



ELECTRONIC DATA INTERCHANGE (EDI)

REFERENCE GUIDE

Table of Contents

INTRODUCTION TO EDI	3
PREFACE	4
A DEFINITION OF EDI	5
WHAT IS EDI?	5
TRADITIONAL DOCUMENT EXCHANGE	5
THE NEED FOR EDI	6
THE BUSINESS NEED	6
THE NEED FOR ACCURACY	6
THE MESSAGE	6
THE ENVELOPE	6
HOW EDI WORKS	7
THE BASIC STEPS OF EDI	7
THE TOOLS OF EDI	7
STANDARD BODIES	7
VALUE ADDED NETWORKS	7
SECURITY	7
IMPLEMENTING EDI	8
AN OVERVIEW OF IMPLEMENTATION	8
EXTERNAL REQUIREMENTS	8
EDI DOCUMENT REFERENCE CHART	9
EDI CODES AND DEFINITION	10
210: MOTOR CARRIER FREIGHT DETAILS AND INVOICE	10
304: SHIPPING INSTRUCTIONS (OCEAN)	11
315: STATUS DETAILS (OCEAN)	11
850: PURCHASE ORDER	12
856: SHIP NOTICE/MANIFEST	13
860: PURCHASE ORDER CHANGE REQUEST	13
861: RECEIVING ADVICE	13
870: ORDER STATUS	14
943: SHIPPING ADVICE	14
944: WAREHOUSE INVENTORY RECEIPT ADVICE (INBOUND)	14
945: WAREHOUSE SHIPPING ADVICE (OUTBOUND)	14
997: FUNCTIONAL ACKNOWLEDGEMENT	14
EDI TERMS AND DEFINITIONS	15

Introduction to EDI

Many companies are already using computers to send business documents instead of mailing paper documents. Since computerized transmission of business data will very quickly replace traditional paper based systems, it is important for the retail industry to establish and maintain guidelines for these activities.

Our industry is not the first to successfully apply the concept of exchanging business documents via computer nor are we the only one embarking upon an industry-wide implementation of standards. The Automotive Industry, Metals Industry, Chemical Industry, Electronics Industry and Office Products Industry are a few of the major industries that are implementing the (ASC X12) standards.

This manual has been developed through the cooperative efforts of representatives from retailing, manufacturing and other suppliers-to-retail, commonly called VICS EDI, under the umbrella of the Uniform Code Council and GE.

The VICS EDI Standards Maintenance Committee was formed with the objective of identifying and maintaining a common interpretation by the Retail Industry of the Electronic Data Interchange Standards.

The VICS EDI Standards Maintenance Committee will review these Conventions and Implementation Guidelines for annual publication.

Preface

In the following information manual we provide a brief overview of EDI for any business considering incorporating EDI into their operations. This manual provides the basic information required to give the reader an understanding of EDI. This manual is broken down into five topics:

- ◆ A definition of EDI: the fundamental concepts of EDI
- ◆ The Need for EDI: What is the business need for EDI?
- ◆ How EDI Works: A discussion of the basic structure of EDI, and the steps in the process.
- ◆ The Tools of EDI: A review of Standards, Communication, Software and Hardware
- ◆ Implementing EDI: A review of the major steps you will need to go through to implement an EDI project.

YUSEN LOGISTICS Value Added Network is a global organization that understands and supports the role EDI is playing in today's global economy. The international communications dreams of just ten years ago are in a large part today's reality. Today, corporations rely on EDI to achieve both their day-to-day and strategic objectives.

Just in Time (JIT), Quick Response, and many other techniques would not be possible without utilizing EDI as part of electronic commerce. EDI enables these activities to take place effectively by providing a standard way for companies to communicate the required business information among themselves and their trading partners.

The world of electronic commerce encompasses EDI, electronic mail and messaging, electronic bulletin boards, document imaging and retrieval, groupware, electronic forms, and electronic publishing, etc. Governments, companies, and associations have recognized the value of utilizing electronic commerce and are continually seeking ways to become more cost effective in their electronic communication activities

GE Information Services, Inc., is the leader in providing EDI and electronic commerce solutions on a national and global basis. Their product offerings and services provide support for all aspects of EDI and electronic commerce. Their commitment to electronic commerce combined with our unsurpassed worldwide network and communications capabilities enables GE Information Services to be your resource for achieving the potential of these exciting technologies.

A Definition of EDI

What is EDI?

In its simplest form, Electronic Data Interchange, or EDI, is the computer-to-computer exchange between two companies of standard business documents in electronic format.

