

**Electronic Data Interchange
Transaction Set Implementation Guide**

810

**State Farm Insurance Companies
Premier Services Invoice**

**ANSI ASC X12
Invoice
Version 004010**

Implementation Guide Version 1.0.3

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1 Purpose and Business Overview

1.1 Document Purpose

The purpose of the Premier Services Invoice implementation guide is to provide standardized data requirements and content to all users of ASC X12, Invoice, referred to by its identifier 810. The guide provides a detailed explanation of the transaction set by defining uniform data content and identifying valid code tables and specifying values applicable for the Premier Services Invoice. This will aid users in the successful migration from their own internal format to the ASC X12 standards required by State Farm Insurance Companies.

This implementation guideline is designed to assist those who send invoice information to State Farm Insurance Companies. Expected users of this implementation guide include State Farm Insurance Companies, State Farm Premier Service Program Material Suppliers and State Farm Premier service Program Contractors doing business with State Farm Insurance Companies.

This implementation guide has limited the data content to the business requirements identified from the Premier Services Invoice process. The ability to satisfy the data requirements has been provided in this guide. As new business requirements are identified, changes to this implementation guide can be made by contacting State Farm Insurance Companies.

1.2 Version and Release

The State Farm Insurance Companies Premier Services Invoice Implementation Guide is based on ASC X12 standards. It is based on the standard approved for publication in October of 1997, referred to as Version 4 Release 1 (004010).

1.3 Business Definition and Usage

The 810 transaction set is used by State Farm Insurance Companies to receive Point of Sale Invoice and Credit return information from State Farm Premier Service Program Material Suppliers and Invoices from State Farm Premier service Program Contractor. The 810 transmission file will be generated by State Farm Premier Service Program Material Suppliers and State Farm Premier service Program Contractors and transmitted to State Farm Insurance Companies. This file will be used to update State Farm Insurance Companies internal invoice database.

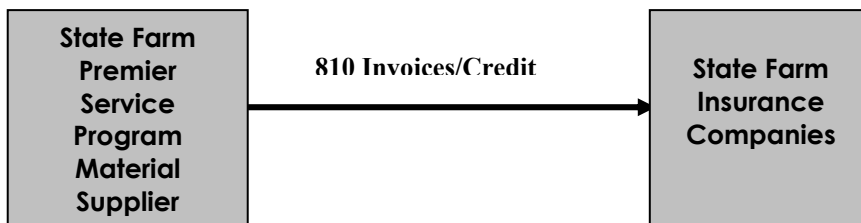
1.4 Contact Information

To contact State Farm about this guide or a production problem with the implementation of this guide call **1 (877) 766-6371**. Your call will be answered by a voice menu that will give you two options. Choose the option for "**Corporate Employees**" and stay on the line. When a representative answers, request help with "**EDI (Electronic Data Interchange)**". They will route your call to someone who will assist you.

1.5 Information Flow

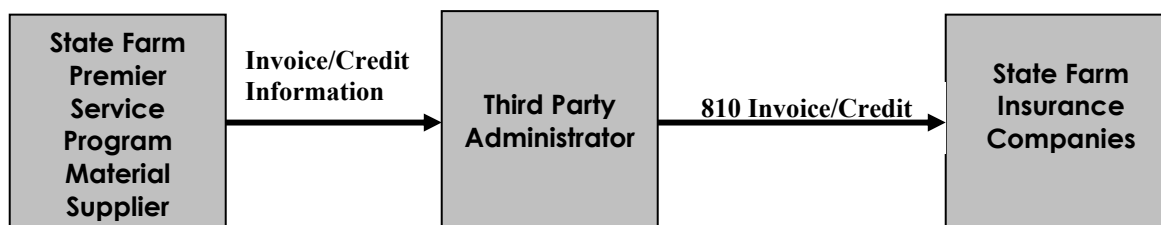
- This guide is designed to handle the following four information flows:

1.5.1 Material Supplier sends the Bill.



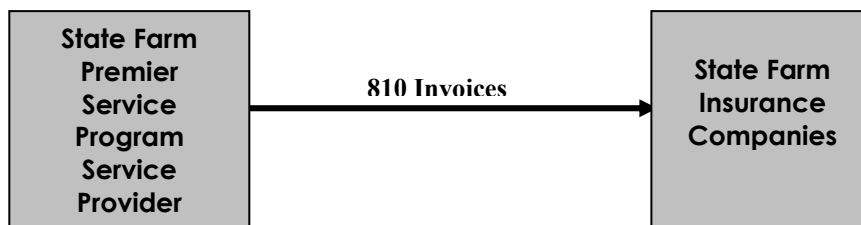
State Farm Premier Service Program Material Supplier creates an 810 file with one or more Invoices or credits and sends it to State Farm.

1.5.2 Material Supplier uses Third Party to send the Bill.



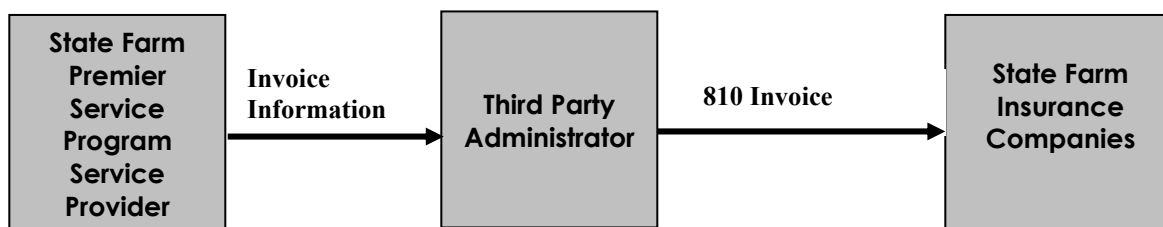
State Farm Premier Service Program Material Supplier sends Invoice Information to Third Party. Third party Administrator in turn creates 810 file with one or more Invoices or credits and sends it to State Farm.

1.5.3 Service Provider sends the Bill.



State Farm Premier Service Program Service Provider creates an 810 file with one or more Invoices or credits and sends it to State Farm.

1.5.4 Service Provider uses Third Party to send the Bill.



State Farm Premier Service Program Service Provider sends Invoice Information to Third Party. Third party Administrator in turn creates 810 file with one or more Invoices or credits and sends it to State Farm.

1.6. Parties Information

- An invoice or bill typically has one or more businesses or individuals associated to it. These can be thought of as parties to the bill.
- This section outlines what parties to the bill/invoice are expected given the variety of business scenarios. It also outlines which parties are required given the business scenarios.

1.6.1. Material Supplier sending Invoices for Materials

	Material supplier	Material Supplier - Point of Sale	Service Provider	Authorized Buyer	3rd Party Biller
Material Supplier is not the Service Provider and doesn't use Third Party Biller.	Required (P)	Optional (P)	Required	Optional	Not Used
Material Supplier is not the Service Provider and uses Third Party Biller.	Required (P)	Optional (P)	Required	Optional	Required (P)
Material Supplier is the Service Provider and doesn't use Third Party Biller.	Required (P)	Optional (P)	Optional (P)	Not Used	Not Used
Material Supplier is the Service Provider and uses Third Party Biller.	Required (P)	Optional (P)	Optional (P)	Not Used	Required (P)

1.6.2 Material Supplier sending Invoices for Labor

	Material supplier	Material Supplier - Point of Sale	Service Provider	Authorized Buyer	3rd Party Biller
Material Supplier is the Service Provider and doesn't use Third Party Biller.	Required (P)	Optional (P)	Optional (P)	Not Used	Not Used
Material Supplier is the Service Provider and uses Third Party Biller.	Required (P)	Optional (P)	Optional (P)	Not Used	Required (P)

1.6.3 Service Provider sending Invoices

	Material supplier	Material Supplier - Point of Sale	Service Provider	Authorized Buyer	3rd Party Biller
Service Provider doesn't use Third Party Biller.	Not Used	Not Used	Required (P)	Not Used	Not Used
Service Provider uses Third Party Biller.	Not Used	Not Used	Required (P)	Not Used	Required (P)

Note:

1. (P) Indicates that party can be marked as Payee in this situation. When a party is marked as Payee then the Name and address of the party are required. Only one party can be marked as Payee per Invoice.
2. Material Supplier party/segment is to be used to pass information of the Corporate Headquarters or Central office, which may send the Invoice or receive the payment.

1.7. EDI Transaction Elements

- This section outlines all the segments in the guide for Point of Sale Invoice and Credit Returns.

810 Table	810 Segment Element	Invoice			Credit		
		Field Name	Required / Optional	Description	Field Name	Required / Optional	Description
Table 1	BIG01	Invoice Date	Required	This is the date on which the billing entity recognizes the bill.	Credit Date	Required	This is the date on which the billing entity recognizes the bill.
Table 1	BIG02	Transaction Number	Required	An external reference number that identifies a particular point of sale bill sent by a business or individual	Transaction Number	Required	An external reference number that identifies a particular point of sale bill sent by a business or individual
Table 1	BIG03	Transaction date	Required	This is the date on which the item(s) are purchased at the point of sale	Transaction date	Required	This is the date on which the item(s) are purchased at the point of sale
Table 1	BIG04	Claim Number	Required	Claim number provided by the authorized purchaser when purchasing the materials	Claim Number	Required	Claim number provided by the authorized purchaser when purchasing the materials
Table 1	BIG07	Transaction Type	Required	Code specifying the type of transaction (DI - Debit Invoice)	Transaction Type	Required	Code specifying the type of transaction (CN - Credit Invoice)
Table 1	CUR02	Currency	Required	USD for US transactions & CAD for Canadian Transactions.	Currency	Required	USD for US transactions & CAD for Canadian Transactions.

810 Table	810 Segment Element	Invoice			Credit		
		Field Name	Required / Optional	Description	Field Name	Required / Optional	Description
The Material Supplier segment as a whole is Situational .							
Table 1	N102	Material Supplier Name	Required	Name of Material Supplier.	Material Supplier Name	Required	Name of Material Supplier.
	N104	Identification code	Required	Tax Identification Number for US or Duns and Bradstreet Number for Canada.	Identification code	Required	Tax Identification Number for US or Duns and Bradstreet Number for Canada.
	N106	Payee Indicator	Situational	To whom the money is to be sent	Not Applicable.		
	N301	Address	Situational	Street address of Material Supplier.	Address	Optional	Street address of Material Supplier.
	N401	City Name	Situational	City Name of Material Supplier.	City Name	Optional	City Name of Material Supplier.
	N402	State or Province	Situational	State or province of Material Supplier.	State or Province	Optional	State or province of Material Supplier.
	N403	Postal code	Situational	ZIP / Postal Code of Material Supplier.	Postal code	Required	ZIP / Postal Code of Material Supplier.
	N404	Country Code	Situational	Country code of Material Supplier	Country Code	Situational	Country code of Material Supplier
	REF02	Material Supplier Internal ID	Optional	An internal key or ID used to identify the bill by the Material Supplier.	Material Supplier Internal ID	Optional	An internal key or ID used to identify the bill by the Material Supplier.
	PER02	Contact Name	Optional	Contact person name	Contact Name	Optional	Contact person name
	PER04/ PER06/ PER08	Phone Number	Optional	Voice phone number of the Material Supplier.	Phone Number	Optional	Voice phone number of the Material Supplier.
		Fax Number	Optional	Fax number of the Material Supplier.	Fax Number	Optional	Fax number of the Material Supplier.
Email Address		Optional	External Internet email address of the Material Supplier.	Email Address	Optional	External Internet email address of the Material Supplier.	

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810 Table	810 Segment Element	Invoice			Credit		
		Field Name	Required / Optional	Description	Field Name	Required / Optional	Description
The Material Supplier - Point of sale segment as a whole is Optional .							
Table 1	N102	Point of sale name	Situational	Name of Point of sale location.	Point of sale name	Situational	Name of Point of sale location.
	N104	Identification Number	Optional	Tax Identification Number for US or Duns and Bradstreet Number for Canada.	Identification Number	Optional	Tax Identification Number for US or Duns and Bradstreet Number for Canada.
	N106	Payee Indicator	Situational	To whom the money is to be sent	Not Applicable.		
	N301	Address	Situational	Street address of Point of Sale provider.	Address	Optional	Street address of Point of Sale provider.
	N401	City Name	Situational	City Name of Point of Sale provider.	City Name	Optional	City Name of Point of Sale provider.
	N402	State or Province	Situational	State or province of Point of Sale Provider.	State or Province	Optional	State or province of Point of Sale Provider.
	N403	Postal code	Situational	ZIP / Postal Code of Point of Sale provider.	Postal code	Situational	ZIP / Postal Code of Point of Sale provider.
	N404	Country Code	Situational	Country code of Point of Sale provider	Country Code	Situational	Country code of Point of Sale provider
	N406	Additional Identification Code	Optional	Point of sale store number as defined by the Material Supplier.	Additional Identification Code	Optional	Point of sale store number as defined by the Material Supplier.
	PER02	Contact Name	Optional	Contact person name	Contact Name	Optional	Contact person name
	PER04/ PER06/ PER08	Phone Number	Optional	Voice phone number of the point of sale store.	Phone Number	Optional	Voice phone number of the point of sale store.
		Fax Number	Optional	Fax number of the point of sale store.	Fax Number	Optional	Fax number of the point of sale store.
		Email Address	Optional	External Internet email address of the point of sale store.	Email Address	Optional	External Internet email address of the point of sale store.

