

A 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.

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- **UN/EDIFACT DOCUMENTATION:**

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

Contact your regional EDIFACT Board.

- **PIPENET—API Standard 1116**

Electronic Data Interchange Guidelines for the Pipeline Industry

American Petroleum Institute

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Washington, DC 20005 USA
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- *IATA Airline Code List*

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B

STRUCTURE OF AN EDI TRANSMISSION

B.1

ASC X12

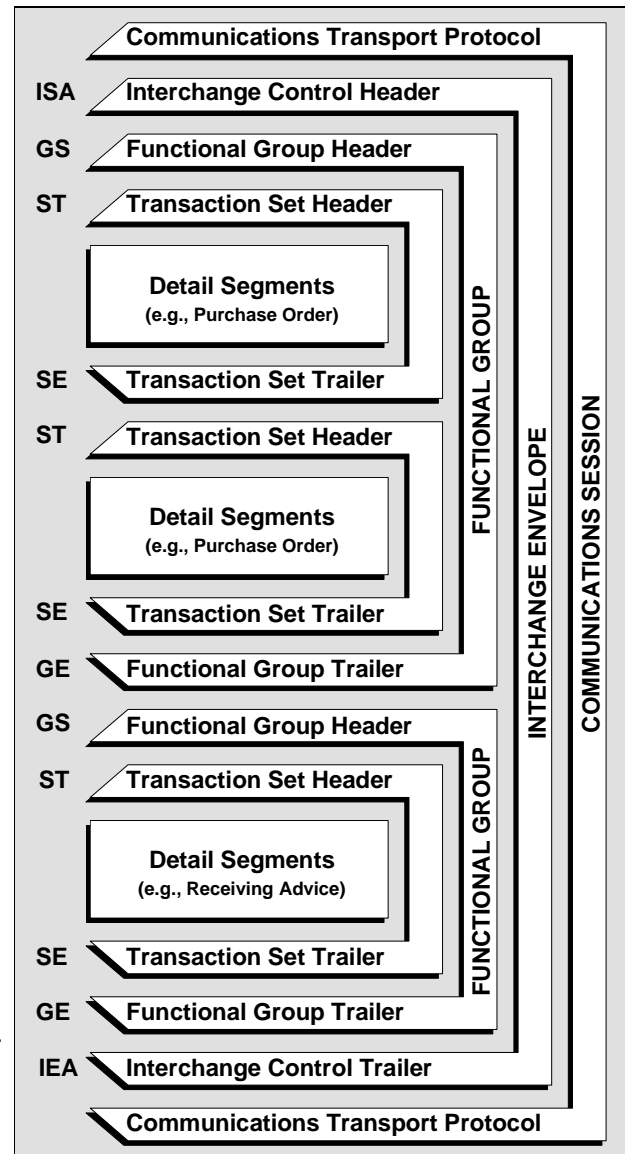
The ASC X12 standard defines interchange control structures for the electronic interchange of one or more encoded business transactions including the EDI encoded transactions of ASC X12. The standard provides the interchange envelope of a header and trailer for the electronic interchange through a data 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.



- 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

B.2 UN/EDIFACT

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 |

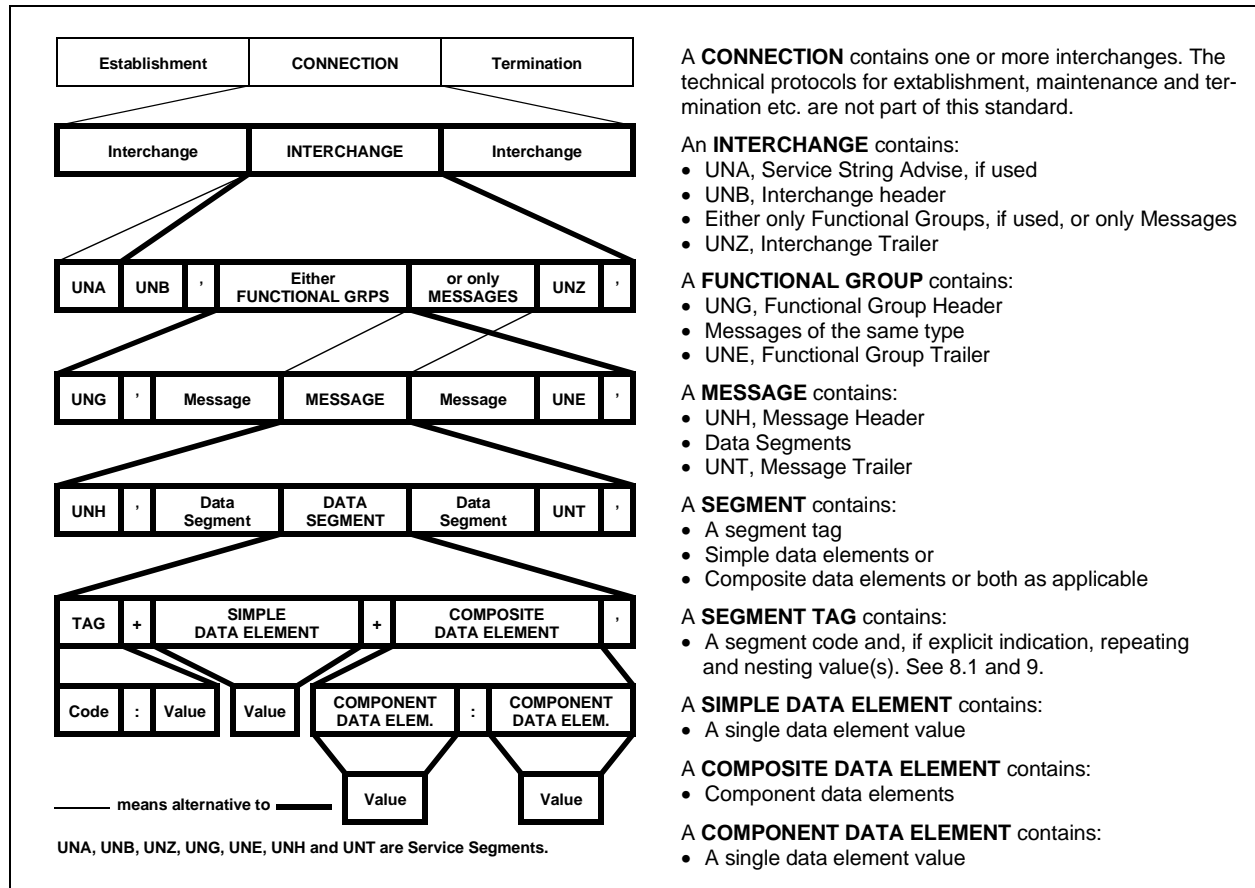
In addition to the above service segments, the service segment UNS can when required, be used to divide a message into sections.

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.



C

CODE LISTS

Appendix C contains 5 code lists:

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

API 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 | Coffer |
| 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 |
| LA A 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 | | |

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| 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 Group Num/Segment ID | | Price Catalog Group Num/Segment ID | | Delivery Ticket 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 38/RNG 39/RNG 40/RNG | | |
| 54 | | 21/LIN 35/QTY | 35/RNG 38/RNG 39/RNG 40/RNG | | |
| 55 | | 24/PRI 21/QTY 35/QTY 35/RTE | 35/PRI 35/RNG 38/RNG 39/RNG 40/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 Group Num/Segment ID | Price Catalog Group Num/Segment ID | Delivery Ticket 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 | | |

