

# ANSI ASC X12 EDI Transactions for Supply Chain and Transportation Logistics



The ANSI ASC X12 standard for [Electronic Data Interchange](#) (EDI), also referred to as ASC X12, is the EDI standard most widely used in the US and Canada. The group that has sponsored it since 1979, the American National Standards Institute Accredited Standards Committee, includes over 3,000 experts from more than 350 countries.

EDI transaction codes, sometimes called transaction sets or T-sets, correspond to a specific type of electronic business document, such as an invoice or a purchase order. There are many different documents that you might exchange with your trading partners, and many more specialized transaction sets that are not used as commonly.

The TrueCommerce EDI Solution supports whatever transaction codes you need, including all the codes defined by the ANSI ASC X12 standard for EDI.

A transaction code is a basic EDI message type. Each EDI transaction code contains one or more data elements, such as a price or phone number. Some data elements are required; others are conditional or optional as specified by the trading partner. Data elements are combined to form data segments. One or more data segments, usually in a specific order and with a header at the front and a trailer at the back, form the complete transaction code. Once a complete transaction code is generated, it is transmitted using a special "electronic envelope" for privacy.

Following is a list of ANSI X12 Transaction Sets that correspond to supply chain logistics activities. The X12 standard organizes these transaction sets into series, according to the transportation or business document activities they support.

To learn more about how TrueCommerce can address your specific EDI requirements, including sending or receiving any of these transaction sets, please call us at 1.888.334.8783 or [contact us online](#).

## ORDER & FINANCIAL SERIES

### 810 - Invoice

Provides invoice information for the billing of goods and services provided.

### 812 - Credit/Debit Adjustment

Notifies a trading partner of an adjustment or billback and may be used to request an adjustment or billback. It identifies and contains the details and amounts covering exceptions, adjustments, credits, or debits for goods or services. This transaction set is multidirectional between trading partners.

### 816 - Organizational Relationships

This transaction set can be used to convey the identity and relationship of members to a parent organization; identify eligibility to purchase under the terms and conditions negotiated by a parent organization on behalf of its members, and to update application databases. A parent organization could be an association, a chain of retail stores, a holding company, etc.

### 820 - Payment Order/Remittance Advice

Trading partners use this to make a payment, send a remittance advice, or make a payment and send a remittance advice. It can be a remittance advice identifying the detail needed to perform cash application to the payee's accounts receivable system. The remittance advice can go directly from payer to payee, through a financial institution, or through a third party agent.

### 824 - Application Advice

Provides the ability to report the results of an application system's data content edits of a transaction set. The results of editing transaction sets can be reported at the functional group and transaction set level, in either coded or free-form format. It is designed to accommodate the business need of reporting the acceptance, rejection or acceptance with change of any transaction set.

### 830 - Planning Schedule with Release Capability

Transfers forecasting/material release information between organizations. The planning schedule transaction may be used as an order release mechanism, containing such elements as resource authorizations, period-to-date cumulative quantities, and specific ship/delivery patterns for requirements that have been represented in "buckets," such as weekly, monthly, or quarterly. The order release forecast may contain all data related to purchase orders, as required, because the order release capability eliminates the need for discrete generation of purchase orders.

### 832 - Price/Sales Catalog

Furnishes or requests the price of goods or services in the form of a catalog.

### 844 - Product Transfer Account Adjustment

Transmits specific data in the form of a debit, credit, or request for credit relating to pre-authorized product transfer actions.

### 845 - Price Authorization Acknowledgment/Status

Used by a vendor or manufacturer to transmit specific data relative to the status of or changes to outstanding price authorizations.

### 846 - Inventory Inquiry/Advice

Used in the following ways: (1) for a seller of goods and services to provide inventory information to a prospective purchase, with no obligation to the purchaser to acquire these goods or services; (2) for a representative of a seller of goods and services to supply inventory information to that seller; (3) for one location to supply another location with inventory information; and (4) for an inquiry as to the availability of inventory with no obligation on the seller of goods and services to reserve that inventory.

### 849 - Response to Product Transfer Account Adjustment

Transmits a detailed or summary response to a party requesting an accounting adjustment relating to a pre-authorized product transfer.