810 Table	810 Segment Element	Invoice			Credit		
		Field Name	Required / Optional	Description	Field Name	Required / Optional	Description
The service provider segment as a whole is Situational . Required from goods suppliers. If this is left blank, the Material Supplier is assumed to be the service provider.							
Table 1	N102	Service Provider Name	Required	Contractor Name or Authorized Buyer.	Service Provider Name	Required	Contractor Name or Authorized Buyer.
	N104	Identification code	Required	Tax Identification Number for US or Duns and Bradstreet Number for Canada.	Identification code	Required	Tax Identification Number for US or Duns and Bradstreet Number for Canada.
	N106	Payee Indicator	Situational	To whom the money is to be sent	Not Applicable.		
	N301	Address	Situational	Street address of Service provider.	Address	Optional	Street address of Service provider.
	N401	City Name	Situational	City Name of Service provider.	City Name	Optional	City Name of Service provider.
	N402	State or Province	Situational	State or province of Service Provider.	State or Province	Optional	State or province of Service Provider.
	N403	Postal code	Situational	ZIP / Postal Code of Service provider.	Postal code	Situational	ZIP / Postal Code of Service provider.
	N404	Country Code	Situational	Country code of Service provider	Country Code	Situational	Country code of Service provider
	PER02	Contact Name	Optional	Contact person name	Contact Name	Optional	Contact person name
	PER04/ PER06/ PER08	Phone Number	Optional	Voice phone number of the service provider.	Phone Number	Optional	Voice phone number of the service provider.
		Fax Number	Optional	Fax number of the service provider.	Fax Number	Optional	Fax number of the service provider.
Email Address		Optional	External Internet email address of the service provider.	Email Address	Optional	External Internet email address of the service provider.	

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810 Table	810 Segment Element	Invoice			Credit		
		Field Name	Required / Optional	Description	Field Name	Required / Optional	Description
The authorized buyer segment as a whole is SITUATIONAL .							
Table 1	N102	Authorized buyer name	Optional	Name of the contractor or sub-contractor authorized by the contract to purchase materials.	Authorized buyer name	Optional	Name of the contractor or sub-contractor authorized by the contract to purchase materials.
	N104	Identification code	Optional	Tax Identification Number for US or Duns and Bradstreet Number for Canada.	Identification code	Optional	Tax Identification Number for US or Duns and Bradstreet Number for Canada.
	N301	Address	Optional	Street address of Authorized Buyer	Address	Optional	Street address of Authorized Buyer
	N401	City Name	Optional	City name of Authorized Buyer	City Name	Optional	City name of Authorized Buyer
	N402	State or Province	Optional	State or province of Authorized Buyer.	State or Province	Optional	State or province of Authorized Buyer.
	N403	Postal code	Optional	ZIP / Postal Code of Authorized Buyer.	Postal code	Optional	ZIP / Postal Code of Authorized Buyer.
	N404	Country Code	Optional	Country code of Authorized Buyer	Country Code	Optional	Country code of Authorized Buyer
	PER02	Contact Name	Optional	Contact person name	Contact Name	Optional	Contact person name
	PER04/ PER06/ PER08	Phone Number	Optional	Voice phone number of the authorized buyer.	Phone Number	Optional	Voice phone number of the authorized buyer.
		Fax Number	Optional	Fax number of the authorized buyer.	Fax Number	Optional	Fax number of the authorized buyer.
Email Address		Optional	External Internet email address of the authorized buyer.	Email Address	Optional	External Internet email address of the authorized buyer.	

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810 Table	810 Segment Element	Invoice			Credit		
		Field Name	Required / Optional	Description	Field Name	Required / Optional	Description
The Third Party Biller as a whole is Situational . If this is left blank, the Material Supplier is assumed to be the Biller.							
Table 1	N102	Third Party Biller name	Required	Name of the Corporate Office, which sends the bill.	Third Party Biller name	Required	Name of the Corporate Office, which sends the bill.
	N104	Identification code	Required	Tax Identification Number for US or Duns and Bradstreet Number for Canada.	Identification code	Required	Tax Identification Number for US or Duns and Bradstreet Number for Canada.
	N106	Payee Indicator	Situational	To whom the money is to be sent	Not Applicable.		
	N301	Address	Situational	Street address of Third Party Biller.	Address	Optional	Street address of Third Party Biller.
	N401	City Name	Situational	City Name of Third Party Biller.	City Name	Optional	City Name of Third Party Biller.
	N402	State or Province	Situational	State or province of Third Party Biller.	State or Province	Optional	State or province of Third Party Biller.
	N403	Postal code	Situational	ZIP / Postal Code of Third Party Biller.	Postal code	Optional	ZIP / Postal Code of Third Party Biller.
	N404	Country Code	Situational	Country code of Third Party Biller	Country Code	Situational	Country code of Third Party Biller
	REF02	Third Party Biller Internal ID	Optional	An internal key or ID that identifies a bill by the Third Party Biller who generates the bill.	Third Party Biller Internal ID	Optional	An internal key or ID that identifies a bill by the Third Party Biller who generates the bill.
	PER02	Contact Name	Optional	Contact person name	Contact Name	Optional	Contact person name
	PER04/ PER06/ PER08	Phone Number	Optional	Voice phone number to call in case of questions with the bill.	Phone Number	Optional	Voice phone number to call in case of questions with the bill.
		Fax Number	Optional	Fax number of the Third Party Biller.	Fax Number	Optional	Fax number of the Third Party Biller.
		Email Address	Optional	External Internet email address of the Third Party Biller.	Email Address	Optional	External Internet email address of the Third Party Biller.

810 Table	810 Segment Element	Invoice			Credit		
		Field Name	Required / Optional	Description	Field Name	Required / Optional	Description
The Insurance Entity segment as a whole is Required .							
Table 1	N102	Insurance Entity name	Required	State Farm, to whom the Bill is sent.	Insurance Entity name	Required	State Farm, to whom the Bill is sent.
	N301	Address	Optional	Street address of Insurance Entity.	Address	Optional	Street address of Insurance Entity.
	N401	City Name	Optional	City Name of Insurance Entity.	City Name	Optional	City Name of Insurance Entity.
	N402	State or Province	Optional	State or province of Insurance Entity.	State or Province	Optional	State or province of Insurance Entity.
	N403	Postal code	Optional	ZIP / Postal Code of Insurance Entity.	Postal code	Optional	ZIP / Postal Code of Insurance Entity.
	N404	Country Code	Optional	Country code of Insurance Entity.	Country Code	Optional	Country code of Insurance Entity.
	REF02	Insurance Entity Internal ID	Situational	An internal key or ID used to identify the Claim or Bill in State Farm. This is called System ID or Bill ID.	Insurance Entity Internal ID	Situational	An internal key or ID used to identify the Claim or Bill in State Farm. This is called System ID or Bill ID.
REF02	Insurance Entity Billing Account Number	Optional	Account number as defined by the Material Supplier, which identifies the service provider in their system.	Insurance Entity Billing Account Number	Optional	Account number as defined by the Material Supplier, which identifies the service provider in their system.	
Table 1	DTM02	Due Date	Optional	Date before which payment is to be made.	Not Applicable.		
Table 2	IT102	Item Quantity	Optional	Quantity of item purchased.	Item Quantity	Optional	Quantity of item purchased.
Table 2	IT103	Item Unit of Measure Code	Optional	Unit of Measure.	Item Unit of Measure Code	Optional	Unit of Measure.
Table 2	IT104	Amount - Unit Price	Optional	Unit price of the item purchased.	Amount - Unit Price	Optional	Unit price of the item purchased.
Table 2	IT107	Material/Labor Indicator	Required	Indicates whether item is to be classified under material bill or labor bill.	Material/Labor Indicator	Required	Indicates whether item is to be classified under material bill or labor bill.
Table 2	IT109	SKU or Line Item Id	Required	Line Item Identification Number.	SKU or Line Item Id	Required	Line Item Identification Number.

810 Table	810 Segment Element	Invoice			Credit		
		Field Name	Required / Optional	Description	Field Name	Required / Optional	Description
Table 2	IT111	Group Code	Required	Group level, under which line item is classified. For example Carpet might be classified under Flooring (FL).	Group Code	Required	Group level, under which line item is classified. For example Carpet might be classified under Flooring (FL).
Table 2	IT113	Manufacturer Code	Optional	Identifier of where this line item was produced.	Manufacturer Code	Optional	Identifier of where this line item was produced.
Table 2	PID05	Description of Line Item	Required	Description of the line item.	Description of Line Item	Required	Description of the line item.
Table 3	TDS01	Amount Billed	Required	Amount of Invoice.	Amount Billed	Required	Amount of Invoice.
Table 3	TDS03	Amount Due	Required	This is the amount due to the payee from State Farm.	Amount Due	Required	This is the amount due to State Farm from the biller.
Table 3	TDS04	Amount Discount	Optional	Amount of discount State Farm can take for each bill.	Amount Discount	Optional	This is the credit discount amount refunded to the biller
Table 3	TXI02	Amount Total Tax	Optional	Amount Billed - Sub total.	Amount Total Tax	Optional	Amount Billed - Sub total.
Table 3	TXI02	Provisional Sales Tax (PST)	Optional	Provisional Tax used in Canada.	Provisional Sales Tax (PST)	Optional	Provisional Tax used in Canada.
Table 3	TXI02	Goods Service Tax (GST)	Optional	This is the federal tax in Canada.	Goods Service Tax (GST)	Optional	This is the federal tax in Canada.
Table 3	TXI02	Harmonized Sales Tax (HST)	Optional	This is PST + GST used in Canada.	Harmonized Sales Tax (HST)	Optional	This is PST + GST used in Canada.
Table 3	TXI02	Quebec Sales Tax (QST)	Optional	This is provisional Tax used in Canada.	Quebec Sales Tax (QST)	Optional	This is provisional Tax used in Canada.
Table 3	CTT01	Number of Line Items	Optional	Total number of line items in the transaction set	Number of Line Items	Optional	Total number of line items in the transaction set
Table 3	CTT02	Hash Total	Optional	Sum of values of the specified data element.	Hash Total	Optional	Sum of values of the specified data element.

2 Data Overview

2.1 Overall Data Architecture

- **NOTE**
For a review of transaction set structure, including descriptions of segments, data elements, levels and loops, see Appendix A, ASC X12 Nomenclature.

2.1.1 The Premier Services Invoice/Credit Process

The Premier Services Invoice/Credit implementation of the 810 is used to update State Farm Insurance Companies internal database. This is accomplished by receiving an 810 transmission file from State Farm Premier Service Program Material Suppliers and State Farm Premier service Program Contractors. These records are then matched to the internal invoice database and records are updated accordingly.

2.2 Data Usage by Business Usage

The 810 is divided into three tables, Table 1 (Header), Table 2 (Detail), and Table 3 (Summary). See **Section 3, Transaction Set**, for a description of the following presentation format.

- Table 1, the Header level, contains general information about the transaction.
- Table 2, the Detail level, contains the line item detail information.
- Table 3, the Summary level, contains the totals, tax, a segment count and control number.

3 Transaction Set

- **NOTE**
For a review of the transaction set structure including descriptions of segments, data elements, levels and loops, see **Appendix A, ASC X12 Nomenclature**.

3.1 Presentation Examples

The ASC X12 standards are generic in nature. For example, multiple trading communities use the same PER segment to specify administrative communication contacts. Each community decides which elements to use and which code values in those elements are applicable. This guide uses a format that depicts both the generalized standard and the State Farm Insurance Company's specific implementation.

The transaction set detail is comprised of two main sections with subsections within the main sections:

- Transaction Set Listing
 - Implementation
 - Standard
- Segment Detail
 - Implementation
 - Standard
 - Diagram
 - Element Summary

The examples in Figures 3 through 8 define the presentation of the Transaction Set, which follows. The figures use the 834 transaction set for examples only of how to interpret the presentation format that follows.

IMPLEMENTATION



Indicates that this section is how State Farm Insurance Companies is implementing the transaction/segment and not the standard

834 Benefit Enrollment and Maintenance
Functional Group: **BE**

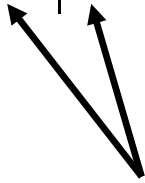
Table 1 – Header

Each segment is assigned State Farm specific name. Segments or loops that aren't used do not appear. Each loop (shaded in gray) is assigned a State Farm specific name as well.



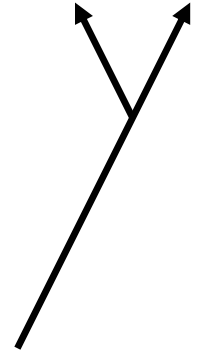
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POS.NO.	SEG.ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
010	ST	Transaction Set Header	R	1	
020	BGN	Beginning of Dental Eligibility Data	R	1	
LOOP ID - 1000					1
070	N1	Sender Name	R	1	
090	N3	Sender Address	O	1	
100	N4	Sender City, State and Zip	O	1	
		Sender Contact Information	O	1	



Position Numbers and Segment ID's retain their ASC X12 values

*R = Required
O = Optional
S = Situational*



Segment repeats and loop repeats reflect actual usage. Individual segments and entire loops are repeated if the business needs require it

Figure 3. Transaction Set Key – IMPLEMENTATION

STANDARD



Indicates that this section is identical to the ASC X12 standard See Appendix A, ASC X12 Nomenclature for a complete description of the standard

834 Benefit Enrollment and Maintenance

Functional Group: **BE**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Benefit Enrollment and Maintenance Transaction Set (834) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used to establish communication between the sponsor of the insurance product and the payer. Such transaction(s) may or may not take place through a third party administrator (TPA).

For the purpose of this standard, the sponsor is the party or entity that ultimately pays for the coverage, benefit or product. A sponsor can be an employer, union, government agency, association, or insurance agency.

The payer refers to an entity that pays claims, administers the insurance product or benefit, or both. A payer can be an insurance company, health maintenance organization (HMO), preferred provider organization (PPO), government agency (Medicare, Medicaid, Champus, etc.), or an entity that may be contracted by one of these former groups.

For the purpose of the 834 transaction set, a third party administrator (TPA) can be contracted by a sponsor to handle data gathering from those covered by the sponsor if the sponsor does not elect to perform this function itself.

