

A

AVNET Appendix BIBLIOGRAPHY

There are a number of documents referenced throughout the AVNET Implementation Guide that you may wish to obtain for work on this project or for other EDI programs. The following are the key publications used in the standards arena and the organizations from which they may be ordered.

An Introduction to Electronic Data Interchange Booklet and ANSI ASC X12 Standards for Electronic Data Interchange Draft Version 3 Release 1 (Document No. ASC X12S/90-850)

Manager, Publications

Data Interchange Standards Association, Inc.

Suite 355, 1800 Diagonal Road
Alexandria, VA 22314-2852 USA
tel. (703) 548-7005

UN/EDIFACT DOCUMENTATION:

ISO 9735 -- UN/EDIFACT Application Level Syntax Rules
1991 Status 1 Messages and Directories D95B

Contact your regional EDIFACT Board.

PIPENET—PIDX Standard 1116

Electronic Data Interchange Guidelines for the Pipeline Industry

PIDX

1220 L Street, N.W.
Washington, DC 20005 USA
tel. (202) 682-8000

IATA Airline Code List

International Air Transport Association

2000 Peel Street
Montreal, Quebec
Canada H3A 2R4
tel. (514) 844-6311

Other Regional Secretariat Information:

African Secretariat:

Mr. Pacome Moubelet-Boubeya
Cabinet de Secretaire Generale du Gouvernement
B.P. 91 Libreville
GABON
Tel. +241 76 36 52
Fax. +241 76 58 38
Rapporteur:
Mr. P. Moubelet-Boubeya

Asia Secretariat:

Ms. Rie Sakamota
Chief, The Management Section
JASTPRO
Daiichi-Daimon Bldg.
2-10-1 Shibadaimon, Minato-ku
Tokyo 105
JAPAN
Tel. +81 3 3437 6135
Fax. +81 3 3437 6136
Rapporteur:
Mr. Kenji Itoh

Australia/New Zealand Secretariat:

Ms. Gail Martin
ANZ EDIFACT Board
Standards Australia
P.O. Box 1055
Strathfield NSW 2140
AUSTRALIA
Tel. +61 2 746 4122
Fax. +61 2 746 4123
Rapporteur:
Mr. Harvey Bates

Central & Eastern European Secretariat:

Dr. Slavcho Manolov
Central & Eastern European EDIFACT Board
c/o Bulgarian Chamber of Commerce
11-a Saborna Street
BG-1000 Sofia
BULGARIA
Tel. +359 2 876 142
Fax. +359 2 873 209
Rapporteur:
Mr. B. Georgiev

European Board for EDI Standardization (EBES) Secretariat:

Mr. Alain Dechamps
EBES c/o CEN
Rue de Stassart 36
B-1050 Brussels
BELGIUM
Tel. +32 2 550-08 67
Fax. 32 2 550 08 19
Rapporteur:
Mr. Rory Power

B STRUCTURE OF AN EDI TRANSMISSION

B.1 ASC X12

The ASC X12 standard defines interchange control structures for the electronic interchange of one or more encoded business transactions including the EDI encoded transactions of ASC X12. The standard provides the interchange envelope of a header and trailer for the electronic interchange through a data transmission, and it provides a structure to acknowledge the receipt and processing of this envelope.

The interchange header and trailer segments envelope one or more functional groups or interchange-related control segments and perform the following functions:

- define the data element separators and the data segment terminators (for ASC X12, these are generally defined as “*” and “N/L” respectively;

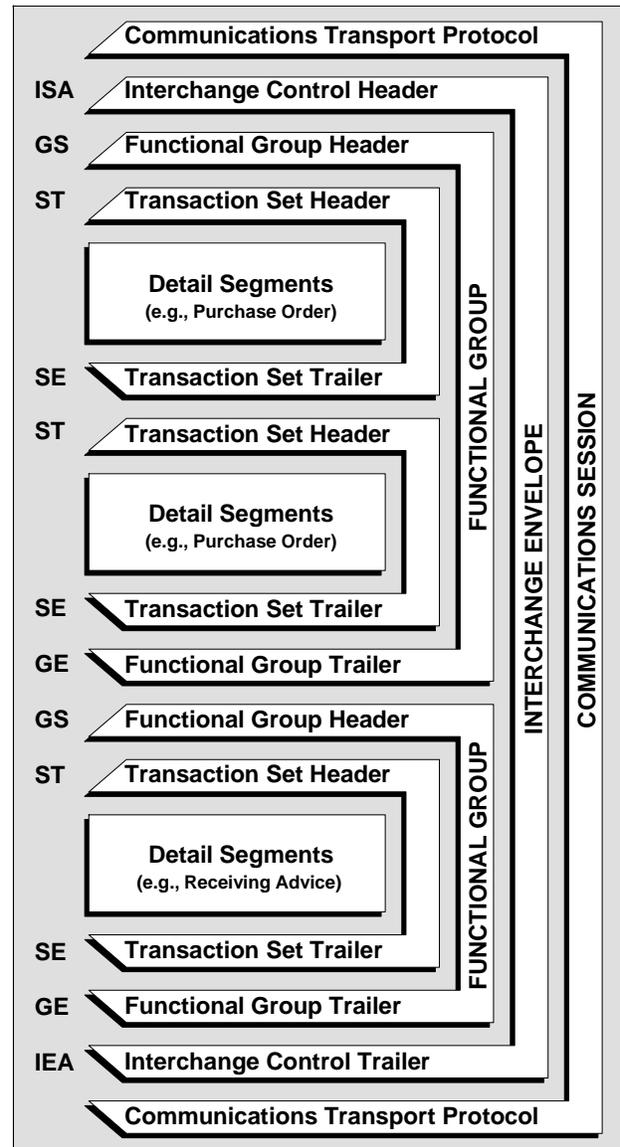
- identify the sender and receiver;

- provide control information for the interchange; and,

- allow for authorization and security information.

To allow transaction sets of different types to be transmitted from one party to another in the same transmission, a hierarchical structure of headers and trailers allows the data to be segregated logically for easy interpretation by the receiver.

Transaction sets begin with an “ST” header and end with an “SE” trailer. The use of these segments is contained within the individual transaction sets mapped in this Implementation Guide.



B.2 UN/EDIFACT

Several transaction sets of the same type may be “functionally grouped” together by beginning such a group with a “GS” header and ending the group with a “GE” trailer.

One or more functional groups are bound together for transmission within an interchange “envelope” made up of an “ISA” header and an “IEA” trailer.

The schematic, on the previous page, illustrates a typical format for electronically transmitting a series of diverse business transactions.

For a detailed explanation of the ASC X12 Interchange and Application Control Structures, see ASC X12 Draft Version 3 Release 1 (Document Number ASC X12S/90-850).¹

The Service String Advice, UNA, and the service segments UNB to UNZ shall appear in the order stated below in an interchange. There may be several functional groups or messages within an interchange and several messages in a functional group.

An interchange consists of:

NAME	SEG TAG	REQUIREMENT
Service String Advice	UNA	Conditional
Interchange Header	UNB	Mandatory
Functional Group Header	UNG	Conditional
Message Header	UNH	Mandatory
User Data Segments		As required
Message Trailer	UNT	Mandatory
Functional Group Trailer	UNE	Conditional
Interchange Trailer	UNZ	Mandatory

In addition to the above service segments, the service segment UNS can when required, be used to divide a message into sections.