**850 - Purchase Order**

Provides for the placement of purchase orders for goods and services.

**852 - Product Activity Data**

Advises a trading partner of inventory, sales, and other product activity information. Product activity data enables a trading partner to plan and ship, or propose inventory replenishment quantities, for distribution centers, warehouses or retail outlets. The receiver of the transaction set will maintain some type of inventory/product movement records for its trading partners to enable replenishment calculations based on data provided by the distributor, warehouse or retailer.

**855 - Purchase Order Acknowledgment**

Provides a seller's acknowledgment of a buyer's purchase order. This transaction set can also be used as notification of a vendor generated order. This usage advises a buyer that a vendor has or will ship merchandise as prearranged in their partnership.

**856 - Ship Notice/Manifest**

Lists the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

**860 - Purchase Order Change Request – Buyer Initiated**

Provides the information required for a purchase order change. This transaction can be used: (1) by a buyer to request a change to a previously submitted purchase order or (2) by a buyer to confirm acceptance of a purchase order change initiated by the seller or by mutual agreement of the two parties.

**861 - Receiving Advice/Acceptance Certificate**

Provides the notification of receipt or the formal acceptance of goods and services.

**864 - Text Message**

Electronically moves messages, contracts, explanations, and other one-time communications. It is the intent of this transaction set to provide electronic communication (messages) for people, not for computer processing. The use of the Text Message transaction set demands of the sender certain detailed information about the recipient. The transaction set's purpose is to provide communication to the recipient in some human-readable form. The recipient's network will dictate what capabilities are available for delivery of the information. It is the responsibility of the sender to obtain this information and include it in the transmission. The use of the transaction set to transmit quasi or unique transaction set standards is discouraged.

**867 - Product Transfer and Resale Report**

Used to (1) report information about product that has been transferred from one location to another; (2) report sales of product from one or more locations to an end customer; or (3) report sales of a product from one or more locations by an end customer, and demand beyond actual sales (lost orders). Report may be issued by either buyer or seller.

**875 - Grocery Products Purchase Order**

Used to provide purchase orders for finished goods in a retail or wholesale consumer market. This standard can be used by a retailer or wholesaler organization to request delivery of finished goods from a broker or supplier organization.

**880 - Grocery Products Invoice**

Provides for customary and established grocery industry practice relative to billing details for finished goods in a retail or wholesale consumer market. The transaction set can be used by the supplier or broker organization to request payment from a retailer or wholesaler organization.

**997 - Functional Acknowledgment**

Used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. Does not cover the semantic meaning of the information encoded in the transaction sets.

**TRANSPORTATION AIR AND MOTOR SERIES (TAM)****104 - Air Shipment Information**

Transmits bill of lading and rating details about an air carrier shipment. This transaction set tells the air carrier 1) sender data, 2) shipment detail for multiple and single piece shipments, 3) consignee and third-party data, 4) detail and related charges for each shipment, and 5) shipment totals.

**106 - Motor Carrier Rate Proposal**

Motor carriers use this to propose rates and services to a shipper, receiver, or related party.

**107 - Request for Motor Carrier Rate Proposal**

Shippers, receivers, and others use this to request a rate and service proposal from a motor carrier.

**108 - Response to a Motor Carrier Rate Proposal**

Shippers, receivers, or others use this to respond to a motor carrier's rate and service proposal.

**110 - Air Freight Details and Invoice**

Gives a customer an air invoice for transportation and other charges pertaining to shipments. This includes: Original Invoices, Past Due Billings, Balance Due Bills and Revisions.

**204 - Motor Carrier Load Tender**

Allows shippers or others to offer (tender) a shipment to a full load (truckload) motor carrier. It can include detailed scheduling, equipment requirements, commodities, and shipping instructions that are relevant to a load tender.

**210 - Motor Carrier Freight Details and Invoice**

Specifies detail information about charges for services rendered by a motor carrier. It can be used both as a motor carrier invoice to request payment, or to provide details on motor freight shipment(s) charges.

