U	M		U
ITA03	C	ID	02	10		R		U	R		U	R		U
ITA04	M	ID	02	02		M		U	M		U	M		U
ITA05	O	AN	01	16		SR		U	SR		U	SR		U
ITA06	@	R	01	09										
ITA07	C	N2	01	09		SR		U	SR		U	SR		U
ITA08	O	ID	01	01		NR		U	NR		U	NR		U
ITA09	C	R	01	06		NR		U	NR		U	NR		U
ITA10	@	R	01	10										
ITA11	@	ID	02	02										
ITA12	@	R	01	10										
ITA13	C	AN	01	80		NR		U	NR		U	NR		U
ISS	O			42	1	NR		X	NR		X	M		U
ISS01	M	R	01	10		NR		X	NR		X	M		U
ISS02	M	ID	02	02		NR		X	NR		X	M		U
ISS03	@	R	01	08										
ISS04	@	ID	02	02										
ISS05	@	R	01	08										
ISS06	@	ID	02	02										
CTT	M			127	1	M		U	M		U	M		U
CTT01	M	N0	01	06		M		U	M		U	M		U
CTT02	O	R	01	10		SR		U	SR		U	SR		U
CTT03	@	R	01	08										
CTT04	@	ID	02	02										
CTT05	@	R	01	08										
CTT06	@	ID	02	02										
CTT07	@	AN	01	80										
SE	M			20	1	M		U	M		U	M		U
SE01	M	N0	01	06		M		U	M		U	M		U
SE02	M	AN	04	09		M		U	M		U	M		U

INVOICE (810) TABLE

Data Element	Spec	Type	TCIF Length		Max Use	AMERITECH BV APP								
			Min	Max		HARDWIRED			PLUG-IN			REPAIR		
						Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd	Rec Spec	Rec Max	Used/ Rptd

CONTROL SEGMENTS - END

GE	M			20	1	M	U	M	U	M	U
GE01	M	N0	01	06		M	U	M	U	M	U
GE02	M	N0	01	09		M	U	M	U	M	U
IEA	M			20	1	M	U	M	U	M	U
IEA01	M	N0	01	05		M	U	M	U	M	U
IEA02	M	N0	09	09		M	U	M	U	M	U

4. CONTROL SEGMENTS

ISA - INTERCHANGE CONTROL HEADER

Purpose: To start and identify an interchange of one or more functional groups. ISA is an approved ANSI segment and will be published in the next release.

Spec: Mandatory, Fixed Length = 106, Max Use = 1

Diagram:

ISA	ISA01	744	AUTHORIZATION INFORMATION QUALIFIER	*	ISA02	754	AUTHORIZATION INFORMATION	*	ISA03	746	SECURITY INFORMATION QUALIFIER	*
	M	ID	02/02		M	AN	10/10		M	ID	02/02	
	ISA04	747	SECURITY INFORMATION	*	ISA05	704	INTERCHANGE ID QUALIFIER	*	ISA06	705	INTERCHANGE SENDER ID	*
	M	AN	10/10		M	ID	02/02		M	AN	15/15	
	ISA07	704	INTERCHANGE ID QUALIFIER	*	ISA08	706	INTERCHANGE RECEIVER ID	*	ISA09	373	INTERCHANGE SUBMIT DATE	*
	M	ID	02/02		M	AN	15/15		M	DT	06/06	
	ISA10	337	INTERCHANGE SUBMIT TIME	*	ISA11	703	INTERCHANGE STANDARDS IDENTIFIER	*	ISA12	703	INTERCHANGE VERSION ID	*
	M	TM	04/04		M	ID	01/01		M	ID	05/05	
	ISA13	709	INTERCHANGE CONTROL NUMBER	*	ISA14	749	ACKNOWLEDGE REQUESTED	*	ISA15	703	TEST INDICATOR	*
	M	N0	09/09		M	ID	01/01		M	ID	01/01	
	ISA16	701	SUBELEMENT SEPARATOR	N L								
	M	ID	01/01									

NOTE 1 Data Element Separator

The Data Element Separator is a special character used to separate data elements within a segment. The first occurrence of the Data Element Separator (the fourth character in the ISA header segment) defines the value of the Data Element Separator for the entire interchange. It must be used consistently in all segments between each ISA header and corresponding IEA trailer. It CANNOT be used as data within a data element. For the purpose of this document, an asterisk(*) will be used as the Data Element Separator.

The Ameritech preferred Data Element Separator is the '-' character (hexadecimal 5F).

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NOTE 2 Data Segment Terminator

The Data Segment Terminator is a special character used to terminate every segment within an interchange. The first occurrence of the Data Segment Terminator (the special character immediately following the Subelement Separator ISA 16) defines the value of the Data Segment Terminator for the entire interchange. It must be used consistently to end all data segments that are between each ISA header and corresponding IEA trailer. It CANNOT be used as data within a data element. For the purpose of this document, the New Line character (hexadecimal 15) is the special character used for the Data Element Separator.

The Ameritech preferred Data Segment Terminator is the '|' character (hexadecimal 4F).

ISA01. Authorization Information Qualifier (Data Element #744)

(Spec: Mandatory Type=ID Min/Max = 02/02)

This qualifier is used to designate the type of information contained in the Authorization Information (ISA02) data element. The only TI-recognized code for this transaction is:

CODE	DEFINITION
00	00 No authorization information is present

ISA02. Authorization Information (Data Element #745)

(Spec: Mandatory Type = AN Min/Max = 10/10)

The Authorization Information, in conjunction with the Authorization Information Qualifier (ISA01), supplies additional sender identification or additional sender authorization for the data contained in the message. The only TI-recognized value for this data element is 10 blanks.

ISA03. Security Information Qualifier (Data Element #746)

(Spec: Mandatory Type = ID Min/Max = 02/02)

This qualifier is used to designate the type of information contained in the Security Information (ISA04) data element. The only TI-recognized for this transaction is:

CODE	DEFINITION
00	No security information is present

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ISA04. Security Information (Data Element #747)

(Spec: Mandatory Type = AN Min/Max = 10/10)

The Security Information, in conjunction with the Security Information Qualifier (ISA03), supplies security information for the sender of the message. The only TI-recognized value for this data element is 10 blanks.

ISA05. Interchange I.D. Qualifier (Data Element #704)

(Spec: Mandatory Type = ID Min/Max = 02/02)

This qualifier is used to designate the system and/or method of code structure used in the Interchange Sender I.D. (ISA06) following. The preferred TI-recognize codes, their definition, and authority are:

CODE	DEFINITION	AUTHORITY
01	DUNS Number	Dun and Bradstreet
02	SCAC	Standard Carrier Alpha Code
03	FMC	Federal Maritime Commission
04	IATA	International Air Transport
08	UPC	UPC Council
09	DUNS with 4-digit suffix	Dun and Bradstreet
11	DEA	Drug Enforcement Administration
12	Telephone Number	Telephone Company

A complete list of the TI-recognized codes can be found in Appendix A, code list #66.

The Ameritech preferred Interchange I.D. Qualifier for the Interchange Sender ID are the DUNS Number (01) or Assigned by Seller or Seller's Agent (91).

ISA06. Interchange Sender I.D. (Data Element #705)

(Spec: Mandatory Type = AN Min/Max = 15/15)

The Interchange Sender I.D., in conjunction with the Interchange I.D. Qualifier (ISA05), designates the sender of the message. This identifier is mutually agreed upon by both the sender and the receiver of the message in advance of transmission.

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ISA07. Interchange I.D. Qualifier (Data Element #704)

(Spec: Mandatory Type = ID Min/Max = 02/02)

This qualifier is used to designate the system and/or method of code structure used in the Interchange Receiver I.D. (ISA08) following. The preferred TI-recognized codes, their definition, and authority are:

CODE	DEFINITION	AUTHORITY
01	DUNS Number	Dun and Bradstreet
02	SCAC	Standard Carrier Alpha Code
03	FMC	Federal Maritime Commission
04	IATA	International Air Transport
08	UPC	UPC Council
09	DUNS with 4-digit suffix	Dun and Bradstreet
11	DEA	Drug Enforcement Administration
12	Telephone Number	Telephone Company

A complete list of the TI-recognized codes can be found in Appendix A, Code list #66.

The Ameritech preferred Interchange I.D. Qualifier for the Interchange Receiver ID are the DUNS Number (01) or Assigned by Buyer (92).

ISA08. Interchange Receiver I.D. (Data Element #706)

(Spec: Mandatory Type = AN Min/Max = 15/15)

The Interchange Receiver I.D., in conjunction with the Interchange I.D. Qualifier (ISA07), designates the receiver of the message. This identifier is mutually agreed upon by both the sender and the receiver of the message in advance of transmission.

The valid Receiver ID's for the Ameritech Bell Companies (ABCs) may be Obtained from the ABC BVAPP MOA/MI coordinator shown in Appendix 1.

ISA09. Interchange Submit Date (Data Element #373)

(Spec: Mandatory Type = DT Min/Max = 06/06)

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This data element specifies the date, in YYMMDD format, that the sender created the Message enclosed by the Interchange Control Header (ISA) and the Interchange Control Trailer (IEA). This date is local to the sender.

ISA10. Interchange Submit Time (Data Element #337)

(Spec: Mandatory Type = TM Min/Max = 04/04)

This data element specifies the time in HHMM format, based on a 24-hour clock, that the sender created the message enclosed by the Interchange Control Header (ISA) and the Interchange Control Trailer (IEA). This time is local to the sender.

ISA11. Interchange Standards Identifier (Data Element #726)

(Spec: Mandatory Type = ID Min/Max = 01/01)

This identifier is used to designate the organization responsible for the document Standard used by the message that is enclosed by the Interchange Control Header (ISA) and the Interchange Control Trailer (IEA). For those messages developed within the TCIF guidelines, the value of this identifier will be 'U', (USA).

ISA12. Interchange Version ID (Data Element #703)

(Spec: Mandatory Type = ID Min/Max = 05/05)

The Interchange Version designates specifically which document standard is used by the message that is enclosed by the Interchange Control Header (ISA) and the Interchange Control Trailer (IEA). Positions 1-3 of this data element specify the major version number and positions 4-5 specify the release level of the version number.

The TI-recognized Interchange Version is: 00200

ISA13. Interchange Control Number (Data Element #709)

(Spec: Mandatory Type = N0 Min/Max = 09/09)

The Interchange Control Number is generated by the sender of the interchange and is used by the sender to uniquely identify the interchange. In conjunction with the Interchange Sender I.D. (ISA06), it uniquely identifies the interchange to the receiver. The value of the Interchange Control Number must match the value in the same element in the Interchange Control Trailer (IEA).

Ameritech RECOMMENDS the Interchange Control Number be sequential from one transmission to next. This will ensure that no transmissions are lost in transit.

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ISA14. Acknowledge Requested (Data Element #749)

(Spec: Mandatory Type = ID Min/Max = 01/01)

The Acknowledge Requested data element is used to request a mechanized interchange acknowledgment. The preferred TI-recognized codes for this transaction are:

CODE	DEFINITION
0	No acknowledgement requested
1	Interchange acknowledgement requested

A complete list of the TI-recognized codes can be found in Appendix A.

Ameritech will provide paper acknowledge of interchanges received.

ISA15. Test Indicator (Data Element #748)

(Spec: Mandatory Type = ID Min/Max = 01/01)

The Test Indicator data element is used to identify whether the data enclosed in this interchange envelope is test data or production data. The preferred TI-recognized codes for this transaction are:

CODE	DEFINITION
T	Test data
P	Production data

A complete list of the TI-recognized codes can be found in Appendix A.

ISA16. Subelement Separator (Data Element #701)

(Spec: Mandatory Type = AN Min/Max = 01/01)

The Subelement Separator, currently reserved for future use, is a special character which will separate a data element into data element subgroups. For the interim, it is recommended that the Subelement Separator value contain the same character as the Data Element Separator.

The Ameritech preferred Subelement Separator is the '↵' character (hexadecimal 5F).

GS - FUNCTIONAL GROUP HEADER (START)

Purpose: To start and identify a group of functionally related transaction sets (documents) and provide control and application identification information.

Spec: Mandatory, Fixed Length = 70, Max Use = 1

Diagram:

GS	*	GS01	479		GS02	142		GS03	124	
		FUNCTIONAL			APPLICATION			APPLICATION		
		ID			SENDER'S			RECEIVER'S		
					CODE			CODE		
		M	ID	02/02	M	ID	02/12	M	ID	02/12
		GS04	29		GS05	30		GS06	28	
		DATA			DATA			DATA		
		INTERCHANGE			INTERCHANGE			INTERCHANGE		
		DATE			TIME			CONTROL NO.		
		M	DT	06/06	M	TM	04/04	M	N0	01/09
		GS07	455		GS08	480				
		RESPONSIBLE			VERSION					
		AGENCY CODE								
		M	ID	01/02	M	ID	01/12			

GS01. Function I.D. (Data Element #479)

(Spec: Mandatory Type = ID Min/Max = 02/02)

The Functional I.D. identifies the group of transaction sets bounded by the Functional Group Header (GS) – i.e., "Group Start" – segment and the Functional Group Trailer (GE) – i.e., "Group End" – segment.

The preferred TI-recognized codes and their definitions are:

CODE	DEFINITION
FA	Functional Acknowledgement Transactions
IN	Invoice Related Transactions

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PO	Purchase Order Related Transactions
QG	Quotation Related Transactions
SH	Shipment Related Transactions

A complete list of the TI-recognized codes can be found in Appendix A.

The Ameritech preferred Functional I.D. code is Invoice Related Transactions (IN).

GS02. Application Sender's Code (Data Element #142)

(Spec: Mandatory Type = ID Min/Max = 02/12)

All Application Sender's Code designates the sender of the transaction set(s) bounded by the Group Start (GS) segment and the Group End (GE) segment. Normally, this code will be the same as the first twelve characters (with trailing blanks suppressed) of the Interchange Sender I.D. (ISA06), Data Element #705, from the Interchange Control Header (ISA) segment.

This identifier is mutually agreed upon by both the sender and the receiver of the transaction in advance of the transmission.

GS03. Application Receiver's Code (Data Element #124)

(Spec: Mandatory Type = ID Min/Max = 02/12)

The Application Receiver's code designates the receiver of the transaction set(s) bounded by the Group Start (GS) segment and the Group End (GE) segment. Normally, this code will be the same as the first twelve characters (with trailing blanks suppressed) of the Interchange Receiver I.D. (ISA09), Data Element #706, from the Interchange Control Header (ISA) segment.

The valid Receiver ID's for the Ameritech Bell Companies (ABCs) may be obtained from the ABC BVAPP MOA/MI coordinator shown in Appendix 1.

GS04. Data Interchange Date (Data Element #29)

(Spec: Mandatory Type = DT Min/Max = 06/06)

This data element supplies the date that the sender created the transaction set(s) bounded by the Group Start (GS) and Group End (GE) segments. This date is local to the sender.

GS05. Data Interchange Time (Data Element #30)

(Spec: Mandatory Type = TM Min/Max = 04/04)

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This data element specifies the time that the sender created the transaction set(s) bounded by the Group Start (GS) and Group End (GE) segments. This time is local to the sender.

GS06. Data Interchange Control Number (Data Element #28)

(Spec: Mandatory Type = N0 Min/Max = 01/09)

This control number is generated by the sender of the transaction set(s) bounded by the Group Start (GS) and Group End (GE) segments. The value in this element must equal the same element in the Group End (GE) segment. Within a specific interchange bounded by an Interchange Control Header (ISA) segment and Interchange Control Trailer (IEA) segment, the Data Interchange Control Number must be unique.

GS07. Responsible Agency Code (Data Element #455)

(Spec: Mandatory Type = ID Min/Max = 01/02)

This code is used in conjunction with the Version (GS08) to identify the issuer of the overall standard followed in preparing the transaction set(s) included in the current functional group. For transaction sets generated using this guideline, the value of this element will be "x".

GS08. Version (Data Element #480)

(Spec: Mandatory Type = ID Min/Max = 01/12)

The Version is used in conjunction with the Responsible Agency Code (GS07) to specify the exact version of the overall standard used to prepare the transaction set(s) included in the current functional group. All transaction sets within the functional group must have the same version. The make-up of this data element is as follows:

POSITION	DESCRIPTION
01-03	Major Version Number
04-06	Release Level of Version
07-12	Industry or Trade Association Identifier

The TI-recognized Version is: 002000TI0100

The Version number shown above indicates (1) "Standards Approved by ANSI in February 1986" (positions 106), (2) as interpreted by the TCIF (positions 7-8), (3) the current Issue (positions 9-10), and (4) the current release (positions 11-12).

5. INVOICE HEADER SEGMENTS

ST - TRANSACTION SET HEADER

Purpose: To identify the start of each transaction set.

Spec: Mandatory, Max Length = 17, Max Use = 1

Diagram:

ST	*	ST01	143		ST02	329		N
		TRANSACTION		*	TRANSACTION			L
		SET ID			SET CONTROL			
					NUMBER			
		M	ID	03/03	M	AN	04/09	

ST01. Transaction Set I.D. (Data Element #143)

(Spec: Mandatory Type = ID Min/Max = 03/03)

This data element identifies the type of transaction set that is to follow. '810' will be used to indicate that this is an Invoice Transaction Set. The Functional ID (GS01) in the GS segment must be "IN".

ST02. Transaction Set Control Number (Data Element #329)

(Spec: Mandatory Type = AN Min/Max = 04/09)

This data element is the identifying control number assigned by the originator of the transaction set, The value of this element must equal the same data element in the Transaction Set Trailer (SE02).