Examples illustrating segment sequences:

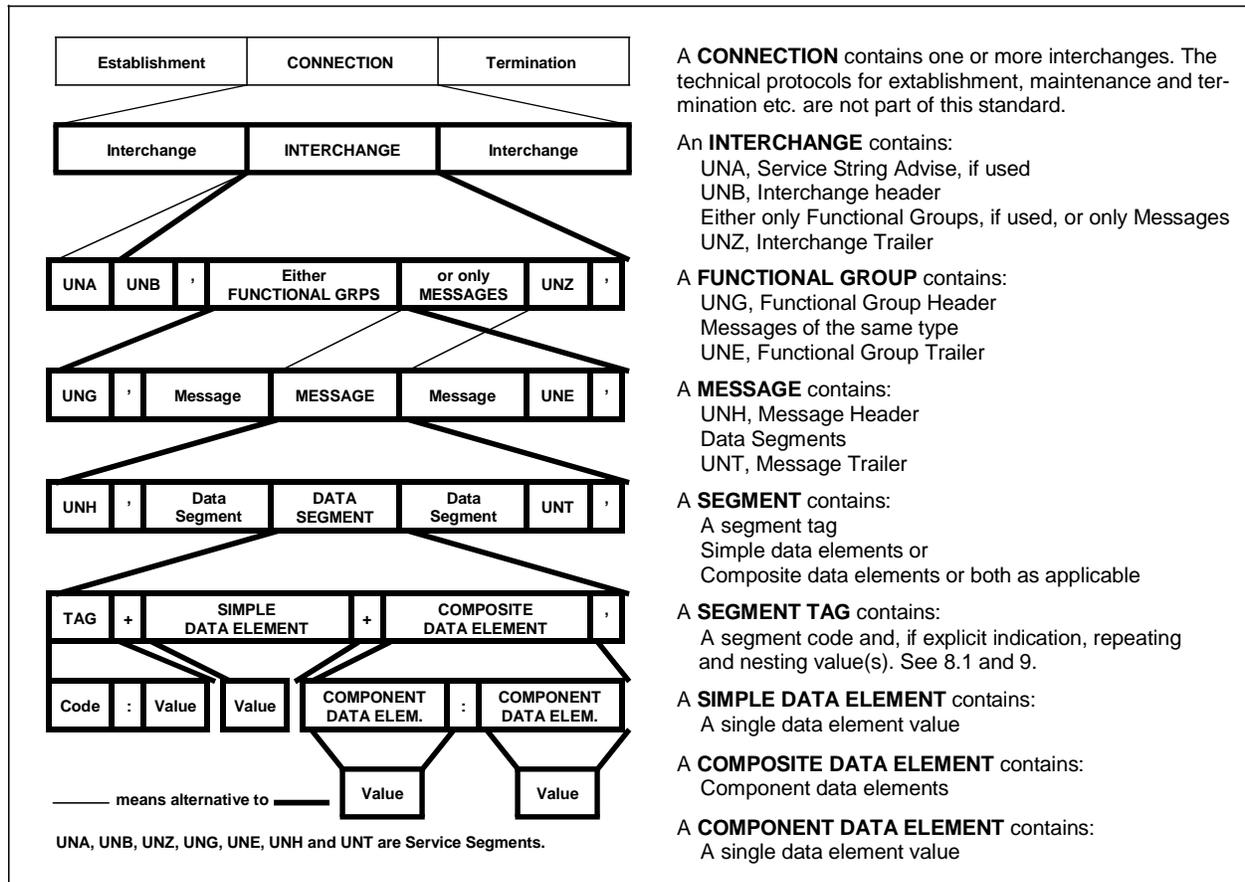
A single message within a functional group:
UNA UNB UNH ... Data Segments ... UNT UNE UNZ

A single message without functional grouping:
UNA UNB UNH .. Data Segments ... UNT UNZ

A single message without functional grouping and without UNA:
UNB UNH .. Data Segments ... UNT UNZ

The schematic on the following page illustrates the hierarchical structure of an interchange

¹ Available from Washington Publishing Company, 806 West Diamond Avenue, Gaithersburg MD 20878, tel. (800) 972-4334 or (301) 590-9337.



A **CONNECTION** contains one or more interchanges. The technical protocols for establishment, maintenance and termination etc. are not part of this standard.

An **INTERCHANGE** contains:
UNA, Service String Advise, if used
UNB, Interchange header
Either only Functional Groups, if used, or only Messages
UNZ, Interchange Trailer

A **FUNCTIONAL GROUP** contains:
UNG, Functional Group Header
Messages of the same type
UNE, Functional Group Trailer

A **MESSAGE** contains:
UNH, Message Header
Data Segments
UNT, Message Trailer

A **SEGMENT** contains:
A segment tag
Simple data elements or
Composite data elements or both as applicable

A **SEGMENT TAG** contains:
A segment code and, if explicit indication, repeating and nesting value(s). See 8.1 and 9.

A **SIMPLE DATA ELEMENT** contains:
A single data element value

A **COMPOSITE DATA ELEMENT** contains:
Component data elements

A **COMPONENT DATA ELEMENT** contains:
A single data element value

C CODE LISTS

Appendix C contains 5 code lists:

- PIDX Refined Product Codes
- Packaged Codes
- Special Charge Codes
- Standard ISO Currency Codes
- Unit of Measure Codes

PIDX Refined Product Codes

- | | | | |
|----|---|----|--|
| 1 | Crude Oil | 35 | Crude Oil - Foreign Mixed |
| 2 | Crude Oil - Sweet | 36 | Crude Oil - Foreign Heavy |
| 3 | Crude Oil - Sour | 37 | Crude Oil - Foreign Heavy Sweet |
| 4 | Crude Oil - Intermediate | 38 | Crude Oil - Foreign Heavy Sour |
| 5 | Crude Oil - Mixed | 39 | Crude Oil - Foreign Heavy Intermediate |
| 6 | Crude Oil - Heavy | 40 | Crude Oil - Foreign Heavy Mixed |
| 7 | Crude Oil - Heavy Sweet | 41 | Crude Oil - Foreign Light |
| 8 | Crude Oil - Heavy Sour | 42 | Crude Oil - Foreign Light Sweet |
| 9 | Crude Oil - Heavy Intermediate | 43 | Crude Oil - Foreign Light Sour |
| 10 | Crude Oil - Heavy Mixed | 44 | Crude Oil - Foreign Light Intermediate |
| 11 | Crude Oil - Light | 45 | Crude Oil - Foreign Light Mixed |
| 12 | Crude Oil - Light Sweet | 46 | Natural Gas |
| 13 | Crude Oil - Light Sour | 47 | Butane Propane Mix |
| 14 | Crude Oil - Light Intermediate | 48 | Natural Gas Liquids (NGL) |
| 15 | Crude Oil - Light Mixed | 49 | Condensate |
| 16 | Crude Oil - Domestic | 50 | Lease Condensate |
| 17 | Crude Oil - Domestic Sweet | 51 | Natural Gas Plant Products |
| 18 | Crude Oil - Domestic Sour | 52 | Ethane |
| 19 | Crude Oil - Domestic Intermediate | 53 | Ethane Propane Mix |
| 20 | Crude Oil - Domestic Mixed | 54 | Propane |
| 21 | Crude Oil - Domestic Heavy | 55 | Butane |
| 22 | Crude Oil - Domestic Heavy Sweet | 56 | Field Butane |
| 23 | Crude Oil - Domestic Heavy Sour | 57 | Normal Butane |
| 24 | Crude Oil - Domestic Heavy Intermediate | 58 | Isobutane |
| 25 | Crude Oil - Domestic Heavy Mixed | 59 | Pentanes Plus |
| 26 | Crude Oil - Domestic Light | 60 | Natural Gasoline |
| 27 | Crude Oil - Domestic Light Sweet | 61 | Natural Gasoline (05-010 Mixture) |
| 28 | Crude Oil - Domestic Light Sour | 62 | Isoentene |
| 29 | Crude Oil - Domestic Light Intermediate | 63 | Plant Condensate |
| 30 | Crude Oil - Domestic Light Mixed | 64 | Refinery Products |
| 31 | Crude Oil - Foreign | 65 | Gasoline |
| 32 | Crude Oil - Foreign Sweet | 66 | Motor Gasoline |
| 33 | Crude Oil - Foreign Sour | 67 | Finished Leaded |
| 34 | Crude Oil - Foreign Intermediate | 68 | Regular Leaded Gasoline, Oxynol Bld |
| | | 69 | Sub Octane Leaded Regular |