Table 1 – Header

POS. NO.	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
010	ST	Transaction Set Header	M	1	
020	BGN	Beginning Segment	M	1	
030	REF	Reference Identification	O	>1	
040	DTP	Date or Time or Period	O	>1	
050	AMT	Monetary Amount	O	>1	

Figure 4. Transaction Set Key – STANDARD

IMPLEMENTATION

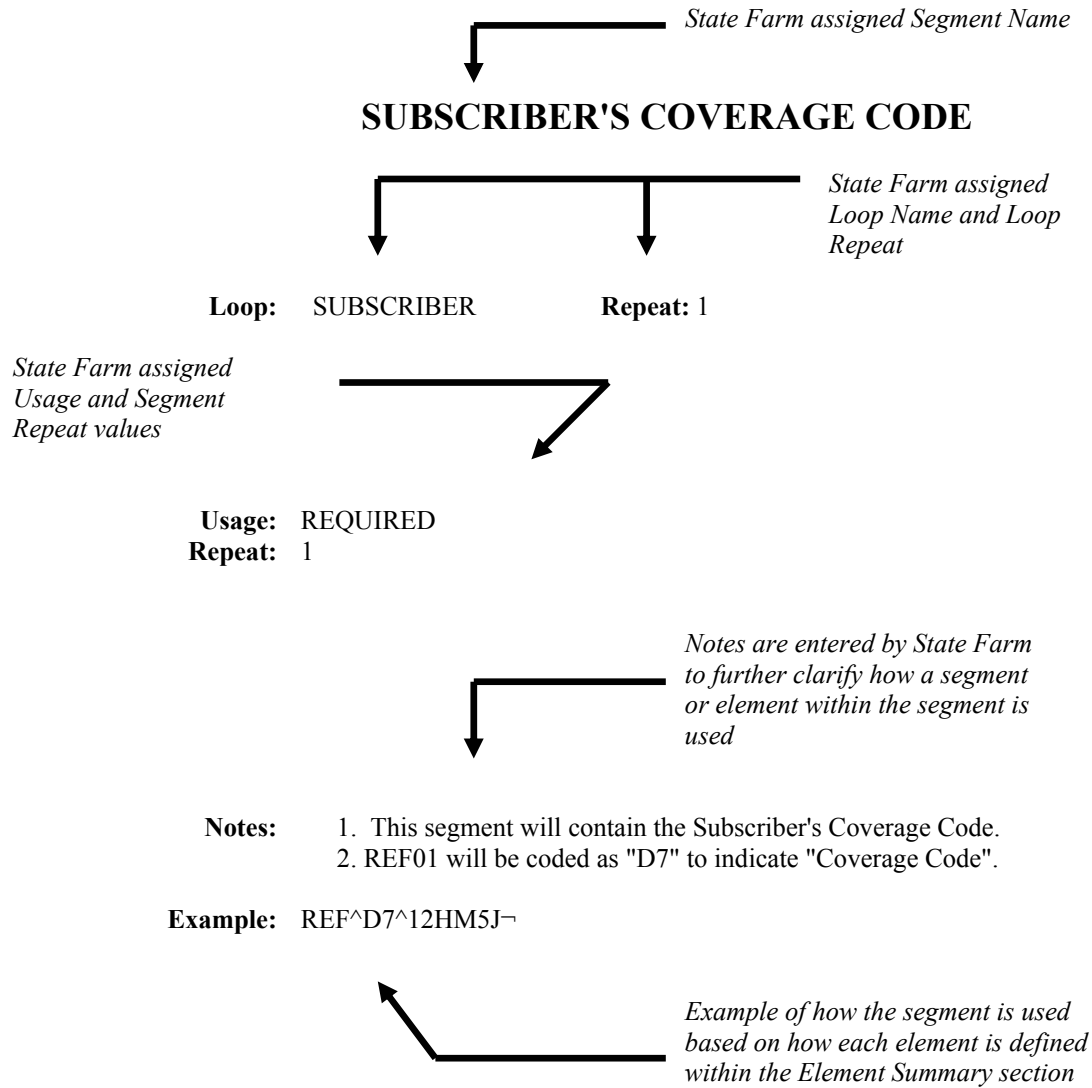


Figure 5. Segment Key – IMPLEMENTATION

STANDARD

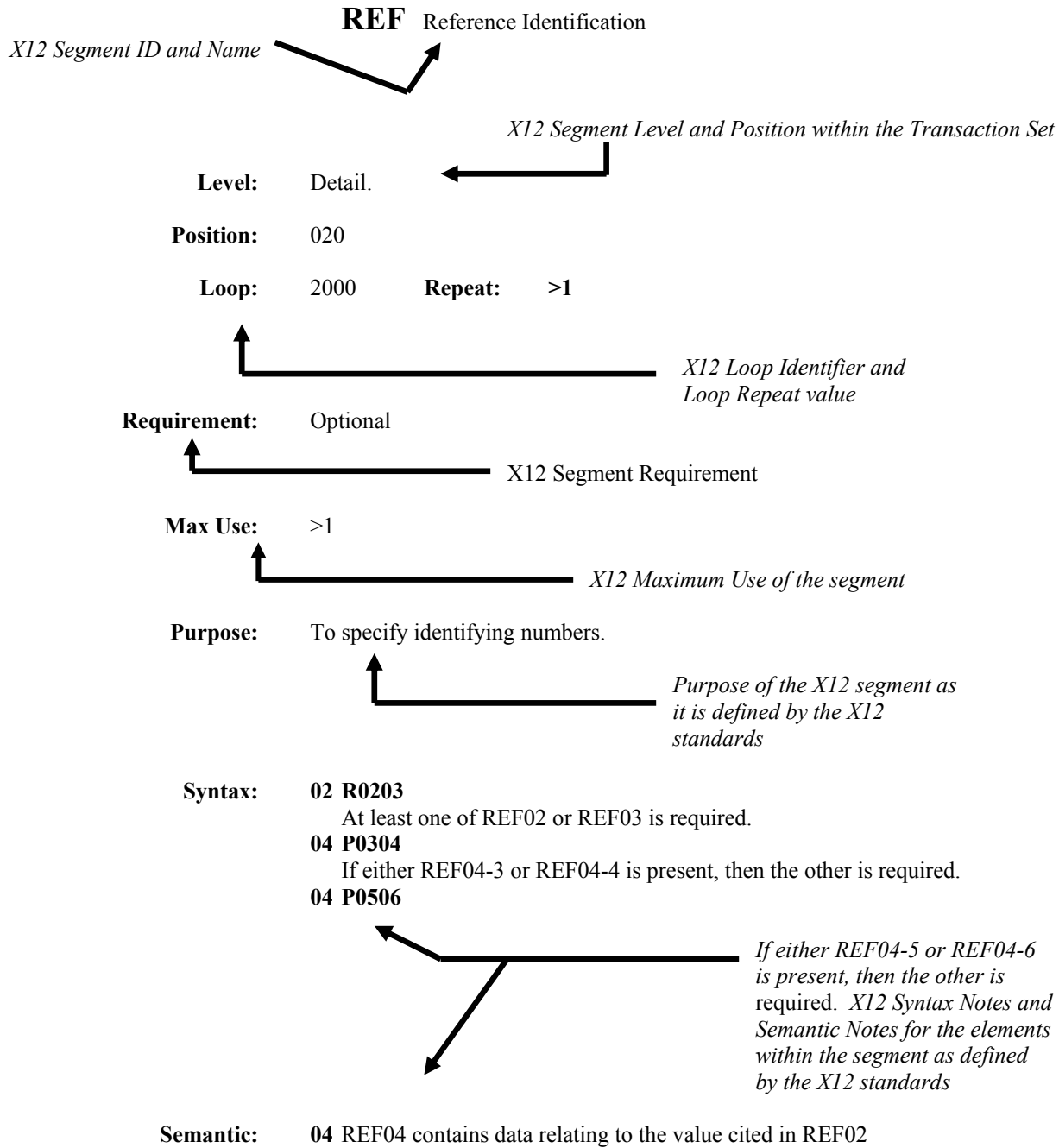
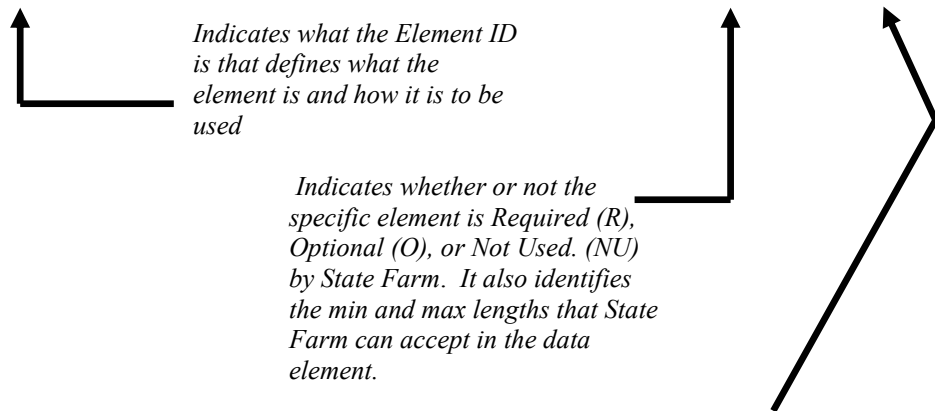


Figure 6. Segment Key - STANDARD

DIAGRAM

*Indicates the element Number/Sequence
Number of the element within the segment*

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
REF01	128	Reference Identification Qualifier	R 2/3	M ID 2/3
REF02	127	Reference Identification	R 1/30	X AN 1/30
REF03	352	Description	NU	X AN 1/80
REF04	C040	Reference Identifier	NU	O/Z



This section is made up of three distinct pieces. All of the information contained in this box is based on the actual X12 standard for the segment. The first piece of information on the far left is called the "Requirements Designator". This piece is based upon the X12 standards for the segment whereas The "SF Req." box to the immediate left indicates requirements based on State Farm's needs. The designators used here are Mandatory (M), Optional (O) and Relational (X). If a "Z" follows the Requirements Designator, that indicates a Semantic Note is available to identify what the intended use of the element is. The semantic note on the element can be found in the STANDARDS section. The information in the center is the Data Type of the element. The information on the right side indicates what the minimum and maximum lengths are for the data element.

Figure 7. Segment Key – DIAGRAM

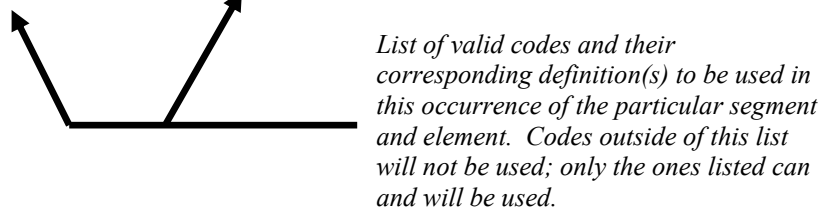
ELEMENT SUMMARY



REF01 Reference Identification Qualifier
Code Qualifying the Reference Identification

This element will contain the Reference Identification Qualifier, which qualifies the information found in REF02 that follows.

<u>CODE</u>	<u>DEFINITION</u>
D7	Coverage Code



REF02 Reference Identification
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

This element will contain the Coverage Code

REF03 Description
A free-form description to clarify the related data elements and their content

If used, this element will contain a further description of the coverage code that is found in REF02.

REF04 Reference Identifier
To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

This element is Not Used by State Farm

Lines in bold after each element and the Element's description are notes from State Farm that help explain our use (or non-use) of the data element.

Figure 8. Segment Key - ELEMENT SUMMARY

This completes section 3.1, which explains the format that is used starting on the next page. The actual implementation guide for the Premier Services Invoice process follows:

3.2 Transaction Set Listing

IMPLEMENTATION

810 Premier Services Invoice/Credit (Implementation Version)

Functional Group: IN

Table 1 - Header

POS.NO.	SEG.ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
010	ST	Transaction Set Header	R	1	
020	BIG	Beginning Segment for Invoice	R	1	
040	CUR	Currency	R	1	
LOOP ID – Material Supplier Information					1
070	N1	Material Supplier Name	S	1	
090	N3	Material Supplier Address Information	S	1	
100	N4	Material Supplier Geographic Location	S	1	
110	REF	Material Supplier Internal Identification Number	O	1	
120	PER	Material Supplier Administrative Communications Contact	O	1	
LOOP ID – Material Supplier - Point of Sale Information					1
070	N1	Material Supplier - Point of Sale Name	S	1	
090	N3	Material Supplier - Point of Sale Address Information	S	1	
100	N4	Material Supplier - Point of Sale Geographic Location	S	1	
120	PER	Material Supplier - Point of Sale Administrative Communications Contact	O	1	
LOOP ID – Service Provider Information					1
070	N1	Service Provider Name	S	1	
090	N3	Service Provider Address Information	S	1	
100	N4	Service Provider Geographic Location	S	1	
120	PER	Service Provider Administrative Communications Contact	O	1	
LOOP ID – Authorized Buyer Information					1
070	N1	Authorized Buyer Name	O	1	
090	N3	Authorized Buyer Address Information	O	1	
100	N4	Authorized Buyer Geographic Location	O	1	
120	PER	Authorized Buyer Administrative Communications Contact	O	1	

LOOP ID – Third Party Biller Information					1
070	N1	Third Party Biller Name	S	1	
090	N3	Third Party Biller Address Information	S	1	
100	N4	Third Party Biller Geographic Location	S	1	
110	REF	Third Party Biller Internal Identification Number	O	1	
120	PER	Third Party Biller Administrative Communications Contact	O	1	
LOOP ID – Insurance Entity Information					1
070	N1	Insurance Entity Name	R	1	
090	N3	Insurance Entity Address Information	O	1	
100	N4	Insurance Entity Geographic Location	O	1	
110	REF	Insurance Entity Internal Identification Number	S	1	
110	REF	Insurance Entity Billing Account Number	O	1	
140	DTM	Due Date	O	1	

Table 2 – Detail

POS.NO.	SEG.ID	NAME	REQ.	MAX	LOOP
		LOOP ID – Invoice			30000
010	IT1	Baseline Item Data	R	1	
		LOOP ID – Product/Item Description			1
060	PID	Product/Item Description	R	1	
150	DTM	Purchase Date	O	1	
		LOOP ID – Store Name			1
240	N1	Store Name	O	1	

Table 3 – Trailer

POS.NO.	SEG.ID	NAME	REQ.	MAX	LOOP
010	TDS	Total Monetary Value Summary	R	1	
020	TXI	Tax Information	O	2	
070	CTT	Transaction Totals	O	1	
080	SE	Transaction Set Trailer	R	1	