BIG - BEGINNING SEGMENT (INVOICE)

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

Spec: Mandatory, Max Length = 107, Max Use = 1

Diagram:

BIG	*	BIG01	245	*	BIG02	76	*	BIG03	323	*
		INVOICE DATE			INVOICE NUMBER			PURCHASE ORDER DATE		
		M MT 06/06			M AN 01/10			MS DT 06/06		
		BIG04	324	*	BIG05	328	*	BIG06	327	*
		PURCHASE ORDER NUMBER			RELEASE NUMBER			CHANGE ORDER SEQUENCE NUMBER		
		M AN 01/22			O AN 01/10			O AN 01/03		
		BIG07	460							
		INVOICE TYPE								N L
		O ID 02/02								

BIG01. Invoice Date (Data Element #245)

(Spec: Mandatory Type = DT Min/Max = 06/06)

The invoice date is assigned by the sending party. It indicates the date the invoice was created by the sender.

BIG02. Invoice Number (Data Element #76)

(Spec: Mandatory Type = AN Min/Max = 01/10)

The invoice number is assigned by the sending party. Note that the maximum length of this data element is less than ANSI.

Ameritech RECOMMENDS the Invoice Number NOT EXCEED 9 characters in length.

BIG03. Purchase Order Date (Data Element #323)

(Spec: Mandatory Type = DT Min/Max = 06/06)

The Purchase Order Date as contained in the original Purchase Order is to be returned on the Invoice transaction set if agreed to by the trading partners.

The preferred Purchase Order Date is the date on the ABC's original REQUISITION/TEO. The Purchase Order Date is MANDATORY for PICS/DCPR BVAPP Implementation

BIG04. Purchase Order Number (Data Element #324)

(Spec: Mandatory Type = AN Min/Max = 01/22)

This data element contains the Purchase Order Number provided on the original P.O.

The Purchase Order Number is the buyer's REQUESTION/TELEPHONE EQUIPMENT ORDER (TEO)/REPAIR SERVICE ORDER (RSO) number. This number should not exceed 10 characters in length. The first 10 characters will be edited against the PICS/DCPR Requisition Range Definition Table (PRRDT). PRRDT defines valid requisition/TEO/RSO number ranges for HARDWIRED and PLUG-IN requisitions/TEOs and REPAIR RSOs. The valid ranges for the Ameritech Bell Companies (ABCs) may be obtained from the ABC BVAPP MOA/NI coordinators shown in Appendix 1.

BIG05. Release Number (Data Element #328)

(Spec: Optional Type = AN Min/Max = 01/10)

This number identifies a release against a standard or blanket purchase order previously agreed to by the trading partners. Note that the maximum length of this data element is less than ANSI.

The Release number is RECOMMENDED when this invoice transaction set is associated with a particular release of a Purchase Order Acknowledgement transaction set and shall be the same as the Release Number (BAK05) in the Beginning Segment (Purchase Order Acknowledgement (BAK) segment.

BIG06. Change Order Sequence Number (Data Element #327)

(Spec: Optional Type = AN Min/Max = 01/03)

This number is used to indicate a change to a previously generated purchase order. It is to be used for audit and verification purposes. Note that the maximum length of this data element is less than ANSI.

The Change Order Sequence Number is NOT RECOMMENDED.

BIG07. Invoice Type (Data Element #640)

(Spec: Optional Type = ID Min/Max = 02/02)

This is a code specifying the type of invoice. The TI-recognized codes can be found in Appendix A.

Ameritech RECOMMENDS the Invoice Type ONLY when this transaction set is the LAST transaction set associated with one of the following BVAPP billing Categories:

INVOICE TYPE	BILLING CATEGORY	HARDWIRED	PLUG-IN
EB	ENG	X	
IB	LABI	X	
MB	MATN	X	X
RB	RTUI & RTUR	X	

The Invoice is NOT RECOMMENDED for invoices associated with REPAIR RSO's.

NTE - NOTE

Purpose: To provide information in a free-form format to meet purposes deemed necessary by and negotiated between trading partners.

Spec: Floating, Max Length = 69, Max Use = 100

Diagram:

NTE	*	NTE01	363	*	NTE02	3	N
		NOTE			FREE-FORM		L
		REFERENCE			MESSAGE		
		CODE					
		○ ID	03/03		M AN	01/60	

The Note segment is NOT RECOMMENDED. See TCIF GUIDELINES for data element definitions.

N1 - NAME

Purpose: To identify a party by the type or organization, name, or code. If the Name (N102) is used in this segment, the N3 and N4 segments are required.

Spec: Mandatory § Max Length = 63 Max Use = 1 N1 Loopstart Max Loops = 5

Three Name (N1) loops are MANDATORY for PICS/DCPR BVAPP implementation. The first N1 loop is for the Seller (SE); the second N1 loop is for the Buyer (BY); and the third N1 loop is for the Remit to (PE). Ameritech prefers only these three N1 loops.

Diagram:

N1	*	N101	98	ORGANIZATION IDENTIFIER	*	N102	93	NAME	*	N103	66	ID CODE QUALIFIER	*
		M	ID	02/02		C	AN	01/35		C	ID	01/02	
		N104	67	ID CODE	N				L				
		C	AN	02/17									

N101. Organization Identifier (Data Element #98)

(Spec: Mandatory Type = ID Min/Max = 02/02)

This data element defines the organization specified in the Name field (N102). The preferred T1-recognized codes for this transaction are:

CODE	DEFINITION
BY	Buyer
PE	Remit to
SE	Seller

SF	Ship from
ST	Ship to

A complete list of the T1-recognized codes can be found in Appendix A.

The MANDATORY Organization identifiers required for PICS/DCPR BVAPP implementation are the Seller (SE); the Buyer (BY); and the Remit to (PE).

N102. Name (Data Element #93)

(Spec: Conditional Type = AN Min/Max = 01/35)

This data element contains the name of the party referenced by the Organization identifier (N101). See Note 1.

The Name data element is NOT RECOMMENDED. Ameritech prefers the use of the I.D. Code Qualifier (N103) and the I.D. Code (N104).

N103. I.D. Code Qualifier (Data Element #66)

(Spec: Conditional Type = ID Min/Max = 01/02)

This data element identifies the type code, found in the I.D. Code data element (N104). See Note 1. The T1-recognized codes can be found in Appendix A.

The I.D. Code Qualifier is STRONGLY RECOMMENDED. The referred I.D. Code Qualifiers, in order of preference, are 1) Dun and Bradstreet (Credit Reporting) (DUNS)(01), or 2) Assigned by Seller or Seller's Agent(91) and/or 3) Assigned by Buyer(92).

N104. I.D. Code (Data Element #67)

(Spec: Conditional Type = AN Min/Max = 02/17)

This data element contains the mutually agreed upon code identifying the organization specified in the I.D. Code Qualifier (N103). See Note 1.

The I.D. Code data element is mandatory when the I.D. Code Qualifier (N103) is provided. Only the first 12 characters of this element will be used. The ABC's use headquarters DUNS numbers without dashes and with a three character suffix for an overall length of twelve characters. The valid I.D. Codes for the ABCs may be obtained from the ABC BVAPP coordinators shown in Appendix 1.

NOTE: 1. Either N102 or N103 and N104 is required.

Ameritech RECOMMENDS N103 and N104.

N3 - STREET ADDRESS

Purpose: To specify the street, building, or other address information. This segment is required if the Name (N102) was specified in the N1 segment.

Spec: Optional, Max Length = 75, Max Use = 2 within the N1 loop

Diagram:

N3	*	N301		166		N302		166		N
		STREET ADDRESS			*	STREET NUMER				L
		M	AN	01/35		O	AN	01/35		

The Street Address segment is NOT RECOMMENDED. See TCIF GUIDELINES for data element definitions.

N4 - CITY/STATE

Purpose: To specify the geographic location of the named party. This segment is required if the Name (N102) was specified in the N1 segment.

Spec: Optional, Max Length = 68, Max Use = 1 within the N1 loop

Diagram:

N4	*	N401	19		N402	156		N403	116	
		CITY NAME		*	STATE/PROV CODE		*	POSTAL CODE		*
		M AN	02/19		C ID	02/02		O ID	05/09	
		N404	26		N405	309		N406	310	
		COUNTRY CODE		*	LOCATION QUALIFIER		*	LOCATION IDENTIFIER		N L
		O ID	02/02		@ ID	02/02		@ AN	01/25	

The City/State segment is NOT RECOMMENDED. See TCIF GUIDELINES for data element definitions.

PER - ADMINISTRATIVE COMMUNICATION CONTACT

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

Spec: Optional, Max Length = 114, Max Use = 3 N1 loop end, if used

Diagram:

PER	*	PER01	366		PER02	93		PER03	365	
		CONTACT FUNCTION CODE		*	NAME		*	COMMUNICATION NUMBER QUALIFIER		*
		M ID	02/02		O AN	01/35		O ID	02/02	
		PER04	364		PER05	326				
		COMMUNICATION NUMBER		*	REQUEST REFERENCE NUMBER		N L			
		C AN	07/21		@ ID	01/45				

PER01. Contact Function Code (Data Element #366)

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(Spec: Mandatory Type = ID Min/Max = 02/02)

This data element contains a code identifying the major duty or responsibility of the person or group named. The T1-recognized codes can be found in Appendix A.

The Ameritech preferred codes for PICS/DCPR BVAPP Implementation are shown in Appendix A.

PER02. Name (Data Element #93)

(Spec: Optional Type = AN Min/Max = 01/35)

This data element is the free-form name of the person, official title, or related information.

The Name data element is RECOMMENDED.

PER03. Communication Number Qualifier (Data Element #365)

(Spec: Optional Type = ID Min/Max = 02/02)

This data element identifies the type of communication number which follows. See Note 1. The preferred T1-recognized codes for this transaction are:

CODE	DEFINITION
IT	International Telephone
PS	Packet Switching
TE	Telephone
TL	Telex
TM	Telemail
TX	TWX

A complete list of the T1-recognized codes can be found in Appendix A.

The Name data element is RECOMMENDED. The Ameritech preferred Communication Number Qualifier codes are Telephone (TE) or Telex (TL).

PER04. Communication Number (Data Element #364)

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(Spec: Conditional Type = AN Min/Max = 07/21)

This data # element contains the complete communication number including the country or area code when applicable. See Note 1.

PER05. Request Reference Number (Data Element #326)

NOT USED BY T1.

NOTE:

1. If PER03 is used PER04 is required.

Ameritech RECOMMENDS PER03 and PER04.

ITD - TERMS OF SALE/DEFERRED TERMS OF SALE

Purpose: to specify terms of sale.

Spec: Optional, Max Length = 155, Max Use = 5

Diagram:

ITD	*	ITD01	336		*	ITD02	333		*	ITD03	336		*
		TERMS TYPE				TERMS BASIS				TERMS			
		CODE				DATE CODE				DISCOUNT			
										PERCENT			
		M	ID	02/02		M	ID	01/02		C	R	01/06	
		ITD04	370		*	ITD05	351		*	ITD06	446		*
		TERMS				TERMS				TERMS NET			
		DISCOUNT				DISCOUNT				DUE DATE			
		DUE DATE				DAYS DUE							
		C	DT	06/06		C	N0	01/03		C	DT	06/06	
		ITD07	386		*	ITD08	362		*	ITD09	368		*
		TERMS NET				TERMS				TERMS			
		DAYS				DISCOUNT				DEFERRED			
						AMOUNT				DUE DATE			
		C	N0	01/03		C	N2	01/10		@	DT	06/06	
		ITD10	389		*	ITD11	342		*	ITD12	352		*
		DEFERRED				PERCENT				DESCRIPTION			
		AMOUNT DUE				INVOICE							
						PAYABLE							
		@	N2	01/10		@	R	01/05		@	AN	01/80	

The Terms of Sale/Deferred Terms of Sale segment is NOT RECOMMENDED. Ameritech prefers Trade Discounts to be incorporated into the unit price data element. See TCIF GUIDELINES for data element definitions.

DTM - DATE/TIME REFERENCE

Purpose: To specify pertinent dates and times.

Spec: Optional, Max Length = 20, Max Use = 1

Diagram:

DTM	*	DTM01	374		DTM02	373		DTM03	337	
		DATE/TIME QUALIFIER		*	DATE		*	TIME		*
		M ID 03/03			C DT 06/06			C TM 04/04		

The Date/Time Reference segment is NOT RECOMMENDED. See TCIF GUIDELINES for data element definitions.

FOB - F.O.B. RELATED INSTRUCTIONS

Purpose: To specify transportation instructions relating to shipment.

Spec: Optional, Max Length = 185, Max Use = 1

Diagram:

FOB	*	FOB01	146		FOB02	376		FOB03	352	
		SHIPMENT METHOD OF PAYMENT		*	TRANS. RESP. LOCATION QUALIFIER		*	DESCRIPTION		*
		M ID 02/02			O ID 02/02			C AN 01/80		

FOB04	334		FOB05	325		FOB06	377	
TRADE TERMS QUALIFIER		*	TRADE TERMS CODE		*	TITLE PASS. LOCATION QUALIFIER		*
O ID 02/02			C ID 03/06			O ID 02/02		

FOB07	352	
DESCRIPTION		N L
C AN 01/80		

The F.O.B. Related Instructions segment is NOT RECOMMENDED. See TCIF GUIDELINES for data element definitions.

6. INVOICE DETAIL SEGMENTS

IT1 - BASELINE ITEM DATA

Purpose: This data segment is the beginning of the line item loop, and a separate IT1 segment is required for every line item on an invoice. The information provided on the IT1 data segment is the basic and most commonly used information for an invoice transaction.

This segment identifies the line item on the invoice and gives basic price and quantity information. The dollar amount determined for the line item from the Baseline Item Data segment is prior to any charges/credits applied to the line item in the Allowance or Charge segment. The quantity, price and product ID information specified in the IT1 segment represents information from the original purchase order or the most recent previous acknowledgement of that order.

Spec: Mandatory, Max Length = 383, Max Use = 1, IT1 loop start, Max loops = 10,000

Diagram:

IT1	*	IT101	350	*	IT102	358	*	IT103	355	*
		PURCHASE ORDER LINE NUMBER			QUANTITY INVOICED			UNIT OF MEASURE CODE		
		MS	AN	01/04	M	R	01/10	M	ID	02/02
		IT104	212	*	IT105	639	*	IT106	235	*
		UNIT PRICE			BASIS OF UNIT PRICE CODE			PRODUCT ID QUALIFIER		
		M	R	01/14	O	ID	02/02	O	ID	02/02
		IT107	234	*	IT1xx	235	*	IT1yy	234	N L
		PRODUCT ID			PRODUCT ID QUALIFIER			PRODUCT ID		
		C	AN	01/30	O	ID	02/02	C	AN	01/30

IT101. Purchase Order Line Number (Data Element #350)

(Spec: Mandatory § Type = AN Min/Max = 01/04)

The Purchase Order Line Number is optional for every item on an invoice. This number should correspond to the line item number on the Purchase Order or Order Acknowledgment. Note that the maximum length of this data element is less than ANSI.

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HARDWIRED

Ameritech STRONGLY RECOMMENDS the Purchase Order Line Number (IT101) MATCH the corresponding PO101 data element on the most recent Purchase Order Acknowledgement. Ameritech also RECOMMENDS the IT101 for NON-MATERIAL items be one of those shown in Appendix 2.

PLUG-IN

Ameritech STRONGLY RECOMMENDS the Purchase Order Line Number (IT101) MATCH the corresponding PO101 data element on the most recent Purchase Order Acknowledgment or be the SAME as the line item number on the ORIGINAL PLUG-IN requisition/TEO.

REPAIR

Ameritech STRONGLY RECOMMENDS the Purchase Order Line Number (IT101) data element MATCH the billing category provided in (IT1xx=SV) Product I.D. (IT1yy).

IT102. Quantity Invoiced (Data Element #358)

(Spec: Mandatory Type = R Min/Max = 01/10)

The Quantity Invoiced is the number of units invoiced on this line item. For items such as engineering services this element may contain a zero. See Notes 2, 3 and 4.

Ameritech RECOMMENDS the the Quantity Invoiced data element NOT EXCEED eight (8) characters in length.

IT103. Unit of Measure Code (Data Element #355)

(Spec: Mandatory Type = ID Min/Max = 02/02)

The Unit of Measure Code is the basic unit of measurement for the item being invoiced. The TI-recognized codes can be found in Appendix A.

The Ameritech preferred codes for PICS/DCPR BVAPP Implementation are shown in Appendix A.

IT104. Unit Price (Data Element #212)

(Spec: Mandatory Type = R Min/Max = 01/14)

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The Unit Price is the price per unit of the product, service, commodity, etc. Being invoiced. See Notes 2 and 4.

IT105. Basis of Unit Price Code (Data Element #639)

(Spec: Optional Type = ID Min/Max = 02/02)

This code defines the type of price indicated for an item. The Basis of Unit Price Code represents a factor applied to the product of quantity and unit price to determine the cost of an item being ordered, as shown in the formula and example below:

Formula: Extended value of item invoiced =

$$\frac{\text{Quantity Invoiced (IT102)} \times \text{Unit Price (IT104)}}{\text{Basis of Unit Price (IT105)}}$$

Example 1 – Assume IT102 = 10, IT104 = \$1.00, IT105 = TE (Price/Each)

$$\frac{10 \times \$1.00}{1} = \$10.00$$

Example 2 – Assume IT102 = 10, IT104 = \$1.00, IT105 = TC (Price/Hundred)

$$\frac{10 \times \$1.00}{100} = \$.10$$

See Notes 2, 3 and 4.

The TI-recognized codes can be found in Appendix A.

Ameritech STRONGLY RECOMMENDS the Basis of Unit Price Code data element. The Ameritech preferred codes for PICS/DCPR BVAPP Implementation are shown in Appendix A.