70	Leaded Regular w/Unleaded Premium	121	Unleaded Supreme with Ethanol
71	Regular Gasoline 80.0	122	Blending Components
72	Regular Gasoline 80.5	123	Alcohol
73	Regular Gasoline 81.0	124	Gasonol
74	Regular Gasoline 81.5	125	Aviation Gasoline
75	Regular Gasoline 82.0	126	Aviation Gasoline 100/130 low lead
76	Regular Gasoline 82.5	127	Aviation Gasoline 100/130 high lead
77	Regular Gasoline 83.0	128	Aviation Gasoline 80/87
78	Regular Gasoline 83.5	129	Napthas and Special Napthas
79	Regular Gasoline 84.0	130	Jet Fuel
80	Regular Gasoline 84.5	131	Naptha-type (Jet B, JP-4)
81	Regular Gasoline 85.0	132	Jet Fuel, Military, JP4
82	Regular Gasoline 85.5	133	Kerosine-type (Jet A)
83	Regular Gasoline 86.0	134	Jet Fuel, Military, JP5
84	Regular Gasoline 86.5	135	Jet Fuel, Jet A
85	Regular Gasoline 87.0	136	Jet Fuel, Jet A/Non-fungible
86	Regular Gasoline 87.5	137	Jet Fuel, Jet A, Bonded
87	Regular Gasoline 88.8	138	Jet Fuel, Jet A/Diesel
88	Low Lead Regular	139	Jet Fuel, Jet 50A-Deicer
89	Premium Gasoline 90.0	140	Jet Fuel, Commercial Q Grade
90	Premium Gasoline 90.5	141	Jet Fuel, Normal Feed
91	Premium Gasoline 91.0	142	Kerosine
92	Premium Gasoline 91.5	143	Kerosine Special Kero Blend
93	Premium Gasoline 92.0	144	No. 1-K
94	Premium Gasoline 92.5	145	Kerosine, 1-K/Jet A
95	Premium Gasoline 93.0	146	Kerosine 1-K Kerosine
96	Premium Gasoline 93.5	147	No. 2-K
97	Premium Gasoline 94.0	148	Distillate
98	Premium Gasoline 94.5	149	Fuel Oil
99	Premium Gasoline 95.0	150	No. 1 Fuel Oil
100	Premium Gasoline 95.5	151	No. 2 Fuel Oil
101	Premium Gasoline 96.0	152	Heating Oil
102	Premium Gasoline 96.5	153	No. 1 Heating Oil
103	Premium Gasoline 97.0	154	No. 2 Heating Oil
104	Premium Gasoline 97.5	155	No. 2 Htng Oil, low pour
105	Premium Gasoline 98.0	156	No. 2 Htng Oil, 1.0 percent
106	Premium Gasoline 98.5	157	No. 2 Htng Oil, 0.3 percent
107	Premium Gasoline 99.0	158	No. 2 Htng Oil, Industrial Gas Oil
108	Premium Gasoline 99.5	159	No. 2 Htng Oil, Hgh Slf Rsdl #6
109	Finished Unleaded	160	Diesel Fuel
110	Unleaded Regular Sub Octane	161	Low Sulfur Diesel
111	Unleaded 84 Octane	162	No. 1-D
112	Unleaded Regular Mid Octane	163	No. 1 Diesel 45 Centane
113	Unleaded Regular 89 Octane	164	No. 1 Diesel 48 Centane
114	Unleaded Premium (40%) Regular (60%)	165	No. 1 Diesel 49 Centane
115	Unleaded Premium	166	High Centane Diesel 50+ Centane
116	Unleaded Premium 91 Octane	167	No. 2-D
117	Unleaded Premium 92 Octane	168	No. 2 Diesel 40 Centane Index
118	Unleaded Premium 93 Octane	169	No. 2 Diesel 45 Centane Index
119	Unleaded Premium 94 Octane	170	No. 2 Diesel 48 Centane Index
120	Unleaded Blended Ethanol		

171	No. 2 Diesel 49 Centane Index	198	Butylene
172	Railroad Diesel	199	Toluene
173	No. 4-D	200	Petrochemical Feedstocks
174	No. 4 Fuel Oil	201	Naptha-Less than 204 deg.
175	Residual Fuel Oil	202	Other Oils-Over 204 deg.
176	Intermediate Fuel Oil IVF180	203	Miscellaneous Products
177	Intermediate Fuel Oil IVF100	204	Petrolatum
178	Grade No. 5 (Light)	205	Absorption Oils
179	Grade No. 5 (Heavy)	206	Specialty Oils
180	Navy Special	207	Hydraulic fluids
181	Grade No. 6	208	Insulating Oils
182	Residual Fuel Oil #6 Fuel Oil	209	Medicinal Oils
183	Lubricating Oils	210	Rust Preventatives
184	Stock Oils	211	Sand-Frac Oils
185	Bright Stocks	212	Spray Oils
186	Neutral	213	Petroleum Rocket Fuel
187	Other Lub. (Black, red, etc.)	214	Ram-Jet Fuel
188	Asphalt (Cements, Fluxes, Emul.)	215	Unfinished Oils
189	Parafin Wax (Crystalline)	216	Blended Greases and Lubricants
190	Petroleum Coke	217	Undefined Petroleum
191	Marketable	218	Crude Oil - Medium Sweet
192	Catalyst	219	Crude Oil - Medium Sour
193	Road Oil	220	Butane/Propane/Condensate Mix
194	Still Gas (Refinery Gas)	221	Synthetic
195	Liquified Refinery Gases (LRG)	222	MTBE
196	Ethylene	223	Raffinate
197	Propylene	224	Jet Fuel, Jet A-1

Packaged Codes

(UN/ECE Recommendation No. 21 - TDED5.8)

Codes for types of cargo, packages and packaging materials were adopted by the ECE Working Party of Facilitation of International Trade Procedures in Recommendation No. 21 (March 1986). They are intended for use in data interchange between participants in international trade, by automatic interchange methods and also in other applications, e.g. to complement or substitute plain language descriptions in forms used in international trade.

AE Aerosol	CP Carboy,protected
AM Ampoule, non-protected	CT Carton
AP Ampoule, protected	CS Case
AT Atomizer	CK Cask
BG Bag	CH Chest
BL Bale, compressed	CC Churn
BN Bale, non-compressed	CF Coffin
BF Balloon, non-protected	CJ Coffin
BP Balloon, protected	CL Coil
BA Barrel	TD Collapsible tube
BZ Bars, in bundle/bunch/truss	CV Cover
BK Basket	CR Crate
CB Beer crate	CE Creel
BI Bin	CU Cup
BD Board	CY Cylinder
BY Board, in bundle/bunch/truss	DJ Demijohn, non-protected
BB Bobbin	DP Demijohn, protected
BT Bolt	DR Drum
BO Bottle, non-protected, cylindrical	EN Envelope
BS Bottle, non-protected, bulbous	FP Filmpack
BQ Bottle, protected cylindrical	FI Firkin
BV Bottle, protected bulbous	FL Flask
BC Bottlecrate, bottlerack	FO Footlocker
BX Box	FR Frame
BJ Bucket	FD Framed crate
VQ Bulk, liquefied gas (at abnormal temperature/pressure)	FC Fruit crate
VG Bulk, gas (at 1031 mbar and 15/C)	GB Gas bottle
VL Bulk, liquid	GI Girder
VY Bulk, solid, fine particles ("powders")	GZ Girders, in bundle/bunch/truss
VR Bulk, solid, granular particles ("grains")	HR Hamper
VO Bulk, solid, large particles ("nodules")	HG Hogshead
BH Bunch	IN Ingot
BE Bundle	IZ Ingots, in bundle/bunches/truss
BU Butt	JR Jar
CG Cage	JC Jerrican, rectangular
CA Can, rectangular	JY Jerrican, cylindrical
CX Can, cylindrical	JG Jug
CI Canister	JT Jutebag
CO Carboy, non-protected	KG Keg
	LG Log
	LZ Logs, in bundle/bunch/truss
	MC Milk crate
	MB Multiply bag
	MS Multiwall sack

MT	Mat	ST	Sheet
MX	Match box	SM	Sheetmetal
NS	Nest	SZ	Sheets, in bundle/bunch/truss
NT	Net	SW	Shrinkwrapped
PK	Package	SK	Skeleton case
PA	Packet	SL	Slipsheet
PL	Pail	SD	Spindle
PC	Parcel	SU	Suitcase
PI	Pipe	TK	Tank, rectangular
PZ	Pipes, in bundle/bunch/truss	TY	Tank, cylindrical
PH	Pitcher	TC	Tea-chest
PN	Plank	TN	Tin
PZ	Planks, in bundle/bunch/truss	PU	Tray
PG	Plate	PU	Tray pack
PY	Planks, in bundle/bunch/truss	TR	Trunk
PT	Pot	TS	Truss
PO	Pouch	TB	Tub
RT	Rednet	TU	Tube
RL	Reel	TD	Tube, collapsible
RG	Ring	TZ	Tubes, in bundle/bunch/truss
RD	Rod	TO	Tun
RZ	Rods, in bundle/bunch/truss	NE	Unpacked or unpackaged
RO	Roll	VP	Vacuumpacked
SH	Sachet	VA	Vat
SA	Sack	VI	Vial
SE	Sea-chest	WB	Wickerbottle
SC	Shallow crate		