STANDARD**810 Invoice (Standard Version)**

Functional Group: IN

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Table 1 - Header

POS.NO.	SEG.ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
010	ST	Transaction Set Header	M	1	
020	BIG	Beginning Segment for Invoice	M	1	
030	NTE	Note/Special Instruction	O	100	
040	CUR	Currency	O	1	
050	REF	Reference Identification	O	12	
055	YNQ	Yes/No Question	O	10	
060	PER	Administrative Communications Contact	O	3	
		LOOP ID – N1			200
070	N1	Name	O	1	
080	N2	Additional Name Information	O	2	
090	N3	Address Information	O	2	
100	N4	Geographic Location	O	1	
110	REF	Reference Identification	O	12	
120	PER	Administrative Communications Contact	O	3	
125	DMG	Demographic Information	O	1	
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1	
140	DTM	Date/Time Reference	O	10	
150	FOB	F.O.B. Related Instructions	O	1	
160	PID	Product/Item Description	O	200	
170	MEA	Measurements	O	40	
180	PWK	Paperwork	O	25	
190	PKG	Marketing, Packaging, Loading	O	25	

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200	L7	Tariff Reference	O	1
212	BAL	Balance Detail	O	>1
213	INC	Installment Information	O	1
214	PAM	Period Amount	O	>1
LOOP ID – LM				10
220	LM	Code Source Information	O	1
230	LQ	Industry Code	M	100
LOOP ID – N9				1
240	N9	Reference Identification	O	1
250	MSG	Message Text	M	10
LOOP ID – V1				>1
260	V1	Vessel Identification	O	1
270	R4	Port or Terminal	O	>1
280	DTM	Date/Time Reference	O	>1
LOOP ID – FA1				>1
290	FA1	Type of Financial Accounting Data	O	1
300	FA2	Accounting Data	M	>1

Table 2 - Detail

LOOP ID – IT1				200000
010	IT1	Baseline Item Data (Invoice)	O	1
012	CRC	Conditions Indicator	O	1
015	QTY	Quantity	O	5
020	CUR	Currency	O	1
030	IT3	Additional Item Data	O	5
040	TXI	Tax Information	O	10
050	CTP	Pricing Information	O	25
055	PAM	Period Amount	O	10
059	MEA	Measurements	O	40
LOOP ID – PID				1000
060	PID	Product Item/Description	O	1

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070	MEA	Measurements	O	10
080	PWK	Paperwork	O	25
090	PKG	Marking, Packaging, Loading	O	25
100	PO4	Item Physical Details	O	1
110	ITD	Terms of Sale/Deferred Terms of Sale	O	2
120	REF	Reference Identification	O	>1
125	YNQ	Yes/No Question	O	10
130	PER	Administrative Communications Contact	O	5
140	SDQ	Destination Quantity	O	500
150	DTM	Date/Time Reference	O	10
160	CAD	Carrier Detail	O	>1
170	L7	Tariff Reference	O	>1
175	SR	Requested Service Schedule	O	1
LOOP ID – SAC				25
180	SAC	Service, Promotion, Allowance, or Charge Information	O	1
190	TXI	Tax Information	O	10
LOOP ID – SLN				1000
200	SLN	Subline Item Detail	O	1
205	DTM	Date/Time Reference	O	10
210	REF	Reference Identification	O	>1
220	PID	Product/Item Description	O	1000
230	SAC	Service, Promotion, Allowance, or Charge Information	O	25
235	TC1	Commodity	O	2
237	TXI	Tax Information	O	10
LOOP ID – N1				200
240	N1	Name	O	1
250	N2	Additional Name Information	O	2
260	N3	Address Information	O	2
270	N4	Geographic Location	O	1
280	REF	Reference Identification	O	12
290	PER	Administrative Communications Contact	O	3

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295	DMG	Demographic Information	O	1
LOOP ID – LM				10
300	LM	Code Source Information	O	1
310	LQ	Industry Code	M	100
LOOP ID – V1				>1
320	V1	Vessel Identification	O	1
330	R4	Port or Terminal	O	>1
340	DTM	Date/Time Reference	O	>1
LOOP ID – FA1				>1
350	FA1	Type of Financial Accounting Data	O	1
360	FA2	Accounting Data	M	>1

Table 3 - Trailer

010	TDS	Total Monetary Value Summary	M	1
020	TXI	Tax Information	O	10
030	CAD	Carrier Detail	O	1
035	AMT	Monetary Amount	O	>1
LOOP ID – SAC				25
040	SAC	Service, Promotion, Allowance, or Charge Information	O	1
050	TXI	Tax Information	O	10
LOOP ID – ISS				>1
060	ISS	Invoice Shipment Summary	O	1
065	PID	Product/Item Description	O	1000
070	CTT	Transaction Totals	O	1
080	SE	Transaction Set Trailer	R	1

IMPLEMENTATION

ST Transaction Set Header

Loop: N/A
Usage: Required
Repeat: 1

Example: ST^810^12345~

STANDARD

ST Transaction Set Header

Level: Header
Position: 010
Loop: N/A
Requirement: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
ST01	143	Transaction Set Identifier Code	R 3/3	M ID 3 / 3
ST02	329	Transaction Set Control Number	R 4/9	M AN 4 / 9

ELEMENT SUMMARY

ST01 Transaction Set Identifier Code
Code uniquely identifying a Transaction Set

<u>CODE</u>	<u>DEFINITION</u>
810	Invoice

ST02 Transaction Set Control Number
Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Unique Number to identify transaction set

IMPLEMENTATION

BIG Beginning segment for Invoice

Loop: N/A
Usage: Required
Repeat: 1

Example: BIG^20020102^123456789^20020101^11A111222 ^^ ^DI-

STANDARD

BIG Beginning Segment for Invoice

Level: Heading
Position: 020
Loop: N/A
Requirement: Mandatory
Max U: 1
Purpose: To indicate the beginning of an invoice transaction set and to transmit identifying numbers and dates.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
BIG01	373	Date	R 8/8	M DT 8 / 8
BIG02	76	Invoice Number	R 1/22	M AN 1 /22
BIG03	373	Date	R 8/8	O DT 8 / 8
BIG04	324	Purchase Order Number	R 9/9	O AN 1 /22
BIG05	328	Release Number	NU	O AN 1 /30
BIG06	327	Change Order Sequence Number	NU	O AN 1 /8
BIG07	640	Transaction Type Code	R 2/2	O ID 2 / 2
BIG08	353	Transaction Set Purpose Code	NU	O ID 2 / 2
BIG09	306	Action Code	NU	O ID 1 / 2
BIG10	76	Invoice Number	NU	O AN 1 /22

ELEMENT SUMMARY

BIG01 Date
Date expressed as CCYYMMDD

This is the date; the billing entity recognizes the Point of Sale Invoice or Credit return in their billing or accounts receivable system.

BIG02 Invoice Number
Identifying number assigned by issuer

An external reference number assigned by the billing entity, that identifies a particular Point of Sale Invoice or Credit return sent.

BIG03 Date
Date expressed as CCYYMMDD

This date is the Purchase date or Return date of the material. It may or may not be the same date as the Invoice date or Credit date.

BIG04 Purchase Order Number
Identifying number for Purchase Order assigned by the orderer/purchaser

State Farm Claim Number. Claim number is expected to be sent in this format NNANNNNNN where N is numeric and A is an alphabetic character. Do not include dashes or spaces. For example: 11A111222.

BIG05 Release Number
Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction

Not Used.

BIG06 Change Order Sequence Number
Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set

Not Used.

BIG07 Transaction Type Code
Code specifying the type of transaction

<u>CODE</u>	<u>DEFINITION</u>
CN	Credit Invoice
DI	Debit Invoice

Credit Invoice is the Invoice sent by Material Suppliers when material is returned. Debit Invoice is the Invoice for purchases made. Service Provider or Material Suppliers can send a debit Invoice. Credit Invoices can only be sent by Material Suppliers.

BIG08 Transaction Set Purpose Code
Code identifying purpose of transaction set

Not Used.

BIG09 Action Code
Code indicating type of action

Not Used.

BIG10 Invoice Number
Identifying number assigned by issuer

Not Used.

IMPLEMENTATION**CUR Currency**

Loop: N/A
Usage: Required
Repeat: 1

Example: CUR^41^USD~

STANDARD**CUR** Currency

Level: Header/Detail/Summary
Position: 040
Loop: N/A
Requirement: Optional
Max Use: 1
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction
Syntax:

- 08 C0807** - If CUR08 is present, then CUR07 is required.
- 09 C0907** - If CUR09 is present, then CUR07 is required.
- 10 L101112** - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- 11 C1110** - If CUR11 is present, then CUR10 is required.
- 12 C1210** - If CUR12 is present, then CUR10 is required.
- 13 L131415** - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- 14 C1413** - If CUR14 is present, then CUR13 is required.
- 15 C1513** - If CUR15 is present, then CUR13 is required.
- 16 L161718** - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- 17 C1716** - If CUR17 is present, then CUR16 is required.
- 18 C1816** - If CUR18 is present, then CUR16 is required.
- 19 L192021** - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
- 20 C2019** - If CUR20 is present, then CUR19 is required.
- 21 C2119** - If CUR21 is present, then CUR19 is required.

Comments: **00** See Figures Appendix for examples detailing the use of the CUR segments. Appendix can be found in X12 book.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
CUR01	98	Entity Identifier Code	R 2/2	M ID 2/3
CUR02	100	Currency Code	R 3/3	M ID 3/3
CUR03	280	Exchange Rate	NU	O R 4/10
CUR04	98	Entity Identifier Code	NU	O ID 2/3
CUR05	100	Currency Code	NU	O ID 3/3
CUR06	669	Currency Market/Exchange Code	NU	O ID 3/3
CUR07	374	Date/Time Qualifier	NU	X ID 3/3
CUR08	373	Date	NU	O DT 8/8
CUR09	337	Time	NU	O TM 4/8
CUR10	374	Date/Time Qualifier	NU	X ID 3/3
CUR11	373	Date	NU	X DT 8/8
CUR12	337	Time	NU	X TM 4/8
CUR13	374	Date/Time Qualifier	NU	X ID 3/3
CUR14	373	Date	NU	X DT 8/8
CUR15	337	Time	NU	X TM 4/8
CUR16	374	Date/Time Qualifier	NU	X ID 3/3
CUR17	373	Date	NU	X DT 8/8
CUR18	337	Time	NU	X TM 4/8
CUR19	374	Date/Time Qualifier	NU	X ID 3/3
CUR20	373	Date	NU	X DT 8/8
CUR21	337	Time	NU	X TM 4/8

ELEMENT SUMMARY

CUR01 Entity Identifier Code
Code identifying an organizational entity, a physical location, property or an individual

This data element identifies the party using currency defined in the currency code.

<u>CODE</u>	<u>DEFINITION</u>
41	Submitter

CUR02 Currency Code
Code (Standard ISO) for country in whose currency the charges are specified

<u>CODE</u>	<u>DEFINITION</u>
USD	United States Dollar
CAD	Canadian Dollar

CUR03 Exchange Rate
Value to be used as a multiplier conversion factor to convert monetary value from one currency to another

Not Used.

CUR04 Entity Identifier Code
Code identifying an organizational entity, a physical location, property or an individual

Not Used.

CUR05 Currency Code
Code (Standard ISO) for country in whose currency the charges are specified

Not Used.

CUR06 Currency Market/Exchange Code
Code identifying the market upon which the currency exchange rate is based

Not Used.

CUR07 Date/Time Qualifier
Code specifying type of date or time, or both date and time

Not Used.

CUR08 Date
Date expressed as CCYYMMDD

Not Used.

CUR09 Time
Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used.

CUR10 Date/Time Qualifier
Code specifying type of date or time, or both date and time

Not Used.

CUR11 Date
Date expressed as CCYYMMDD

Not Used.

CUR12 Time
Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used.

CUR13 Date/Time Qualifier
Code specifying type of date or time, or both date and time

Not Used.

CUR14 Date
Date expressed as CCYYMMDD

Not Used.

CUR15 Time
Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used.

CUR16 Date/Time Qualifier
Code specifying type of date or time, or both date and time

Not Used.

CUR17 Date
Date expressed as CCYYMMDD

Not Used.

CUR18 Time
Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used.

CUR19 Date/Time Qualifier
Code specifying type of date or time, or both date and time

Not Used.

CUR20 Date
Date expressed as CCYYMMDD

Not Used.

CUR21 Time
Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used.

IMPLEMENTATION

N1 Material Supplier Name

Loop: Material Supplier Information **Repeat:** 1
Usage: Situational
Repeat: 1

Example: N1^SU^Harcourt and Hamilton^FI^976856743^^PE-
Notes: This is Mandatory for Material Suppliers. See section 1.6 for more details.

STANDARD

N1 Name

Level: Detail **Repeat:** 200
Position: 070
Loop: N1
Requirement: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code.
Syntax **02 R0203** - At least one of N102 or N103 is required.
03 P0304 - If either N103 or N104 is present, then the other is required.
Comments: **04** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
05 N105 and N106 further define the type of entity in N101.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N101	98	Entity Identifier Code	R 2/2	M ID 2/3
N102	93	Name	R 1/60	X AN 1/60
N103	66	Identification Code Qualifier	R 2/2	X ID 1/2
N104	67	Identification Code	R 9/9	X AN 2/80
N105	706	Entity Relationship Code	NU	O ID 2/2
N106	98	Entity Identifier Code	S 2/2	O ID 2/3

ELEMENT SUMMARY

N101 Entity Identifier Code
Code identifying and organizational entity, a physical location, or an individual

<u>CODE</u>	<u>DEFINITION</u>
SU	Supplier/Manufacturer

N102 Name
Free-form name

Name of the Material Supplier’s Corporate Location or Regional Office that sends the bill and/or receives the payment.

N103 Identification Code Qualifier
Code designating the system/method of code structure used for Identification Code (67)

<u>CODE</u>	<u>DEFINITION</u>
FI	Federal Taxpayer’s Identification Number
01	D-U-N-S Number, DUN and Bradstreet
TA	Tax Payer Identification Number
ZZ	Mutually Defined

This is State Farm Implementation:

Code	Usage
FI	US Tax ID Number
01	DUNS/ DUN and Bradstreet Number (US and Canada)
TA	Goods and Sales Tax Number (Canada Only)
ZZ	State Farm Assigned Number

N104 Identification Code
Code identifying a party or other code

Identification Number of the Material Supplier’s Corporate Location or Regional Office.