IT106. Product I.D. Qualifier (Data Element #235)

(Spec: Optional Type = ID Min/Max = 02/02)

This qualifier identifies the type of source of the descriptive information being provided in the Product I.D. data element. See Note 1.

“CI” - CLEI(TM) (COMMON LANGUAGE is a registered trademark and CLEI is a trademark of Bell Communications Research, Inc.) (COMMON LANGUAGE Equipment Identifier) is an alphanumeric code describing a unique equipment item (10 characters) or a group of related equipment items (7 characters). The Language Standards Division of Bell Communications Research, Inc. controls the assignment of these codes. CI is an approved ANSI code and will be published in the next release.

HARDWIRED

Ameritech STRONGLY RECOMMENDS the CLEI™ Product I.D. Qualifier/Product I.D. pair MATCH the corresponding P01XX/P01yy pair, if provided, on the most recent Purchase Order Acknowledgement.

PLUG-IN

Ameritech STRONGLY RECOMMENDS the CLEI™ Product I.D. Qualifier/Product I.D. pair MATCH the corresponding P01xx/P01yy pair, if provided, on the most recent Purchase Order Acknowledgment. If a POA was not provided, then Ameritech STRONGLY RECOMMENDS this pair be provided for ALL ITEMS on a PLUG-IN requisition/TEO.

REPAIR

Ameritech RECOMMENDS the CLEI™ Product I.D. Qualifier/Product I.D. pair be provided for ALL ITEMS on a REPAIR RSO.

“CR” - Contract Number is an alphanumeric code that specifies the purchase agreement between the trading partners.

Ameritech does NOT RECOMMEND the Contract Number Product I.D. Qualifier/Product I.D. pair.

“CT” - Continuation of the part number, used when the pair number exceeds 30 characters.

Ameritech does NOT RECOMMEND the Continuation of the Part Number Product I.D. Qualifier/Product I.D. pair.

“IN” - Buyer's Item Number is the Customer's Standard Supply Item Number used in the Internal system.

Ameritech does NOT RECOMMEND the Buyer's Item Number Product I.D. Qualifier/Product I.D. pair.

"MF" - Manufacturer is an alphanumeric code that specifies the manufacturer of the equipment.

Ameritech STRONGLY RECOMMENDS the Manufacturer Product I.D. Qualifier/Product I.D. pair be provided for ALL ITEMS. Ameritech also STRONGLY RECOMMENDS that this pair MATCH the corresponding PO1xx/PO01yy pair on the most recent Purchase Order Acknowledgment, if provided.

"PN" - Company Part Number is an alphanumeric code which qualifies the basic unit to uniquely identify a specific piece of the vendor's equipment.

HARDWIRED

Ameritech STRONGLY RECOMMENDS the Company Part Number Product I.D. Qualifier/Product I.D. pair MATCH the corresponding PO1xx/POyy pair, if provided, on the most recent Purchase Order Acknowledgment.

PLUG-IN & REPAIR

Ameritech does NOT RECOMMEND the Company Part Number Product I.D. Qualifier/Product I.D. pair be provided for items on a PLUG-IN requisition/TEO or REPAIR RSO. If the Company Part Number Product I.D. Qualifier/Product I.D. pair is provided, Ameritech STRONGLY RECOMMENDS the Company Part Number Product I.D. be the part number that is assigned and maintained by the Language Standards Division of Bell Communications Research, Inc.

"RD" - Reel Number to be specified by the customer when ordering cable. A customer reel number can be provided and used or the vendor can assign a number so that the trading partners can maintain inventories and audit the return of non-billable reels to be vendor.

Ameritech does NOT RECOMMEND the Reel Number Product I.D. Qualifier/Product I.D. pair.

"SV" - Services Rendered specifies a non-material charge such as Engineering or Installation as identified on the purchase order and purchase order acknowledgment.

Ameritech STRONGLY RECOMMENDS the Service Rendered Product I.D. Qualifier/Product I.D. pair be provided on ALL Baseline Item Data segments. The Ameritech-recognized billing category codes for the Services Rendered Product I.D. are shown in Appendix 3.

“UP” - Universal Product Code (UPC) (Full 11-digit number) is a common code used by the vendor and the customer to eliminate the necessity for descriptions. The codes are administered by:

Uniform Product Council

7051 Corporate Way

Dayton, Ohio 45459

Ameritech does NOT RECOMMEND the Universal Product Code (UPC) Product I.D. Qualifier/Product I.D. pair.

“VN” - Vendor’s Item Number is an alphanumeric code that the vendor uses to identify the material ordered. This is the number that appears in the vendor’s catalog.

HARDWIRED

Ameritech STRONGLY RECOMMENDS the Vendor’s Item Number Product I.D. Quality/Product I.D. pair MATCH the corresponding PO1xx/PO1yy pair, if provided, on the most recent Purchase Order Acknowledgment. Ameritech also RECOMMENDS the Vendor’s Item Number Product I.D. Qualifier/Product I.D. pair be provided, with the Product I.D. containing a description, when the Baseline Item Data is for non-material services, e.g. engineering or labor.

PLUG-IN & REPAIR

Ameritech does NOT RECOMMEND the Vendor’s Item Number Product I.D. Qualifier/Product I.D. pair be provided for items on a PLUG-IN requisition/TEO or a REPAIR RSO.

“VO” - Vendor Order Number is a number assigned by the vendor to all or part of a customer order. The use of the vendor order number is at the vendor’s discretion, as long as the use is consistent for same items on the order acknowledgment and invoices.

HARDWIRED

Ameritech STRONGLY RECOMMENDS the Vendor Order Number Product I.D. Qualifier/Product I.D. pair MATCH the corresponding Seller's Order Number (BAK09), if provided, on the most recent Purchase Order Acknowledgment.

PLUG-IN & REPAIR

Ameritech does NOT RECOMMEND the Vendor Order Number Product I.D. Qualifier/Product I.D. pair be provided for items on a PLUG-IN requisition/TEO or REPAIR RSO.

"VS" - Vendor's Supplemental Item Number is an alphanumeric point item number used to subdivide a grouping of related pieces of equipment into separately orderable entities. It is also used for substitution items.

HARDWIRED

Ameritech STRONGLY RECOMMENDS the Vendor's Supplement Item Number Product I.D. Qualifier/Product I.D. pair MATCH the corresponding Subline Number (SLN01), if provided, on the most recent purchase Order Acknowledgment.

PLUG-IN & REPAIR

Ameritech does NOT RECOMMEND the Vendor's Supplemental Item Number Product I.D. Qualifier/Product I.D. pair be provided for items on a PLUG-IN requisition/TEO or REPAIR RSO.

"VU" - Vendor's Basic Unit Number is an alphanumeric code which defines a family of related items of equipment.

HARDWIRED

Ameritech STRONGLY RECOMMENDS the Vendor's Basic Unit Number Product I.D. Qualifier/Product I.D. pair MATCH the corresponding PO1xx/PO1yy pair, if provided, on the most recent Purchase Order Acknowledgment.

PLUG-IN & REPAIR

Ameritech does NOT RECOMMEND the Vendor's Basic Unit Number Product I.D. Qualifier/Product I.D. pair be provided for items on a PLUG-IN requisition/TEO or REPAIR RSO. If the Vendor's Basic Unit Number Product I.D. Qualifier/Product I.D. pair is provided, Ameritech STRONGLY RECOMMENDS the Vendor's Basic Unit Number Product I.D. be the part number that is assigned and maintained by the Language Standards Division of Bell Communications Research, Inc.

"VX" - Vendor Specification Number is a number assigned by the customer engineer or the vendor engineer, depending on who engineered the order, to all or part of the order. An engineer will usually use this data element to subdivide an order. The use of the vendor specification number is at the vendor's discretion for vendor engineered jobs, as long as the use is consistent for the same items on all related transaction sets.

HARDWIRED

Ameritech STRONGLY RECOMMENDS the Vendor Specification Number Product I.D. Qualifier/Product I.D. pair MATCH the corresponding PO1xx/PO1yy pair, if provided, on the most recent Purchase Order Acknowledgment.

PLUG-IN & REPAIR

Ameritech does NOT RECOMMEND the Vendor Specification Number Product I.D. Qualifier/Product I.D. pair be provided for items on a PLUG-IN requisition/TEO or REPAIR RSO.

IT107. Product I.D. (Data Element #234)

(Spec: Conditional, Type = AN, Min/Max = 01/30)

This data element identifies the number for a product or service. See Note 1.

Ameritech STRONGLY RECOMMENDS the maximum lengths of the Product I.D.s be limited as follows:

PRODUCT I.D. QUALIFIER (IT1xx)	MAX LENGTH OF PRODUCT I.D. (IT1yy)
CI	10
MF	4
PN	30
SV	4
VN	30
VO	8
VS	4
VU	11
VX	7

NOTES

1. The Product I.D. Qualifier (IT106)/Product I.D. (IT107) combination can occur a total of ten times. All notes and conditions applicable to IT106 and IT107 apply. If IT106 is used IT107 is required.

HARDWIRED
Ameritech STRONGLY RECOMMENDS the following pairs of IT1xx/IT1yy be provided for items on a HARDWIRED requisition/TEO:

SV, VO, VS, VX, MF, VU, PN	(coded hardwired items)
SV, VO, VS, VX, MF, CI	(CLEI(TM) plug-in items)
SV, VO, VS, VX, MF, VN	(non-coded minor/expense items)
SV, VO, VS, VX, MF, VN	(non-material items)

PLUG-IN & REPAIR
Ameritech STRONGLY RECOMMENDS the following pairs of IT1xx/IT1yy be provided for items on a PLUG-IN requisition/TEO:

SV, MF, CI	(CLEI(TM) plug-in items)
------------	--------------------------

2. If quantity is not applicable, as may be the case for some services, Quantity invoiced (IT102) must contain a zero and Unit Price (IT104) will contain the total price. Since Unit Price (IT104) contains the total price, the formula shown in Basis of Unit Price Code (IT105) for calculation of the extended amount is not appropriate.
3. If Quantity invoiced (IT102) is other than zero, Basis of Unit Price Code (IT105) is required.

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4. Credits can be specified for either the line item or the invoice, depending upon the conditions of the credit and the agreements of the trading partners. Some of the most recognizable credit conditions involve: return of material; adjustments or refunds for invoices or items on invoices paid in error; modification to equipment involving removal of equipment parts; and settlements of lost or damaged material claims.

The following are examples of the credit conditions and how they should appear in an Invoice Transaction Set 810.

- A. Return of Material - Assumptions: 2 units at \$100.00 each were ordered and paid for; only 1 unit was needed on the job; the extra unit was shipped back. A credit invoice with a negative quantity on the IT1 segment should be used for this condition as shown in the example.

Example:

Item#	Basic Unit	Part#	Quantity	Unit Price	Amount
1	Pack Ckt	481	-1	100.00	-100.00

IT1*1*-1*EA*100.00*TE*VU*PACK CKT*PN*481 N/L

Ameritech STRONGLY RECOMMENDS this method of crediting be used for all Return of Material, Adjustment or Refunds. Crediting Adjustments or Refunds by this method would require a transaction set for the credit of the total amount followed by another transaction set to re-invoice the adjusted amount. See insert example under "b".

- B. Adjustment or Refunds for items and/or invoices paid in error - Assumptions: 2 units at \$100.00 each were ordered: an invoice for 2 units at \$110.00 each (\$220.00 total invoice) was paid; the overpayment of \$20.00 must be adjusted. A credit invoice with the \$20.00 adjustment in

the ITA (Allowance or Charge Segment) would be used for this as shown in the example.

Example:

Item#	Basic Unit	Part#	Quantity	Unit Price	Amount
1	Pack Ckt	481	0	0.00	20.00

IT1*1*0*EA*0*TE*VU*PACK CKT*PN*481 N/L

ITA*A*TI*AJ*02***2000***ADJUSTMENT OF INVOICE #12345 N/L

Note: This method of crediting can also be used to refund invoices paid in error, or settlements for lost material or damaged material claims.

Ameritech STRONGLY RECOMMENDS method 'a' of crediting be used for all Adjustment or Refunds. Crediting Adjustments or Refunds by this method would require a transaction set for the credit of the total amount followed by another transaction set to re-invoice the adjusted amount.

Example:

Credit Invoice

Item#	Basic Unit	Part#	Quantity	Unit Price	Amount
1	Pack Ckt	481	-2	110.00	-220.00

ST

..

IT1*1*-2*EA*110.00*TE*VU*PACK CKT*PN*481 N/L

..

SE

Debit Invoice

Item#	Basic Unit	Part#	Quantity	Unit Price	Amount
1	Pack Ckt	481	2	110.00	220.00

ST

..

IT1*1*2*EA*100.00*TE*VU*PACK CKT*PN*481 N/L

..

SE

Ameritech does NOT RECOMMEND the 'example b' method of crediting be used to refund invoices paid in error, or settlements for lost material or damaged material claims.

- C. Purchase of Equipment - Assumptions: a piece of equipment is ordered that requires modifications involving an addition, a removal, and an inclusion of equipment parts. The equipment modifications should be shown

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on an invoice as Subline Item Detail (SLN) segments being added to, deleted from, or included in the baseline item configuration as shown in the example. Subline items 1.A (addition), 1.B (removal), and 1.C (included) are shown as modifications to the baseline line item 1.

Example:

Item#	Subline Item#	Basic Unit	Part#	Unit Quantity	Price
1	1A, 1B, 1C	J123456	L-1,L-A,L-B,L-C	1	150.00

IT1*1*1*EA*150.00*TE*VU*J123456*PN*L-1 N/L

SLN*A**A*1*EA*60*TE*A*VU*J123456*PN*L-A N/L

SLN*B**D*1*EA*10*TE*D*VU*J123456*PN*L-B N/L

SLN*C**I*1*EA*0*TE*I*VU*J123456*PN*L-C N/L

Ameritech does NOT RECOMMEND the use of SLN segments. The TCIF example can be accomplished by using IT1 segments.

Example:

Item#	Subline Item#	Basic Unit	Part#	Unit Quantity	Price
1	1A, 1B, 1C	J123456	L-1,L-A,L-B,L-C	1	150.00

IT1*1*EA*150.00*TE*VU*J123456*PN*L-1 N/L

IT1*1*1*EA*60.00*TE*VS*A*VU*J123456*PN*L-A N/L

IT1*1*-1*EA*10.00*TE*VS*B*VU*J123456*PN*L-B N/L

IT1*1*1*EA*0.00*TE*VS*C*VU*J123456*PN*L-C N/L

SLN - SUBLINE ITEM DETAIL

Purpose: The SLN segment is an optional segment used to specify product information below the detail item level for baseline items on the IT1 data segment.

Spec: Optional, Max Length = 390, Max Use = 1000 §, Within the IT1 loop

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Diagram:

SLN	SLN01	659	*	SLN02	660	*	SLN03	661	*
	SUBLINE NUMBER			SUBLINE LEVEL			CONFIGURATION CODE		
	M AN	01/06		@ AN	01/02		M ID	01/01	
	SLN04	380	*	SLN05	355	*	SLN06	212	*
	QUANTITY			UNIT OF MEASURE CODE			UNIT PRICE		
	M R	01/10		M ID	02/02		M R	01/14	
	SLN07	639	*	SLN08	662	*	SLN09	235	*
	BASIS OF UNIT PRICE CODE			SUBLINE PRICE CHANGE ID			PRODUCT ID QUALIFIER		
	O ID	02/02		M id	01/01		O ID	02/02	
	SLN10	234	*	SLNxx	235	*	SLNyy	234	N L
	PRODUCT ID			PRODUCT ID QUALIFIER			PRODUCT ID		
	C AN	01/30		O ID	02/02		C AN	01/30	

The Subline Item Detail Segment is NOT RECOMMENDED. See TCIF GUIDELINES for data element definitions.

J2X - ITEM DESCRIPTION

Purpose: To describe an item in either an industry standard or a free-form format.

Spec: Optional, Max Length = 90, Max Use = 1,000, Within the IT1 loop

Diagram:

J2X	*	J2X01	348	*	J2X02	3493	*	J2X03	372	N L
		ITEM DESCRIPTION QUALIFIER			ITEM DESCRIPTION TYPE			ITEM DESCRIPTION		
		M ID	02/02		M ID	01/01		M AN	01/80	

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The Item Description segment if NOT RECOMMENDED. See TCIF GUIDELINES for data element definitions.

ITA - ALLOWANCE OR CHARGE

Purpose: To specify allowances or charges related to a line item.

HARDWIRED & PLUG-IN

Ameritech RECOMMENDS item level ITA segments only for the Ameritech preferred Special Service Codes shown in ITA03.

REPAIR

Ameritech does NOT RECOMMEND item level ITA segments for REPAIR RSOs.

Spec: Optional, Max Length = 175, Max Use = 10, Within IT1 loop.

Diagram:

ITA	ITA01	248	*	ITA02	559	*	ITA03	560	*
	ALLOWANCE OR CHARGE INDICATOR			AGENCY QUALIFIER CODE			SPECIAL SERVICES CODE		
	M	ID	01/01	M	ID	02/02	C	ID	02/10
	ITA04	331	*	ITA05	341	*	ITA06	359	*
	ALLOWANCE OR CHARGE METHOD OF HANDLING			ALLOWANCE OR CHARGE NUMBER			ALLOWANCE OR CHARGE RATE PER UNIT		
	M	ID	02/02	O	AN	01/16	C	R	01/09
	ITA07	360	*	ITA08	378	*	ITA09	332	*
	ALLOWANCE OR CHARGE TOTAL AMOUNT			ALLOWANCE OR CHARGE % QUALIFIER			ALLOWANCE OR CHARGE PERCENT		
	C	N2	01/09	O	ID	01/01	C	R	01/06
	ITA10	339	*	ITA11	355	*	ITA12	379	*
	ALLOWANCE OR CHARGE QUANTITY			UNIT OF MEASURE CODE			FREE GOODS QUANTITY		
	@	R	01/10	@	ID	02/02	@	R	01/10
	ITA13	352							
	DESCRIPTION		N						
	C	AN	01/80						
									L

ITA01. Allowance or Charge Indicator (Data Element #248)

(Spec: Mandatory, Type = ID, Min/Max = 01/01)

The Allowance or Charge Indicator is a one-position indicator specifying whether the allowance or charge data segment is an allowance or charge against the line item. The preferred TR-recognized codes for this transaction are:

CODE	DEFINITION
A	Allowance
C	Charge

A complete list of the TI-recognized codes can be found in Appendix A.