There are two key elements in basic EDI. First, electronic documents replace paper ones. Second, the exchange of documents takes place in standardized format. Using these two basic concepts, any business can enter the world of EDI and begin taking advantage of the speed and economy of electronic commerce.

Traditional Document Exchange

One of the first places that many businesses implement EDI is in the exchange of a purchase order (PO). In the traditional method of processing a purchase order, a buyer or purchasing agent will go through a fairly standard procedure to create a purchase order, consisting of these steps.

1. Review Inventory
2. Create PO
3. Print PO
4. Mail PO to Vendor
5. Vendor posts PO in Order Entry System
6. Buyer communicates with Vendor regarding PO Processing Status

The Need for EDI

The Business Need

In today's global economy, every business faces constant pressures to improve the quality of its product or service while simultaneously trying to control or reduce costs.

While computer information technology has automated or streamlined many internal processes, in many businesses, the external processes of exchanging information with customers and suppliers still lag far behind. The need for speed and accuracy in these external processes is becoming ever more critical.

The Need for Accuracy

Accuracy in the exchange of business documents is extremely important. The traditional paper document exchange requires information transfer through transcription or data entry. This manual process comes with the risk for a large margin of error in the data.

The Message

When all the segments are collected together into a prescribed sequence, they form a complete electronic document. This electronic document is referred to as a message, or transaction set. A complete message is the equivalent of one business document such as a purchase order, invoice, or advance shipping notice.

The Envelope

Paper business documents are sent in envelopes and it is possible to mail many documents in a single envelope. It is no different with electronic documents. EDI incorporates several levels of envelopes, in order to insure that each document is correctly identified and that only like documents are grouped together.

The electronic envelope will actually be composed of two parts: a "header" placed at the beginning of a series of related records and a "trailer" that will follow the last of the records.

How EDI Works

The Basic Steps of EDI

The process of sending an electronic document requires a series of steps on the part of the sending and receiving partners. Once you have defined all of the building blocks of your EDI message, most of these steps will become automated procedures.

The Tools of EDI

Standard Bodies

Beginning in the late 1980's, many American industry-specific standards committees began to consolidate their separate standards under the direction of the American National Standards Institute. All major American EDI transaction groups are now incorporated as subsets of the Accredited Standards Committee (ASC), referred to as the X12 group of standards.

However, the increasingly global extent of many business enterprises requires that companies may, at the very least, have to be aware of the other major standards groups. These include SCC/JTC EDI in Canada, SITPRO in the United Kingdom, and DIN in Germany.

The United Nations has been active in developing a single set of international standards under the general authority of EDIFACT (Electronic Data Interchange For Administration, Commerce and Transport). The EDIFACT standards have rapidly gained worldwide acceptance.

Value Added Networks

EDI users have a more efficient and cost-effective option. Any business, regardless of size, can turn to third-party network services commonly referred to as "Value Added Networks" or VANS. The VAN functions as a clearing house for electronic transactions, serving as a private electronic mail service.

Security

A VAN allows the user to send and receive information to and from their own electronic mailbox. The VAN handles all transfer of information from the sender's mailbox into the receiver's mailbox. This allows trading partners to be certain they can freely exchange information yet avoid granting direct access to their own internal systems.

Implementing EDI

An Overview of Implementation

Implementing EDI in our business will require broad participation. In many respects, it will be similar to developing and installing any internal system. EDI projects, however, will have the added feature of requiring inter-company cooperation between you and your trading partner. Good planning and communication are essential to success.

EDI projects will benefit from several important steps that we will review here:

- ◆ Business Needs Analysis - Analyze your business needs to correctly identify areas of your business where EDI will return the most benefit.
- ◆ Requirements definition - Carefully define the requirements, both internal and external, and understand the costs to insure that there are no expensive surprises. Carefully define requirements to help you focus on your objectives.
- ◆ Project Implementation - Pick a pilot project for the first implementation, and then proceed to full implementation.

External Requirements

- ◆ Trading partner agreements: Trading partner agreements have become the standard tool for defining the terms of your relationship with a trading partner. Mutual review of these agreements is recommended to ensure that both parties know all the terms of the exchange.

- ◆ Standards definition: You will need to insure that you are in agreement with your trading partner on exactly what standard and version you will use as the basis of your communication.

- ◆ Transaction definition: Definition of each transaction set is of critical importance. This will involve mutual agreement upon which segments and data elements you will use, and how you will handle optional and conditional data. You will need to complete a thorough definition of the transaction sets you will be using before you can analyze your internal system requirements.