N105 Entity Relationship Code
Code describing entity relationship

Not Used.

N106 Entity Identifier Code
Code identifying an organizational entity, a physical location, property or an individual

<u>CODE</u>	<u>DEFINITION</u>
PE	Payee

This is required when payment is to be sent to the Material Supplier’s Corporate Location or Regional Office. Only one party per Bill/Invoice. See section 1.6 for more information.

IMPLEMENTATION

N3 Material Supplier Address Information

Loop: Material Supplier Information
Usage: Situational
Repeat: 1

Example: N3^18 Ruskin Street~

Notes: This segment is required if this is the payment receipt location.

STANDARD

N3 Address Information

Level: Detail
Position: 090
Loop: N1
Requirement: Optional
Max Use: 2
Purpose: To specify the location of the named party.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N301	166	Address Information	R 1/55	M AN 1/55
N302	166	Address Information	O 1/55	O AN 1/55

ELEMENT SUMMARY

N301 Address Information
Address Information

Street Address of the Material Supplier's Corporate Location or Regional Office that sends the bill and/or receives the payment.

N302 Address Information
Address Information

Second line of street address of the Material Supplier's Corporate Location or Regional Office that sends the bill and/or receives the payment.

IMPLEMENTATION

N4 Material Supplier Geographic Location

Loop: Material Supplier Information
Usage: Situational
Repeat: 1

Example: N4^Bloomington^IL^61704^US~
Notes: This segment is required if this is the payment receipt location.

STANDARD

N4 Geographic Location

Level: Detail
Position: 100
Loop: N1
Requirement: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party.
Syntax: **06 C0605** - If N406 is present, then N405 is required.
Comments: **01** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
02 N402 is required only if city name (N401) is in the U.S. or Canada.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N401	019	City Name	O 2/30	O AN 2/30
N402	156	State or Province Code	O 2/2	O ID 2/2
N403	116	Postal Code	R 5/9	O ID 3/15
N404	26	Country Code	O 2/3	O ID 2/3
N405	309	Location Qualifier	NU	X ID 1/2
N406	310	Location Identifier	NU	O AN 1/30

ELEMENT SUMMARY

N401 City Name
Free-form text for city name

City Name of the Material Supplier’s Corporate Location or Regional Office that sends the bill and/or receives the payment.

N402 State or Province Code
Code (Standard State/Province) as defined by appropriate government agency

State or Province abbreviation of the Material Supplier's Corporate Location or Regional Office that sends the bill and/or receives the payment.

N403 Postal Code
Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Postal Code or ZIP code of the Material Supplier's Corporate Location or Regional Office that sends the bill and/or receives the payment. This is the ZIP code without dashes. Can be 5 or 5+4 format for USA. For example: 61704 or 617042121 for USA. A1A1A1 for Canada.

N404 Country Code
Code identifying the country

Country code of the material supplier corporate location or regional office that send the bill and/or receives the payment.

N405 Location Qualifier
Code identifying type of location

Not Used.

N406 Location Identifier
Code, which identifies a specific location

Not Used.

IMPLEMENTATION

REF Material Supplier Internal Identification Number

Loop: Material Supplier Information
Usage: Optional
Repeat: 1

Example: REF^VR^12A467B9~

STANDARD

REF Reference Identification

Level: Detail
Position: 110
Loop: N1
Requirement: Optional
Max Use: 12
Purpose: To specify identifying numbers.
Syntax: **02 R0203** - At least one of REF02 or REF03 is required.
Semantic: **04 REF04** contains data relating to the value cited in REF02.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
REF01	128	Reference Identification Qualifier	R 2/2	M ID 2/3
REF02	127	Reference Identification	R 1/30	X AN 1/30
REF03	352	Description	NU	X AN 1/80
REF04	C040	Reference Identifier	NU	O/Z

ELEMENT SUMMARY

REF01 Reference Identification Qualifier
Code Qualifying the Reference Identification

<u>CODE</u>	<u>DEFINITION</u>
VR	Vendor ID Number

REF02 Reference Identification
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Internal Identification Number or Key used to identify the bill by the payee. State Farm passes this back to the payee if one chooses to receive Electronic remittance advice.

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REF03 Description
A free-form description to clarify the related data elements and their content

Not Used.

REF04 Reference Identifier
To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Not Used.

IMPLEMENTATION

PER Material Supplier Administrative Communications Contact

Loop: Material Supplier Information
Usage: Optional
Repeat: 1

Example: PER^AA^ Dennis Hardy ^TE^3095558732^FX^3095555688^
 EM^Dhardy@ad.com^

STANDARD

PER Administrative Communications Contact

Level: Detail
Position: 120
Loop: N1
Requirement: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed.
Syntax: **03 P0304** - If either PER03 or PER04 is present, then the other is required.
05 P0506 - If either PER05 or PER06 is present, then the other is required.
07 P0708 - If either PER07 or PER08 is present, then the other is required.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
PER01	366	Contact Function Code	R 2/2	M ID 2/2
PER02	93	Name	R 1/60	O AN 1/60
PER03	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER04	364	Communication Number	O 10/10	X AN 1/80
PER05	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER06	364	Communication Number	O 10/10	X AN 1/80
PER07	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER08	364	Communication Number	O 1/80	X AN 1/80
PER09	443	Contact Inquiry Reference	NU	O AN 1/20

ELEMENT SUMMARY

PER01 Contact Function Code
Code identifying the major duty or responsibility of the person or group named

<u>CODE</u>	<u>DEFINITION</u>
AA	Authorized Representative

PER02 Name
Free-form name

Name of the Contact Person or area who can answer any question about the Invoice.

PER03 Communication Number Qualifier
Code identifying the type of communication number

<u>CODE</u>	<u>DEFINITION</u>
TE	Telephone
CP	Cellular Phone
FX	Facsimile
EM	Electronic Mail

PER04 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER05 Communication Number Qualifier
Code identifying the type of communication number

Use the same codes that were listed in PER03.

PER06 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER07 Communication Number Qualifier
Code identifying the type of communication number

Use the same codes that were listed in PER03.

PER08 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER09 Contact Inquiry Reference
Additional reference number or description to clarify a contact number

Not Used.

IMPLEMENTATION

N1 Material Supplier - Point of Sale Name

Loop: Material Supplier - Point of Sale Information **Repeat:** 1
Usage: Situational
Repeat: 1
Purpose: To receive information of Point of Sale.
Example: N1^SN^Whitechappel Mall^FI^976876743-
Notes: This segment is required if this is the payment receipt location.

STANDARD

N1 Name

Level: Detail
Position: 070
Loop: N1 **Repeat:** 200
Requirement: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code.
Syntax: **02 R0203** - At least one of N102 or N103 is required.
03 P0304 - If either N103 or N104 is present, then the other is required.
Comments: **04** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
05 N105 and N106 further define the type of entity in N101.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N101	98	Entity Identifier Code	R 2/2	M ID 2/3
N102	93	Name	R 1/60	X AN 1/60
N103	66	Identification Code Qualifier	S 2/2	X ID 1/2
N104	67	Identification Code	S 2/30	X AN 2/80
N105	706	Entity Relationship Code	NU	O ID 2/2
N106	98	Entity Identifier Code	S 2/2	O ID 2/3

ELEMENT SUMMARY

N101 Entity Identifier Code
Code identifying and organizational entity, a physical location, or an individual

<u>CODE</u>	<u>DEFINITION</u>
SN	Store

N102 Name
Free-form name

Material Supplier's Point of Sale name.

N103 Identification Code Qualifier
Code designating the system/method of code structure used for Identification Code (67)

<u>CODE</u>	<u>DEFINITION</u>
FI	Federal Taxpayer's Identification Number
01	D-U-N-S Number, DUN and Bradstreet
TA	Tax Payer Identification Number
ZZ	Mutually Defined

This is State Farm Implementation:

Code	Usage
FI	US Tax ID Number
01	DUNS/ DUN and Bradstreet Number (US and Canada)
TA	Goods and Sales Tax Number (Canada Only)
ZZ	State Farm Assigned Number

N104 Identification Code
Code identifying a party or other code

Identification Number of Material Supplier's Point of Sale. This is required when payment is required to be made to Material Supplier's Point of Sale.

N105 Entity Relationship Code
Code describing entity relationship

Not Used.

N106 Entity Identifier Code
Code identifying an organizational entity, a physical location, property or an individual

<u>CODE</u>	<u>DEFINITION</u>
PE	Payee

This is required when payment is to be sent to the Material Supplier's Point of Sale. Only one party per Bill/Invoice. See section 1.6 for more information.

IMPLEMENTATION

N3 Material Supplier - Point of Sale Address Information

Loop: Material Supplier - Point of Sale Information
Usage: Situational
Repeat: 1

Example: N3^Suite 14 Percy Street~
Notes: This segment is required if this is the payment receipt location.

STANDARD

N3 Address Information

Level: Detail
Position: 090
Loop: N1
Requirement: Optional
Max Use: 2
Purpose: To specify the location of the named party.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N301	166	Address Information	R 1/55	M AN 1/55
N302	166	Address Information	O 1/55	O AN 1/55

ELEMENT SUMMARY

N301 Address Information
Address Information

Street Address of the Point of Sale.

N302 Address Information
Address Information

Second line of street address of the Point of Sale.

IMPLEMENTATION

N4 Material Supplier - Point of Sale Geographic Location

Loop: Material Supplier - Point of Sale Information
Usage: Situational
Repeat: 1

Example: N4^Bloomington^IL^61701^US^FA^4480-
Notes: This segment is required if this is the payment receipt location.

STANDARD

N4 Geographic Location

Level: Detail
Position: 100
Loop: N1
Requirement: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party.
Syntax: **06 C0605** - If N406 is present, then N405 is required.
Comments: **01** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
02 N402 is required only if city name (N401) is in the U.S. or Canada.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N401	019	City Name	O 2/30	O AN 2/30
N402	156	State or Province Code	O 2/2	O ID 2/2
N403	116	Postal Code	R 5/9	O ID 3/15
N404	26	Country Code	O 2/3	O ID 2/3
N405	309	Location Qualifier	O 2/2	X ID 1/2
N406	310	Location Identifier	O 1/30	O AN 1/30

ELEMENT SUMMARY

N401 City Name
Free-form text for city name

City Name of the Point of Sale.

N402 State or Province Code
Code (Standard State/Province) as defined by appropriate government agency

State or Province abbreviation of the Point of Sale.

N403 Postal Code
Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Postal Code or ZIP Code of the Point of Sale. This is the ZIP code without dashes. Can be 5 or 5+4 format for USA. For example: 61704 or 617042121 for USA. A1A1A1 for Canada.

N404 Country Code
Code identifying the country

Country Code of the Point of Sale.

N405 Location Qualifier
Code identifying type of location

<u>CODE</u>	<u>DEFINITION</u>
FA	Facility Identification

N406 Location Identifier
Code, which identifies a specific location

Store Number is the number identified by the Material Supplier.

IMPLEMENTATION

PER Material Supplier - Point of Sale Administrative Communications Contact

Loop: Material Supplier - Point of Sale Information
Usage: Optional
Repeat: 1

Example: PER^AA^Jeff Joyner^TE^3095558723^FX^5555679^EM^Jeff@ad.com ↵

STANDARD

PER Administrative Communications Contact

Level: Detail
Position: 120
Loop: N1
Requirement: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed.
Syntax: **03 P0304** - If either PER03 or PER04 is present, then the other is required.
05 P0506 - If either PER05 or PER06 is present, then the other is required.
07 P0708 - If either PER07 or PER08 is present, then the other is required.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
PER01	366	Contact Function Code	R 2/2	M ID 2/2
PER02	93	Name	R 1/60	O AN 1/60
PER03	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER04	364	Communication Number	O 10/10	X AN 1/80
PER05	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER06	364	Communication Number	O 10/10	X AN 1/80
PER07	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER08	364	Communication Number	O 1/80	X AN 1/80
PER09	443	Contact Inquiry Reference	NU	O AN 1/20

ELEMENT SUMMARY

PER01 Contact Function Code
Code identifying the major duty or responsibility of the person or group named

<u>CODE</u>	<u>DEFINITION</u>
AA	Authorized Representative

PER02 Name
Free-form name

Name of the Contact Person or area who can answer any question about the Invoice.

PER03 Communication Number Qualifier
Code identifying the type of communication number

<u>CODE</u>	<u>DEFINITION</u>
TE	Telephone
CP	Cellular Phone
FX	Facsimile
EM	Electronic Mail

PER04 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER05 Communication Number Qualifier
Code identifying the type of communication number

Use the same codes that were listed in PER03.

PER06 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER07 Communication Number Qualifier
Code identifying the type of communication number

Use the same codes that were listed in PER03.

PER08 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER09 Contact Inquiry Reference
Additional reference number or description to clarify a contact number

Not Used.

IMPLEMENTATION

N1 Service Provider Name

Loop: Service Provider Information **Repeat:** 1
Usage: Situational
Repeat: 1

Example: N1^SJ^Salmon and Co^FI^987654312-

Notes: This is Mandatory if Service Provider is other than Material Supplier. This is required if bill is sent by Service Provider. See Section 1.6 for more information.

STANDARD

N1 Name

Level: Detail
Position: 070
Loop: N1 **Repeat:** 200
Requirement: Optional
Max Use: 1

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

Syntax **02 R0203** - At least one of N102 or N103 is required.

03 P0304 - If either N103 or N104 is present, then the other is required.

Comments: **04** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

05 N105 and N106 further define the type of entity in N101.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N101	98	Entity Identifier Code	R 2/2	M ID 2/3
N102	93	Name	R 1/60	X AN 1/60
N103	66	Identification Code Qualifier	R 2/2	X ID 1/2
N104	67	Identification Code	R 9/9	X AN 2/80
N105	706	Entity Relationship Code	NU	O ID 2/2
N106	98	Entity Identifier Code	S 2/2	O ID 2/3

ELEMENT SUMMARY

N101 Entity Identifier Code
Code identifying and organizational entity, a physical location, or an individual

<u>CODE</u>	<u>DEFINITION</u>
SJ	Service Provider

N102 Name
Free-form name

Name of the Contractor or Service Provider.