**211 - Motor Carrier Bill of Lading**

Allows shippers or others that wish to contract with a motor carrier to provide a legal bill of lading for a shipment. It is not to be used to provide motor carriers with information about a load tender, pick-up manifest, or appointment scheduling.

**212 - Motor Carrier Delivery Trailer Manifest**

Enables motor carriers to provide consignees or others with information about the contents of a trailer containing multiple shipments, which has been tendered for delivery.

**213 - Motor Carrier Shipment Status Inquiry**

Asks a motor carrier for shipment status. The requestor can be a shipper or consignee.

**214 - Transportation Carrier Shipment Status Message**

Used by a transportation carrier to tell shippers, consignees, and their agents about the status of shipments; that is: dates, times, locations, route, identifying numbers, and conveyance.

**215 - Motor Carrier Pick-up Manifest**

Shippers and others use this to provide a motor carrier with a manifest of all of the shipments tendered to a carrier.

**216 - Motor Carrier Shipment Pick-up Notification**

Allows shippers or others to provide a motor carrier with notification that a shipment is available for pickup.

**217 - Motor Carrier Loading and Route Guide**

Specifies a motor carrier's loading instructions and/or routing guide. This can include a list of the motor carrier's terminals, a list of all points served, or a matrix of all points served showing the advertised service times. The motor carrier can also use this to specify the break bulk terminal(s) to be used for each point for loading purposes.

**218 - Motor Carrier Tariff Information**

Used by producers of motor carrier tariff and rate data to send data to a motor carrier. Its purpose is to provide rate data at the shipper's request, not to transmit a complete, legal tariff.

**240 - Motor Carrier Package Status**

Specifies the status of a package, packages, or group of packages that a motor carrier considers to be a shipment.

**250 - Purchase Order Shipment Management Document**

Allows a retailer or manufacturer to communicate purchase order data to a transportation provider, for the purpose of managing the purchase order cycle from the time of pickup request through delivery.

**251 - Pricing Support**

Requests or transmits budget or actual data for labor and overhead rates, factors, and other supporting data for a specified period of time.

**601 - US Customs Export Shipment Information**

Used by exporters or their agents, carriers, and service providers to transmit export shipment information to the US Customs Service (USCS).

**602 - Transportation Services Tender**

Carriers use this transaction set to communicate the full range of rates and tender information in a single docket, including names of parties, commodities, location points, shipment conditions, notes, rates (point-to-point, scale), and other changes. It can be used to submit a new tender or amend an existing tender. The US government also uses it to distribute transportation rates.

**715 - Intermodal Group Loading Plan**

Intermodal or domestic shippers and carriers use this transaction set to convey details on the stowage of containers and other equipment aboard a train.

**920 - Loss or Damage Claim – General Commodities**

Files a legal claim with a transportation carrier for damage or loss.

**TRANSPORTATION OCEAN SERIES (TOS)****109 - Vessel Content Details**

This transaction code provides all the information needed to report event details for a shipment and status for one or more containers bound for a port. It can be used to specify the details for one status or event associated with multiple containers, or for more than one status or event associated with a single shipment.

**300 - Reservation (Booking Request) (Ocean)**

A shipper or forwarder uses this to reserve space, containers and equipment for transport by ocean vessel.

**301 - Confirmation (Ocean)**

Provides all the information an ocean carrier needs to confirm space, container, and equipment availability in response to the Reservation (Booking Request) (Ocean) Transaction Set (300); or to notify other parties such as terminal operators or other ocean carriers.

**303 - Booking Cancellation (Ocean)**

Specifies all the information a shipper or forwarder requires to cancel a previous booking request.

**304 - Shipping Instructions**

Provides all the information needed to prepare and distribute a contact of carriage like an ocean bill of lading, sea waybill and other shipping documents. When transmitted to a freight forwarder or customs broker, it provides the shipping and financial information that the forwarder or customs broker requires in order to move cargo and provide the requested services.

**309 - Customs Manifest**

Carriers, terminal operators, port authorities, and service centers use this transaction code to give Customs the manifest data on cargo arriving in or departing from oceangoing vessels, railroad trains, etc. Carriers also use it to give terminal operators, port authorities or service centers manifest data on cargo arriving at their facilities.