- ◆ Communication compatibility: If a trading partner does not use the same VAN as you selected, will it be possible to have your VAN route transactions to your partner? If your partner does not subscribe to a service you may want to encourage them to do so. Your VAN service should be able to help you here.

- ◆ Frequency of exchange: You will need to define the frequency of information exchange, and what the transmission "windows" will be. This will have a direct impact on internal software modifications you will have to make.

- ◆ Conflict Resolution: Both trading partners need to agree upon procedures for handling conflicts that may arise. This would include agreements on responsibility for re-transmission, and data correction. It should involve identifying points of contact and procedures for resolution.

EDI Document Reference Chart

Document #	Description
210	Motor Carrier Freight Details and Invoice
214	Transportation Carrier Shipment Status Message
304	Shipping Instructions
315	Cargo Status Message
850	Purchase Order
856	Shipment Notice/Manifest
860	Purchase Order Change Request – Buyer Initiated
861	Receiving Advice/Acceptance Certificate
870	Order Status Report
943	Shipping Advice
944	Warehouse Inventory Receipt Advice (Inbound)
945	Warehouse Shipping Advice (Outbound)
997	Functional Acknowledgement

EDI CODES AND DEFINITION

210: Motor Carrier Freight Details and Invoice

The purpose of this section is to present and explain the application of the ASC X12 standards as they pertain to the retail motor carrier freight invoice.

This transaction set can be used both as an invoice to request payment for services rendered and as details pertaining to freight shipment(s) charges and consolidation charges.

214: Transportation Carrier Shipment Status Message

The purpose of this section is to present and explain the application of the ASC X12 standards as they pertain to the retail use of the transportation carrier shipment status message

Transaction Set 214 is used by the motor carrier industry to report the status of a shipment to the shipper, consignee and/or other parties to the shipment. In addition, the 214 can be used to provide customers with carrier performance data. The 214 can provide pick up or delivery dates and times, as well as information concerning shipments in transit.

Various reference numbers will be provided in a shipment status message. For LTL carriers, the PRO number will be provided along with a unique carton identification number, if assigned by the shipper, and transmitted in a 204, 211, or 215 transaction set. Truckload carriers can provide an identification number assigned by the carrier as well as a bill of lading number.

Most carriers send shipment status messages on a scheduled basis. This schedule is agreed upon by the trading partners. The two most common times for 214's to be transmitted are at the time of pick up and time of delivery.

A Functional Acknowledgement is not required; however, if the receiver is using the 214 data to rate carrier performance, its usage is strongly recommended.

304: Shipping Instructions (Ocean)

The purpose of this section is to present and explain the application of the ASC X12 standards as they pertain to the shipping instructions sent to the ocean carrier.

Transaction Set 304 provides shipping instructions to the Ocean Carrier. The Shipping Instructions (S/I) are sent by the entity responsible for the freight (in this case, NYK LOGISTICS) and pertain to the contents within the container. The information transmitted enables the Ocean Carrier to generate a bill of lading which among other reasons, is necessary for customs clearance.

315: Status Details (Ocean)

This transaction set is used by the ocean carrier to communicate the status of a shipment to one of the named parties of that shipment. It is generated either as the result of certain events, referred to as event-triggered generation, or upon the receipt of a Shipment Status Inquiry (transaction set 313). The transmission of a 315 transaction set after receipt of a 313 transaction set needs no further explanation since the 315 will contain the information requested by the 313. Event-triggered generation of a 315 transaction set does need further amplification. This type of message will provide the necessary information based on equipment movement events, bill of lading events or schedule change events. Each message will be generated by one of the above events and contain the container number and bill of lading number of the particular shipment along with the information on the specific event. The message is triggered for one container event or one shipment event (bill of lading or schedule).

850: Purchase Order

The purpose of this section is to present and explain the application of the ASC X12 standards as they pertain to the retail purchase order.

Within the retail industry, two distinct methods for ordering goods have been identified. The first, which we have named basic, is the most common. It is the ordering of goods separately for each location, i.e., one store ordering per PO. The second type, which we have named spreadsheet, is utilized to order the same item for multiple locations, i.e. a specific quantity of one item for multiple locations, i.e., a specific quantity of one item is distributed over a variety of locations. The actual quantity to each location need not be the same.

The spreadsheet type order usually implies pre-distribution by the vendor that is packaged for the store and either sent directly to the store or to a central location (distribution center). The basic type order can be used in the pre or post distribution environment. In the post distribution environment the buying location would be the distribution center. The distribution center would break out each store quantity.