N103 Identification Code Qualifier
Code designating the system/method of code structure used for Identification Code (67)

<u>CODE</u>	<u>DEFINITION</u>
FI	Federal Taxpayer's Identification Number
01	D-U-N-S Number, DUN and Bradstreet
TA	Tax Payer Identification Number
ZZ	Mutually Defined

This is State Farm Implementation:

Code	Usage
FI	US Tax ID Number
01	DUNS/ DUN and Bradstreet Number (US and Canada)
TA	Goods and Sales Tax Number (Canada Only)
ZZ	State Farm Assigned Number

N104 Identification Code
Code identifying a party or other code

Identification Number of the person or business, which provides the Service.

N105 Entity Relationship Code
Code describing entity relationship

Not Used.

N106 Entity Identifier Code
Code identifying an organizational entity, a physical location, property or an individual

<u>CODE</u>	<u>DEFINITION</u>
PE	Payee

This applies only for Service Provider sending Bills to State Farm. This is required when payment is to be sent to the Service Provider. Only one party per Bill/Invoice. See section 1.6 for more information.

IMPLEMENTATION

N3 Service Provider Address Information

Loop: Service Provider Information
Usage: Situational
Repeat: 1

Example: N3^155 Bond Street~

Notes: This segment is required if this is the payment receipt location.

STANDARD

N3 Address Information

Level: Detail
Position: 090
Loop: N1
Requirement: Optional
Max Use: 2
Purpose: To specify the location of the named party.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N301	166	Address Information	R 1/55	M AN 1/55
N302	166	Address Information	O 1/55	O AN 1/55

ELEMENT SUMMARY

N301 Address Information
Address Information

Street Address of the Service Provider, providing service.

N302 Address Information
Address Information

Second line of street address of the Service Provider, providing service.

IMPLEMENTATION

N4 Service Provider Geographic Location

Loop: Service Provider Information
Usage: Situational
Repeat: 1

Example: N4^Bloomington^IL^61704^US~
Notes: This segment is required if this is the payment receipt location.

STANDARD

N4 Geographic Location

Level: Detail
Position: 100
Loop: N1
Requirement: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party.
Syntax: **06 C0605** - If N406 is present, then N405 is required.
Comments: **01** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
02 N402 is required only if city name (N401) is in the U.S. or Canada.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N401	019	City Name	O 2/30	O AN 2/30
N402	156	State or Province Code	O 2/2	O ID 2/2
N403	116	Postal Code	R 5/9	O ID 3/15
N404	26	Country Code	O 2/3	O ID 2/3
N405	309	Location Qualifier	NU	X ID 1/2
N406	310	Location Identifier	NU	O AN 1/30

ELEMENT SUMMARY

N401 City Name
Free-form text for city name

City name of the Service Provider.

N402 State or Province Code
Code (Standard State/Province) as defined by appropriate government agency

State or Province abbreviation of the Service Provider.

N403 Postal Code
Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Postal Code or ZIP Code of the Service Provider. This is the ZIP code without dashes. Can be 5 or 5+4 format for USA. For example: 61704 or 617042121 for USA. A1A1A1 for Canada.

N404 Country Code
Code identifying the country

Country Code of the Service Provider.

N405 Location Qualifier
Code identifying type of location

Not Used.

N406 Location Identifier
Code, which identifies a specific location

Not Used.

IMPLEMENTATION

PER Service Provider Administrative Communications Contact

Loop: Service Provider Information
Usage: Optional
Repeat: 1

Example: PER^AA^Tom Sanders ^TE^3095558822^FX^3095556678^
 EM^Tsanderson@ad.com ~

STANDARD

PER Administrative Communications Contact

Level: Detail
Position: 120
Loop: N1
Requirement: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed.
Syntax: **03 P0304** - If either PER03 or PER04 is present, then the other is required.
05 P0506 - If either PER05 or PER06 is present, then the other is required.
07 P0708 - If either PER07 or PER08 is present, then the other is required.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
PER01	366	Contact Function Code	R 2/2	M ID 2/2
PER02	93	Name	R 1/60	O AN 1/60
PER03	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER04	364	Communication Number	O 10/10	X AN 1/80
PER05	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER06	364	Communication Number	O 10/10	X AN 1/80
PER07	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER08	364	Communication Number	O 1/80	X AN 1/80
PER09	443	Contact Inquiry Reference	NU	O AN 1/20

ELEMENT SUMMARY

PER01 Contact Function Code
Code identifying the major duty or responsibility of the person or group named

<u>CODE</u>	<u>DEFINITION</u>
AA	Authorized Representative

PER02 Name
Free-form name

Name of the Contact Person or area who can answer any question about the Invoice.

PER03 Communication Number Qualifier
Code identifying the type of communication number

<u>CODE</u>	<u>DEFINITION</u>
TE	Telephone
CP	Cellular Phone
FX	Facsimile
EM	Electronic Mail

PER04 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER05 Communication Number Qualifier
Code identifying the type of communication number

Use the same codes that were listed in PER03.

PER06 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER07 Communication Number Qualifier
Code identifying the type of communication number

Use the same codes that were listed in PER03.

PER08 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER09 Contact Inquiry Reference
Additional reference number or description to clarify a contact number

Not Used.

IMPLEMENTATION**N1 Authorized Buyer Name**

Loop: Authorized Buyer Information **Repeat:** 1
Usage: Optional
Repeat: 1

Example: N1^AV^Susan Anderson^FI^987654321-

STANDARD**N1** Name

Level: Detail
Position: 070
Loop: N1 **Repeat:** 200
Requirement: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code.
Syntax: **02 R0203** - At least one of N102 or N103 is required.
03 P0304 - If either N103 or N104 is present, then the other is required.
Comments: **04** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
05 N105 and N106 further define the type of entity in N101.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N101	98	Entity Identifier Code	R 2/2	M ID 2/3
N102	93	Name	R 1/60	X AN 1/60
N103	66	Identification Code Qualifier	O 2/2	X ID 1/2
N104	67	Identification Code	O 9/9	X AN 2/80
N105	706	Entity Relationship Code	NU	O ID 2/2
N106	98	Entity Identifier Code	NU	O ID 2/3

ELEMENT SUMMARY

N101 Entity Identifier Code
Code identifying and organizational entity, a physical location, or an individual

<u>CODE</u>	<u>DEFINITION</u>
AV	Authorized

N102 Name
Free-form name

Name of the Employee or Sub Contractor authorized by the Contractor to purchase materials.

N103 Identification Code Qualifier
Code designating the system/method of code structure used for Identification Code (67)

<u>CODE</u>	<u>DEFINITION</u>
FI	Federal Taxpayer's Identification Number
01	D-U-N-S Number, DUN and Bradstreet
TA	Tax Payer Identification Number
ZZ	Mutually Defined

This is State Farm Implementation:

Code	Usage
FI	US Tax ID Number
01	DUNS/ DUN and Bradstreet Number (US and Canada)
TA	Goods and Sales Tax Number (Canada Only)
ZZ	State Farm Assigned Number

N104 Identification Code
Code identifying a party or other code

Identification Number of the person or business, who is authorized by Contractor to purchase materials.

N105 Entity Relationship Code
Code describing entity relationship

Not Used.

N106 Entity Identifier Code
Code identifying an organizational entity, a physical location, property or an individual

Not Used.

IMPLEMENTATION**N3 Authorized Buyer Address Information**

Loop: Authorized Buyer Information
Usage: Optional
Repeat: 1

Example: N3^Suite 12 E Dustin Street^

STANDARD**N3** Address Information

Level: Detail
Position: 090
Loop: N1
Requirement: Optional
Max Use: 2
Purpose: To specify the location of the named party.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N301	166	Address Information	R 1/55	M AN 1/55
N302	166	Address Information	O 1/55	O AN 1/55

ELEMENT SUMMARY

N301 Address Information
Address Information

Street Address of the Authorized Buyer for the Service Provider.

N302 Address Information
Address Information

Second line of street Address of the Authorized Buyer for the Service Provider.

IMPLEMENTATION

N4 Authorized Buyer Geographic Location

Loop: Authorized Buyer Information
Usage: Optional
Repeat: 1

Example: N4^Bloomington^IL^61704^US^

STANDARD

N4 Geographic Location

Level: Detail
Position: 100
Loop: N1
Requirement: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party.
Syntax: **06 C0605** - If N406 is present, then N405 is required.
Comments: **01** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
02 N402 is required only if city name (N401) is in the U.S. or Canada.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N401	019	City Name	O 2/30	O AN 2/30
N402	156	State or Province Code	O 2/2	O ID 2/2
N403	116	Postal Code	R 5/9	O ID 3/15
N404	26	Country Code	O 2/3	O ID 2/3
N405	309	Location Qualifier	NU	X ID 1/2
N406	310	Location Identifier	NU	O AN 1/30

ELEMENT SUMMARY

N401 City Name
Free-form text for city name

City name of Authorized Buyer.

N402 State or Province Code
Code (Standard State/Province) as defined by appropriate government agency

State or Province abbreviation of Authorized Buyer.

N403 Postal Code
Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Postal Code or ZIP Code of Authorized Buyer. This is the ZIP code without dashes. Can be 5 or 5+4 format for USA. For example: 61704 or 617042121 for USA. A1A1A1 for Canada.

N404 Country Code
Code identifying the country

Country Code of the Authorized Buyer.

N405 Location Qualifier
Code identifying type of location

Not Used.

N406 Location Identifier
Code, which identifies a specific location

Not Used.

IMPLEMENTATION

PER Authorized Buyer Administrative Communications Contact

Loop: Authorized Buyer Information
Usage: Optional
Repeat: 1

Example: PER^AA^Susan Anderson^TE^3095558742^FX^3095555698^EM^Sanderson@ad.com ↵

STANDARD

PER Administrative Communications Contact

Level: Detail
Position: 120
Loop: N1
Requirement: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed.
Syntax: **03 P0304** - If either PER03 or PER04 is present, then the other is required.
05 P0506 - If either PER05 or PER06 is present, then the other is required.
07 P0708 - If either PER07 or PER08 is present, then the other is required.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
PER01	366	Contact Function Code	R 2/2	M ID 2/2
PER02	93	Name	R 1/60	O AN 1/60
PER03	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER04	364	Communication Number	O 10/10	X AN 1/80
PER05	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER06	364	Communication Number	O 10/10	X AN 1/80
PER07	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER08	364	Communication Number	O 1/80	X AN 1/80
PER09	443	Contact Inquiry Reference	NU	O AN 1/20

ELEMENT SUMMARY

PER01 Contact Function Code
Code identifying the major duty or responsibility of the person or group named

<u>CODE</u>	<u>DEFINITION</u>
AA	Authorized Representative

PER02 Name
Free-form name

Name of the Contact Person or area who can answer any question about the Invoice.

PER03 Communication Number Qualifier
Code identifying the type of communication number

<u>CODE</u>	<u>DEFINITION</u>
TE	Telephone
CP	Cellular Phone
FX	Facsimile
EM	Electronic Mail

PER04 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER05 Communication Number Qualifier
Code identifying the type of communication number

Use the same codes that were listed in PER03.

PER06 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER07 Communication Number Qualifier
Code identifying the type of communication number

Use the same codes that were listed in PER03.

PER08 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER09 Contact Inquiry Reference
Additional reference number or description to clarify a contact number

Not Used.

IMPLEMENTATION

N1 Third Party Biller Name

Loop: Third Party Biller Information **Repeat:** 1
Usage: Situational
Repeat: 1

Example: N1^85^Trentham Credit Services^FI^123456789-

Notes: This is Mandatory if Material Supplier uses Third Party to send the Bill to State Farm. See Section 1.6 for more information.

STANDARD

N1 Name

Level: Detail
Position: 070
Loop: N1 **Repeat:** 200
Requirement: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code.
Syntax **02 R0203** - At least one of N102 or N103 is required.
03 P0304 - If either N103 or N104 is present, then the other is required.
Comments: **04** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
05 N105 and N106 further define the type of entity in N101.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N101	98	Entity Identifier Code	R 2/2	M ID 2/3
N102	93	Name	R 1/60	X AN 1/60
N103	66	Identification Code Qualifier	R 2/2	X ID 1/2
N104	67	Identification Code	R 9/9	X AN 2/80
N105	706	Entity Relationship Code	NU	O ID 2/2
N106	98	Entity Identifier Code	S 2/2	O ID 2/3

ELEMENT SUMMARY

N101 Entity Identifier Code
Code identifying and organizational entity, a physical location, or an individual

<u>CODE</u>	<u>DEFINITION</u>
85	Billing provider

N102 Name
Free-form name

Name of the Corporate Office, which sends the bill.

N103 Identification Code Qualifier
Code designating the system/method of code structure used for Identification Code (67)

<u>CODE</u>	<u>DEFINITION</u>
FI	Federal Taxpayer's Identification Number
01	D-U-N-S Number, DUN and Bradstreet
TA	Tax Payer Identification Number
ZZ	Mutually Defined

This is State Farm Implementation:

Code	Usage
FI	US Tax ID Number
01	DUNS/ DUN and Bradstreet Number (US and Canada)
TA	Goods and Sales Tax Number (Canada Only)
ZZ	State Farm Assigned Number

N104 Identification Code
Code identifying a party or other code

Identification Number of the person or business, which submits bill to State Farm.

N105 Entity Relationship Code
Code describing entity relationship

Not Used.

N106 Entity Identifier Code
Code identifying an organizational entity, a physical location, property or an individual

<u>CODE</u>	<u>DEFINITION</u>
PE	Payee

This is required when payment is to be sent to the Third Party Biller. Only one of the parties associated to a bill will have this Indicator. See section 1.6 for more information.