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The Ameritech preferred Allowance or Charge Indicator is Charge (C).

ITA02. Agency Qualifier Code (Data Element #559)

(Spec: Mandatory, Type = ID, Min/Max = 02/02)

An Agency Qualifier Code is a code identifying the agency assigning the code values used in ITA03. See Note 1. The only T1-recognized value is 'TI' (Telecommunications Industry).

ITA03. Special Services Code (Data Element #560)

(Spec: Conditional, Type = ID, Min/Max = 02/10)

The Special Services Code identifies special services being performed. See Note 1. The TI-recognized codes can be found in Appendix A.

The Ameritech preferred Special Services Codes for item level ITA segments are:

CODE	HARDWIRED	PLUG-IN
HS	X	
SE	X	
TB	X	X
TT	X	X
TV	X	X
WH	X	

ITA04. Allowance or Charge Method of Handling (Data Element #331)

(Spec: Mandatory, Type = ID, Min/Max = 02/02)

Allowance or Charge Method of Handling specifies how the allowance or charge on the line item should be handled. The preferred TI-recognized codes for this transaction are:

CODE	DEFINITION
04	Credit Customer Account
06	Charge to be paid by Customer

A complete list of the TI-recognized codes can be found in Appendix A.

The Ameritech preferred Allowance or Charge Method of Handling is Charge to be paid by Customer (06).

ITA05. Allowance or Charge Number (Data Element #341)

(Spec: Optional, Type = AN, Min/Max = 01/16)

Allowance or Charge Number is used to specify a tax jurisdiction if the Special Services code (ITA03) was for tax. The valid codes for tax jurisdiction are available from the customer.

The Allowance or Charge Number is NOT RECOMMENDED.

ITA06. Allowance or Charge Rate Per Unit (Data Element #359)

(Spec: Conditional Type = R, Min/Max = 01/09)

The Allowance or Charge Rate Per Unit specifies the rate of the allowance or charge for the line item. See Note 2. The quantity on IT102 will be multiplied by the rate per unit to determine the allowance or charge.

The Allowance or Charge Rate Per Unit is NOT RECOMMENDED.

ITA07. Allowance or Charge Total Amount (Data Element #360)

(Spec: Conditional, Type = N2, Min/Max = 01/09)

Allowance or Charge Total Amount is the dollar total of the allowance or charge for the line item. See Note 2.

Ameritech STRONGLY RECOMMENDS the Allowance or Charge Total Amount data element.

ITA08. Allowance or Charge Percent Qualifier (Data Element #378)

(Spec: Optional, Type = ID, Min/Max = 01/01)

Allowance or Charge Percent Qualifier is used if a percent is supplied in the Allowance or Charge Percent (ITA09) data element. See Notes 2 and 3. The preferred TI-recognized codes for this transaction set are:

CODE	DEFINITION
1	Item List Cost
2	Item Net Cost

A complete list of the TI-recognized codes can be found in Appendix A.

The Allowance or Charge Percent Qualifier is NOT RECOMMENDED.

ITA09. Allowance or Charge Percent (Data Element #332)

(Spec: Conditional Type = R, Min/Max = 01/06)

Allowance or Charge Percent is the allowance or charge expressed as a percent for the special service performed for the line item. See Note 3.

The Allowance or Charge Percent is NOT RECOMMENDED.

ITA10. Allowance or Charge Quantity, (Data Element #339)

NOT USED BY TI.

ITA11. Unit of Measure Code (Data Element #355)

NOT USED BY TI.

ITA12. Free Goods Quantity (Data Element #379)

NOT USED BY TI.

ITA13. Description (Data Element #352)

(Spec: Conditional Type = AN, Min/Max = 01/80)

This is a semi-structured description with the first five positions being reserved for use when the Special Services Code (ITA03) is "ST" and taxes are being applied to a Special Services Charge Amount (ITA07) from a previous data segment. The final 75 characters of this data element consist of a free-form description of the allowance or charge of a special service performed for the line item. See Note 1.

The Description is NOT RECOMMENDED.

NOTES:

1. Since ITA02 is required, either ITA03 or ITA13 is required.

Ameritech RECOMMENDS ITA03.

2. Either ITA06 or ITA07 is required.

Ameritech RECOMMENDS ITA07.

3. If ITA08 is used, ITA09 is required.

ITA08 and ITA09 are NOT RECOMMENDED.

N1 - NAME

Purpose: To identify a party by the type of organization, name, or code. If the Name (N102) is used in this segment, the N3 and N4 segments are required.

Spec: Optional, Max Length = 63, Max Use = 1, N1 Loopstart, Max Loops = 5 Within IT1 Loop

Diagram:

N1	*	N101 ORGANIZATION IDENTIFIER	98	*	N102 NAME	93	*	N103 ID CODE QUALIFIER	66	*
		M ID 02/02			C AN 01/35			C ID 01/02		
		N104 67								
		ID CODE								N
		C AN 02/17								L

The Name segment is NOT RECOMMENDED. See TCIF GUIDELINES for data element definitions.

N3 - STREET ADDRESS

Purpose: To specify the street, building, or other address information. This segment should be used if the Name (N102) was specified in the N1 segment.

Spec: Optional, Max Length = 75, Max Use = 2 within the N1 loop Within IT1 Loop

Diagram:

N3	*	N301	166	*	N302	166	N L
		STREET ADDRESS			STREET ADDRESS		
		M	AN 01/35		O	AN 01/35	

The Street Address segment is NOT RECOMMENDED. See TCIF GUIDELINES for data element definitions.

N4 - CITY/STATE

Purpose: To specify the geographic location of the named party. This segment is required if the Name (N102) was specified in the N1 segment.

Spec: Optional, Max Length = 68, Max Use = 1 within the N1 loop Within IT1 Loop

Diagram:

N4	*	N401	19		N402	156		N403	116	
		CITY NAME		*	STATE/PROV CODE		*	POSTAL CODE		*
		M AN	02/19		C ID	02/02		O ID	05/09	
		N404	26		N405	309		N406	310	
		COUNTRY CODE		*	LOCATION QUALIFIER		*	LOCATION IDENTIFIER		N L
		O ID	02/02		@ ID	02/02		@ AN	01/25	

The City/State segment is NOT RECOMMENDED. See TCIF GUIDELINES for data element definitions.

PER - ADMINISTRATIVE COMMUNICATION CONTACT

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

Spec: Optional, Max Length = 114, Max Use = 3 N1 loop end, if used; IT1 Loop end.

Diagram:

PER	*	PER01	366		PER02	93		PER03	365	
		CONTACT FUNCTION CODE		*	NAME		*	COMMUNICATION NUMBER QUALIFIER		*
		M ID	02/02		O AN	01/35		O ID	02/02	
		PER04	364		PER05	326				
		COMMUNICATION NUMBER		*	REQUEST REFERENCE NUMBER		N L			
		C AN	07/21		@ ID	01/45				

The Administrative Communication Contact segment is NOT RECOMMENDED. See TCIF GUIDELINES for data element definitions.

7. INVOICE SUMMARY SEGMENTS

TDS - TOTAL MONETARY VALUE SUMMARY

Purpose: To specify the total invoice discounts and amounts.

Spec: Mandatory, Max Length = 48, Max Use = 1

Diagram:

TDS	*	TDS01 TOTAL INVOICE AMOUNT	361	*	TDS02 AMT SUBJECT TO TERMS DISCOUNT	390	*	TDS03 DISCOUNT AMOUNT	391	*
		M N2 01/10			C N2 01/10			O N2 01/10		

TDS04 TERMS DISCOUNT AMOUNT	362	N L
O N2 01/10		

TDS01. Total Invoice Amount (Data Element #361)

(Spec: Mandatory, Type = N2, Min/Max = 01/10)

Total Invoice Amount is the amount of invoice (including detail and summary charges, less detail and summary allowances) before terms discount is taken.

TDS02. Amount Subject to Discount (Data Element #390)

(Spec: Conditional, Type = N2, Min/Max = 01/10)

Amount Subject to Discount is the amount upon which the terms discount percent (ITD03) is applied. This field is required if the amount subject to discount is not equal to the Total Invoice Amount (TDS01).

The Amount Subject to Discount is NOT RECOMMENDED.

TDS03. Discounted Amount Due (Data Element #391)

(Spec: Conditional, Type = N2, Min/Max = 01/10)

Discounted Amount Due to the amount of invoice due if paid by the Terms Discount Due Date (ITD04).

The Discounted Amount Due is NOT RECOMMENDED.

TDS04. Terms Discount Amount (Data Element #362)

(Spec: Conditional, Type = N2, Min/Max = 01/10)

This data element contains the total amount of the terms discount.

The Terms Discount Amount is NOT RECOMMENDED.

CAD - CARRIER DETAIL

Purpose: To specify transportation details for the invoice.

Spec: Optional, Max Length = 98, Max Use = 1

The Carrier Detail segment is RECOMMENDED.

Diagram:

CAD	*	CAD01	91	*	CAD02	206	*	CAD03	207	*
		MODE			EQUIPMENT INITIAL			EQUIPMENT NUMBER		
		O ID	01/02		@ AN	01/04		@ AN	01/07	
		CAD04	140	*	CAD05	387	*	CAD06	368	*
		SCAC			ROUTING (ORIGINAL CARRIER)			SHIP / ORDER STATUS CODE		
		C ID	02/04		C AN	01/35		@ ID	02/02	
		CAD07	128	*	CAD08	127				
		REFERENCE NUMBER QUALIFIER			REFERENCE NUMBER					N L
		O ID	02/02		O AN	01/30				

CAD01. Mode (Data Element #91)

(Spec: Optional, Type = ID, Min/Max = 01/02)

Mode specifies the mode of transportation for the shipment. The TI-recognized codes can be found in Appendix A.

Ameritech RECOMMENDS the Mode. The Ameritech preferred codes for PICS/DCPR BVAPP Implementation are shown in Appendix A.

CAD02. Equipment Initial (Data Element #206)

NOT USED BY TI.

CAD03. Equipment Number (Data Element #207)

NOT USED BY TI.

CAD04. SCAC (Data Element #140)

(Spec: Conditional Type = ID, Min/Max = 02/04)

SCAC (Standard Carrier Alpha Code) is a unique two- to rout-position code for use as an abbreviation or to identify a particular carrier for purposes of processing transportation data. See Note 1. The TI-recognized codes can be obtained from:

National Motor Freight Traffic Association, Inc., 1616 P Street, N.W., Washington, DC 20036

The SCAC is NOT RECOMMENDED.

CAD05. Routing (Original Carrier) (Data Element #387)

(Spec: Conditional, Type = AN, Min/Max = 01/35)

Routing (Original Carrier) is the free-form description of the routing or requested routing for shipment, or the originating carrier's name or code. See Note 1.

Ameritech RECOMMENDS the originating carrier's name or code.

CAD06. Ship/Order Status Code (Data Element #368)

NOT USED BY TI.

CAD07. Reference Number Qualifier (Data Element #128)

(Spec: Optional, Type = ID, Min/Max = 02/02)

Reference Number Qualifier is a code qualifying the Reference Number (CAD08). See Note 2. The TI-recognized codes can be found in Appendix A.

The Reference Number Qualifier is NOT RECOMMENDED.

CAD08. Reference Number (Data Element #127)

(Spec: Optional, Type = AN, Min/Max = 01/30)

Reference Number is a number or identification code as qualified by the Reference Number Qualifier (CAD07). See Note 2.

The Reference Number is NOT RECOMMENDED.

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1. Either CAD04 or CAD05 is required.

Ameritech RECOMMENDS CAD05.

2. If CAD07 is used, CAD08 is required.

CAD07 and CAD08 is NOT RECOMMENDED.

ITA - ALLOWANCE OR CHARGE

Purpose: To specify allowances or charges related to the entire invoice.

Ameritech RECOMMENDS Invoice level ITA segments, by PICS/DCPR subsystem, for the Ameritech preferred Special Service Codes shown in ITA03.

Spec: Optional, Max Length = 175, Max Use = 10

Diagram:

ITA	ITA01	248	*	ITA02	559	*	ITA03	560	*
	ALLOWANCE OR CHARGE INDICATOR			AGENCY QUALIFIER CODE			SPECIAL SERVICES CODE		
	M ID 01/01			M ID 02/02			C ID 02/10		
	ITA04	331	*	ITA05	341	*	ITA06	359	*
	ALLOWANCE OR CHARGE METHOD OF HANDLING			ALLOWANCE OR CHARGE NUMBER			ALLOWANCE OR CHARGE RATE PER UNIT		
	M ID 02/02			O AN 01/16			@ R 01/09		
	ITA07	360	*	ITA08	378	*	ITA09	332	*
	ALLOWANCE OR CHARGE TOTAL AMOUNT			ALLOWANCE OR CHARGE % QUALIFIER			ALLOWANCE OR CHARGE PERCENT		
	C N2 01/09			O ID 01/01			C R 01/06		
	ITA10	339	*	ITA11	355	*	ITA12	379	*
	ALLOWANCE OR CHARGE QUANTITY			UNIT OF MEASURE CODE			FREE GOODS QUANTITY		
	@ R 01/10			@ ID 02/02			@ R 01/10		
	ITA13	352							
	DESCRIPTION		N						
	C AN 01/80		L						

ITA01. Allowance or Charge Indicator (Data Element #248)

(Spec: Mandatory, Type = ID, Min/Max = 01/01)

The Allowance or Charge Indicator is a one-position indicator specifying whether the allowance or charge data segment is an allowance or charge against the entire invoice. The preferred TR-recognized codes for this transaction are:

CODE	DEFINITION
A	Allowance
C	Charge

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A complete list of the TI-recognized codes can be found in Appendix A.

The Ameritech preferred Allowance or Charge Indicator is Charge (C).

ITA02. Agency Qualifier Code (Data Element #559)

(Spec: Mandatory, Type = ID, Min/Max = 02/02)

An Agency Qualifier Code is a code identifying the agency assigning the code values used in ITA03. See Note 1. The only T1-recognized value is 'TI' (Telecommunications Industry).

ITA03. Special Services Code (Data Element #560)

(Spec: Conditional, Type = ID, Min/Max = 02/10)

The Special Services Code identifies special services being performed. See Note 1. The TI-recognized codes can be found in Appendix A.

The Ameritech preferred Special Services Codes for invoice level ITA segments are:

CODE	HARDWIRED	PLUG-IN	REPAIR	
EC	X			
I0012	X			
SA	X			
ST	X	X	X	(ILLINOIS BELL ONLY)

ITA04. Allowance or Charge Method of Handling (Data Element #331)

(Spec: Mandatory, Type = ID, Min/Max = 02/02)

Allowance or Charge Method of Handling specifies how the allowance or charge on the invoice should be handled. The preferred TI-recognized codes for this transaction are:

CODE	DEFINITION
04	Credit Customer Account
06	Charge to be paid by Customer

A complete list of the TI-recognized codes can be found in Appendix A.

The Ameritech preferred Allowance or Charge Method of Handling is Charge to be paid by Customer (06).

ITA05. Allowance or Charge Number (Data Element #341)

(Spec: Optional, Type = AN, Min/Max = 01/16)

Allowance or Charge Number is used to specify a tax jurisdiction if the Special Services code (ITA03) was for tax. The valid codes for tax jurisdiction are available from the customer.

The Allowance or Charge Number is **STRONGLY RECOMMENDED** for ILLINOIS BELL invoices when ITA03 is "ST" and the taxes are associated with the IT1 segments. The Allowance or Charge Number shall be the TAX JURISDICTION negotiated between the Illinois Bell BVAPP coordinator (see Appendix 1) and the Seller. The TAX JURISDICTION shall not exceed 5 characters in length. One ITA segment is strongly recommended for each tax jurisdiction applicable to the IT1 segments.

ITA06. Allowance or Charge Rate Per Unit (Data Element #359)

NOT USED BY TI.

ITA07. Allowance or Charge Total Amount (Data Element #360)

(Spec: Conditional, Type = N2, Min/Max = 01/09)

Allowance or Charge Total Amount is the dollar total of the allowance or charge for the entire invoice. See Note 2.

Ameritech **STRONGLY RECOMMENDS** the Allowance or Charge Total Amount data element.

ITA08. Allowance or Charge Percent Qualifier (Data Element #378)

(Spec: Optional, Type = ID, Min/Max = 01/01)

Allowance or Charge Percent Qualifier is a code indicating on what basis the allowance or charge Percent (ITA09) is calculated. See Notes 2 and 3. The preferred TI-recognized codes for this transaction set are:

CODE	DEFINITION
1	Item List Cost
2	Item Net Cost

A complete list of the TI-recognized codes can be found in Appendix A.

The Allowance or Charge Percent Qualifier is NOT RECOMMENDED.

ITA09. Allowance or Charge Percent (Data Element #332)

(Spec: Conditional Type = R, Min/Max = 01/06)

Allowance or Charge Percent is the allowance or charge expressed as a percent for the invoice based on the Allowance or Charge Percent Qualifier (ITA08). See Note 3.

The Allowance or Charge Percent is NOT RECOMMENDED.

ITA10. Allowance or Charge Quantity, (Data Element #339)

NOT USED BY TI.