Special Charge Code

003 Account Number Correction Charge	225 Constant Surveillance Service - Armed
005 Activation of Carnet	230 Credit
010 Add on - Destination	235 Customer Account Identification
015 Add on - Origin	240 Customs Broker Fee
020 Address Correction	245 Customs Invoice
025 Advance Destination Amount	250 Customs Invoice - Additional Page
030 Advance Destination Fee	255 Data/Drawing Charge
035 Advance Origin Amount	260 Delivery Surcharge
040 Advance Origin Fee	265 Development Charge
045 Advance Fee	270 Discount - Drop Box/Convenience Ctr.
050 Agent Disbursement - Destination	275 Discount - Incentive
055 Agent Disbursement Fee - Destination	280 Discount - Multiple Shipment
060 Agent Disbursement - Origin	285 Discount - Service Option (Delivery)
065 Agent Disbursement Fee - Origin	290 Discount - Service Option (Pickup)
070 Air Export Certificate	295 Discount - Special
075 Air Express Charge	297 Contingency Credit Charge
080 Air Transportation Charge	300 Distribution Fee
085 Airline Opening Fee	310 Dry Ice
090 Airport Tax - Destination	315 Duty Charge
095 Airport Tax - Origin	320 Endorsement Fee
100 Airport Terminal Handling Charge	325 Eur1 Presentation Fee
105 Acknowledgement of Delivery Fee (AOD)	330 Excess Value Fee
110 Amending Export Documentation	335 Excise Tax - Destination
115 Assembly Fee	340 Excise Tax - Origin
120 Banking Drafts	345 Expedited One Day Consular Service
130 Bond Charge	350 Expedited Shipments
135 Cables (sending of)	355 Extra Copies and Mailings
140 Call Tag	360 Export Customs Clearance
145 Canadian C.Q.Customs Clearance	365 Export Declarations - Automated
150 Canadian Currency Exchange	370 Export Declarations - U.S. Shippers
155 Canadian Import Termination Fee	375 Export License Application
160 Canadian Reconsignment Fee	380 Extra Service - Counter-to-Counter
165 Canadian Remanifest Fee	385 Facsimile Charges
170 Certificate of Origin	390 Facsimile Charges - Additional Pages
175 Certificate of Registration	392 Failed Lamp Panel Charge
180 Chamber of Commerce Service Charge	393 First Article Charge
185 Change of Airbill - Service Fee	395 Free Domicile Shipment Processing
186 Chemical Milling Charge	400 Freight
190 City Terminal Charge	405 Fuel Surcharge
205 Collect Surcharge	410 Government Warehouse Fee - Destination
210 Constant Surveillance Service	
215 Consular Legalization Service	
220 Consularization Fee	

415 Government Warehouse Fee - Origin	620 Recrating/Recoopering - Destination
416 Grain Flow Charge	625 Recrating/Recoopering - Origin
420 Hazardous Materials Handling Fee - Domestic	635 Registration of Export Shipments
425 Hazardous Materials Handling Fee - International	640 Registration of Export for Reentry
426 Heat Treat Charge	641 Reliability Charge
430 IATA Airbill Preparation	645 Restricted Article Fee
435 IATA Fee	650 Repickup
440 Import Service Fee	665 Saturday Delivery
445 Insurance Fee	670 Saturday Pick-Up
450 Inland Transportation	675 Security Signature Service
455 Insurance Premium	680 Service Upgrade
460 International Door-to-Door Handling Fee	685 Special Delivery
462 Incorrect Billing Account Charge	690 Special Handling Service
465 Italian Release Charge	695 Special Pickup
470 Letter of Credit Processing	696 Special Test Equipment Charge
475 Mailing - Postage Cost	697 Special Tooling Charge
480 Mailing - Service Fee	700 Special Vehicle Rent
485 Messenger Service	705 Stamp Fee
490 Minimum Air Transportation Charge	706 Straightening Charge
495 Miscellaneous - Destination	720 Telephone - Destination
500 Miscellaneous - Origin	725 Telephone - Origin
505 Missing Account NBR Charge	730 Terminal Service Fee
510 Offshore - Alaska/Hawaii	731 Test/Qualification Charge
515 On Hand Service	732 Tooling Rework Charge
520 Oversized Premium	735 Tracing Inbound Via Other Carriers
525 Passing Shippers Export Entry	736 Tracing Service Fee
535 Pickup - Out of Area	740 Transfer of Lading Charge
540 Pickup Surcharge	745 Valuation Fee
545 Pre-Positioned Inventory Service	750 Value Added Tax (VAT)
550 Preparation of Air Waybill - Origin	755 Waiting Time
555 Preparation of Canadian Customs Invoice	760 Waybill and Invoice Distribution
560 Preparation of Commercial Invoice	761 Written Proof of Delivery
565 Preparation of Export Entry	762 X-ray Charge
570 Preparation of Insurance Certificate	999 Other (See related description)
580 Priority Service	AAA Advertising Allowance
585 Preparation of U.S. Export Documentation	AAJ Adjustments
586 Processing Charge	AAM Additional Material
590 Rebilled Drayage - Destination	AAN Allowance Non-performance
593 Re-Bill Charge	AAO Allowance Advance
595 Proforma Invoice	AAT Handling Charge Tax
600 Recipient Address Correction	ABC Alcoholic Beverage Report Charge
605 Rebilled Drayage - Origin	ABL Attachments to Bill of Lading Charge
610 Record/Filing	ACD Allegheny County, PA Delivery Charge
615 Recovery Fee	ADH Advance Charges Handling
	ADV Advances
	AFB Additional Copies of Freight Bill

AFC Collect on Delivery Alteration Charge	CBP Competitive Price
ALC Advance Lading Charge	CBR Carrier
AMC Absolute Minimum Charge	CBW Container Allowance
ANS Anodizing Charge	CBX City Sales Tax (Only)
APT Appointment (Notification)	CCA Carrier Credit Allowance
ARB Arbitrary (In Addition to Through Rates and Charges)	CCH Certification Charge
ASC Assembly Charge	CDA Carrier Debit Allowance
BAA Beaming Charge	CDF Cancelled Order, Heavy Duty Flatcar
BAB Brokerage or Duty	CDR Copy of Delivery Receipt Charge
BAC Buyers Car Allowance	CER Container Service Charge UK/EUR
BAD Bad Debt	CGL Canada Great Lakes Additional
BAF Both-Flat	CHG Charges Forward/Advance Charge
BAP Broken Package Charge	CHN Chain and Binders
BAS Base Charge	CIR Special Circus Trains
BBK Break Bulk Surface Charge	CLC Chicago Loop Charge
BDX Bordeaux Arbitraries	CLN Cleaning Charge
BEY Beyond Freight Charges	CLS Container Leasing
bfd Bedding/Feeding/Disinfecting	CMC Concession Money
BLA Bill of Lading Attendancy	CMF City maintenance fee
BLC Bill of Lading Charge	CMI Continuous Mileage
BLD Billed Demand	CMP Camp Arbitrary
BLK Blocking and Bracing Charge	CNS Consolidation
BLW Blower Charge	CNV Converting
BND Bond Charges	COA Commission Amount
BOB Bobtail Charges	COD COD Amount
BRA Basic Reorder Allowance	COF Ocean Freight
BRD Bridge Toll	COL Fee for Collecting COD Charge
CAA Cancellation Charge	COM Combination
CAB Cartage	CON Congestion Surcharge
CAC Cash Discount	COU Consignee Unload
CAD Certification Fee	CRA Cost recovery/adjustment
CAE Co-manufacturing Discount	CRC Core Charge
CAF Competitive Allowance	CRF Cost Recovery Factor
CAG Competitive Car Allowance	CSA Closing & Sealing
CAH Compressor Charge	CSC Contract Service Charge
CAJ Crafting	CSE Customs Entry
CAK Customer Equipment Allowance	CSF Customs Formalities
CAL Cutting Charge	CSR Conservation research fee
CAO Co-op Credit	CTA Container/Trailer Allowance
CAP Car Loading	CTC Container Service Charge USA/Canada
CAQ Contract Escalation	CTF Chassis Transfer
CAR Car Rental	CTG Cartage Charge
CAS Container Deposits	CTL Controlled Atmosphere
CAT Cleaning Charges	CUA Currency Adjustment
CAU COD Charges	CUD Currency Discount
CAV Contract Allowance	CUS Customs Charge
CAW Cooperative Advertising/Merchandising Allowance (Performance)	DAA Deficit Freight
CBL Copy of Bill of Lading Charge	DAB Deposit
CBO Cents Off	DAC Distributor Discount/Allowance