The purchase order in its most simplistic form assumes that the receiver has, within their systems, most of the general data about the sender and their locations (stores). This data includes bill-to, ship-to, and mark-for terms, etc. for each of the sender locations. For each ordering location the receiver of the order knows where to send the goods, where to send the bill, and what terms are to be applied. The sender only needs to inform the receiver of the location ordering the goods, when delivery is expected, and the detail specification for the goods (SKUs) including order quantity for each SKU.

856: Ship Notice/Manifest

The purpose of this section is to present and explain the application of the ASC X12 standards as they pertain to the retail Ship Notice/Manifest.

The use of this transaction is to provide the retailer with advance data on the shipments so the shipments so the retailer may better plan workloads and receipt processing. The key word is "advance". Therefore, in the implementation of the transaction the latest the ship notice may be sent is the time of shipment. In practice the ship notice must arrive before the shipment.

The scope of the ship notice, within the retail industry, will not exceed the scope of the associated bill of lading. There can be more than one ship notice with one bill of lading. The bill of lading is not applicable when using small package service carriers. In this case, the ship notice will only represent one ship from/ship to combination.

The bill of lading is a legal shipping document which is the contract between the shipper and the carrier. The ship notice is not a legal document nor is it between shipper and carrier. The ship notice is not a replacement for the bill of lading.

There are two predominant methods of merchandise packaging within the retail industry. These are commonly known as:

- Pick and Pack - where different SKUs are packed within the container, and
- Standard Carton Pack - where identical SKUs are packed within the container

860: Purchase Order Change Request

The 860 (Purchase Order Change Request) is a modification of an 850 (Original Purchase Order) as described above. This is initiated by the customer and the 860 represents the change or updated data from what was originally in the 850.

861: Receiving Advice

The 861 transaction set acts as a receiving advice notification. This transaction informs the customer of the initial receipt of goods or verifies receipt quantity of goods.

870: Order Status

The 870 (Order Status) transaction set is used to report on the current status of purchase orders. The report format may contain reasons or explanations relevant to the status of the purchase order and shipment of merchandise. This transaction set can result from an inquiry or prearranged schedule. For YUSEN LOGISTICS purpose, this is prearranged and runs automatically.

943: Shipping Advice

The EDI 943 (Shipping Advice) is sent to the transload facility to advise them of what to expect with regards to a Purchase Order.

944: Warehouse Inventory Receipt Advice (Inbound)

The EDI 944 is sent by the transload facility to advise that inventory has arrived. It contains all details relevant to the shipment associated with the Purchase Order.

945: Warehouse Shipping Advice (Outbound)

The EDI 945 is sent by the transload facility to advise shipment order information regarding what has departed or is scheduled to depart the warehouse or transload facility.

997: Functional Acknowledgement

The 997 transaction set is a functional acknowledgement sent back to the trading partner after an EDI transaction set is received. It is basically a confirmation to the sender that the recipient has received the data successfully.

EDI Terms and Definitions

A

Accredited Standards Committee X12

The group authorized by the American National Standards Institute to develop and maintain the EDI Standards used in the United States.

American National Standards Institute

The national standards body for the United States, ANSI, through its accredited standards committees, keeps the standards for all applications of technology and mechanics for US industry.

ANSI

Acronym for the American National Standards Institute

ANSI ASC X12

Acronym for the American National Standards Institute, Accredited Standards Committee X12

C

Communications

The means of electronically linking two computers to exchange information via EDI .

Communications Software

Programs that allow computers to communicate through MODEMS. Some are capable of automatic communications such as auto-dial and auto-number.

D

Data Dictionary

A listing of all the data elements, and sometimes the segments and messages, unique to the specific system of EDI Standards being used.

Data Element

One or more data items forming a unit of information as defined in the data dictionary of a system of EDI Standards, and contained in an EDI message or transaction set. The term "data element" is often abbreviated as "DE" followed by the data element number (i.e., data element 128 would be abbreviated as DE 128) in some texts.

Data Element, Composite

Two or more related data items separated by a delimiter character, grouped together to form a unit or piece of information as defined in the data dictionary of a system of EDI Standards, and contained in an EDI message or transaction set.

DISA

Data Interchange Standards Association. This is the trade organization that acts as secretariat for ANSI ASC X12 and the Pan-American EDIFACT Board in the United States.

Download

The process of receiving data from another computer at a remote site onto the computer under the control of the operator.

E**EDI**

The standard abbreviation for Electronic Data Interchange.