ITA11. Unit of Measure Code (Data Element #355)

NOT USED BY TI.

ITA12. Free Goods Quantity (Data Element #379)

NOT USED BY TI.

ITA13. Description (Data Element #352)

(Spec: Conditional Type = AN, Min/Max = 01/80)

This data element is a semi-structured description with the first five positions being reserved for use when the Special Services Code (ITA03) is "ST" and taxes are being applied to a Special Services Charge Amount (ITA07) from a previous data segment. The final 75 characters of this data element consist of a free-form description of the allowance or charge of a special service performed for the invoice. See Note 1.

The Description is STRONGLY RECOMMENDED for ILLINOIS BELL invoices when the taxes are associated with a previous ITA segment. The first five positions shall be the TAX JURISDICTION negotiated between the Illinois Bell BVAPP coordinator (see Apendix 1) and the Seller. The TAX JURISDICTION shall not exceed 5 characters in length. One ITA segment is strongly recommended for each tax jurisdiction applicable to the previous ITA segment.

NOTES:

1. Since ITA02 is required, either ITA03 or ITA13 is required.

Ameritech RECOMMENDS ITA03, ITA13 is only recommended for Illinois Bell invoices and the tax is associated with a previous ITA segment.

2. Either ITA06 or ITA07 or ITA08 is required.

Ameritech RECOMMENDS ITA07.

3. If ITA08 is used, ITA09 is required.

ITA08 and ITA09 are NOT RECOMMENDED.

ISS - INVOICE SHIPMENT SUMMARY

Purpose: To specify details of total quantity shipped for invoices

Spec: Optional, Max Length = 42, Max Use = 1

The Invoice Shipment Summary segment is MANDATORY for all REPAIR invoices. The ISS segment MUST NOT be provided on PLUG-IN or HARDWIRED Invoices. PICS/DCPR BVAPP will reject any REPAIR invoices received without an ISS segment. PICS/DCPR BVAPP will also reject any PLUG-IN or HARDWIRED invoices received with an ISS segment.

Diagram:

ISS	*	ISS01	382	*	ISS02	355	*	ISS03	81	*
		UNITS SHIPPED			UNIT OF MEASURE CODE			WEIGHT		
		M R 01/10			M ID 02/02			@ R 01/08		
		ISS04	255	*	ISS05	183	*	ISS06	355	N L
		UNIT OF MEASURE			VOLUME			UNIT OF MEASURE CODE		
		@ ID 02/02			@ R 01/08			@ ID 02/02		

ISS01. Units Shipped (Data Element #382)

(Spec: Mandatory, Type = R, Min/Max = 01/10)

Units Shipped is the numeric value of units shipped.

The Units Shipped is the quantity of units PHYSICALLY shipped, not the sum of the item charges for the repair of the unit.

ISS02. Unit of Measure Code (Data Element #355)

(Spec: Mandatory, Type = ID, Min/Max = 02/02)

Unit of Measure Code is a code identifying the basic unit of measure. The only TI-recognized code is ISS02 is 'EA' (Each).

ISS03. Weight (Data Element #81)

NOT USED BY TI.

ISS04. Unit of Measure Code (Data Element #355)

NOT USED BY TI.

ISS05. Volume (Data Element #183)

NOT USED BY TI.

ISS06. Unit of Measure Code (Data Element #355)

NOT USED BY TI.

CTT - TRANSACTION TOTALS

Purpose: To provide hash totals to validate transaction completeness and correctness.

Spec: Mandatory, Max Length = 127, Max Use = 1

Diagram:

CTT	*	CTT01	354		CTT02	347		CTT03	81	
		NUMBER OF LINE ITEMS	*		HASH TOTAL	*		WEIGHT	*	
		M N0 01/06			O R 01/10			@ R 01/08		
		CTT04	355		CTT05	183		CTT06	355	
		UNIT OF MEASURE CODE	*		VOLUME	*		UNIT OF MEASURE CODE	*	
		@ ID 02/02			@ R 01/08			@ ID 02/02		
		CTT07	352							
		DESCRIPTION	N L							
		@ AN 01/80								

CTT01. Number of Line Items (Data Element #354)

(Spec: Mandatory, Type = N0, Min/Max - 01/06)

Number of line items the total number of line items (IT1 segments) in the transaction set.

CTT02. Hash Total (Data Element #347)

(Spec: Optional, Type = R, Min/Max = 01/10)

Hash total is the sum of all values of Quantity Invoiced (IT102),

Ameritech STRONGLY RECOMMENDS the Hash Total data element.

CTT03. Weight (Data Element #81)

NOT USED BY TI.

CTT04. Unit of Measure Code (Data Element #355)

NOT USED BY TI.

CTT05. Volume (Data Element #183)

NOT USED BY TI.

CTT06. Unit of Measure Code (Data Element #355)

NOT USED BY TI.

CTT07. Description (Data Element #352)

NOT USED BY TI.

SE - TRANSACTION SET TRAILER

Purpose: To specify the end of a transaction set.

Spec: Mandatory, Max Length = 20, Max Use = 1

Diagram:

SE	*	SE01	96		SE02	329	
		NUMBER OF		*	TRANSACTION		
		INCLUDED			SET CONTROL		N
		SEGMENTS			NUMBER		L
		M	N0	01/06	M	AN	04/09

SE01. Number of included Segments (Data Element #96)

(Spec: Mandatory, Type = N0, Min/Max = 01/06)

Number of Included Segments is the total of all segments used in the transaction set, including the “ST” and “SE” segments.

SE02. Transaction Set Control Number (Data Element #329)

Spec: Mandatory, Type = AN, Min/Max = 04/09)

This data element is the identifying control number assigned by the originator of the transaction set. The value of this element must equal the same data element in the Transaction Set Header (ST02).

8. CONTROL SEGMENTS (END)

yGE - FUNCTIONAL GROUP TRAILER (END)

Purpose: To define (specify) the end of a functional group of related transaction sets.

Spec: Mandatory, Fixed Length = 20, Max Use = 1

Diagram:

GE	*	GE01	97	*	GE02	28	N
		NUMBER OF			DATA		L
		INCL. TRANS.			INTERCHANGE		
		SETS			CONTROL NO.		
		M	N0	01/06	M	N0	01/09

GE01. Number of Included Transaction Sets (Data Element #97)

(Spec: Mandatory, Type = N0, Min/Max = 01/06)

This number represents the total number of transaction sets (as defined by ST and SE segment pairs) that are included between the Group Start (GS) segment and the Group End (GE) segment.

GE02. Data Interchange Control Number (Data Element #28)

(Spec: Mandatory, Type = N0, Min/Max = 01/09)

This control number is generated by the sender of the transaction set(s) bounded by the Group Start (GS) and Group End (GE) segments. The Data Interchange Control Number used in the Group End (GE) segment must match exactly the Data Interchange Control Number (GS06) in the Functional Group Header (GS) segment. (Identical Data Interchange Control number

(GS06 and GE02) in the associated Functional Group Header segment (GS) and Functional Group Trailer segment (GE) is designed to maximize functional group integrity.)

IEA - INTERCHANGE CONTROL TRAILER

Purpose: To define the end of an interchange of one or more functional groups, and interchange related control segments. IEA is an approved ANSI segment and will be published in the next release.

Spec: Mandatory, Fixed Length = 20, Max Use = 1

Diagram:

IEA	*	IEA01	405	*	IEA02	709	N L
		NUMBER OF INCLUDED GROUPS			INTERCHANGE CONTROL NUMBER		
		M	N0 01/05		M	N0 09/09	

IEA01. Number of Included Functional Groups (Data Element #405)

(Spec: Mandatory, Type = N0, Min/Max = 01/05)

The Number of Included Functional Groups is the total of all functional groups included in the interchange.

IEA02. Interchange Control Number (Data Element #709)

(Spec: Mandatory, Type = N0, Min/Max - 09/09)

The Interchange Control Number is generated by the sender of the interchange and is used to uniquely identify the interchange to the sender. In conjunction with the Interchange Sender I.D. (ISA06) in the Interchange Control Header (ISA) segment, it uniquely identifies the interchange to the receiver. The Interchange Control Number used in the Interchange Control Trailer (IEA) must match exactly the Interchange Control Number (ISA13) used in the Interchange Control Header (ISA) segment.

APPENDIX 1: AMERITECH BVAPP MOA/MI COORDINATOR

AMERITECH SERVICES INC

BVAPP MOA/MI Coordinator	Phone: (708) 248-4335
2000 W. Ameritech Ctr. Dr., 3D09E	Fax: (708) 248-3941
Hoffman Estates, Illinois 60196	

INDIANA BELL

BVAPP MOA/MI Coordinator	Phone: (317) 265-5330
240 North Meridian, Room 1567	Fax: (317) 265-2286
Indianapolis, Indiana 46204	

ILLINOIS BELL

BVAPP MOA/MI Coordinator	Phone: (312) 727-7292
225 West Randolph, Room 19G	Fax: (312) 977-8528
Chicago, Illinois 60606	

MICHIGAN BELL

BVAPP MOA/MI Coordinator	Phone: (313) 262-4064
29777 Telegraph Road, Room 4671	Fax: (313) 262-4779
Southfield, Michigan 48034	

OHIO BELL

BVAPP MOA/MI Coordinator	Phone: (614) 223-6668
150 East Gay Street, Room 20P	Fax: (614) 223-4501
Columbus, Ohio 43215	

WISCONSIN BELL

BVAPP MOA/MI Coordinator	Phone: (414) 523-8692
N17 W24300 Riverwood Dr.	Fax: (414) 523-5010
3 rd Floor	
Waukesha, Wisconsin 53188	

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APPENDIX 2: NON-MATERIAL LINE NUMBERS

PURCHASE ORDER LINE NUMBERS
FOR NON-MATERIAL ITEMS
ON HARDWIRED REQUISITION/TEO'S

ITEM NO.	DESCRIPTION OR CHARGES	BILLING CAT
980	ASSEMBLY	ASSM
986	REPRODUCTION SERVICES	REPR
987	RENTS AND LEASES	R&L
988	WAREHOUSING	WARE
989	HAULING AND HOISTING	H&H
990	CLAIMS	MISC
991	MATERIAL SERVICES FINAL BILL (00) AMOUNT. IF MATERIAL AMOUNT IS ON FINAL BILL, IT HAS TO BE CHARGED TO A SPECIFIC ITEM NUMBER.	MATN
994	RIGHT-TO-USE FEES – INITIAL	RTUI
995	RIGHT-TO-USE FEES – RECURRING	RTUR
996	INSTALLATION CHARGES	LABI
997	ENGINEERING CHARGES	ENG
999	TRANSPORTATION CHARGES	TRNV

NOTE: IF THERE IS MORE THAN ONE CHARGE BY VENDOR ORDER AND VENDOR SPEC ON AN INVOICE, A SUPPLEMENTAL ITEM NUMBER MUST BE USED TO SEPARATE THE CHARGES.

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APPENDIX 3: BVAPP BILLING CATEGORIES

PICS/DCPR BVAPP
BILLING CATEGORIES

BILLING CATEGORY	HW	PI	REP	DESCRIPTION	FINAL BILL INDICATOR
ASSM	X			SHOP ASSEMBLY CHARGES – (e.g., CEV)	IB
ENG	X			ENGINEERING	EB
FRMW	X			FIRMWARE	MB
H&H	X			HAULING AND HOISTING	MB
JREC			X	JUNKED IN REPAIR RECORD/CHARGE	—
LABI	X			LABOR – INSTALLATION	IB
LABM			X	LABOR – MODIFY/UPGRADE	—
LABN			X	LABOR – NO TROUBLE FOUND	—
LABR			X	LABOR – REPAIR	—
LABT			X	LABOR – TEST AND CALIBRATE	—
MATM			X	MATERIAL – MODIFY/UPGRADE	—
MATN	X	X		MATERIAL – NEW	MB
MATP	X			MATERIAL – PRINTED (ASI ONLY)	MB
MATR			X	MATERIAL – REPAIR	—
OSSS	X			OPTIONAL SOFTWARE SUPPORT SERVICES	RB
OWRL			X	OUT-OF-WARRANTY REPAIR LABLE (WARRANTY ORDER)	—
OWRM			X	OUT-OF-WARRANTY REPAIR MATL (WARRANTY ORDER)	—
OWSC			X	OUT-OF-WARRANTY SERVICE CHARGE (SPARE EXCH)	—
PUBL	X			PUBLICATION	MB
R&L	X			RENTS AND LEASES	MB
REPR	X			REPRODUCTION	MB
RTUI	X			RIGHT-TO-USE FEES – INITIAL	RB
RTUR	X			RIGHT-TO-USE FEES – RECURRING	RB
SALV	X			SALVAGE CREDITS	MB
SERC	X			SERVICE CHARGES	MB
SERO			X	SERVICE CHARGE (SPARE EXCHANGE)	—
TRND	X	X	X	TRANSPORTATION – DIRECT BILLING	MB
TRNV	X	X	X	TRANSPORTATION – VENDOR PROVIDED	MB
TRN3	X	X	X	TRANSPORTATION – THIRD PARTY BILLING	MB
WARE	X			WAREHOUSING	MB

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NOTES:

1. THE USE OF ANY NON-REPAIR BILLING CATEGORY FOR A REPAIR INVOICE WILL RESULT IN THE REJECTION OF THE INVOICE IN PICS/DCPR BVAPP.
2. TRANSPORTATION CHARGES FOR REPAIR SERVICE ORDERS (RSO'S) SHOULD BE PROVIDED AS SEPARATE LINE ITEMS (IT1 SEGMENTS). THE USE OF ITA SEGMENTS IN A REPAIR INVOICE MAY RESULT IN DELAYED PAYMENT OF THE INVOICE.
3. THE USE OF ANY NON-PLUG-IN BILLING CATEGORY FOR A PLUG-IN INVOICE MAY RESULT IN DELAYED PAYMENT OF THE INVOICE.
4. THE USE OF ANY NON-HARDWIRED BILLING CATEGORY FOR A HARDWIRED INVOICE MAY RESULT IN DELAYED PAYMENT OF THE INVOICE.

APPENDIX A - TI RECOGNIZED CODES

CODE	DEFINITION	PICS/DCPR
23 Commodity Code Qualifier		
A	TSUSA Number Available from: Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402	NR
B	Schedule B Number Available from: Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402	NR
C	Canadian Freight Classification Available from: Mr. J.P. Lavaliee Agent Canadian Freight Association 1162 St. Antoine Street Montreal, P.Q. H3C 1B5, Canada	NR
E	Coordinated Motor Freight Classification Available from: New England Motor Freight Bureau, Inc. 14 New England Executive Park Burlington, MA 01803	NR
F	Federal Supply Classification and National Stock Number Available from: (A) General Services Administration (BBRD-9) Bldg. 41 Denver Federal Center Denver, CO 80225 (B) Defense Logistics Service Center Attn: DLSC-APPP Battle Creek, MI 49016	NR
H	Brussels Nomenclature Available from: Customs Co-operation Council 40 Rue Washington B-1-50 Brussels, Belgium	NR
I	Milstamp AITC or Water Commodity Code	NR
L	Last Contained Contents STCC Available from: Tariff Publishing Officer 222 South Riverside Plaza Chicago, IL 60606	NR

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23 Continued

N	National Motor Freight Classification (NMFC)	NR
	Available from: American Trucking Association, Inc. 1616 P Street, N.W. Washington, D.C. 20036	
S	Standard International Trade Classification (SITC)	NR
	Available from: United Nations Publishing Service New York, NY 10017	
T	Standard Transportation Commodity code (STCC)	NR
	Available from: Tariff Publishing Officer 222 South Riverside Plaza Chicago, IL 60606	
U	Uniform Freight Classification (UFC)	NR
	Available from: Mr. J.D. Sherson Tariff Publishing Officer Room 202, Union Station 516 West Jackson Boulevard Chicago, IL 60606	

40 Equipment Description Code

2B	20 Ft. IL Container (Closed Top)	NR
2O	20 Ft. IL Container (Open Top)	NR
4B	40 Ft. IL Container (Closed Top)	NR
4O	40 Ft. IL Container (Open Top)	NR
AC	Closed Container	NR
AF	Air Freight (Break Bulk)	NR
AT	Closed Container (Controlled Temperature)	NR
BC	Covered Barge	NR
BG	Bogie	NR
BO	Barge Open	NR
BR	Barge	NR
BX	Boxcar	NR
CA	Container-Van	NR
CC	Container Resting on Chassis	NR
CH	Chassis	NR
CL	Container (Closed Top – Length Unspecified)	NR
CN	Container	NR
CO	Containerized (Closed Top Unspecified Length)	NR
CP	Coil Car Open	NR
CR	Coil Car Covered	NR
CS	Container – Low Side Open Top	NR
CT	Container – High Side Open Top	NR
CU	Container (Open Top – Length Unspecified)	NR
CV	Closed Van	NR
CX	Containerized (Open Top – Unspecified Length)	NR
DT	Drop Back Trailer	NR
DX	Boxcar (DF Equipped)	NR
FR	Flat Bed Trailer – Removable Sides	NR
FT	Flat Bed Trailer	NR
FX	Boxcar Cushion Under Frame of	NR
HC	Hooper Car (Covered)	NR
HO	Hopper Car (Open)	NR
HP	Hopper Car (Covered; Pneumatic Discharge)	NR
HV	High Cube Van	NR
ID	Idler Car	NR
IX	Boxcar (Insulated)	NR

