

ECRS 810 Invoice Specification • Version 2.1

Overview

This document defines the structure and usage of the 810 Invoice X12 transaction set for ECRS.

ISA – Interchange Control Header

Usage: Mandatory

Purpose: Identifies the start of an interchange and provides sender/receiver IDs, date/time, control numbers, and version info.

Example:

```
ISA*00* *00* *ZZ*ECRSSIS *ZZ*9876543210 *250910*1154*U*00401*000024107*0*P*>~
```

GS – Functional Group Header

Usage: Mandatory

Purpose: Groups related transaction sets and provides application sender/receiver codes, date/time, group control number, and version.

Example:

```
GS*IN*ECRSSIS*9876543210*20250910*1154*24107*X*004010~
```

ST – Transaction Set Header

Usage: Mandatory

Purpose: Indicates the start of a transaction set and assigns a control number.

Fields:



- - **ST01**: Transaction Set Identifier Code (810)
- - **ST02**: Transaction Set Control Number

Example:

ST*810*241070001~

BIG – Beginning Segment for Invoice

Usage: Mandatory

Purpose: Indicates the beginning of the invoice and transmits identifying numbers and dates.

Fields:

- - **BIG01**: Invoice Date (YYYYMMDD)
- - **BIG02**: Invoice Number
- - **BIG04**: Purchase Order Number

Example:

BIG*20250910*8447900**100012345~

N1 – Name

Usage: Mandatory

Purpose: Identifies a party by type of organization, name, and code.

Fields:

- - **N101**: Entity Identifier Code (e.g., ST)
- - **N102**: Name (e.g., ECRS)
- - **N103**: Identification Code Qualifier (e.g., 91)
- - **N104**: Identification Code (Account Number, Ship-To Number)

Example:

N1*ST*ECRS*91*9876543210~

N3 – Address Information

Usage: Optional



Purpose: Provides address information.

Fields:

- - **N301:** Street Address

Example:

N3*123 Main Street~

N4 – Geographic Location

Usage: Optional

Purpose: Provides geographic location information.

Fields:

- - **N401:** City Name
- - **N402:** State or Province Code
- - **N403:** Postal Code

Example:

N4*Boone*NC*28607~

IT1 – Baseline Item Data (Invoice)

Usage: Mandatory

Purpose: Specifies basic line-item data.

Fields:

- - **IT102:** Quantity Invoiced
- - **IT103:** Unit of Measurement Code (EA, CS)
- - **IT104:** Unit Cost (Negative values are not supported)
- - **IT106:** Product ID Qualifier, UPC (UP)
- - **IT107:** Product ID, UPC
- - **IT108:** Product ID Qualifier, Vendor Code (VC)
- - **IT109:** Product ID, Vendor Code

Example:



IT1**1*EA*3.04**UP*037000458685*VC*3548047~

PID – Product/Item Description

Usage: Optional

Purpose: Describes the product.

Fields:

- - **PID01**: F (free-form text indicator)
- - **PID05**: Product Description

Example:

PID*F****CREST VIVID WHT 4.1OZ RFRS MNT~

PO4 – Item Physical Details

Usage: Optional

Purpose: Specifies item pack size.

Fields:

- - **PO401**: Item Pack Quantity (Use “1” if item is an Each (EA))
- - **PO402**: Item Unit Size
- - **PO403**: Item Unit Measurement

Example:

PO4*6*4*OZ~

SAC – Service, Promotion, Allowance, or Charge Information

Usage: Optional

Purpose: Specifies charges or allowances.

- - After PO4 for item-level allowances or charges.
- - After TDS for summary-level allowances or charges.

Fields:

- - **SAC01**: Value type (e.g., A for Allowance, C for Charge)



- - **SAC02**: Service, Promotion, Allowance, or Charge Code (e.g., D240 = Freight Charge, D260 = Fuel Charge)
- - **SAC05**: Monetary Value Amount

Example:

SAC*C*D240***500~

SAC*C*D260***100~

TDS – Total Monetary Value Summary

Usage: Mandatory

Purpose: Specifies total invoice amount.

Fields:

- - **TDS01**: Total invoice amount (e.g., 1580 = \$15.80)

Example:

TDS*1580~

CTT – Transaction Totals

Usage: Mandatory

Purpose: Provides the count of line items in the transaction set.

Fields:

- - **CTT01**: Number of Line Items

Example:

CTT*4~

SE – Transaction Set Trailer

Usage: Mandatory

Purpose: Indicates the end of the transaction set and provides the count of transmitted segments.

Fields:

- - **SE01**: Number of Included Segments



- - **SE02:** Transaction Set Control Number

Example:

SE*29*241070001~

GE/IEA – Group/Interchange Trailers

Usage: Mandatory

Purpose: Marks the end of the functional group/interchange.

Example:

GE*1*24107~

IEA*1*000024107~