EDIFACT

Acronym for Electronic Data Interchange For Administration, Commerce, and Transport, the international EDI Standard as developed through the United Nations.

Electronic Data Interchange

The computer-to-computer transfer of business transaction information using standard, industry accepted, message formats.

Electronic Mail

The process of sending, receiving, storing and/or forwarding messages in digital form via telecommunication.

E-Mail

The standard abbreviation for Electronic Mail.

End-User

Anyone who uses a computer system or its output.

Envelope

The combination of header, trailer, and other control segments, that define the start and end of an individual EDI message.

F

File

A collection of related records treated as a basic unit of storage in a computer system. Files are stored on magnetic storage media such as a disk, cd, or tape. There are many types of files in a computers memory. Each program that the computer runs is written in a file and then stored for later execution. Each database the computer uses to store data that will be used by the programs to do their work is a file, or in some cases, a series of files that are read by the programs as they run.

Flat File

A computer file where all the information is run together in a single charter string.

File Structure

The format into which a file is arranged by the computer so that the information it contains can be retrieved on demand.

Functional Acknowledgement

An EDI message that is sent in response to the receipt of an EDI message or packet of messages. It acknowledges only the receipt of the message or message packet and does not imply agreement with or understanding of its content.

H

Hardware

The physical parts of the computer system such as the CPU, tape drives, disk drives, modem, etc.

Header

The specific segment that tells the receiving computer where an individual EDI message starts.

I

Implementation

The act of starting an EDI system.

Implementation Guide

A publication listing the EDI messages that are in use in a particular industry or application. It indicates how the information in those messages should be presented on a segment by segment, and data element by data element basis. It also includes which segments and data elements are needed, which ones are not, and what code values will be expected in the application of that particular message.

Industry Specific

Useful to only one particular group of companies grouped together by a common area of endeavor. In EDI, it refers to the ability of an EDI standard to be used by only one industry.

ISO

Acronym for the International Standards Organization. An international organization working with the United Nations that maintains the standards for all applications of technology and mechanics for global industry.

M

Mailbox

A file storage area within a computer (usually one used by a network service provider) where the information is placed until it can be retrieved by the intended receiver.

Mapping

The act of determining what pieces of information in the company's database should be placed into each data element of an EDI message or transaction set and likewise in reverse, what data elements of an EDI message or transaction set should be placed into the company's database.

Message

A block of information in EDI, making up a business transaction or part thereof.

Message Standards

The system of syntax, data elements, segments, and messages (transaction sets) in which EDI will be conducted

Modem

Abbreviated from of "Modulator/Demodulator". The electronic device that connects the computer to a telephone line to allow communication.

N

National Standards Body

The organization in a country that is tasked with keeping the standards for all applications of technology and mechanics for the industry of that country.

Network

An electronic communications system that links computers together to allow EDI to take place.

Network Service Provider

A company that maintains a network and offers its services and capabilities to others for a fee.

P

Paperwork

The documents that have been traditionally used to convey information in a business transaction.

Pilot

The process of testing a part of the final system as a gauge to determine the viability of the concept prior to implementing the entire system. It takes the concept out of the realm of theory and provides empirical knowledge of what can reasonably be expected of the system when it is fully implemented.

Pilot Project

A project conducted between two or more EDI trading partners to test the viability of a proposed EDI System.

Platform

The type of computer system being used.

Purchase Order

A document issued by a buyer to a seller that details the terms of sale under which the buyer will purchase the seller's goods.

R

Receiver

The Party to whom the EDI message or transaction set is transmitted

S

Segment

A part of an EDI message or transaction set ,made up of a number of related data elements separated by a delimiter, conveying a part of the business transaction being made.

Segment Directory

A listing of the segments unique to the specific system of EDI Standards being used. It is usually part of the data dictionary.

Seller

The party in a business transaction who sells goods or services to a buyer for good and valuable consideration

Shipment Notification

An EDI transaction sent by the shipper of material to the receiver advising that the shipment has been sent and providing details such as manifest, PO number, estimated time of arrival, carrier, etc.

Software

The programs residing in some form of storage media used by the computer to accomplish its tasks.

Standards

Something established for use as a rule or basis of comparison. In the context of EDI, this usually refers to the system of message standards that are in use between trading partners.

Standards Body

A committee made up of representatives of the users of a given standard, This committee is either accepted by the industry or charged to a government to maintain the Standards in question.

Standards, Proprietary

Those systems of EDI messages that are developed by the trading partners themselves for a specific application and do not fit in any of the accepted Standards Bodies around the world.