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40 Continued

LU	Load/Unload Device on Equipment	NR
NX	Boxcar (Interior Bulkheads)	NR
OB	Ocean Vessel (Break Bulk)	NR
OT	Open-Top/Flatbed Trailer	NR
OV	Open Top Van	NR
PT	Protected Trailer	NR
PU	Pick-up Truck	NR
RC	Refrigerated (Reefer) Car	NR
RE	Flat Car (End Bulkheads)	NR
RF	Flat Car	NR
RG	Gondola Covered	NR
RI	Gondola Car (Covered – Interior Bulkheads)	NR
RO	Gondola Car (Open)	NR
RR	Rail Car	NR
RT	Controlled Temperature Trailer (Reefer)	NR
SC	Service Car	NR
ST	Removable Side Trailer	NR
SV	Van-Special IL, IW, or IH Requirements	NR
TH	Truck, Open Top High Side	NR
TL	Trailer (Not Otherwise Specified)	NR
TO	Truck, Open Top	NR
TR	Removable Side Trailer	NR
TT	Telescoping Trailer	NR
TU	Truck, Open Top Low Side	NR
TV	Truck, Van	NR
UL	Unit Load Drive (ULD)	NR
UX	Boxcar Cushion Under Frame	NR
VC	Closed Van	NR
VC	Closed Van	NR
VE	Vessel, Ocean	NR
VL	Vessel, Lake	NR
VO	Open Top Van	NR
VR	Vessel, Ocean-Rollon-Rolloff	NR
VS	Vessel, Ocean-Lash	NR
VT	Vessel, Ocean-Containership	NR

66 Identification Code Qualifier

01	Dun and Bradstreet (Credit Reporting) (DUNS)	HW/PI/REP
02	Standard Carrier Alpha Code (Motor) (SCAC)	NR
03	Federal Maritime Commission (Ocean) (FMC)	NR
04	International Air Transport Association (IATA)	NR
05	SIRET	NR
07	Dock	NR
08	Vendor UPC Code	NR
09	DUNS Number with 4 digit suffix	NR
10	Department of Defense Active Agency Code (DODAAC)	NR
11	Drug Enforcement Administration (DEA)	NR
12	Telephone Number (Phone)	NR
13	Federal Reserve Routing Code (FRRC)	NR
14	International European Article Number (EAN) (Vendor Portion)	NR
15	Standard Address Number (SAN)	NR
16	Zip Code	NR
21	Health Care Industry I.D. Number	NR
22	Branch	NR
91	Assigned by Seller or Seller's Agency	HW/PI/REP
92	Assigned by Buyer	HW/PI/REP

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88 Marks and Number Qualifier

PB	Premarked by Buyer	NR
SM	Shipper Assigned	NR

91 Mode

A	Air	NR
AE	Air Express	NR
BU	Bus	NR
C	Consolidation	NR
CE	Customer Pickup / Customer's Expense	NR
D	Parcel Post	HW/PI/REP
E	Expedited Truck	HW/PI/REP
F	Hold for Pickup	NR
G	Piggyback (TOFC/COFC)	NR
H	Customer Pickup	NR
I	Common Irregular Carrier	NR
J	Other Motor	HW/PI/REP
K	Backhaul	NR
L	Contract Carrier	HW/PI/REP
LT	LTL Truckload	NR
M	Motor (Common Carrier)	HW/PI/REP
N	Private Vessel	NR
NN	Zoned Carrier (Not Loaded to Full Visible Capacity)	NR
NY	Zoned Carrier (Loaded to Full Visible Capacity)	NR
O	Containerized	NR
PC	Private Carrier	NR
PL	Pipeline Motor Carrier	NR
PT	Pool Truck	NR
Q	Conventional	NR
R	Rail	NR
S	Other Ocean	NR
SR	Supplier's Truck	HW/PI/REP
SS	Steamship	NR
T	Beat Way (Shipper's Option)	HW/PI/REP
TN	Common Carrier (Not Loaded to Full Visible Capacity)	NR
TY	Common Carrier (Loaded to Full Visible Capacity)	NR
U	United Parcel Service (UPS)	HW/PI/REP
VE	Vessel	NR
W	Inland Waterway	NR
X	Intermodal	NR

92 Purchase Order Type

BE	Blanket Order/Estimated Quantities (Not firm commitment)	NR
BK	Blanket Order (Quantity Firm)	NR
CP	Change to Purchase Order	NR
CR	Change to Release	NR
KO	Close Out	NR
RL	Release Against Blanket Order	NR
RR	Repair and Return	NR
SA	Stand-alone Order	NR
SS	Supply or Service Order	NR

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98 Organization Identifier

AK	Party to Whom Acknowledgement Should be Sent	NR
BT	Party To Be Billed	NR
BY	Buying Party (Purchaser)	HW/PI/REP
PE	Payee's Company Name/ID (Check, Draft, or Wire) Receiving Company Name/ID (ACH Transfers)	HW/PI/REP
SE	Selling Party	HW/PI/REP
SF	Ship From	NR
ST	Ship To	NR

102 Ownership Code

N	Not Customer Owned or Leased	NR
R	Seller Owned, Returnable	NR
S	Customer Owned or Leased	NR
T	Trip Leased	NR

103 Packaging Code – Two Part Code (Part 1 – Packaging Form, Part 2 – Material)

BAG	Bag	NR
BAL	Bale	NR
BBL	Barrel	NR
BDL	Bundle	NR
BEM	Beam	NR
BIC	Bing Chest	NR
BIN	Bin	NR
BLK	Bulk	NR
BOB	Bobbin	NR
BOX	Box	NR
BRG	Barge	NR
BSK	Basket or Hamper	NR
BXI	Box, with inner container	NR
BXT	Bucket	NR
CAB	Cabinet	NR
CAG	Cage	NR
CAN	Can	NR
CAR	Carrier	NR
CAS	Case	NR
CBC	Containers of Bulk Cargo	NR
CBY	Carboy	NR
CCS	Can Case	NR
CHE	Cheeses	NR
CHS	Chest	NR
CNT	Container	NR
COL	Coil	NR
CON	Cones	NR
COR	Core	NR
CRD	Cradle	NR
CRT	Crate	NR
CSK	Cask	NR
CTN	Carton	NR
CYL	Cylinder	NR
DBK	Dry Bulk	NR
DRK	Double-length Rack	NR
DRM	Drum	NR
DSK	Double-length Skid	NR
DTB	Double-length Tote Bin	NR
FIR	Firkin	NR
FLO	Flo-bin	NR
FRM	Frame	NR

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103 Continued

FSK	Flask	NR
FWR	Forward Reel	NR
HED	Heads of Beef	NR
HGH	Hogshead	NR
HPC	Hopper Car	NR
HPT	Hopper Truck	NR
HRB	On Hanger or Rack on Boxes	NR
HRK	Half-Standard Rack	NR
HTB	Half-Standard Tote Bin	NR
JAR	Jar	NR
KEG	Keg	NR
KIT	Kit	NR
KRK	Knockdown Rack	NR
KTB	Knockdown Tote Bin	NR
LBK	Liquid Bulk	NR
LOG	Log	NR
LSE	Loose	NR
LUG	Lug	NR
LVN	LIFT Van	NR
MRP	Multi-Roll Pack	NR
NOL	Noil	NR
PAL	Pail	NR
PCK	Packed-Not Otherwise Specified	NR
PCS	Pieces	NR
PIR	Pirns	NR
PKG	Package	NR
PLF	Platform	NR
PLN	Pipeline	NR
PLT	Pallet	NR
POV	Private Vehicle	NR
PRK	Pipe Rack	NR
QTR	Quarter of Beef	NR
RAL	Rail (Semiconductor)	NR
RCK	Rack	NR
REL	Reel	NR
ROL	Roll	NR
RVR	Reverse Reel	NR
SAK	Sack	NR
SHK	Shook	NR
SID	Side of Beef	NR
SKD	Skid	NR
SKE	Skid, Elevating or Lift Truck	NR
SLV	Sleeve	NR
SPI	Spin Cylinders	NR
SPL	Spool	NR
TBE	Tube	NR
TBN	Tote Bin	NR
TKR	Tank Car, Rail	NR
TKT	Tank Truck	NR
TNK	Tank	NR
TRC	Tierce	NR
TRK	Trunk and Chest	NR
TRY	Tray	NR
TSS	Trunk, Salesmen Sample	NR
TUB	Tub	NR
UCR	Unit Car, Rail	NR
UNP	Unpacked	NR
UNT	Unit	NR
VPK	Van Pack	NR
WHE	On Own Wheel	NR
WLC	Wheeled Carrier	NR

Part 2 – Material

01	Aluminum	NR
04	As Specified by the DOT	NR
07	Burlap	NR
10	Chemically Hardened Fiber	NR

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103 Continued

13	Cloth	NR
16	Cloth Top	NR
19	Cloth or Fabric	NR
22	Compressed	NR
25	Corrugated or Solid	NR
28	Double-wall Paper	NR
31	Fibre	NR
34	Fibre (Paperboard)	NR
37	Fibreboard	NR
40	Fibreboard Metal	NR
43	Glass	NR
46	In Inner Containers	NR
49	Insulated	NR
50	Wire Mesh	NR
51	Special Jumbo	NR
52	Iron or Steel	NR
53	Jumbo	NR
55	Lead	NR
58	Metal	NR
59	Metal Cans	NR
61	Moisture Resistant	NR
64	Molded Plastic	NR
67	Multiple Wall Paper (2 or More Walls)	NR
70	Multiple Wall Paper (3 or More Walls)	NR
71	Not Otherwise Specified	NR
73	Other Than Glass	NR
74	Other Than Metal or Plastic Tubes or Glass	NR
76	Paper	NR
79	Plastic	NR
80	Polyethylene Lines	NR
82	Pulpboard	NR
85	Rubber	NR
88	Rubber and Fabric	NR
89	Special	NR
90	Standard	NR
91	Stainless Steel	NR
92	Tubes, Metal or Plastic	NR
94	Wood	NR

128 Reference Number Qualifier

AB	Acceptable Source Purchaser ID	NR
AC	Air Cargo Transfer Manifest	NR
AD	Acceptable Source DUNS Number	NR
AF	Airlines Flight Identification Number	NR
AG	Agent's Shipment Number	NR
AM	Adjustment Memo (Charge Back)	NR
AN	Sending Company Audit Number (ACH Transfers)	NR
AO	Appointment Number	NR
AP	Accounts Receivable	NR
AR	Arrival Code	NR
AS	Acceptable Source Supplier ID	NR
AU	Authorization to Meet competition No.	NR
AW	Air Waybill Number	NR
BA	Beginning Meter Reading (Actual)	NR
BC	Buyer's Contract Number	NR
BD	Bid Number	NR
BE	Beginning Meter Reading (Estimated)	NR
BK	Broker's Order Number	NR
BL	Government Bill of Lading	NR
BM	Bill of Lading Number	NR
BN	Booking Number	NR
BR	Broker or Sales Office Number	NR
BT	Batch Number	NR
CA	Cost Allocation Reference	NR
CB	Combined Shipment	NR
CC	Contract Co-op Number	NR
CD	Credit Note Number	NR

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128 Continued

CE	Class of Contact Code	NR
CF	Fleet Reference Number	NR
CG	Consignee's Order Number	NR
CK	Check Number	NR
CL	Seller's Credit Memo	NR
CM	Credit Memo	NR
CN	Carrier's Reference Number (PRO/Invoice)	NR
CO	Customer Order Number	NR
CP	Condition of Purchase Document Number	NR
CR	Customer Reference Number	NR
CS	Condition of Sale Document Number	NR
CT	Contract Number	NR
DB	Buyer's Debit Memo	NR
DE	Depositor Number	NR
DI	Distributor Invoice Number	NR
DK	Dock Number	NR
DM	Debit Memo	NR
DN	Draft Number	NR
DO	Delivery Order Number	NR
DP	Department Number	NR
DR	Dock Receipt Number	NR
DS	Defense Priorities Allocation system (DPAS)	NR
EA	Ending Meter Reading (Actual)	NR
ED	Export Declaration	NR
EE	Ending Meter Reading (Estimated)	NR
EI	Employer's Identification Number	NR
EQ	Equipment Number	NR
ER	Container or Equipment Receipt Number	NR
ES	Employer's Social Security Number	NR
ET	Excess Transportation	NR
FI	File Identifier	NR
FN	Forwarder's/Agent's Reference Number	NR
FR	Freight Bill Number	NR
GB	Grain Block Number	NR
GC	Government Contract Number	NR
GP	Government Priority Number	NR
HB	Bill & Hold Invoice No.	NR
HC	Heat Code	NR
HP	Pack & Hold Invoice No.	NR
IC	Inbound-to Party	NR
IL	Internal Order Number	NR
IN	Consignee's Invoice Number	NR
IO	Inbound-to or Outbound-from Party	NR
IS	Invoice Number Suffix	NR
IT	Internal Customer Number	NR
IV	Seller's Invoice Number	NR
JA	Beginning Job Sequence Number	NR
JE	Ending Job Sequence Number	NR
JS	Job Sequence Number	NR
LA	Shipping Label Serial Number	NR
LB	Lockbox	NR
LF	Assembly Line Feed Allocation	NR
LI	Line Item Identifier (Seller's)	NR
LS	Bar coded Label Serial Number	NR
LT	Lot Number	NR
LW	Location Within Equipment	NR
MA	Ship Notice Manifest Number	NR
MB	Master Bill of Lading	NR
MF	Manufacturer's Part Number	NR
MH	Manufacturing Order Number	NR
MN	MICR Number	NR
MV	Motor Vehicle ID Number	NR
OB	Ocean Bill of Lading	NR
OC	Ocean Container Number	NR
OI	Original Invoice Number	NR
OM	Ocean Manifest	NR
OP	Original Purchase Order	NR
OS	Outbound-from Party	NR

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128 Continued

PA	Price Area Number	NR
PB	Payer's financial Institution Account Number (Check, Draft, or Wire)	NR
PC	Production Code	NR
PD	Promotion/Deal Number	NR
PE	Plant Number	NR
PF	Prime Contractor Contract Number	NR
PG	Product Group	NR
PH	Priority Rating	NR
PI	Price List Change or Issure Number	NR
PK	Packing List Number	NR
PL	Price List Number	NR
PM	Part Number	NR
PN	Permit Number	NR
PO	Purchase Order Number	NR
PP	Purchase Order Revision Number	NR
PR	Price Quote Number	NR
PS	Purchase Order Number Suffix	NR
PT	Purchase Option Agreement	NR
PY	Payee's Financial Institution Account Number (Check, Draft, ow Wire)	NR
PZ	Product Change Notice Number	NR
RC	Rail Routing Code	NR
RE	Release Number	NR
RL	Reserve Assembly Line Feed Allocation	NR
RN	Run Number	NR
RP	Repetitive Pattern Code	NR
RQ	Purchase Requisition Number	NR
RR	Payer's Financial Institution Transit Routing No. (ACH Transfers) ODFI (ACH Transfers)	NR
RS	Returnable Container Serial Number	NR
RT	Payee's Financial Institution Transit Routing Number (Check, Draft, or Wire) RDFI Transit Routing Number (ACH Transfers)	NR
RW	AAR RWC (Origin Carrier, SPLC, and RWC Number)	NR
SA	Salesperson	NR
SC	Shipper Car Order Number	NR
SE	Serial Number	NR
SF	Ship From	NR
SI	Shipper's Identifying Number for Shipment (SID)	NR
SL	Sales/Territory Code	NR
SN	Seal Number	NR
SO	Shipper's Order (Invoice Number)	NR
SQ	Container Sequence Number	NR
SR	Sales Responsibility	NR
ST	Store Number	NR
SU	Sub Code	NR
SV	Service Charge Number	NR
TB	Trucker's Bill of Lading	NR
TL	Tax License Exemption	NR
TM	Travel Manifest (ACI or OTR)	NR
TN	Transaction Reference Number	NR
TR	Government Transportation Request	NR
TX	Tax Exempt Number	NR
UB	Unacceptable Source Purchaser ID	NR
UD	Unacceptable Source DUNS Number	NR
US	Unacceptable Source Supplier ID	NR
UT	Unit Train	NR
VC	Vendor Contract Number	NR
VM	Vessel Name	NR
VN	Vendor Order Number	NR
VP	Vendor Product Number	NR
VS	Vendor Order Number Suffix	NR
VV	Voucher	NR
WM	Weight Agreement Number	NR
WR	Warehouse Receipt Number	NR
WY	Rail Waybill Number	NR

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133 Routing Sequence Code

1	1 st Carrier After Origin Carrier	NR
2	2 nd Carrier After Origin Carrier	NR
3	3 rd Carrier After Origin Carrier	NR
4	4 th Carrier After Origin Carrier	NR
5	5 th Carrier After Origin Carrier	NR
6	6 th Carrier After Origin Carrier	NR
7	7 th Carrier After Origin Carrier	NR
8	8 th Carrier After Origin Carrier	NR
9	9 th Carrier After Origin Carrier	NR
A	Origin Carrier, Agent's Routing (Rail)	NR
B	Origin/Delivery Carrier (any Mode)	NR
D	DELY (Delivery Switch Carrier)	NR
I	Origin Switch Carrier	NR
O	Origin Carrier (Air, Motor, or Ocean)	NR
PD	Port of Debarkation	NR
PI	Port of Entry	NR
PO	Port of Exit	NR
R	Origin Carrier, Rule 11 Shipment	NR
S	Origin Carrier, Shipper's Routing (Rail)	NR
V	Intermediate Switch Carrier at Origin	NR

