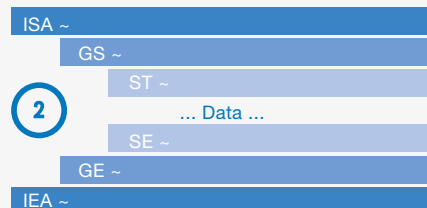


```
ISA*00*  *00*  *01*ABCCOM  *12*9999999999  *101205*1710*U*00401*000001320*0*P*~>
GS*IN*4405197800*9999999999*20101205*1710*1320*X*004010VICS~
ST*810*1004~
BIG*20101204*217224*20101204*P792940~
REF*DP*099~
REF*IA*99999~
N1*ST*92*123~
ITD*01*3***0**60~
IT1*1*4*EA*8.60**UP*999999330023~
PID*F*Item Description~
SAC*C*D240***100~
SAC*C*H750***50~
TDS*21740~
CAD****GTCT**BM*99999~
SE*14*1004~
GE*1*1320~
IEA*1*000001320~
```

Indentation is for graphic effect only. X12 documents are not indented.



For a comprehensive on-demand X12 course, go to www.babelway.com/x12course.



An X12 document is structured by three segment pairs — from top-to-bottom — as pictured above. The bulk of the data, however, generally lies between the ST and SE segments.

1. SEGMENTS & ELEMENTS

An X12 document is made up of two parts:

SEGMENT:

Part of the file that holds specific information, usually separated by a new line. It starts with a three-character segment name (e.g. ITD, SAC, etc.) and ends with a segment terminator character (~ in the example above).

ELEMENT:

The subsection of a segment that contains specific information. Each element is separated by the element separator character (* in the example above). Multiple elements typically reside in a segment. Each can be referenced by its segment name and number in the sequence of elements (e.g. IT101, IT103).

Each segment in an X12 file conveys specific information. For example, the IT1 segment conveys line item information.

IT1*1*4*EA*8.60**UP*999999330023

IT101 - Line Number - 1

IT102 - Quantity - 4

IT103 - Unit of Measure - EA

IT104 - Unit Price - 8.60

IT106 - Qualifier ID - UP - UPC Code

IT107 - UPC Code - 999999330023

A sequence of element separators (e.g. *****) in a segment typically means that either a trading partner has omitted or doesn't provide data for those missing elements.

2. THE 3 HIERARCHIES IN X12

1. The Interchange (ISA) segment — usually one per file — contains information about a trading partner, timestamps, document control numbers, and X12 version. Corresponding closing segment = IEA.
2. The Group (GS) segment contains the same type of information as the ISA segment, with a possible exception of a partner ID tag to distinguish different entities (like departments) of the same organization. Corresponding closing segment = GE.
3. The Transaction (ST) segment signifies the start of the transactions in an X12 document with transaction type code (e.g. 810, 850, 856) and control number. Each transaction type uses many of its own unique segments. Corresponding closing segment = SE.

3. QUALIFIERS

When additional detail about certain data needs to be communicated, elements in a segment can be used to qualify the information in the subsequent field(s). In the example below, a qualifier for SAC (additional charges) in the SAC02 elements (D240 and H750) can reveal whether the charges in another element are related to taxes or freight costs.

SAC*C*D240***100~

SAC*C*H750***50~

4. X12 TRANSMISSION METHODS

Though an X12 document can be exchanged a variety of ways (often depending on your partner), the most popular methods are via AS2 or VAN. Here's the low-down on both:

- **AS2** is a direct connection to a partner. The configuration is relatively simple. You'll need to exchange AS2 specifications and certificates with your partner. You'll upload the partner's AS2 ID and certificate during configuration.
- A **VAN** (value-added network) is an interconnect or a third party that manages the connections between you and a partner. You send an X12 document to your VAN, your VAN sends to your partner's VAN, and then your partner's VAN transmits to your partner.

5. TRADING PARTNER ID

Trading partner IDs in the ISA and GS segments are unique identifiers assigned to an organization and then registered in the VAN network. The IDs tell VANs where they need to transfer X12 documents. In the example X12 document above, the Sender ID in the ISA and GS segments are different because the GS Sender ID Specifies a sub-division within an organization.

ISA Trading Partner Sender ID: 01 / ABCCOM
ISA Trading Partner Receiver ID: 12 / 9999999999

GS Sender ID : 4405197800
GS Receiver ID: 9999999999

Reference for X12 Document Types

If you want to bury yourself in codes, the X12 standard uses hundreds of document types.
We've captured some of the most popular (with their corresponding ID#).

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

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

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

TRANSPORTATION

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 Accept or Decline the 204 Shipment

AUTOMOTIVE SERIES (TAS)

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