Standards, Public

Those systems of EDI messages that are prepared and published by or through the accepted Standards Bodies around the world.

Syntax

The system for arranging data elements and segments within an EDI message or transaction set. As dictated by the message or transaction set standards being used.

T**TDCC**

Transportation Data Coordinating Committee. This is the original EDI organization for the United States. Through its efforts, the first EDI standards were developed, published, and maintained. It is now EDIA and has become the national EDI user group for the United States.

Third Party

A party other than the sender or receiver such as a Network Service Provider or software developer providing goods or services in support of the transmission of information via EDI.

Trading Partner

The entity with which EDI is carried on. This may be either the sender or receiver of information in EDI.

Trailer

The specific segment that tells the receiving computer where an individual EDI message ends.

Transaction Set

A block of information in EDI, making up a business transactions or part of a business transaction. Outside North America, this is normally called a message.

Transaction Set Standards

The system of syntax, data elements, segments and transaction sets (messages) with which EDI will be conducted.

Translator

A program used to convert information from flat file to EDI format or from EDI format to flat file.

U**User**

An entity , either an individual or a company who utilizes a computer or system of standards, for a specific purpose like EDI.

User Group

An organization of individuals and/or companies who come together to deal with the needs of those who wish to employ a technique or technology in a unified manner. User groups are discussion organizations.

V**Value- Added Network**

A system where a network leases communication lines from a communications common carrier, enhances them by adding improvements such as error detection and/or faster response time, and then allows others to use this service on those lines for a fee. This is often abbreviated as VAN.

VAN

Standard abbreviation for Value-Added Network.

EDI X12 List

The following is a list of the approved EDI ANSI X12 documents for EDI version 4 Release 1

Order Series (ORD)

180	Return Merchandise Authorization and Notification
290	Cooperative Advertising Agreements
810	Invoice
816	Organizational Relationships
832	Price/Sales Catalog
846	Inventory Inquiry/Advice
850	Purchase Order
855	Purchase Order Acknowledgment
856	Ship Notice/Manifest
857	Shipment and Billing Notice
860	Purchase Order Change Request - Buyer Initiated
865	Purchase Order Change Acknowledgment/Request - Seller Initiated
875	Grocery Products Purchase Order

876	Grocery Products Purchase Order Change
877	Manufacturer Coupon Family Code Structure
880	Grocery Products Invoice
881	Manufacturer Coupon Redemption Detail
885	Retail Account Characteristics
887	Coupon Notification
888	Item Maintenance

Materials Handling Series (MAT)

511	Requisition
517	Material Obligation Validation
527	Material Due-In and Receipt
840	Request for Quotation
843	Response to Request for Quotation
845	Price Authorization Acknowledgment/Status
847	Material Claim

851	Asset Schedule
878	Product Authorization/De-authorization
879	Price Information
893	Item Information Request

Tax Services Series (TAX)

149	Notice of Tax Adjustment or Assessment
151	Electronic Filing of Tax Return Data Acknowledgment
152	Statistical Government Information
155	Business Credit Report
157	Notice of Power of Attorney
170	Revenue Receipts Statement
521	Income or Asset Offset
540	Notice of Employment Status
813	Electronic Filing of Tax Return Data
826	Tax Information Exchange

Warehousing Series (WAR)

883	Market Development Fund Allocation
884	Market Development Fund Settlement
886	Customer Call Reporting
891	Deduction Research Report
940	Warehouse Shipping Order
943	Warehouse Stock Transfer Shipment Advice
944	Warehouse Stock Transfer Receipt Advice
945	Warehouse Shipping Advice
947	Warehouse Inventory Adjustment Advice
990	Response to a Load Tender

Financial Series (FIN)

248	Account Assignment/Inquiry and Service/Status
810	Invoice
811	Consolidated Service Invoice/Statement

812	Credit/Debit Adjustment
818	Commission Sales Report
819	Operating Expense Statement
820	Payment Order/Remittance Advice
821	Financial Information Reporting
822	Account Analysis
823	Lockbox
824	Application Advice
827	Financial Return Notice
828	Debit Authorization
829	Payment Cancellation Request
831	Application Control Totals
859	Freight Invoice
980	Functional Group Totals

Government Series (GOV)

100	Business Entity Filings
150	Tax Rate Notification
151	Electronic Filing of Tax Return Data Acknowledgment
152	Statistical Government Information
153	Unemployment Insurance Tax Claim or Charge Information
154	Uniform Commercial Code Filing
175	Court and Law Enforcement Notice
176	Court Submission TYPE
185	Royalty Regulatory Report
195	Federal Communications Commission (FCC) License Application
251	Pricing Support
256	Periodic Compensation
280	Voter Registration Information