143 Transaction Set Identifier

810	X12.2 Invoice	HW/PI/REP
820	X12.4 Remittance/Payment Advice	NR
821	X12.24 Financial Transaction Reporting	NR
822	X12.25 Customer Account Analysis	NR
830	X12.14 Planning Schedule	NR
832	X12.13 Price/Sales Catalog	NR
840	X12.7 Request for Quotation	NR
843	X12.8 Response to Request for Quotation	NR
844	X12.26 Account of Adjustment	NR
845	X12.27 Price Authorization/Acknowledgment Status	NR
846	X12.28 Inventory Advice	NR
850	X12.1 Purchase Order	NR
851	X12.29 Purchase Order – Sales/Inventory Calculated	NR
855	X12.9 Purchase Order Acknowledgment	NR
856	X12.10 Ship Notice/Manifest	NR
857	X12.17 Notification of Readiness to Ship	NR
858	X12.18 Shipping Documentation	NR
859	X12.19 Post Shipment documentation	NR
860	X12.15 Purchase Order Change Request	NR
861	X12.12 Receiving Advice	NR
865	X12.16 Purchase Order Change Request Acknowledgment	NR
868	X12.30 Electronic Form Transfer Structure	NR
869	X12.11 Order Status Inquiry	NR
870	X12.23 Order Status Report	NR
997	X12.20 Function Acknowledgment	NR

146 Shipment Method of Payment

CA	Advance Collect	NR
CC	Collect	NR
CF	Collect, Freight Credited to Payment Customer	NR
DF	Defined by Buyer and Seller	NR
FO	FOB Port of Call	NR
IC	Information Copy, No Payment Due	NR
MX	Mixed	NR
NC	Service Freight, No Charge	NR
NS	Not Specified	NR
PA	Advance Prepaid	NR
PB	Customer Pickup/Backhaul	NR
PC	Prepaid but Charged to Customer	NR
PO	Prepaid Only	NR
PP	Prepaid (by Seller)	NR
PU	Pickup	NR
TP	Third Party Pay	NR
WC	Weight Condition	NR

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152 Special Handling Code

AGG	Motor-Aggregate Tender Discount	NR
AK	Rail-Attachment-Auto Keys	NR
ASY	Motor Assembly Service Requested	NR
AT	Rail-Attachment to Move With Car	NR
AV	Rail-Annual Volume	NR
AW	Rail-Attachments-Advance Only Waybill	NR
BA	Rail-Clearinghouse Balance	NR
BL	Rail-Blowable Load	NR
BN	Rail-If Bad Ordered Notify shipper	NR
BW	Rail-Bill Shipper for Weight Charge	NR
CCH	Motor-Certification	NR
CD	Rail-Attachment-Customer's Document	NR
CI	Rail-Customs Inspection	NR
CM	Rail-Attachment-Cotton Manifest	NR
COU	Motor-Consignee Unload	NR
CR	Rail-Circus Ramp Only (TOFC Van)	NR
CW	Rail-Bill Consignee for Weight Charges	NR
CY	Rail-Endorsed for Recycling	NR
DA	Rail-Dangerous	NR
DIS	Motor-Distribution Service Requested	NR
DS	Rail-Delivery on Order of Shipper	NR
DT	Rail-Dead in Tow	NR
DU	Rail-Do Not Uncouple	NR
DW	Rail-Destination Weight Applies	NR
END	Motor-Endorsement	NR
ER	Rail-Return Empty Via Reverse Route	NR
EW	Rail-Excessive Weight	NR
EX	Rail-Explosive Flammable Gas	NR
EXU	Motor-Exclusive use of Vehicle Damaged	NR
FG	Rail-Flammable Gas	NR
FL	Rail-Flammable	NR
FR	Rail-Fragile-Handle with Care	NR
FS	Rail-Nontransit Flat Shipment	NR
FVC	Motor-Loaded to Full Visible Capacity	NR
GI	Rail-Grain Inspection	NR
HE	Rail-Head End Car	NR
HM	Rail-Endorsed as Hazardous Material	NR
HO	Rail-Hold for Orders	NR
HP	Rail-Heated Prior to Loading	NR
HR	Rail-Home for Repair	NR
HT	Rail-Heat	NR
HV	Rail-High Value Load	NR
HW	Rail-High Wide Load	NR
IB	Rail-In Bond	NR
IC	Rail-Ice	NR
IP	Rail-Import Shipment	NR
IR	Rail-Rail Incentive Rate	NR
IS	Rail-Surveillance Service	NR
JLX	Motor-Joint Line Exception	NR
JS	Rail-Junction Settlement Account	NR
LC	Rail-Car Trip Leased to Consignee	NR
LD	Rail-Loading Devices	NR
LF	Rail-Loaded to Full Visible Capacity	NR
LS	Rail-Local Service Only	NR
LT	Rail-Less Than Full Carload	NR
MC	Rail-Person in Charge of Car	NR
MES	Motor-Escort	NR
MEX	Motor-Exclusive Use	NR
MF	Rail-Cleared for Border Crossing	NR
MFR	Motor-Fragile, Handle With Care	NR
MHT	Motor-Heated	NR
MHV	Motor-High Value Load	NR
MIB	Motor-In-Bond	NR
MIN	Motor-Insulated	NR
MNC	Motor-Notify Consignee Before Delivery	NR
MOT	Motor-Other	NR
MP	WINS-Multiple Pickup	NR
MPS	Motor-Protective Service	NR

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152 Continued

MPS	Motor-Protective Service	NR
MR	Rail-Mechanical Refrigeration	NR
MRF	Motor-Refrigerated	NR
MSH	Motor-Shiftable Load	NR
MUP	Motor-Unprotected Perishables	NR
MVT	Motor-Ventilation Instructions	NR
NC	Rail-Notify Consignee Before Delivery	NR
ND	Rail-Do Not Divert	NR
NE	Rail-No Special Entrainment Required	NR
NH	Rail-Do Not Hump	NR
NP	Rail-Do Not Pool	NR
NS	Rail-Notify Shipper Before Reconsignment	NR
NT	Rail-Do Not Transfer Contents	NR
NW	Rail-In Case of Fire Do Not Use Water	NR
NX	Rail-Not For Export	NR
OBL	Ocean-Block Sowage	NR
OCA	Ocean-Cargo Aboard	NR
OCS	Ocean-Completing Shipment	NR
OCV	Ocean-Delivery Verification Not Required	NR
OEH	Ocean-Exempt Commodity	NR
OEX	Ocean-Export Shipment	NR
OFU	Ocean-Fumigation	NR
OHC	Ocean-Harmless	NR
ONC	Ocean-Use No Hooks	NR
ONS	Ocean-Not Restricted Cargo	NR
OOB	Ocean-Cargo On Board-Certification Required	NR
OOD	Ocean-On Deck Stowage	NR
OPR	Ocean-Perishable	NR
OPT	Ocean-Partial Shipment	NR
ORF	Ocean-Refrigerated	NR
OSB	Ocean-Stow Below Deck	NR
OST	Ocean-Stow Between Decks	NR
OTC	Ocean-Temperature Control	NR
OTD	Ocean-Time of Delivery and Signature Required	NR
OTS	Ocean-Total Shipment	NR
OXX	Ocean-Other	NR
PB	Rail-Perishable in Box Car	NR
PG	Rail-Poisonous Gas	NR
PI	Rail-Iced Prior To Loading	NR
PS	Rail-Protective Service	NR
PW	Rail-Attachment-Prepaid Waybill	NR
RB	Rail-Render Bill or Charges	NR
RM	Rail-Radioactive Material	NR
RO	WINS-Rush Order	NR
RR	Rail-Rear Rider	NR
RS	Rail-Inspect Hourly if Car Stopped	NR
RT	Rail-Record for Transit	NR
SC	Rail-Shove to Rest and Cover	NR
SCL	Motor-Shipper Load and Consignee Unload	NR
SD	Rail-Subject to Special Detention Rules/Charges	NR
SE	Rail-Attachment-Shipper's Export document	NR
SH	Rail-Shiftable Load	NR
SHL	Motor-Shipper Load	NR
SI	WINS-Ship to Cross Dock or Pool	NR
SK	Rail-Requires Shelf Couplers	NR
SLC	Motor-Shipper Load and Count	NR
SM	Rail-Attachment-Shipper's Manifest	NR
SP	Rail-Attachment-Shipper's Packing Instructions	NR
SR	Rail-Speed Restricted	NR
TA	Rail-Cars Temporarily Articulated	NR
TLS	Motor-Tendered as Truckload (Truckload Service Requested)	NR
TN	Rail-Tum Car	NR
TS	Rail-Transit Shipment	NR
TT	Rail-Team Track Delivery	NR
TV	Rail-Time Volume Rates Only	NR
UN	Rail-Unload as Placarded	NR
UP	Rail-Unprotected Perishable	NR

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152 Continued

US	Rail-Shipper Certifies Cross Weight Under 240,000 pounds	NR
VT	Rail-Ventilation Instructions	NR
WD	Rail-Waived Inspection-Set Direct	NR
WE	Rail-Weight Empty	NR
WH	Rail-Attachments-High Wide Notice	NR
WI	Rail-Waive Inspection	NR
WM	Rail-Manifest Must Accompany Waybill	NR
WO	Rail-Weight to Check for Overload	NR
WW	Rail-Waste Water	NR
XP	Rail-Export	NR

187 Weight Qualifier

A	Consolidated Weight	NR
B	Billed Weight	NR
C	Actual Net Repeated for Combination	NR
D	Destination Weight Agreement	NR
E	Estimated Net Weight	NR
F	Deficit Weight	NR
G	Gross Weight	NR
H	Weight Per 100 Feet	NR
I	Weight Per 1000 Feet	NR
J	Light Weight	NR
K	Clean Out	NR
L	Legal Weight	NR
M	Minimum Weight (for rate)	NR
N	Actual Net Weight	NR
O	Excess Weight Over Maximum	NR
P	Weight Per 100 Units	NR
Q	Weight Per 1000 Units	NR
R	Per Unit Dunnage	NR
S	State Weight	NR
T	Tare Weight	NR
U	Weight Per Unit	NR
V	Theoretical Weight	NR
X	Maximum Weight (for rate)	NR

208 Hazardous Material Code Qualifier

4	46 Level DOT Code	NR
	Available from: Presently being developed by the Association of American Railroads	
6	Airline Tariff 6D	NR
	Available from: Airline Tariff Publishing Company Dulles Airport Washington, D.C.	
9	49 Level Code	NR
A	ICAO Code	NR
I	IMCO Code (Inter-Governmental Maritime Consultative Organization)	NR
	Available from: Inter-Governmental Maritime Consultative Organization (IMCO) 101-104 Picadilly London, W1 VOAE England	
R	BOE 6000-A (Rail)	NR

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208 Continued

U	United Nations	NR
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235 Product/Service I.D. Qualifier

CI	CLEI™ Code	HW/PI/REP
CN	Commodity Name	NR
CR	Contract Number	NR
CT	Continuation (ID Number Spans Multiple Product ID Data Elements)	NR
IN	Buyer's Item Number	NR
MF	Manufacturer	HW/PI/REP
PN	Company Part Number	HARDWIRED
RD	Reel Number	NR
SV	Services Rendered	HW/PI/REP
UP	Universal Product Code (UPC) (Full 11 Digit No.)	NR
VN	Vendor's (Seller's) Item Number	HARDWIRED
VO	Vendor's Order Number	HARDWIRED
VS	Vendor's Supplemental Item Number	HARDWIRED
VU	Vendor's Basic Unit Number	HARDWIRED
VX	Vendor's Specification Number	HARDWIRED
ZZ	Change a/w SLN	NR

236 Price Code Qualifier

CDV	Current Domestic Value	NR
CON	Contract Price	NR
DSC	Discount Amount Allowed	NR
FET	Federal Excise Tax	NR
ICL	Unit Price Through Quantity	NR
INV	Invoice Billing Price	NR
MSR	Manufacturer's Suggested Price	NR
PBQ	Unit Price Beginning Quantity	NR
PPD	Prepaid Freight Charges	NR
QTE	Quote Price	NR
RES	Resale	NR
SHD	Ship and Debit	NR
SUM	Sum of Line Items	NR
TOT	Total Invoice Amount Due	NR
TRF	Transfer	NR

248 Allowance or Charge Indicator

A	Allowance	NR
C	Charge	HW/PI/REP
N	No Allowance or Charge	NR

309 Location Qualifier

AC	City and State	NR
CC	Country	NR
CI	City	NR
CL	National Rate Basis	NR
CO	County/Parish and State	NR
CS	Canadian SPLC	NR
CY	County/Parish	NR
DE	Destination (Shipping)	NR
FA	Factory	NR
FE	Freight Equalization Point	NR
FI	FIPS 55	NR
IM	Milstamp	NR
IP	Postal (ZIP)	NR
MI	Mill	NR
NS	City/State From Point	NR
OP	Overseas Point Location Code	NR
OR	Origin (Shipping Point)	NR
PL	Plant	NR
PO	Postal	NR
PP	Pool Point	NR

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309 Continued

RS	Standard Carrier Alpha Code	NR
SC	City/State and Points Within	NR
SL	U.S. SPLC	NR
SP	State/Province	NR
TC	Transcontinental Freight Bureau	NR
TN	Township	NR
TX	Taxing District	NR
WH	Warehouse	NR

331 Allow or Charge Method of Handling

04	Credit Customer Account	NR
06	Charge to be Paid by Customer	HW/PI/REP

333 Terms Basis Date Code

1	Ship Date	NR
2	Delivery Date	NR
3	Invoice Date	NR
4	Specified Date (See Data Element 446 - Terms Net Due Date)	NR
5	Invoice Receipt Date	NR

335 Trade Terms Code

CAF	Cost and Freight	NR
CIF	Cost, Insurance, and Freight	NR
DAF	Delivered at Frontiere	NR
DDP	Delivered Duty Paid	NR
EXQ	Ex Quay	NR
EXS	Ex Ship	NR
EXW	Ex Works	NR
FCA	Free Carrier	NR
FCI	Freight Carriage and Insurance Paid to	NR
FCP	Freight Carriage Paid To	NR
FOB	Free on Board	NR
FOR	Free on Rail	NR
FOT	Free on Truck	NR

336 Terms Type code

01	Basic	NR
02	ECOM	NR
03	Fixed Date	NR
04	Deferred	NR
05	Discount Not Applicable	NR
06	Mixed	NR
07	Extended	NR
08	Basic Discount Offered	NR
09	Prozimo	NR
10	Instant	NR

348 Item Description Qualifier

TI	Telecommunications Industry	NR
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349 Item Description Type

F	Free-form	NR
S	Structured	NR

353 Transaction set Purpose

00	Original	NR
01	Cancellation	NR
03	Delete	NR
04	Change	NR
05	Replace	NR

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353 Continued

06	Confirmation	NR
07	Duplicate	NR

355 Unit of Measure Code

01	Actual Pounds	NR
05	Lifts	NR
08	Heat Lots	NR
24	Theoretical Pounds	NR
26	Actual Tons	NR
27	Theoretical Tons	NR
31	Catchweight	NR
50	Actual Kilograms	NR
51	Actual Tonnes	NR
53	Theoretical Kilograms	NR
54	Theoretical Tonnes	NR
56	Sitas	NR
58	Net Kilograms	NR
AC	Acre	NR
AM	Ampoule	NR
AP	Aluminum Pounds Only	NR
AY	Assembly	NR
B2	Bunks	NR
B3	Batting Pound	NR
B4	Barrel, Imperial	NR
B7	Cycles	NR
BA	Bale	HARDWIRED
BB	Base Box	NR
BC	Bucket	HARDWIRED
BD	Bundle	HARDWIRED
BE	Beam	NR
BF	Board Feet	NR
BG	Bag	HARDWIRED
BH	Brush	NR
BI	Bar	NR
BJ	Band	NR
BK	Book	NR
BL	Block	NR
BN	Bulk	NR
BO	Bottle	NR
BR	Barrel	NR
BS	Basket	NR
BT	Belt	NR
BU	Bushel	HARDWIRED
BV	Bushel, Dry Imperial	NR
BW	Base Weight	NR
BX	Box	HARDWIRED
C2	Carset	NR
C3	Centiliter	NR
C4	Carload	NR
C5	Cost	NR
C6	Composit Product Pounds (Total Weight)	NR
C8	Cubic Decimeter	NR
CA	Case	HARDWIRED
CB	Carboy	NR
CC	Cubic Centimeter	NR
CD	Carat	NR
CE	Cell	NR
CF	Cubic Feet	NR
CG	Card	NR
CH	Container	HARDWIRED
CI	Cubic Inches	NR
CJ	Cone	NR
CK	Connector	NR
CL	Cylinder	NR
CM	Centimeter	NR
CN	Can	NR
CO	Count	HARDWIRED

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355 Continued

CP	Crate	HARDWIRED
CQ	Cartridge	NR
CR	Cubic Meter	NR
CS	Coil Group	NR
CT	Carton	HARDWIRED
CU	Cup	NR
CV	Cover	NR
CW	Hundred Pounds (CWT)	HADWIRED
CX	Coil	NR
CY	Cubic Yard	NR
CZ	Combo	NR
DA	Days	NR
DB	Dry Pound	NR
DC	Disk (Disc)	NR
DD	Degree	NR
DE	Deal	NR
DF	Dram	NR
DG	Decigram	NR
DI	Dispenser	NR
DK	Kilometers	NR
DL	Deciliter	NR
DM	Decimeter	NR
DP	Dozen Pair	NR
DR	Drum	HARDWIRED
DS	Display	NR
DT	Dry Ton	NR
DZ	Dozen	HARDWIRED
E3	Inches, Fraction-Average	NR
E4	Inches, Fraction-Minimum	NR
E5	Inches, Fraction-Actual	NR
E7	Inches, Decimal-Average	NR
E8	Inches, Decimal-Actual	NR
EA	Each	HW/PI/REP
ED	Inches, Decimal-Nominal	NR
EF	Inches, Fraction-Nominal	NR
EM	Inches, Decimal-Minimum	NR
EV	Envelope	NR
EX	Feet, Inches and Fraction	NR
EY	Feet, Inches and Decimal	NR
EZ	Feet and Decimal	NR
FA	Fahrenheit	NR
FO	Fluid Ounce	NR
FP	Pounds Per Square Foot	NR
FT	Foot	HARDWIRED
GA	Gallon	HARDWIRED
GB	Gallons/Day	NR
GI	Imperial Gallons	NR
GM	Grams Per Square Meter	NR
GR	Gram	NR
GS	Gross	NR
GY	Gross yard	NR
GZ	Gauge Systems	NR
HA	Hank (100 Feet of Rope)	NR
HB	Hundred Boxes	NR
HD	Half Dozen	HARDWIRED
HF	Hundred Feet	NR
HG	Hectogram	NR
HH	Hundred Cubic Feet	NR
HK	Hundred Kilograms	NR
HP	Hundred Pounds	NR
HR	Hours	NR
HS	Hour	NR
HT	Half Hour	NR
HU	Hundred	NR
HV	Hundred Weight (Short)	NR
HW	Hundred Weight (Long)	NR
HY	Hundred Yards	NR
IN	Inch	HARDWIRED