**310 - Freight Receipt and Invoice (Ocean)**

Provides ocean bill of lading information. It is transmitted by ocean carriers and can serve as the receipt for the shipment or as an invoice for freight. It can also take the place of a paper bill of lading; or can enable the shipper or forwarder to verify bill of lading information before an original is printed and released. Similarly, it can be used for information purposes (as a bill of lading copy), or to convey manifest information to a terminal operator.

**311 - Canadian Customs Information**

Provides all information necessary that an ocean or rail carrier or freight forwarder needs to report input and export conveyance and consignment information to Canadian Customs.

**312 - Arrival Notice (Ocean)**

Specifies all the information required for a consignee to receive a shipment, including customs, payments due, and estimated arrival date and time of shipment.

**313 - Shipment Status Inquiry (Ocean)**

Specifies all the information required for an authorized party to an ocean shipment to ask the ocean carrier about the status of a shipment.

**315 - Status Details (Ocean)**

Provides the information required to report status or event details for specified shipments or containers. It can specify the details for one status or event associated with multiple shipments or containers, or for multiple statuses or events for one shipment or container.

**317 - Delivery/Pickup Order**

Enables importers or their agents to give orders for the delivery or pickup of goods to marine terminal operators.

**319 - Terminal Information**

Transmits shipment arrival event information (e.g., arrival data, availability for pickup, or the actual pickup) from terminal operators to customs brokers, freight forwarders, consignees, etc.

**322 - Terminal Operations and Intermodal Ramp Activity**

Allows terminal operation, port authority or intermodal ramp to communicate terminal and intermodal ramp activities (e.g. "ingates" and "outgates") relating to a shipment.

**323 - Vessel Schedule and Itinerary (Ocean)**

Allows an ocean carrier to communicate with others about an ocean vessel's schedule and itinerary.

**324 - Vessel Stow Plan (Ocean)**

Provides all relevant information concerning the stowage of equipment and cargo on a vessel.

**325 - Consolidation of Goods in Container**

Sent by a consolidator or to the consignee to document the goods loaded into a container.

**326 - Consignment Summary List**

Provides a customer with a list of all consignments for which an ocean carrier has accepted or is expected to accept responsibility for the transport of goods. It is sent by an ocean carrier or consolidator to a shipper, freight forwarder, consignee, customs broker, etc.

**350 - Customs Status Information**

Allows the Customs Service (CS) to communicate with carriers, terminal operators, port authorities and service providers about cargo release and cargo hold information for import shipments. The CS can also use it to give exporters or their agents, carriers, and service providers information regarding export shipments.

**352 - U.S. Customs Carrier General Order Status**

Provides bill of lading status information to U.S. Customs or consignees regarding cargo in or about to go into "General Order" and entry and release information. It is transmitted by carriers, terminal operators, port authorities, or service centers.

**353 - Customs Events Advisory Details**

Carriers use this transaction set to notify Customs of events concerning cargo moving in-bond, or of conveyance arrivals or departures. Such events include the arrival of containers, or cargo covered by individual ocean bills of lading or in-bond numbers, which have moved in-bond to an inland destination or which have been exported. Carriers can also use this to notify Customs of the arrival or departure of a conveyance for which an electronic manifest has been filed, as well as for the transfer of custodial liability when an in-bond movement involves multiple legs.

**354 - U.S. Customs Automated Manifest Archive Status**

Enables U.S. Customs to inform carriers, terminal operators, port authorities, and service centers that the manifest for a particular vessel or voyage will be removed from the system. This indicates that either all bills of lading on the manifest have been reconciled/closed, or will be reconciled manually.

**355 - U.S. Customs Acceptance/Rejection**

Used by U.S. Customs to report errors or discrepancies found in the U.S. Customs transaction sets to ocean carriers, terminal operators, port authorities and service centers.

**356 - U.S. Customs Permit to Transfer Request**

Sent to U.S. Customs to request a Permit to Transfer (PTT).

**357 - U.S. Customs In-Bond Information**

Used by transportation carriers, terminal operators, port authorities, and service centers to request authorization for in-bond movements, or to add additional legs to existing in-bond movements.