IMPLEMENTATION

N3 Third Party Biller Address Information

Loop: Third Party Biller Information
Usage: Situational
Repeat: 1

Example: N3^123 Main Street~

Notes: This segment is required if this is the payment receipt location.

STANDARD

N3 Address Information

Level: Detail
Position: 090
Loop: N1
Requirement: Optional
Max Use: 2
Purpose: To specify the location of the named party.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N301	166	Address Information	R 1/55	M AN 1/55
N302	166	Address Information	O 1/55	O AN 1/55

ELEMENT SUMMARY

N301 Address Information
Address Information

Street Address of the Third Party Biller, sending the Bill.

N302 Address Information
Address Information

Second line of street address of the Third Party Biller, sending the Bill.

IMPLEMENTATION**N4 Third Party Biller Geographic Location**

Loop: Third Party Biller Information
Usage: Situational
Repeat: 1

Example: N4^Bloomington^IL^61704^US-

Notes: This segment is required if this is the payment receipt location.

STANDARD**N4** Geographic Location

Level: Detail
Position: 100
Loop: N1
Requirement: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party.
Syntax: **06 C0605** - If N406 is present, then N405 is required.
Comments: **01** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
02 N402 is required only if city name (N401) is in the U.S. or Canada.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N401	019	City Name	O 2/30	O AN 2/30
N402	156	State or Province Code	O 2/2	O ID 2/2
N403	116	Postal Code	R 5/9	O ID 3/15
N404	26	Country Code	O 2/3	O ID 2/3
N405	309	Location Qualifier	NU	X ID 1/2
N406	310	Location Identifier	NU	O AN 1/30

ELEMENT SUMMARY

N401 City Name
Free-form text for city name

City name of the Third Party Biller.

N402 State or Province Code
Code (Standard State/Province) as defined by appropriate government agency

State or Province abbreviation of the Third Party Biller.

N403 Postal Code
Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Postal Code or ZIP Code of the Third Party Biller. This is the ZIP code without dashes. Can be 5 or 5+4 format for USA. For example: 61704 or 617042121 for USA. A1A1A1 for Canada.

N404 Country Code
Code identifying the country

Country Code of the Third Party Biller.

N405 Location Qualifier
Code identifying type of location

Not Used.

N406 Location Identifier
Code, which identifies a specific location

Not Used.

IMPLEMENTATION

REF Third Party Biller Internal Identification Number

Loop: Third Party Biller Information
Usage: Optional
Repeat: 1

Example: REF^3P^12AB56T8~

STANDARD

REF Reference Identification

Level: Detail
Position: 110
Loop: N1
Requirement: Optional
Max Use: 12
Purpose: To specify identifying numbers.
Syntax: **02 R0203** - At least one of REF02 or REF03 is required.
Semantic: **04 REF04** contains data relating to the value cited in REF02.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
REF01	128	Reference Identification Qualifier	R 2/2	M ID 2/3
REF02	127	Reference Identification	R 1/30	X AN 1/30
REF03	352	Description	NU	X AN 1/80
REF04	C040	Reference Identifier	NU	O/Z

ELEMENT SUMMARY

REF01 Reference Identification Qualifier
Code Qualifying the Reference Identification

<u>CODE</u>	<u>DEFINITION</u>
3P	Third Party Originator Number

REF02 Reference Identification
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Internal Identification Number or Key that identifies a bill by Third Party Biller who generates the bill. This is passed back by State Farm if one chooses to receive Electronic Fund Transfer.

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REF03 Description
A free-form description to clarify the related data elements and their content

Not Used.

REF04 Reference Identifier
To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Not Used.

IMPLEMENTATION

PER Third Party Biller Administrative Communications Contact

Loop: Third Party Biller Information
Usage: Optional
Repeat: 1

Example: PER^AA^Jackie McCone^TE^3095558722^FX^3095555678^
EM^Jackie@ad.com^

STANDARD

PER Administrative Communications Contact

Level: Detail
Position: 120
Loop: N1
Requirement: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed.
Syntax: **03 P0304** - If either PER03 or PER04 is present, then the other is required.
05 P0506 - If either PER05 or PER06 is present, then the other is required.
07 P0708 - If either PER07 or PER08 is present, then the other is required.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
PER01	366	Contact Function Code	R 2/2	M ID 2/2
PER02	93	Name	R 1/60	O AN 1/60
PER03	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER04	364	Communication Number	O 10/10	X AN 1/80
PER05	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER06	364	Communication Number	O 10/10	X AN 1/80
PER07	365	Communication Number Qualifier	O 2/2	X ID 2/2
PER08	364	Communication Number	O 1/80	X AN 1/80
PER09	443	Contact Inquiry Reference	NU	O AN 1/20

ELEMENT SUMMARY

PER01 Contact Function Code
Code identifying the major duty or responsibility of the person or group named

<u>CODE</u>	<u>DEFINITION</u>
AA	Authorized Representative

PER02 Name
Free-form name

Name of the Contact Person or area who can answer any questions about the Invoice.

PER03 Communication Number Qualifier
Code identifying the type of communication number

<u>CODE</u>	<u>DEFINITION</u>
TE	Telephone
CP	Cellular Phone
FX	Facsimile
EM	Electronic Mail

PER04 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER05 Communication Number Qualifier
Code identifying the type of communication number

Use the same codes that were listed in PER03.

PER06 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER07 Communication Number Qualifier
Code identifying the type of communication number

Use the same codes that were listed in PER03.

PER08 Communication Number
Complete communications number including country or area code when applicable

Phone Number and Fax Number are without dashes. For Example: 3095558732.

PER09 Contact Inquiry Reference
Additional reference number or description to clarify a contact number

Not Used.

IMPLEMENTATION**N1 Insurance Entity Name**

Loop: Insurance Entity Information
Usage: Required
Repeat: 1

Repeat: 1

Example: N1^IN^State Farm^
Notes: This loop is Optional.

STANDARD**N1** Name

Level: Detail
Position: 070
Loop: N1 **Repeat:** 200
Requirement: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code.
Syntax: **02 R0203** - At least one of N102 or N103 is required.
03 P0304 - If either N103 or N104 is present, then the other is required.
Comments: **04** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
05 N105 and N106 further define the type of entity in N101.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N101	98	Entity Identifier Code	R 2/2	M ID 2/3
N102	93	Name	R 1/60	X AN 1/60
N103	66	Identification Code Qualifier	NU	X ID 1/2
N104	67	Identification Code	NU	X AN 2/80
N105	706	Entity Relationship Code	NU	O ID 2/2
N106	98	Entity Identifier Code	NU	O ID 2/3

ELEMENT SUMMARY

N101 Entity Identifier Code
Code identifying and organizational entity, a physical location, or an individual

<u>CODE</u>	<u>DEFINITION</u>
IN	Insurer

N102 Name
Free-form name

Valid Value 'State Farm'. This is to capture whom the Biller thinks they are trying to bill. If this information is provided, State Farm could look at this information to determine if this is another company's bill.

N103 Identification Code Qualifier
Code designating the system/method of code structure used for Identification Code (67)

Not Used.

N104 Identification Code
Code identifying a party or other code

Not Used.

N105 Entity Relationship Code
Code describing entity relationship

Not Used.

N106 Entity Identifier Code
Code identifying an organizational entity, a physical location, property or an individual

Not Used.

IMPLEMENTATION

N3 Insurance Entity Address Information

Loop: Insurance Entity Information
Usage: Optional
Repeat: 1

Example: N3^2202 E, Ireland Groove Road

STANDARD

N3 Address Information

Level: Detail
Position: 090
Loop: N1
Requirement: Optional
Max Use: 2
Purpose: To specify the location of the named party.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N301	166	Address Information	R 1/55	M AN 1/55
N302	166	Address Information	O 1/55	O AN 1/55

ELEMENT SUMMARY

N301 Address Information
Address Information

Street Address of State Farm, to whom the Bill is sent.

N302 Address Information
Address Information

Second line of street address of State Farm, to whom the Bill is sent.

IMPLEMENTATION

N4 Insurance Entity Geographic Location

Loop: Insurance Entity Information
Usage: Optional
Repeat: 1

Example: N4^Bloomington^IL^61791^US^

STANDARD

N4 Geographic Location

Level: Detail
Position: 100
Loop: N1
Requirement: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party.
Syntax: **06 C0605** - If N406 is present, then N405 is required.
Comments: **01** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
02 N402 is required only if city name (N401) is in the U.S. or Canada.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N401	019	City Name	O 2/30	O AN 2/30
N402	156	State or Province Code	O 2/2	O ID 2/2
N403	116	Postal Code	R 5/9	O ID 3/15
N404	26	Country Code	O 2/3	O ID 2/3
N405	309	Location Qualifier	NU	X ID 1/2
N406	310	Location Identifier	NU	O AN 1/30

ELEMENT SUMMARY

N401 City Name
Free-form text for city name

City name of State Farm.

N402 State or Province Code
Code (Standard State/Province) as defined by appropriate government agency

State or Province abbreviation of State Farm.

N403 Postal Code
Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Postal Code or ZIP Code of State Farm. This is the ZIP code without dashes. Can be 5 or 5+4 format for USA. For example: 61704 or 617042121 for USA. A1A1A1 for Canada.

N404 Country Code
Code identifying the country

Country Code of State Farm.

N405 Location Qualifier
Code identifying type of location

Not Used.

N406 Location Identifier
Code, which identifies a specific location

Not Used.

IMPLEMENTATION

REF Insurance Entity Internal Identification Number

Loop: Insurance Entity Information
Usage: Situational
Repeat: 1

Example: REF^2U^0#1F%C*0N\$~

Notes: This is Mandatory if Internal ID is sent to the billing entity in the prior electronic transaction.

STANDARD

REF Reference Identification

Level: Detail
Position: 110
Loop: N1
Requirement: Optional
Max Use: 12
Purpose: To specify identifying numbers.
Syntax: **02 R0203** - At least one of REF02 or REF03 is required.
Semantic: **04 REF04** contains data relating to the value cited in REF02.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
REF01	128	Reference Identification Qualifier	R 2/2	M ID 2/3
REF02	127	Reference Identification	R 10/11	X AN 1/30
REF03	352	Description	NU	X AN 1/80
REF04	C040	Reference Identifier	NU	O/Z

ELEMENT SUMMARY

REF01 Reference Identification Qualifier
Code Qualifying the Reference Identification\

<u>CODE</u>	<u>DEFINITION</u>
2U	Payer Identification Number
DD	Document Identification Code

Code 2U is used when State Farm Internal Identification Number for Claim is sent and DD is used when State Farm Internal Identification Number for Bill is sent.

REF02 Reference Identification
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

**State Farm Internal Identification Number for the Claim or Bill. For Example:
0#1F%C*0N\$ or 12A4A6DT591.**

REF03 Description
A free-form description to clarify the related data elements and their content

Not Used.

REF04 Reference Identifier
To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Not Used.

IMPLEMENTATION

REF Insurance Entity Billing Account Number

Loop: Insurance Entity Information
Usage: Optional
Repeat: 1

Example: REF^12^12345~

STANDARD

REF Reference Identification

Level: Detail
Position: 110
Loop: N1
Requirement: Optional
Max Use: 12
Purpose: To specify identifying numbers.
Syntax: 02 R0203 - At least one of REF02 or REF03 is required.
Semantic: 04 REF04 contains data relating to the value cited in REF02.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
REF01	128	Reference Identification Qualifier	R 2/2	M ID 2/3
REF02	127	Reference Identification	R 1/30	X AN 1/30
REF03	352	Description	NU	X AN 1/80
REF04	C040	Reference Identifier	NU	O/Z

ELEMENT SUMMARY

REF01 Reference Identification Qualifier
Code Qualifying the Reference Identification

<u>CODE</u>	<u>DEFINITION</u>
12	Billing Account

REF02 Reference Identification
Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Billing account number is the number used by the Material Supplier to identify the Service Provider and the Payer of the Bill in their system. This is could be used by State Farm to contact the Material Supplier and verify the bill.

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REF03 Description
A free-form description to clarify the related data elements and their content

Not Used.

REF04 Reference Identifier
To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

Not Used.

IMPLEMENTATION

DTM Due Date

Loop: N/A
Usage: Optional
Repeat: 1

Example: DTM^814^20020215~

STANDARD

DTM Date/Time Reference

Level: Detail
Position: 140
Loop: N/A
Requirement: Optional
Max Use: 10
Purpose: To specify pertinent dates and times.
Syntax: **02 R020305** - At least one of DTM02, DTM03 or DTM05 is required.
04 C0403 - If DTM04 is present, then DTM03 is required.
05 P0506 - If either DTM05 or DTM06 is present, then the other is required.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
DTM01	374	Date/Time Qualifier	R 3/3	M ID 3/3
DTM02	373	Date	R 8/8	X DT 8/8
DTM03	337	Time	NU	X TM 4/8
DTM04	623	Time Code	NU	O ID 2/2
DTM05	1250	Date Time Period Format Qualifier	NU	X ID 2/3
DTM06	1251	Date Time Period	NU	X AN 1/35

ELEMENT SUMMARY

DTM01 Date/Time Qualifier
 Code specifying type of date or time, or both date and time

<u>CODE</u>	<u>DEFINITION</u>
814	Payment Due Date

DTM02 Date
Date expressed as CCYYMMDD

This is the due date. Last Date for which payment is expected to be received.

DTM03 Time
Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59), and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used.

DTM04 Time Code
Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and are substituted by P and M in the codes that follow

Not Used.

DTM05 Date Time Period Format Qualifier
Code indicating the date format, time format, or date and time format

Not Used.

DTM06 Date Time Period
Expression of a date, a time, or range of dates, times or dates and times

Not Used.