Manufacturing Series (MAN)

196	Contractor Cost Data Reporting
830	Planning Schedule with Release Capability
844	Product Transfer Account Adjustment
846	Inventory Inquiry/Advice
849	Response to Product Transfer Account Adjustment
852	Product Activity Data
861	Receiving Advice/Acceptance Certificate
866	Production Sequence
867	Product Transfer and Resale Report
869	Order Status Inquiry
870	Order Status Report
894	Delivery/Return Base Record
895	Delivery/Return Acknowledgment or Adjustment

Delivery Series (DEL)

219	Logistics Service Request
220	Logistics Service Response
222	Cartage Work Assignment
223	Consolidators Freight Bill and Invoice
224	Motor Carrier Summary Freight Bill Manifest
225	Response to a Cartage Work Assignment
250	Purchase Order Shipment Management Document
853	Routing and Carrier Instruction
854	Shipment Delivery Discrepancy Information
856	Ship Notice/Manifest
857	Shipment and Billing Notice
858	Shipment Information
862	Shipping Schedule
882	Direct Store Delivery Summary Information

Engineering Management & Contract Series (ENG)

196	Contractor Cost Data Reporting
501	Vendor Performance Review
503	Pricing History
504	Clauses and Provisions
536	Logistics Reassignment
561	Contract Abstract
567	Contract Completion Status
568	Contract Payment Management Report
620	Excavation Communication
625	Well Information
650	Maintenance Service Order
805	Contract Pricing Proposal
806	Project Schedule Reporting
836	Procurement Notices

838	Trading Partner Profile
839	Project Cost Reporting
841	Specifications/Technical Information
871	Component Parts Content
896	Product Dimension Maintenance

Insurance/Health Series (INS)

100	Insurance Plan Description
112	Property Damage Report
148	Report of Injury, Illness or Incident
186	Insurance Underwriting Requirements Reporting
252	Insurance Producer Administration
255	Underwriting Information Services
267	Individual Life, Annuity and Disability Application
268	Annuity Activity
270	Eligibility, Coverage or Benefit Inquiry

271	Eligibility, Coverage or Benefit Information
272	Property and Casualty Loss Notification
273	Insurance/Annuity Application Status
274	Health Care Provider Information
275	Patient Information
276	Health Care Claim Status Request
277	Health Care Claim Status Notification
278	Health Care Services Review Information
288	Wage Determination
362	Cargo Insurance Advice of Shipment
500	Medical Event Reporting
820	Premium Payments
834	Benefit Enrollment and Maintenance
835	Health Care Claim Payment/Advice

837	Health Care Claim
924	Loss or Damage Claim - Motor Vehicle
925	Claim Tracer
926	Claim Status Report and Tracer Reply
928	Automotive Inspection Detail

Miscellaneous ANSI X12 Transactions Series (MIS)

101	Name and Address Lists
159	Motion Picture Booking Confirmation
242	Data Status Tracking
814	General Request, Response or Confirmation
815	Cryptographic Service Message
864	Text Message
868	Electronic Form Structure
996	File Transfer
997	Functional Acknowledgment

998	Set Cancellation
999	Implementation Acknowledgment

Mortgage Series (MOR)

197	Real Estate Title Evidence
198	Loan Verification Information
199	Real Estate Settlement Information
200	Mortgage Credit Report
201	Residential Loan Application
202	Secondary Mortgage Market Loan Delivery
203	Secondary Mortgage Market Investor Report
205	Mortgage Note
206	Real Estate Inspection
260	Application for Mortgage Insurance Benefits
261	Real Estate Information Request

262	Real Estate Information Report
263	Residential Mortgage Insurance Application Response
264	Mortgage Loan Default Status
265	Real Estate Title Insurance Services Order
266	Mortgage or Property Record Change Notification
833	Mortgage Credit Report Order
872	Residential Mortgage Insurance Application

Product Services Series (PSS)

140	Product Registration
141	Product Service Claim Response
142	Product Service Claim
143	Product Service Notification
180	Return Merchandise Authorization and Notification
244	Product Source Information
889	Promotion Announcement

Quality and Safety Series (QSS)

138	Testing Results Request and Report
249	Animal Toxicological Data
285	Commercial Vehicle Safety and Credentials Information Exchange
286	Commercial Vehicle Credentials
842	Nonconformance Report
848	Material Safety Data Sheet
863	Report of Test Results