**358 - Customs Consist Information**

Provides a list of bills of lading to be carried on a specific conveyance and trip number, for which an electronic manifest has already been filed. Used by transportation carriers, terminal operators, port authorities and service centers.

**361 - Carrier Interchange Agreement (Ocean)**

Specifies the information an ocean carrier needs to tell a terminal operator if motor carriers are authorized to carry its cargo.

**TRANSPORTATION RAIL SERIES (TRS)****161 - Train Sheet**

Enables railroads to exchange train sheet data, and also ensure that crews operating equipment on other railroads are aware of current operating conditions.

**404 - Rail Carrier Shipment Information**

Transmits a rail carrier's specific bill of lading information to a railroad. It can serve as the initial tender of a shipment between a consignor and a rail carrier, or as notification of equipment release and/or a legal bill of lading.

**410 - Rail Carrier Freight Details and Invoice**

Enables a rail carrier to provide the freight payer with details on charges associated with a rail movement.

**412 - Trailer or Container Repair Billing**

Serves as an electronic invoice for repairs to trailers and containers being transported by railroads.

**414 - Rail Carhire Settlements**

Facilitates the exchange of Carhire Settlement data, such as: Current Settlements, First Adjustment Settlements (no penalty), Prior Settlements (penalty on foreign equipment), Summary Transactions and Reclaim Transactions.

**417 - Rail Carrier Waybill Interchange**

Used by all Class I rail carriers in the United States and Canada to provide the rail carrier with detailed movement instructions about a shipment.

**418 - Rail Advance Interchange Consist**

Transmits advance information from a consignor or to a consignee about equipment being interchanged to a connection rail carrier.

**419 - Advance Car Disposition**

Gives the receiving rail carrier advance notice of cars being offered for interchange directly or via a switching carrier.

**420 - Car Handling Information**

Gives a carrier that is going to receive a rail car from another rail carrier the ability to redirect a home route or pre-block a rail car prior to actual interchange.

**421 - Estimated Time of Arrival and Car Scheduling**

Lets railroads exchange car scheduling and estimated time of arrival information.

**422 - Equipment Order**

Enables a rail carrier or shipper to order equipment required for its transportation needs.

**423 - Rail Industrial Switch List**

This transaction set should be used specifically for producing switch lists and equipment notifications between a carrier and its customer, or to provide agreed switching information showing car identity, placement, pull and destination.

**425 - Rail Waybill Request**

Requests a copy of a revenue or movement waybill from the original or previous rail carrier, only in the event that the requesting carrier cannot locate the original transmission.

**426 - Rail Revenue Waybill**

Serves as a response to a request for a rail revenue waybill. It may include movement, rates, and charges information.

**429 - Railroad Retirement Activity**

Transmits information between the Retirement Board and carriers about the processing of railroad employee sickness and unemployment benefit claims against retirement funds.

**431 - Railroad Station Master File**

The Association of American Railroads (AAR) and the rail carriers use this to share information about which railroad stations various carriers serve.

**432 - Rail Deprescription**

Fleet owners use this to deprescribe rail cars and distribute new rates.

**433 - Railroad Reciprocal Switch File**

Provides electronic updates on the reciprocal switch status (open, closed or conditionally open) of railroad customers.

**434 - Railroad Mark Register Update Activity**

Enables the Railroad Industry Reference File central site to communicate Mark Register updates to subscribers, including the assignment and expiration of railroad reporting marks, Standard Carrier Alpha Codes (SCAC) and unit initials.

**435 - Standard Transportation Commodity Code Master**

Transmits Standard Transportation Commodity Codes and related data.

**436 - Locomotive Information**

Gives rail carriers information about locomotive status and location.

**437 - Railroad Junctions and Interchanges Activity**

Enables the Railroad Industry Reference File central site to share junction and interchange updates, including the creation and expiration of interchange agreements.

**440 - Shipment Weights**

Used to transmit Weights and scale information.

**451 - Railroad Event Report**

Service provider use this transaction code to share information on the movement of goods.

**452 - Railroad Problem Log Inquiry or Advice**

Allows a service provider to register a problem, or provides problem log data on request. Also can serve as a request for information about problem logs already created.