DAD Drum Up Charge	EPC Emergency Port Charge
DAM Damaged Merchandise	EPS Environmental Protection Service
DBD Dockage - Boat Detention	ESA Early Ship Allowance
DCS Disconnect charge	ESC Emergency Service
DCT City Delivery	EUC European Port Charges
DDA Defective Allowance	EVC Excessive Value Charge
DDC Drum Cost	EXC Exclusive Use Charge
DDD Drum Deposit	EXL Extra Length
DDF Dowel Pin Charge	EXM Excess Mileage Charge
DEA Demurrage - Average Agreement	EXP Expedited Service Charge
DEL Delivery Charge	EXS Excess Periods
DEM Demurrage	FAB F.E.T. Federal Excise Tax
DEP Detention of Power Units	FAC F.E.T. (Percent)
DER Derrick Charge	FAD F.E.T. (Dollar Value)
DES Demurrage - Special	FAE Fabrication Charge
DET Detention of Trailers	FAF F.E.T. Tires
DFW Delay Furnishing Destination Weights	FAG Freight Equalization
DIS Distribution Service	FAH Freight Surcharge
DIV Diversion and Reconsignment	FBD Freight, Based on Dollar Minimum
DLH Drayage/Line Haul	FCB Freight Charges to Border
DMC Deadhead Mileage Charge	FCD Freight Charges to Destination
DMD Demand charge	FDL Food and Lodging
DOC Documentation Charge	FFI Finance Charge
DON Deposit in Lieu of Order	FFL Freshness/Leaker Allowance
DRC Drayage	FFN Special Finish Charge
DRP Deramping	FFP Freight Passthrough
DRY Dryer Charge	FFR Flat Rate
DSC Discount	FRC Franchise fee
DSF Detention - Special Type Flat Car	FUE Fuel Charge
DST Container Destuffing	FWA Forwarding Agent Commission
DTA Diversion to Air Charge	FWC Forwarding Charge
DTC Destination Charge	GAR Garment District
DTL Detention Loading	GDR Grain Doors
DTU Detention Unloading	GGA Glaze Allowance
DWC Driver's Wages	GGF Gold Factor
EBD Exhibition Delivery Charge	GPD Gulf Port Delivery Charge
EBP Exhibition Pickup Charge	GRD Groupage Discount
ECC Will Call Charge	HAN Handling Charges on Distribution Freight Forwarded Beyond
EEA Early Buy Allowance	HAZ Hazardous Cargo Charge
EEB Early Payment Allowance	HDF Heavy Duty Flat Car Charge
EEC Escalation	HDG Holding Charge
EED Exclusive Use	HET Heat in Transit Charges
EEF Expediting Fee	HFA Handling Freight At Positions Not Immediately Adjacent To Vehicle Charge
EEG One Time Engineering Charge	HHA Hauling and Hoisting to be Direct Billed
EEH Engineering Charge	HHB Handling
EEP Expediting Premium	HHG Household Goods Pick-up or Delivery
EEX Export Shipping Charge	
EIC Export/Import Charge	
EMS Emergency Surcharge	
ENC Energy charge	
ENS Energy Surcharge (Fuel Adjustment Factor)	

HIC Highway Interchange	LLS Local Sales Tax (All Applicable Sales Taxes by Taxing Authorities Below the State Level)
HOC Hook-up charge	LMC Labor, Modify
HOL Sunday or Holiday Pick-up or Delivery	LNT Labor, No Trouble Found
HOS Hose Charge	LOA Loading (Labor Charges)
HOX Hose Charge Special	LOC Local Delivery/Drayage
HSC High Security Red In-bond Seal Charge	LPC Late payment charge
HUL Heavy Lift	LSC Labor Service
HZS Hazardous Storage	LSH Lashing
IAA Industry Price Allowance	LTC Labor, Test and Calibrate
IAB Income Freight (Manufacturing to Shipping Point)	LUP Locomotive Under Own Power
IAC Inspection Fee	LUS Leaking underground storage tax (LUST)
IDL Inside Delivery	MAA Metals Surcharge
IFC Inbound Freight Charges	MAB Mileage or Travel
IHT Interstate/Highway Toll	MAC Mileage Fee (For Repair and Return)
IIA Invoice Adjustment	MAD Minimum Order/Minimum Billing Charge
IIP Item Percentage	MAE Monthly Rental
IIU Item-Unit	MAR Marriage Rule
ILD Island Delivery Charge	MDM Mount/Demount
ILP Island Pick-Up Charge	MES Escort Service
INC Insurance Surcharge	MFC Manifest Charge
INP Interplant Charge	MFG Manufacturing
INR Interest on refund	MIL Special Mileage Movements
INS Insurance	MIN Minimum Guarantee
IPC Intra-plant Charge	MMC Minimum/Maximum Charge
IPU Inside Pick-up	MMF Mill Freight
IRA Irish Arbitraries	MMS Market Development Funds
ISD Interest on security deposit	MMT Metropolitan Transit Tax
ITC Insulated Tank Charge	MNC Notify Consignee
LAA Labor Charges	MRK Marking or Tagging Charge
LAB Extra Labor (Helper Service)	MSC Other Accessorial Service Charge
LAC Lading Adjustment Charge	MSG Miscellaneous Charge
LAD Labor (Repair and Return Orders)	MTR Meter Charge
LAE License Fee	MVT Venting Instructions
LAT License and Title	NAA Non Generated Freight
LAY Layover Charges	NAB New Store Allowance
LCG Late Order Charge	NAL Nozzle Charge
LCR Labor Cost of Removal	NCH Order Notify Charge
LDA Loading Allowance	NFY Carrier Notification Charge
LDG Loading	NHB N.H.D. Wharfage
LDL Unloading Allowance	NSD New Store Discount
LDS Locomotive Delayed in Switching Service	NWD New Warehouse Discount
LFT Lift Gate (Truck) or Forklift Service at Pick-up/Delivery	NYD New York Delivery Charge
LID Licensing Fee	NYP New York Pick-up Charge
LLC Lot Charge	OAA O.T.O. Charge
LLD Lead Factor	OAB Overrun Charge
LLF Loan Fee	OAC Overtime Loading
	OCH Ocean Charges -- Hazardous

ODF Collect on Delivery Deletion Charge	PRB Prior Balance
ONC On Carriage	PRC Pre-carriage
OOC Option Charge (Color Fabric Office Furniture)	PRE Pre-carriage Excess
OOF Order-Flat	PRL Prelodge Charge
OPC Optional Charge	PRM Premise Use
ORM Out of Route Miles	PRO Processing
OSO Optional Software Support for Operational Support Systems	PSC Protective Service - Cold
OSS Optional Software Support for Switching Systems	PSH Protective Service - Heat
OUT Out of Zone Pick-up or Delivery	PST Postage
OVR Over Dimension	PTC Tobacco Products Report Charge
PAA Percent of Product	PUC Pick-up Charge
PAB Postage Charge	PUD Pick-up and Delivery
PAC Pump Air Charge	PWH Pier Charges - Wharfage
PAD Premium Charge	PWT Pallet Allowance
PAE Premium Transportation	QAA Quantity Surcharge
PAF Price Deviation	QQD Quantity Discount
PAG Professional Fees	RAA Rebate
PAH Promotional Allowance	RAB Reclamation, Federal
PAI Promotional Discount	RAC Reclamation, State
PAJ Pump Charge	RAD Recovery Allowance
PAK Preparation and Delivery	RAE Redistribution Allowance
PBA Prior billing amount	RAF Rental Deduction
PBE Permits Bonds Escort Attendant	RAG Repack Charge
PBL Pier Charges Other Than Wharfage	RAH Retainer
PCH Protective Service Charge	RAI Resellers Discount
PCT City Pick-up	RAJ Restocking Charge
PDB Prior Delivery Of Bill Charge	RAK Royalties
PDC Preloading Charge	RAL Roll Rebate
PEC Pallet Exchange Charge	RAM Ramping
PEN Penalty Charge	RCA No Return Credit Allowance
PER Permit Charge	RCB Repair at buyers expense charge
PIR Pier Pick-up and/or Delivery	RCC Reconsignment Charge
PLC Insurance Placement Cost Charge	RCD Reconsign Consignee Charge
PMU Normal Pump Charge	RCE Repair at customer expense charge
PMX Special Pump Charge	RCG Repair at government expense charge
POD Proof of Delivery	RCL Redelivery
POS Positioning at Origin	RCP Recoopering (at Owner's or Shipper's Expense)
PPC Per Pound Charge	RCS Reconnect charge
PPH Per Item Charge	RDC Reconsign Delivery Charge
PPI Pick/Up Allowance	RDF Research & development fee
PPM Precious Metal Content	REF Refrigeration
PPN Pallet Charge	REG Regulatory tax
PPO Per Order Charge	REP Residential Pick-up
PPR Performance Award	REQ Request Via Canada
PPS Placement and/or Removal Charge	RES Residential Delivery
PPT Parish/County Sales Tax (only)	RET Returned Load
	RGA Regain Allowance
	RGC Regain Charge
	RID Riding Attendant Charge