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355 Continued

JB	Jumbo	NR
JO	Joint	NR
JR	Jar	NR
JU	Jug	NR
KA	Cake	NR
KE	Keg	NR
KG	Kilogram	NR
KH	Kilowatt Hour	NR
KI	Kilograms/Millimeter Width	NR
KL	Kilograms/Meter	NR
KM	Kilograms/Square Meter, Kilograms, Decimal	NR
KN	Kilometer	NR
KT	Kit	NR
KV	Kelvin	NR
KW	Kilogram Per Millimeter	NR
LB	Pound	HARDWIRED
LC	Linear Centimeter	NR
LE	Lite	NR
LF	Linear Foot	HARDWIRED
LG	Long Ton	HARDWIRED
LH	Labor Hours	NR
LI	Linear Inch	NR
LK	Link	NR
LM	Linear Meter	NR
LN	Length	NR
LO	Lot	HARDWIRED
LP	Pounds Per Cubic Inch	NR
LR	Layer	NR
LS	Lump Sum	NR
LT	Liter	NR
LY	Linear Yard	NR
M2	Millimeter-Actual	NR
M3	Mat	NR
M6	Milligrams/Square Inch	NR
MA	Machine/Unit	NR
MB	Millimeter-Nominal	NR
MC	Micogram	NR
ME	Milligram	NR
MF	Thousand Feet	NR
MG	Metric Gross Ton	NR
MH	Microns	NR
MI	Metric	NR
MJ	Minutes	NR
ML	Millileter	NR
MM	Millimeter	NR
MN	Netric Net Ton	NR
MO	Months	NR
MP	Metric Ton	NR
MQ	1000 Meters	NR
MR	Meter	NR
MS	Square Millimeter	NR
MT	Metric Long Ton	NR
MU	Millicurie	NR
MV	Number of Mults	NR
MW	Metric Ton Kilograms	NR
MX	Mixed	NR
MY	Millimeter-Average	NR
MZ	Millimeter-Minimum	NR
NB	Barge	NR
NC	Car	NR
NL	Load	NR
NN	Train	NR
NR	Container	NR
NT	Trailer	NR
NV	Vehicle	NR
OL	Ounce-Liquid	NR
OT	Overtime Hours	NR
OZ	Ounce-Average	NR

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355 Continued

P1	Percent	NR
P2	Pounds Per Foot	NR
P4	Four-Pack	NR
P5	Five-Pack	NR
P8	Eight-Pack	NR
PA	Pail	NR
PB	Pair Inches	NR
PC	Piece	HW/PI/REP
PD	Pad	NR
PE	Pound Equivalent	NR
PF	Pallet (lift)	HARDWIRED
PG	Pounds Gross	NR
PH	Pack (PAK)	NR
PI	Pitch	NR
PJ	Pounds, Decimal – Pounds/Square Foot – Pound Gage	NR
PK	Package	HARDWIRED
PL	Pallet/Unit Load	NR
PM	Pounds-Percentage	NR
PN	Pounds Net	NR
PP	Plate	NR
PR	Pair	HARDWIRED
PS	Pounds Per Square Inch	NR
PT	Pint	HARDWIRED
PW	Pounds Per Inch of Width	NR
PX	Pint, Imperial	NR
PY	Peck, Dry U.S.	NR
PZ	Peck, Dry Imperial	NR
QD	Quarter Dozen	NR
QR	Quire	NR
QS	Quart, Dry U.S.	NR
QT	Quart	HARDWIRED
QU	Quart, Imperial	NR
RA	Rack	NR
RD	Rod	NR
RE	Reel	HARDWIRED
RG	Ring	NR
RK	Roll-Metric Measure	NR
RL	Roll	HARDWIRED
RM	Ream	HARDWIRED
RN	Ream-Metric Measure	NR
RO	Round	NR
SA	Sandwich	NR
SB	Square Mile	NR
SC	Square Centimeter	NR
SD	Solid Pounds	NR
SE	Section	NR
SF	Square Foot	NR
SG	Segment	NR
SH	Sheet	NR
SI	Square Inch	NR
SJ	Sack	NR
SL	Sleeve	NR
SM	Square Meter	NR
SN	Square Rod	NR
SO	Spool	HARDWIRED
SP	Shelf Package	NR
SQ	Square	NR
SR	Strip	NR
SS	Sheet-Metric Measure	NR
ST	Set	NR
SU	Short Ton	NR
SW	Skein	NR
SX	Shipment	NR
SY	Square Yard	NR
TA	Tenth Cubic Foot	NR
TB	Tube	NR
TC	Truckload	NR
TD	Therms	NR

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480 Version

Part 1 – Positions 1-6

002000	Standards Approved by ANSI in February 1986	HW/PI/REP
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Part 2 – Positions 1-6

T10100	TCIF Guideline issue 1, release 0	HW/PI/REP
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560 Special Services Codes

AC	Acid (Battery)	NR
AJ	Adjustments	NR
AM	Additional Material	NR
AP	Anodizing Charge	NR
AS	Assembly Charge	NR
AT	Handling Charge Tax	NR
BF	Both – Flat	NR
BP	Broken Package Charge	NR
C00100	Cancellation Charge	NR
C0012	Capping	NR
C0032	Coating (Dip, Rustproof)	NR
C0036	Certificate of Conformance	NR
C0038	Certificate of Origin	NR
C0072	Crating	NR
C0090	Cutting Charge	NR
CD	Car Loading	NR
CF	Container Deposits	NR
CH	Core Charge	NR
CK	COD Charge	NR
CP	Competitive Price	NR
CZ	Cable Pressurization	NR
DL	Delivery	NR
EC	Engineering charge	HARDWIRED
EG	Engraving	NR
EI	One Time Engineering Charge	NR
EN	Enclosure	NR
EP	Expediting Premium	NR
F0011	F.E.T. (Precent)	NR
F0012	F.E.T. (Dollar Value)	NR
F0014	Fabrication Charge	NR
F0018	F.E.T. Tires	NR
FI	Finance Charge	NR
FR	Flat Rate	NR
G0052	Government Inspection	NR
GF	Gold Factor	NR
GP	Gas Pressure	NR
HS	Hauling & Hoisting	HARDWIRED
I0012	Installation	HARDWIRED
I0021	Inspection	NR
I0022	Identification	NR
IA	Invoice Adjustment	NR
ID	Inside Delivery Charge	NR
IN	Insurance	NR
IP	Item Percentage	NR
IR	Installation and Training	NR
IU	Item – Unit	NR
L0010	Labor Charges (No Trouble Found)	REPAIR
L0012	Labor (Repair & Return)	REPAIR
L0020	License Fee	NR
L0022	Licensing Fee	NR
LA	Labeling	NR
LD	Lead Factor	NR
M0024	Mileage Fee (for Repair and Return)	NR
M0030	Minimum Order/Minimum Billing Charge	NR
M0040	Monthly Rental	NR
M0042	Mounting	NR
N0020	Non-Returnable Container	NR
OC	Option Charge (Color/Fabric – Office Furniture)	NR

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560 Continued

OF	Order – Flat	NR
P0020	Premium Charge	NR
P0024	Premium Transportation	NR
PC	Packaging Service	NR
PE	Pulling Eyes	NR
PF	Proof and Composition	NR
PL	Palletizing	NR
PM	Precious Metal Content	NR
PN	Pallet Charge	NR
PO	Per Order Charge	NR
R0072	Repair	NR
R0076	Returnable Container	NR
R0090	Restocking Charge	NR
R0110	Rework	NR
RC	Reel Cable	NR
RD	Reel Deposit	NR
RF	Refurbishing Charge	NR
RP	Repair Charge	NR
S0010	Shipping & Handling	NR
S0012	Service Charge (With Cash Discount)	NR
S0054	Source Inspection	NR
S0056	Strapping	NR
SA	Salvage	HARDWIRED
SE	Service Charge	HARDWIRED
SF	Spool Charge	NR
SL	Select Charge	NR
SO	Pool Wood – Service Charge	NR
ST	Sales Tax (State & Local)	HW/PI/REP
SU	Set-Up	NR
T0012	Tank Rental	NR
T0022	Tax on Transportation	NR
T0062	Testing Service	NR
T0084	Transportation and Set-up	NR
T1	One Time Tooling	NR
TB	Transportation (Direct Billing)	HW/PI/REP
TD	Trade Discount	NR
TM	Tax on Miscellaneous Charge	NR
TT	Transportation (Third Party)	HW/PI/REP
TU	Transportation (Minimum Rate)	NR
TV	Transportation (Vendor Provided)	HW/PI/REP
VP	Vehicle Preparation Charge (Courtesy Delivery)	NR
WH	Warehousing	HARDWIRED

562 Schedule Code

BK	Ship Partial-Balance Back Order	NR
CD	Cancel This Delivery By This Date	NR

563 Back-Order Code

CS	Cancel If Not Shipped by This Date	NR
DA	Do Not Deliver After	NR
DB	Do Not Deliver Before	NR
DD	Deliver On Date	NR
FT	Ship Full Truck Only	NR
IS	Substitute Item	NR
P1	No Schedule Established	NR
P2	ASAP-Ship As Soon As Possible	NR
P3	May Preship	NR
P4	Do Not Preship	NR
SA	Do Not Ship After	NR
SB	Do Not Ship Before	NR
SC	Ship Complete	NR
SD	Ship Due	NR
SF	Ship Partial, If No Freight Rate Increase	NR
SL	Ship Partial, Carload Lots Only	NR
SP	Ship Partial, Balance Cancel	NR
SQ	Ship Partial, Item Only, Proportional to Total Order	NR

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563 Continued

ST	Ship Partial, Truckload Lots Only	NR
SU	Ship Partial, Balance Substitute	NR
N	No Back Order	NR
Y	Back Order If Out Of Stock	NR

564 Do-Not-Exceed Action Code

0	Cancel Balance Of Order/Item That Exceeds Value Specified in Data Element 565	NR
1	Cancel Entire Order/Item	NR

566 Product/Service Substitution Code

B0	No Substitution Allowed	NR
Y	Alternative Item Substitution Allowed	NR

587 Acknowledgment Purpose

AC	Acknowledge – With Detail and Change	NR
AD	Acknowledge – With Detail and No Change	NR
AE	Acknowledge – With Exception Detail Only	NR
AH	Acknowledge – Hold Status	NR
AK	Acknowledge – No Detail or Change	NR
RJ	Rejected P.O. – No Detail	NR

639 Basis of Unit Price Code

HP	Price Per Hundred	HARDWIRED
LC	Catalog Price Per Hundred	NR
LE	Catalog Price Per Each	NR
LM	Catalog Price Per Thousand	NR
PE	Price Per Each	HW/PI/REP
QE	Quoted Price Per Each	NR
QH	Quoted Price Per Hundred	NR
QS	Quoted Price Per Thousand	NR
RC	Retail Price Per Hundred	NR
RE	Retail Price Per Each	NR
RM	Retail Price Per Thousand	NR
TC	Contract Price Per Hundred	HARDWIRED
TE	Contract Price Per Each	HW/PI/REP
TM	Contract Price Per Thousand	HARDWIRED
TP	Price Per Thousand	HARDWIRED
WC	Wholesale Price Per Hundred	NR
WE	Wholesale Price Per Each	NR
WM	Wholesale Price Per Thousand	NR

640 Invoice Type

BB	Billback	NR
CA	Cash	NR
CI	Consolidated Invoice	NR
CO	Corrected	NR
CR	Credit Memo/Invoice	NR
DR	Debit Memo/Invoice	NR
DU	Duplicate	NR
EB	Engineering Final Bill	HARDWIRED
EF	Engineering, Installation Right to Use, Final Bill	NR
EI	Engineering, Installation, Final Bill	NR
ER	Engineering, Right to Use, Final Bill	NR
IB	Installation Final Bill	HARDWIRED
IF	Material, Engineering, Installation, Final Bill	NR
IR	Installation, Right to Use, Final Bill	NR
IU	Material, Installation, Right to Use, Final Bill	NR
MB	Material Final Bill	HW/PI
ME	Memorandum	NR
MF	Material, Engineering, Final Bill	NR
MI	Material, Installation, Final Bill	NR
MR	Material, Right to Use, Final Bill	NR

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640 Continued

PB	Partial Bill	NR
PR	Product (or Service)	NR
RB	Right to Use Final Bill	HARDWIRED
RF	Material, Engineering, Right to Use, Final Bill	NR
UF	Material, Engineering, Installation, Right to Use Final Bill	HARDWIRED

661 Configuration Code

A	Added to the Configuration	NR
D	Deleted from the Configuration	NR
I	Included in the Configuration	NR

662 Subline Price Change Code ID

A	Added to the Baseline Item Unit Price	NR
I	Included in the Baseline Item Unit Price	NR
S	Subtracted from the Baseline Item Unit Price	NR

668 Line Item Status Code

AC	Item Accepted and Shipped	NR
AR	Item Accepted and Released for Shipment	NR
DR	Item Accepted – Date Rescheduled	NR
IA	Item Accepted	NR
IB	Item Backordered	NR
IC	Item Accepted – Changes Made	NR
ID	Item Deleted	NR
IH	Item on Hold	NR
IP	Item Accepted – Price Changed	NR
IQ	Item Accepted – Quantity Changed	NR
IR	Item Rejected	NR
IS	Item Accepted – Substitution Made	NR

669 Currency Market/Exchange Code

IMF	International Monetary Fund	NR
LNF	London (England) Exchange – First Closing	NR
LNS	London (England) Exchange – Second Closing	NR
NYC	New York Foreign Exchange	NR
PHI	Philadelphia Foreign Exchange	NR
ZUR	Zurich (Switzerland) Exchange	NR

670 Line Item Change Type

AI	Add Item	NR
DI	Delete Item	NR
NC	No Change	NR
QD	Quantity Decrease	NR
QI	Quantity Increase	NR
RE	Replacement Item	NR
RS	Reschedule	NR

704 Interchange I.D. Qualifier

01	Dun and Bradstreet (Credit Reporting) (DUNS)	HW/PI/REP
02	Standard Carrier Alpha Code (Motor) (SCAC)	NR
03	Federal Maritime Commission (Ocean) (FMC)	NR
04	International Air Transport Association (IATA)	NR
05	SIRET	NR
07	Dock	NR
08	Vendor UPC Code	NR
09	DUNS Number with 4 digit suffix	NR
10	Department of Defense Active Agency Code (DODAAC)	NR
11	Drug Enforcement Administration (DEA)	NR
12	Telephone Number (Phone)	NR
13	Federal Reserve Routing Code (FRRC)	NR

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704 Continued

14	International European Article Number (EAN) (Vendor Portion)	NR
15	Standard Address Number (SAN)	NR
16	Zip Code	NR
21	Health Care Industry I.D. Number	NR
22	Branch	NR
91	Assigned by Seller or Seller's Agency	HW/PI/REP
92	Assigned by Buyer	HW/PI/REP

715 Test Indicator

A	The Transmitted functional group is accepted. An acceptance of a functional group is an acceptance of all transaction sets in that functional group.	NR
E	The transmitted functional group is accepted, but errors are noted. This means that the sender must not resend this data.	NR
P	Part of the transmitted functional group is accepted by transaction set.	NR
R	The transmitted functional group is a rejection of all transaction sets in that functional group. Depending on the error reason, the sender may resend this data.	NR

716 Functional Group Note Code

1	This functional group type is not supported.	NR
2	This version of the functional group is not supported.	NR
3	The functional group trailer is missing	NR
4	The data interchange control number in the header and trailer do not match. The value from the header is used in the acknowledgment.	NR
5	The number of included sets does not match the actual count.	NR

717 Set Acknowledge Code

A	The transmitted transaction set is accepted.	NR
E	The transmitted transaction set is accepted, but errors are noted. This means that the sender must not resend this data.	NR
R	The transmitted set is rejected. Depending on the error reason, the sender may resend this data.	NR

718 Transaction Set Note Code

1	This transaction set type is not supported.	NR
2	The transaction set trailer is missing.	NR
3	the transaction set control number in the header and trailer do not match. The value from the header is used in the acknowledgment.	NR
4	The number of included segments does not match the actual count.	NR
5	One or more segments are in error.	NR

720 Segment Note Code

1	Unrecognized segment ID.	NR
2	Unexpected segment.	NR
3	Mandatory segment missing.	NR

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723 Data Element Note Code

1	Mandatory element missing	NR
2	Conditional element missing but needed here	NR
3	Too many elements	NR
4	Element too short	NR
5	Element too long	NR
6	Bad Character in element	NR
7	Bad code in ID type	NR

748 Test Indicator

P	Production Data	HW/PI/REP
T	Test Data	HW/PI/REP

749 Acknowledge Requested

0	No acknowledge requested	HW/PI/REP
1	Interchange acknowledge requested	HW/PI/REP