Student Information Series (STU)

130	Student Educational Record (Transcript)
131	Student Educational Record (Transcript) Acknowledgment
135	Student Loan Application
139	Student Loan Guarantee Result
144	Student Loan Transfer and Status Verification
146	Request for Student Educational Record (Transcript)

147	Response to Request for Student Educational Record (Transcript)
188	Educational Course Inventory
189	Application for Admission to Educational Institutions
190	Student Enrollment Verification
191	Student Loan Pre-Claims and Claims
194	Grant or Assistance Application

Air and Motor Series (TAM)

104	Air Shipment Information
106	Motor Carrier Rate Proposal
107	Request for Motor Carrier Rate Proposal
108	Response to a Motor Carrier Rate Proposal
110	Air Freight Details and Invoice
204	Motor Carrier Load Tender
210	Motor Carrier Freight Details and Invoice

211	Motor Carrier Bill of Lading
212	Motor Carrier Delivery Trailer Manifest
213	Motor Carrier Shipment Status Inquiry
214	Transportation Carrier Shipment Status Message
215	Motor Carrier Pick-up Manifest
216	Motor Carrier Shipment Pick-up Notification
217	Motor Carrier Loading and Route Guide
218	Motor Carrier Tariff Information
240	Motor Carrier Package Status
250	Purchase Order Shipment Management Document
601	U.S. Customs Export Shipment Information
602	Transportation Services Tender
715	Intermodal Group Loading Plan
920	Loss or Damage Claim - General Commodities

990	Confirm that you receive the 204
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Ocean Series (TOS)

109	Vessel Content Details
300	Reservation (Booking Request) (Ocean)
301	Confirmation (Ocean)
303	Booking Cancellation (Ocean)
304	Shipping Instructions
309	U.S. Customs Manifest
310	Freight Receipt and Invoice (Ocean)
311	Canadian Customs Information
312	Arrival Notice (Ocean)
313	Shipment Status Inquiry (Ocean)
315	Status Details (Ocean)
317	Delivery/Pickup Order

319	Terminal Information
322	Terminal Operations and Intermodal Ramp Activity
323	Vessel Schedule and Itinerary (Ocean)
324	Vessel Stow Plan (Ocean)
325	Consolidation of Goods In Container
326	Consignment Summary List
350	U.S. Customs Status Information
352	U.S. Customs Carrier General Order Status
353	U.S. Customs Events Advisory Details
354	U.S. Customs Automated Manifest Archive Status
355	U.S. Customs Acceptance/Rejection
356	U.S. Customs Permit to Transfer Request
357	U.S. Customs In-Bond Information
358	U.S. Customs Consist Information

361	Carrier Interchange Agreement (Ocean)
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Rail Series (TRS)

161	Train Sheet
404	Rail Carrier Shipment Information
410	Rail Carrier Freight Details and Invoice
412	Trailer or Container Repair Billing
414	Rail Carhire Settlements
417	Rail Carrier Waybill Interchange
418	Rail Advance Interchange Consist
419	Advance Car Disposition
420	Car Handling Information
421	Estimated Time of Arrival and Car Scheduling
422	Shipper's Car Order
423	Rail Industrial Switch List

425	Rail Waybill Request
426	Rail Revenue Waybill
429	Railroad Retirement Activity
431	Railroad Station Master File
432	Rail Deprescription
433	Railroad Reciprocal Switch File
434	Railroad Mark Register Update Activity
435	Standard Transportation Commodity Code (STCC) Master
436	Locomotive Information
437	Railroad Junctions and Interchanges Activity
440	Shipment Weights
451	Railroad Event Report
452	Railroad Problem Log Inquiry or Advice
453	Railroad Service Commitment Advice

455	Railroad Parameter Trace Registration
456	Railroad Equipment Inquiry or Advice
460	Railroad Price Distribution Request or Response
463	Rail Rate Reply
466	Rate Request
468	Rate Docket Journal Log
470	Railroad Clearance
475	Rail Route File Maintenance
485	Ratemaking Action
486	Rate Docket Expiration
490	Rate Group Definition
492	Miscellaneous Rates
494	Rail Scale Rates

Automotive Series (TAS)

120	Vehicle Shipping Order
121	Vehicle Service
124	Vehicle Damage
125	Multilevel Railcar Load Details
126	Vehicle Application Advice
127	Vehicle Baying Order
128	Dealer Information
129	Vehicle Carrier Rate Update
160	Transportation Automatic Equipment Identification
169	Transportation Appointment Schedule Information