RLC Rents and Leases	SPL Spool Charge
RLQ Relinquishment Charge	SPP Split Pick-Up at Pier Charge
RMB Rocky Mountain Bureau 583 Item 1100 Arbitrary Charge	SPS Special Freight Supplements
RMD Refrigeration/Mechanical Deten- tion	SPT Spotting of Trailer
ROC Roll Out Adjustment	SPU Split Pick-up
RPC Reduction Prepalletized Cargo	SRG Storage
RRC Reel Cable	SSA Salvage
RRD Reel Deposit	SSB Super Bag Charge
RRF Refurbishing Charge	SSC Stripping, Sorting, and Consoli- dation
RRN Rental Charge	SSF Single Shipment Fee
RRP Repair Charge	SSL Select Charge
RRR Regulatory required refund	SSO Pole, Wood-service Charge
RTC Rate Code	SSP Shipside Pickup
SAA Subject to Cooperative Advertis- ing Allowance	SSS Software Support Service
SAB Shipping and Handling	SST Sales Tax (State and Local)
SAC Service Charge (with Cash Dis- count)	SSX Sales and Use Tax
SAD Scrap Allowance	STF Container Stuffing
SAE Shrink-Wrap Charge	STM Steaming Charge
SAF Special Credit	STP Stopping in Transit
SAG State Motor Fuel	STR Storage in Transit
SAH Stenciling Charge	STW Special tooling rework charge
SAI Super Fund Excise Tax	SUC Special Use
SAJ Surcharge (Dollar Value)	SUF Sufferance Warehouse Charge (Export or Import)
SAK Surcharge (Percentage)	SUP Supervisor Charge
SAM Stopcharge	SUR Surcharge
SAN State Sales Charge	SVA Single Invoice Allowance
SAT Saturday Pick-up or Delivery Charge	SWC Switching Charge
SBC Standby Charge	TAA Telephone Charge
SCC Special Seal Charge	TAB Tank Rental
SCG Small Order Charge	TAC Temporary Allowance
SCL Scale Charge	TAD Tax on Transportation
SCU Scale Charge Unloading	TAE Temporary Voluntary Allowance
SDC Special Detention Charge	TAF Terminal Differential
SDL Split Delivery	TAG Testing Charge
SEC Special Equipment Charge	TAH Tool Charge
SEG Segregating (Sorting)	TAI Testing Allowance
SEL Self Unloader	TAJ Trade In
SER Service Charge	TAK Transportation and Setup
SFT Special Train Movement	TAL Truckload Discount
SGL Single Pick-up	TAX Tax Charge
SHL Shipper Load	TAY Governmental Tax
SLC Street lamps charge	TCM Transportation Charge (Mini- mum Rate)
SOC Stop-off Charge	TDI Truck Detention
SOP Stop-off at Pier Charge	TER Terminal Charge
SPA Special Allowance	TLC Trimming Charge
SPB Special Buy	TOA Total Assessorial Charges
SPC Special Permits	TOC TOFC Service Charge
SPD Spreader Charge	TRC Trailer Rental Charge
	TRF Transfer Charge
	TRN Transit

TRP Process in Transit Privilege	VVP Vehicle Prep Charge (courtesy delivery)
TRU Thruway Charge	WAR War Risk Surcharge
TSC Testing Services Charge	WEA Weather Protection
TST Track Storage	WFH Wharfage & Handling
TTA Tank Car Allowance	WHC Warehouse Charge
TTB Transportation-Direct Billing	WRC Load Weighing Charge
TTD Trade Discount	WRE Empty Weighing Charge
TTL Local Tax	WSA Warehouse Allowance
TTM Tax on Miscellaneous Charges	WTG Waiting Time
TTP Third Party Allowance	WTV Weight Verification Charge
TTR Throughput Allowance	WWC Wharfage Charge
TTS State Tax	ZAA Federal Fuel Tax, Federal or National
TTT Transportation - Third Party Billing	ZAB State Fuel Tax, Provincial or State
TTV Transportation - Vendor Provided	ZAC County Fuel Tax
TUR Turning Charge	ZAD City Fuel Tax, City or Town or Local
TWO Two Door Pick Up	ZAE Federal Sales Tax, Federal or National
UND Unloading	ZAF State Sales Tax, Provincial or State
UNL Unloading (Labor Charges)	ZAG County Sales Tax
URC Unloading/Reloading Charge	ZAH City Sales Tax, City or Town or Local
USF Use - Special Type Flat Car	ZAJ Federal Environmental Tax, Federal or National
USV U.S. Vehicles	ZAK State Environmental Tax, Provincial or State
USW Unabsorbed Switching	ZAL County Environmental Tax
UTP Use charge tooling/personnel	ZAM City Environmental Tax, City or Town or Local
UUC Up Charge	ZFF First Flight Out
UUM Unsalable Merchandise Allowance	
UUT Use Tax	
VAA Vendor Freight	
VAB Volume Discount	
VCR Voluntary contribution charge	
VIT Virgin Island Transfer Charge	
VOR Vehicle Ordered but Not Used	
VVL Vehicle Load Allowance	

Standard ISO Currency Codes

(for the entire list, contact the International Organization of Standardization)

AUD Australian Dollar	ITL (1000) Italian Lira
BEF (10) Belgian Franc	NOK Norwegian Krone
CAD Canadian Dollar	NZD New Zealand Dollar
NLG Netherlands Guilder	PTE (100) Portuguese Escudo
DKK Danish Krone	ESP (100) Spanish Peseta
DEM German Mark	SEK Swedish Krona
GRD (100) Greek Drachma	CHF Swiss Franc
ECU European Currency Unit	SGD Singapore Dollar
FRF French Franc	TRL (100) Turkish Lira
FIM Finnish Markka	GBP United Kingdom Pound
HKD Hong Kong Dollar	USD United States Dollar
JPY (100) Japanese Yen	

Unit of Measure Codes

The 91.1 UN/EDIFACT Directory does not contain a code list for data element 6411 (measure unit qualifier). The following code list is from ASC X12 003010. Use this list for UN/EDIFACT data element 6411 and ASC X12 data element 355.

01	Actual Pounds	85	Foot Pounds
02	Statute Mile	86	Joules
03	Seconds	AA	Ball
04	Small Spray	AB	Bulk Pack
05	Lifts	AC	Acre
08	Heat Lots	AE	Amperes per Meter
10	Group	AM	Ampoule
11	Outfit	AP	Aluminum Pounds Only
12	Packet	AS	Assortment
13	Ration	AY	Assembly
14	Shot	B1	Barrels per Day
15	Stick	B2	Bunks
24	Theoretical Pounds	B3	Batting Pound
26	Actual Tons	B4	Barrel, Imperial
27	Theoretical Tons	B5	Billet
31	Catchweight	B6	Bun
50	Actual Kilograms	B7	Cycles
51	Actual Tonnes	B8	Board
53	Theoretical Kilograms	B9	Batt
54	Theoretical Tonnes	BA	Bale
56	Sitas	BB	Base Box
58	Net Kilograms	BC	Bucket
59	Parts Per Million	BD	Bundle
60	Percent Weight	BE	Beam
61	Parts Per Billion	BF	Board Feet
62	Percent Per 1000 Hours	BG	Bag
63	Failure Rate In Time	BH	Brush
64	Pounds Per Square Inch Gauge	BI	Bar
65	Coulomb (A Unit of Charge)	BJ	Band
66	Oersteds	BK	Book
67	Siemens (A Unit of Admittance)	BL	Block
68	Ampere	BM	Bolt
69	Test Specific Scale	BN	Bulk
70	Volt	BO	Bottle
71	Volt-Ampere Per Pound	BP	100 Board Feet
72	Watts Per Pound	BQ	Brake horse power
73	Ampere Turn Per Centimeter	BR	Barrel
74	Milli Pascals	BS	Basket
75	Cycles	BT	Belt
76	Gauss	BU	Bushel
77	Mil	BV	Bushel, Dry Imperial
78	Kilogauss	BW	Base Weight
79	Electron Volt	BX	Box
80	Pounds Per Square Inch Absolute	BY	British Thermal Unit (BTU)
81	Henry (A Unit of Inductance)	BZ	Million BTU's
82	Ohm (A Unit of Resistance)	C1	Composite Product Pounds (Total Weight)
83	Farad (A Unit of Capacitance)	C2	Carset
84	Kilo Pounds Per Square Inch (KSI)	C3	Centiliter
		C4	Carload