**453 - Railroad Service Commitment Advice**

Used by a Rail Interline Service Management shipment sponsor to communicate with transportation service providers about service commitments.

**455 - Railroad Parameter Trace Registration**

Freight carriers use this in any of three ways: 1) To request that parameters used to select movement activity from a central data store over time be set up; 2) To request information about past activities within a data range that falls within a set of parameters; or 3) To request that a set of parameters for subsequent, on-demand use be established.

**456 - Railroad Equipment Inquiry or Advice**

Enables: 1) A provider of equipment or transportation service to provide information to a customer; 2) A customer to ask for the location of equipment or shipments; or 3) A company to provide another company with equipment or shipment information.

**460 - Railroad Price Distribution Request or Response**

Requests or communicates prices (rates and associated information). In particular, it can send or respond to a rate docket.

**463 - Rail Rate Reply**

Serves as a reply to a Rail Rate Transaction. It is generated automatically by the recipient's EDI system.

**466 - Rate Request**

Requests rail rates applicable to specific movements.

**468 - Rate Docket Journal Log**

Transmit comments about rates contained in a rate docket.

**470 - Railroad Clearance**

Requests or responds to clearances for dimensional and heavy rail shipments.

**475 - Rail Route File Maintenance**

Distributes route file updates of the rail industry route file.

**485 - Ratemaking Action**

Transmits ratemaking activities pertaining to concurrence, factor change, publisher change, or proposal rejection or trace.

**486 - Rate Docket Expiration**

Transmits the expiration date of a docket.

**490 - Rate Group Definition**

Defines and names a group of elements (patron, geography, commodity, shipment conditions) relating to a tariff.

**492 - Miscellaneous Rates**

Transmits rail rates for demurrage, detention, and storage.

**494 - Rail Scale Rates**

Transmits rail scale rate tables.

**WAREHOUSING SERIES (WAR)****883 - Market Development Fund Allocation**

Manufacturers use this transaction set to inform brokers or retailers/wholesalers how to allocate funds in a market development program.

**884 - Market Development Fund Settlement**

Communicates settlement information about a single market development fund event.

**886 - Customer Call Reporting**

Enables a broker or manufacturer to communicate information pertinent to a retail store, such as store and product condition, allocation of shelf space, marketing programs in effect, and so on.

**891 - Deduction Research Report**

Sellers use this transaction set to request information about a deduction from an invoice. Seller's agent or buyers use it to provide details required to resolve deduction amounts.

**940 - Warehouse Shipping Order**

Depositors use this to request that a warehouse make a shipment, confirm a shipment, or modify or cancel a previously transmitted shipping order.

**943 - Warehouse Stock Transfer Shipment Advice**

Depositors or their agents use this to notify the recipient that a transfer shipment has been made, or to specify a receiving location and detail information about product being shipped.

**944 - Warehouse Stock Transfer Receipt Advice**

Used by a receiving location to inform a depositor that a transfer shipment has been received. This transaction set can also be used to give the depositor detail information about product that has been received.

**945 - Warehouse Shipping Advice**

Used by the warehouse to advise the depositor that shipment was made, or to reconcile order quantities with shipment quantities.

**947 - Warehouse Inventory Adjustment Advice**

Used to inform a warehouse/depositor of a quantity or status change to inventory records, or to provide detail information regarding the internal adjustments that occur between a warehouse and a depositor.

**990 - Response to a Load Tender**

Provides general information relative to a specific shipment, or as a response to a Motor Carrier Load Tender Transaction Set (204) that was used as a load tender.

**ABOUT TRUECOMMERCE**

TrueCommerce revolutionizes trading partner connectivity, visibility, and collaboration by linking suppliers, retail hubs and end consumers in one global commerce network. From the factory to the warehouse, from distributor to retail storefront, achieve new levels of business connectivity and performance with the world's most complete commerce network.

Connect. Integrate. Accelerate.

**THE TRUECOMMERCE TEAM IS HERE TO HELP!**

If you have any questions regarding TrueCommerce, or how it applies to your business, our passionate, EDI focused team is here for you.

Call us today at **888.334.8783**

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