C5	Cost	E9	English, (Feet, Inches)
C6	Cell	EA	Each
C7	Centipoise (CPS)	ED	Inches, Decimal--Nominal
C8	Cubic Decimeter	EF	Inches, Fraction-Nominal
C9	Coil Group	EM	Inches, Decimal-Minimum
CA	Case	EP	Eleven pack
CB	Carboy	EV	Envelope
CC	Cubic Centimeter	EX	Feet, Inches and Fraction
CD	Carat	EY	Feet, Inches and Decimal
CE	Centigrade, Celsius	EZ	Feet and Decimal
CF	Cubic Feet	FA	Fahrenheit
CG	Card	FB	Fields
CH	Container	FC	1000 Cubic Feet
CI	Cubic Inches	FL	Flake Ton
CJ	Cone	FM	Million Cubic Feet
CK	Connector	FO	Fluid Ounce
CL	Cylinder	FP	Pounds per Sq. Ft.
CM	Centimeter	FT	Foot
CN	Can	GA	Gallon
CO	Cubic Meters (Net)	GB	Gallons/Day
CP	Crate	GD	Gross Barrels
CQ	Cartridge	GG	Great Gross (Dozen Gross)
CR	Cubic Meter	GH	Half Gallon
CS	Cassette	GI	Imperial Gallons
CT	Carton	GL	Grams per Liter
CU	Cup	GM	Grams per Sq. Meter
CV	Cover	GN	Gross Gallons
CW	Hundred Pounds (CWT)	GR	Gram
CX	Coil	GS	Gross
CY	Cubic Yard	GY	Gross Yard
CZ	Combo	GZ	Gage Systems
DA	Days	HA	Hank (100 Feet of Rope)
DB	Dry Pounds	HB	Hundred Boxes
DC	Disk (Disc)	HC	Hundred Count
DD	Degree	HD	Half Dozen
DE	Deal	HE	Hundredth of a Carat
DF	Dram	HF	Hundred Feet
DG	Decigram	HG	Hectogram
DH	Miles	HH	Hundred Cubic Feet
DI	Dispenser	HI	Hundred Sheets
DJ	Decagram	HJ	Horsepower
DK	Kilometers	HK	Hundred Kilograms
DL	Deciliter	HL	Hundred Feet - Linear
DM	Decimeter	HM	Miles Per Hour
DO	Dollars, U.S.	HO	Hundred Troy Ounces
DP	Dozen Pair	HR	Hours
DR	Drum	HS	Hundred Square Feet
DS	Display	HT	Half Hour
DT	Dry Ton	HU	Hundred
DZ	Dozen	HV	Hundred Weight (Short)
E3	Inches, Fraction--Average	HW	Hundred Weight (Long)
E4	Inches, Fraction--Minimum	HY	Hundred Yards
E5	Inches, Fraction--Actual	HZ	Hertz
E7	Inches, Decimal--Average	IC	Counts per Inch
E8	Inches, Decimal--Actual	IM	Impressions

IN	Inch	MK	Milligrams Per Square Inch
IT	Counts per Centimeter	ML	Milliliter
JB	Jumbo	MM	Millimeter
JO	Joint	MN	Metric Net Ton
JR	Jar	MO	Months
JU	Jug	MP	Metric Ton
KA	Cake	MQ	1000 Meters
KD	Kilograms Decimal	MR	Meter
KE	Keg	MS	Square Millimeter
KG	Kilogram	MT	Metric Long Ton
KH	Kilowatt Hour	MU	Millicurie
KI	Kilograms/Millimeter Width	MV	Number of Mults
KK	100 Kilograms	MW	Metric Ton Kilograms
KL	Kilograms/Meter	MX	Mixed
KM	Kilograms per Square Meter, Kilograms, Decimal	MY	Millimeter-Average
KN	Kilometer	MZ	Millimeter-minimum
KP	Kilometers Per Hour	NB	Barge
KT	Kit	NC	Car
KV	Kelvin	ND	Net Barrels
KW	Kilograms per Millimeter	NE	Net Liters
LA	Pounds Per Cubic Inch	NG	Net Gallons
LB	Pound	NI	Net Imperial Gallons
LC	Linear Centimeter	NL	Load
LE	Lite	NM	Nautical Mile
LF	Linear Foot	NN	Train
LG	Long Ton	NS	Short Ton (2000 lbs)
LH	Labor Hours	NT	Trailer
LI	Linear Inch	NV	Vehicle
LJ	Large Spray	OA	Panel
LK	Link	ON	Ounces per Square Yard
LM	Linear Meter	OP	Two pack
LN	Length	OT	Overtime Hours
LO	Lot	OZ	Ounce - Av
LP	Liquid Pounds	P1	Percent
LR	Layer(s)	P2	Pounds per Foot
LS	Lump Sum	P3	Three pack
LT	Liter	P4	Four-pack
LY	Linear Yard	P5	Five-pack
M1	Milligrams per Liter	P6	Six pack
M2	Millimeter-Actual	P7	Seven pack
M3	Mat	P8	Eight-pack
M4	Monetary Value	P9	Nine pack
M5	Microcurie	PA	Pail
M7	Micro Inch	PB	Pair Inches
M8	Mega Pascals	PC	Piece
MA	Machine/Unit	PD	Pad
MB	Millimeter-Nominal	PE	Pounds Equivalent
MC	Microgram	PF	Pallet (Lift)
ME	Milligram	PG	Pounds Gross
MF	Milligram per Sq. Ft. per Side	PH	Pack (PAK)
MG	Metric Gross Ton	PI	Pitch
MH	Microns	PJ	Pounds, Decimal - Pounds per Square Foot - Pound Gage
MI	Metric	PK	Package
MJ	Minutes	PL	Pallet/Unit Load

PM	Pounds-Percentage	SX	Shipment
PN	Pounds Net	SY	Square Yard
PO	Pounds per Inch of Length	T1	Thousand pounds gross
PP	Plate	T2	Thousandths of an Inch
PQ	Pages per Inch	T3	Thousand Pieces
PR	Pair	T4	Thousand Bags
PS	Pounds per Sq. Inch	T5	Thousand Casings
PT	Pint	T6	Thousand Gallons
PU	Mass Pounds	T7	Thousand Impressions
PV	Half Pint	T8	Thousand Linear Inches
PW	Pounds per Inch of Width	TA	Tenth Cubic Foot
PX	Pint, Imperial	TB	Tube
PY	Peck, Dry U.S.	TC	Truckload
PZ	Peck, Dry Imperial	TD	Therms
Q1	Quarter (Time)	TE	Tote
QD	Quarter Dozen	TF	Ten Square Yards
QR	Quire	TG	Gross Ton
QS	Quart, Dry U.S.	TH	Thousand
QT	Quart	TI	Thousand Square Inches
QU	Quart, Imperial	TJ	Thousand Sq. Centimeters
RA	Rack	TK	Tank
RD	Rod	TL	Thousand Feet (Linear)
RE	Reel	TM	Thousand Feet (Board)
RG	Ring	TN	Net Ton (2,000 LB).
RK	Roll-Metric Measure	TO	Troy Ounce
RL	Roll	TP	Ten-pack
RM	Ream	TQ	Thousand Feet
RN	Ream-Metric Measure	TR	Ten Square Feet
RO	Round	TS	Thousand Square Feet
RP	Pounds per Ream	TT	Thousand Linear Meters
RU	Run	TU	Thousand Linear Yards
S2	Seconds (time)	TV	Thousand Kilograms
SA	Sandwich	TW	Thousand Sheets
SB	Square Mile	TX	Troy Pound
SC	Square Centimeter	TY	Tray
SD	Solid Pounds	TZ	Thousand Cubic Feet
SE	Section	UN	Unit
SF	Square Foot	VA	Voltampere per Kilogram
SG	Segment	VI	Vial
SH	Sheet	VT	Voltage
SI	Square Inch	WA	Watts per Kilogram
SJ	Sack	WB	Wet Pound
SK	Split Tanktruck	WE	Wet Ton
SL	Sleeve	WG	Wine Gallon
SM	Square Meter	WH	Wheel
SN	Square Rod	WI	Weight per Square Inch
SO	Spool	WK	Week
SP	Shelf Package	WP	Pennyweight
SQ	Square	WR	Wrap
SR	Strip	WT	Wattage
SS	Sheet-Metric Measure	YD	Yard
ST	Set	YL	100 Lineal Yards
SU	Short Ton	YR	Years
SV	Skid	YT	Ten Yards
SW	Skein	ZZ	Mutually Defined

D

MATRICES

The following matrices are intended to further assist AVNET participants in understanding the transaction sets and messages presented in Chapter 10 of the Implementation Guide.

ASC X12

Business Requirement (Section 8.1)	Invoice Segment ID	Price Catalog Segment ID	Delivery Ticket Segment ID
1	REF		REF
2	REF		
3		REF	
4	REF	REF	PRF
5	REF		BSN
6			REF
7	BIG		
8	BIG		
9			REF
10		BCT	
11		BCT	
12			PRF
13			REF
14	REF		
15		BCT	PRF
16			REF
17			BSN
18		BCT	
19	REF		
20			N1
21		N1	N1
22			N1
23	N1		
24	N1		
25	N1	CUR	
26		N1	
27		PER	

Business Requirement (Section 8.1)	Invoice Segment ID	Price Catalog Segment ID	Delivery Ticket Segment ID
28		PER	
29		N1	
30		PER	
31		PER	
32	N1		
33	N1		
34	N1		N1
35	N1	N1	N1
36			N1
37			N1
38			N1
39			MEA
40			N1
41			N1 REF
42			LIN
43	IT1 MEA		MEA
44			LIN REF
45			PID MEA
46			MEA
47			MEA
48			MEA
49			MEA
50			REF
51	PO4		MEA PKG
52	PO4	PO4	MEA PKG
53	IT1	CTP	
54		CTP	
55	IT1	CTP	
56	PID	LIN	LIN
57			MEA
58		ITA	LIN
59			

Business Requirement (Section 8.1)	Invoice Segment ID	Price Catalog Segment ID	Delivery Ticket Segment ID
60			LIN
61	PO4	PO4	PKG
62	DTM		DTM
63			DTM
64			DTM
65			DTM
66	DTM		BSN
67			DTM
68	BIG		
69	ITD		
70	DTM		
71	DTM		
72		DTM	
73		DTM	
74		DTM	
75	DTM		
76			PRF
77			DTM
78			DTM
79	DTM		
80			N4
81			N4
82			N4
83			N4
84			N4
85	N1	N1	N1
86	REF	N1	N1
87			
88		CUR	
89	CUR		
90	CUR	CUR	
91	CUR		

Business Requirement (Section 8.1)	Invoice Segment ID	Price Catalog Segment ID	Delivery Ticket Segment ID
92	CUR		
93	CUR		
94	CUR		
95	CUR	CUR	
96	CUR		
97	IT1		
98	TDS		
99	TDS		
100	TDS		
101	IT1		
102		CTP	
103		CTP	
104		CTP	
105		CTP	
106		CTP ITA	
107	IT1		
108			
109	BIG		
110	IT1		
111	TDS		
112	ITA	ITA	
113	ITA		
114	ITA		
115	TDS		
116	ITD		
117	ITD		
118	IT1		
119	REF		TD3
120			REF
121	REF		REF
122		NTE	
123	CTT	CTT	CTT

Business Requirement (Section 8.1)	Invoice Segment ID	Price Catalog Segment ID	Delivery Ticket Segment ID
124			MEA
125			TD3
126			TD3
127			TD3
128			TD3
129	CAD	LIN	TD3
130			
131	TXI		
132	TXI		
133	TXI	ITA	
134	TXI		
135	TXI		
136	TXI		

UN/EDIFACT

Business Requirement (Section 8.1)	Invoice Group Num/Segment ID	Price Catalog Group Num/Segment ID	Delivery Ticket Group Num/Segment ID
1	25/RFF		
2	25/RFF		1/RFF
3		1/RFF 33/PIA	
4	1/RFF 25/RFF	1/RFF	1/RFF
5	25/RFF		/BGM
6			16/RFF
7	/BGM		
8	/BGM		
9			16/RFF
10		/BGM	
11		/BGM	
12	1/RFF 25/RFF		1/RFF
13			1/RFF
14	1/RFF 25/RFF		

Business Requirement (Section 8.1)	Invoice Group Num/Segment ID	Price Catalog Group Num/Segment ID	Delivery Ticket Group Num/Segment ID
15		1/RFF	
16			1/RFF
17			16/RFF
18	/BGM	/BGM	/BGM
19	3/RFF		
20			2/NAD
21		2/NAD	2/NAD
22			2/NAD
23	2/FII		
24	2/NAD		
25	2/NAD		
26		2/NAD	
27		4/CTA	
28		4/COM	
29		2/NAD	
30		4/CTA	
31		4/COM	
32	2/NAD		
33	2/NAD		
34	2/NAD 30/NAD		2/NAD
35	2/NAD 30/NAD		2/NAD
36			2/NAD
37			2/NAD
38			2/NAD
39			15/MEA
40			15/MEA
41			1/RFF
42			15/ALI
43			15/MEA
44			15/ALI
45	21/QTY		15/MEA
46			15/MEA

Business Requirement (Section 8.1)	Invoice		Price Catalog		Delivery Ticket	
	Group Num/Segment ID		Group Num/Segment ID		Group Num/Segment ID	
47					15/MEA	
48					16/RFF	
49					16/RFF	
50					16/RFF	
51	26/PAC				11/PAC	
52	26/MEA		43/MEA		11/MEA	
53	21/QTY	35/QTY	35/RNG 39/RNG	38/RNG 40/RNG		
54	21/LIN	35/QTY	35/RNG 39/RNG	38/RNG 40/RNG		
55	24/PRI 35/QTY	21/QTY 35/RTE	35/PRI 38/RNG 40/RNG	35/RNG 39/RNG		
56			33/PIA		15/LIN	
57					15/MEA	
58	21/LIN		33/PIA		15/LIN	
59	37/MOA		6/CUX	42/CUX	15/LIN	
60					15/ALI	15/PIA
61	26/PAC		43/PAC		11/PAC	
62	25/DTM				1/DTM	
63					1/DTM	
64					/DTM	
65					/DTM	
66	21/DTM				/DTM	
67					15/DTM	
68	/DTM					
69	8/DTM					
70	/DTM					
71	/DTM					
72			33/DTM			
73			33/DTM			
74			/DTM			
75	21/DTM					

Business Requirement (Section 8.1)	Invoice		Price Catalog		Delivery Ticket	
	Group Num/Segment ID		Group Num/Segment ID		Group Num/Segment ID	
76					1/DTM	
77					15/DTM	
78					1/DTM	
79		/DTM				
80					17/LOC	
81					2/LOC	
82					2/LOC	
83					17/LOC	
84					17/LOC	
85		2/LOC 28/LOC		45/LOC		2/LOC
86		2/LOC 28/LOC		45/LOC		2/LOC
87						
88				6/CUX 42/CUX		
89		7/CUX				
90		7/CUX 22/CUX				
91		7/CUX 22/CUX				
92		7/CUX				
93		7/CUX 22/CUX				
94		44/MOA				
95		22/MOA 22/CUX				
96		44/MOA 46/MOA				
97		22/MOA				
98		44/MOA				
99		44/MOA				
100		44/MOA				
101		22/MOA				
102				35/PRI		
103				35/PRI		
104				35/PRI		
105				35/PRI		
106				38/PCD 39/MOA		
107		24/PRI				

Business Requirement (Section 8.1)	Invoice Group Num/Segment ID	Price Catalog Group Num/Segment ID	Delivery Ticket Group Num/Segment ID
108	/PAI		
109	8/PAT		
110	44/RFF		
111	44/MOA		
112	34/ALC	10/ALC	
113	36/RCD		
114	38/RTE		
115	44/MOA		
116	8/PAT		
117	8/PCD 8/MOA		
118	22/MOA 37/MOA		
119	25/RFF		1/RFF
120			1/RFF
121			1/RFF
122		/FTX	
123	/CNT		
124			16/RFF
125	25/RFF		8/EQD
126			8/EQD
127			8/EQD
128			6/TDT
129	9/TDT 40/TDT	45/TDT	6/TDT
130	42/TOD		
131	29/MOA 39/MOA		
132	6/TAX 29/TAX 39/TAX 46/TAX		
133	6/TAX 29/TAX 39/TAX 46/TAX	5/TAX 34/TAX 41/TAX	
134	44/MOA		
135	44/MOA		
136	46/MOA		