IMPLEMENTATION**IT1 Baseline Item Data**

Loop: Invoice **Repeat:** 30000
Usage: Required
Repeat: 1

Example: IT1^19^EA^12^^TP^M^SK^1234^DS^231^MF^54342345~

STANDARD**IT1** Baseline Item Data (Invoice)

Level: Detail
Position: 010
Loop: IT1 **Repeat:** 200000
Requirement: Optional
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions
Syntax: **02 P020304** – If either IT102, IT103 or IT104 are present, then the others are required.
03 P0607-If either IT106 or IT107 is present, then the other is required.
08 P0809-If either IT108 or IT109 is present, then the other is required.
10 P1011-If either IT110 or IT111 is present, then the other is required.
12 P1213-If either IT112 or IT113 is present, then the other is required.
14 P1415-If either IT114 or IT115 is present, then the other is required.
16 P1617-If either IT116 or IT117 is present, then the other is required.
18 P1819-If either IT118 or IT119 is present, then the other is required.
20 P2021-If either IT120 or IT121 is present, then the other is required.
22 P2223-If either IT122 or IT123 is present, then the other is required.
24 P2425-If either IT124 or IT125 is present, then the other is required.
Semantic Notes: **01** IT101 is the purchase order line item identification.
Comments: **00** Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
06 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
IT101	350	Assigned Identification	NU	O/Z AN 1/20
IT102	358	Quantity Invoiced	O 1/10	X R 1/10
IT103	355	Unit or Basis for Measurement Code	O 2/2	X ID 2/2
IT104	212	Unit Price	O 1/7	X R 1/17
IT105	639	Basis of Unit Price Code	NU	O ID 2/2
IT106	235	Product/Service ID Qualifier	R 2/2	X ID 2/2
IT107	234	Product/Service ID	R 1/1	X AN 1/48
IT108	235	Product/Service ID Qualifier	R 2/2	X ID 2/2
IT109	234	Product/Service ID	R 1/48	X AN 1/48
IT110	235	Product/Service ID Qualifier	R 2/2	X ID 2/2
IT111	234	Product/Service ID	R 1/30	X AN 1/48
IT112	235	Produce/Service ID Qualifier	O 2/2	X ID 2/2
IT113	234	Produce/Service ID	O 1/30	X AN 1/48
IT114	235	Produce/Service ID Qualifier	NU	X ID 2/2
IT115	234	Product/Service ID	NU	X AN 1/48
IT116	235	Product/Service ID Qualifier	NU	X ID 2/2
IT117	234	Product/Service ID	NU	X AN 1/48
IT118	235	Product/Service ID Qualifier	NU	X ID 2/2
IT119	234	Product/Service ID	NU	X AN 1/48
IT120	235	Product/Service ID Qualifier	NU	X ID 2/2
IT121	234	Product/Service ID	NU	X AN 1/48
IT122	235	Product/Service ID Qualifier	NU	X ID 2/2
IT123	234	Product/Service ID	NU	X AN 1/48
IT124	235	Product/Service ID Qualifier	NU	X ID 2/2
IT125	234	Product/Service ID	NU	X AN 1/48

ELEMENT SUMMARY

IT101 Assigned Identification
Alphanumeric characters assigned for differentiation within a transaction set

Not Used.

IT102 Quantity Invoiced
Number of units invoiced (supplier units)

Quantity of Item Purchased. This could be a negative number (Example: -2.3) for credit returns if your system handles it this way. For aggregate items like freight, this could be 1.

IT103 Unit or Basis for Measurement Code
Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

<u>CODE</u>	<u>DEFINITION</u>
B8	Board
BD	Bundle
BF	Board Feet
BG	Bag
BM	Bolt
BX	Box
CA	Case
CG	Card
CT	Carton
CW	Hundred lbs weight
DS	Display
EA	Each
FT	Foot
GA	Gallon
HC	Hundred Count
HL	100 Linear Feet
HU	Hundred
KT	Kit
LB	Pound
LF	Linear Foot
LH	Labor Hour
LN	Length
LY	Linear Yard
OZ	Ounce
PA	Pail
PC	Piece
PF	Pallet (Lift)
PK	Package
PL	Pallet/Unit Load
PR	Pair
PT	Pint
QT	Quart
RL	Roll
SF	Square Foot
ST	Set
SY	Square Yard
TM	Thousand Feet (Board)
TY	Tray
UN	Unit

YD	Yard
-----------	-------------

IT104 Unit Price
Price per unit of product, service, commodity, etc

Unit Price of the Item Purchased. This should be positive for a Point of Sale Invoice and negative (Example: -12) for Credit Return. Only one of the Quantity (IT102) and Unit Price (IT104) should be negative for a credit return. For aggregate items like freight, this could be the amount charged.

Quantity times Unit Price should yield the amount charged and its sign. When added up for the invoice, these amounts should match the total amount in TDS01.

IT105 Basis of Unit Price Code
Code identifying the type of unit price for an item

Not Used.

IT106 Product/Service ID Qualifier
Code identifying the type/source of the descriptive number used in Product/Service ID (234)

<u>CODE</u>	<u>DEFINITION</u>
TP	Product Type Code

IT107 Product/Service ID
Identifying number for a product or service

**Identifies whether the item is to be classified under Material Bill or Labor Bill.
Valid Values:
M - Material
L - Labor.**

IT108 Product/Service ID Qualifier

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

<u>CODE</u>	<u>DEFINITION</u>
SK	Stock Keeping Unit (SKU)

IT109 Product/Service ID

Identifying number for a product or service

This is the SKU assigned by the Supplier for Line Item Identification.

IT110 Product/Service ID Qualifier

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

<u>CODE</u>	<u>DEFINITION</u>
DS	Group ID

IT111 Product/Service ID

Identifying number for a product or service

This is the group code under which the Line Item is classified.

IT112 Product/Service ID Qualifier

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

<u>CODE</u>	<u>DEFINITION</u>
MF	Manufacturer.

IT113 Product/Service ID

Identifying number for a product or service

Identifies the manufacturer of the item.

IT114 Product/Service ID Qualifier

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used.

IT115 Product/Service ID

Identifying number for a product or service

Not Used.

IT116 Product/Service ID Qualifier

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used.

IT117 Product/Service ID

Identifying number for a product or service

Not Used.

IT118 Product/Service ID Qualifier

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used.

IT119 Product/Service ID

Identifying number for a product or service

Not Used.

IT120 Product/Service ID Qualifier

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used.

IT121 Product/Service ID
Identifying number for a product or service

Not Used.

IT122 Product/Service ID Qualifier
Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used.

IT123 Product/Service ID
Identifying number for a product or service

Not Used.

IT124 Product/Service ID Qualifier
Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Not Used.

IT125 Product/Service ID
Identifying number for a product or service

Not Used.

IMPLEMENTATION**PID Product/Item description**

Loop: Product/Item Description **Repeat:** 1
Usage: Required
Repeat: 1

Example: PID^F^^^Floor Tiles^

STANDARD**PID** Product/Item Description

Level: Detail
Position: 060
Loop: PID **Repeat:** 1000
Requirement: Optional
Max Use: 1
Purpose: To describe a product or process in coded or free-form format.
Syntax: **04 C0403** - If PID04 is present, then PID03 is required.
04 R0405 - At least one of PID04 or PID05 is required.
07 C0703 - If PID07 is present, then PID03 is required.
08 C0804 - If PID08 is present, then PID04 is required.
09 C0905 - If PID09 is present, then PID05 is required.

Semantic Notes: **03** Use PID03 to indicate the organization that publishes the code list being referred to.
04 PID04 should be used for industry-specific product description codes.
08 PID08 describes the physical characteristics of the product identified in PID04. A “Y” indicates that the specified attribute applies to this item; an “N” indicates it does not apply. Any other value is indeterminate.
09 PID09 is used to identify the language being used in PID05.

Comments: **01** If PID01 equals “F”, then PID05 is used. If PID01 equals “S”, then PID04 is used. If PID01 equals “X”, then both PID04 and PID05 are used.
06 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
07 PID07 specifies the individual code list of the agency specified in PID03.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
PID01	349	Item Description Type	R 1/1	M ID 1/1
PID02	750	Product/Process Characteristic Code	NU	O ID 2/3
PID03	559	Agency Qualifier Code	NU	X/Z ID 2/2
PID04	751	Product Description Code	NU	X/Z AN 1/12
PID05	352	Description	R 1/80	X AN 1/80
PID06	752	Surface/Layer/Position Code	NU	O ID 2/2
PID07	822	Source Subqualifier	NU	O AN 1/15
PID08	1073	Yes/No Condition or Response Code	NU	O/Z ID 1/1
PID09	819	Language Code	NU	O/Z ID 2/3

ELEMENT SUMMARY

PID01 Item Description Type
Code indicating the format of a description

CODE	DEFINITION
F	Free-form

PID02 Product/Process Characteristic Code
Code identifying the general class of a product or process characteristic

Not Used.

PID03 Agency Qualifier Code
Code identifying the agency assigning the code values

Not Used.

PID04 Product Description Code
A code from an industry code list, which provides specific data about a product characteristic

Not Used.

PID05 Description
A free-form description to clarify the related data elements and their content

Description of the Line Item.

PID06 Surface/Layer/Position Code
Code indicating the product surface, layer or position that is being described

Not Used.

PID07 Source Subqualifier
A reference that indicates the table or text maintained by the Source Qualifier

Not Used.

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PID08 Yes/No Condition or Response Code
Code indicating a Yes or No condition or response

Not Used.

PID09 Language Code
Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)

Not Used.

IMPLEMENTATION**DTM Purchase Date**

Loop: N/A
Usage: Optional
Repeat: 1

Example: DTM^321^20020201~

Notes: Only service providers use this segment when billing for goods purchased.

STANDARD**DTM** Date/Time Reference

Level: Detail
Position: 140
Loop: N/A
Requirement: Optional
Max Use: 10
Purpose: To specify pertinent dates and times.
Syntax: **02 R020305** - At least one of DTM02, DTM03 or DTM05 is required.
04 C0403 - If DTM04 is present, then DTM03 is required.
05 P0506 - If either DTM05 or DTM06 is present, then the other is required.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
DTM01	374	Date/Time Qualifier	R 3/3	M ID 3/3
DTM02	373	Date	R 8/8	X DT 8/8
DTM03	337	Time	NU	X TM 4/8
DTM04	623	Time Code	NU	O ID 2/2
DTM05	1250	Date Time Period Format Qualifier	NU	X ID 2/3
DTM06	1251	Date Time Period	NU	X AN 1/35

ELEMENT SUMMARY

DTM01 Date/Time Qualifier
Code specifying type of date or time, or both date and time

CODE
321

DEFINITION
Purchased

DTM02 Date
Date expressed as CCYYMMDD

This is the date when the goods were purchased.

DTM03 Time
Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59), and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Not Used.

DTM04 Time Code
Code identifying the time In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and are substituted by P and M in the codes that follow

Not Used.

DTM05 Date Time Period Format Qualifier
Code indicating the date format, time format, or date and time format

Not Used.

DTM06 Date Time Period
Expression of a date, a time, or range of dates, times or dates and times

Not Used.

IMPLEMENTATION

N1 Store Name

Loop: Store Name **Repeat:** 1
Usage: Optional
Repeat: 1
Purpose: To receive information of Point of Sale.
Example: N1^SN^Whitechappel Mall^
Notes: Only service providers use this segment when billing for goods purchased.

STANDARD

N1 Name

Level: Detail
Position: 070
Loop: N1 **Repeat:** 200
Requirement: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code.
Syntax: **02 R0203** - At least one of N102 or N103 is required.
03 P0304 - If either N103 or N104 is present, then the other is required.
Comments: **04** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
05 N105 and N106 further define the type of entity in N101.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
N101	98	Entity Identifier Code	R 2/2	M ID 2/3
N102	93	Name	R 1/60	X AN 1/60
N103	66	Identification Code Qualifier	NU	X ID 1/2
N104	67	Identification Code	NU	X AN 2/80
N105	706	Entity Relationship Code	NU	O ID 2/2
N106	98	Entity Identifier Code	NU	O ID 2/3

ELEMENT SUMMARY

N101 Entity Identifier Code
Code identifying and organizational entity, a physical location, or an individual

<u>CODE</u>	<u>DEFINITION</u>
SN	Store

N102 Name
Free-form name

Material Supplier's Point of Sale name.

N103 Identification Code Qualifier
Code designating the system/method of code structure used for Identification Code (67)

Not Used.

N104 Identification Code
Code identifying a party or other code

Not Used.

N105 Entity Relationship Code
Code describing entity relationship

Not Used.

N106 Entity Identifier Code
Code identifying an organizational entity, a physical location, property or an individual

Not Used.

IMPLEMENTATION

TDS Total Monetary Value Summary

Loop: N/A
Usage: Required
Repeat: 1

Example: TDS^24433^^23944^489~

STANDARD

TDS Total Monetary Value Summary

Level: Summary
Position: 010
Loop: N/A
Requirement: Mandatory
Max Use: 1
Purpose: To specify the total invoice discounts and amounts.

Semantic Notes: **01** TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
02 TDS02 indicates the amount upon which the terms discount amount is calculated.
03 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
04 TDS04 indicates the total amount of terms discount.

Comments: **02** TDS02 is required if the dollar value of subject to discount is not equal to the dollar value of TDS01.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
TDS01	610	Amount	R 2/15	M/Z N2 1/15
TDS02	610	Amount	NU	O/Z N2 1/15
TDS03	610	Amount	R 2/15	O/Z N2 1/15
TDS04	610	Amount	R 2/15	O/Z N2 1/15

ELEMENT SUMMARY

TDS01 Amount
Monetary amount

This is the Total Amount of the Invoice. This should be a positive amount for Point of Sale Invoice and a negative amount (Example: -24444) for Credit Return.

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TDS02 Amount
Monetary amount

Not Used.

TDS03 Amount
Monetary amount

This is the Due Amount, due to payee from State Farm in case of Point of Sale Invoice and amount due by Biller to State Farm in case of Credit Return. This should be positive for Point of Sale Invoice and negative for Credit Return.

TDS04 Amount
Monetary amount

This is the Discount Amount given to State Farm. This should be positive for a Point of Sale Invoice and negative for a Credit Return.

IMPLEMENTATION**TXI Tax Information**

Loop: N/A
Usage: Optional
Repeat: 2

Example: TXI^TX^4.33~

STANDARD**TXI** Tax Information

Level: Detail
Position: 020
Loop: N/A
Requirement: Optional
Max Use: 10
Purpose: To specify tax information.
Syntax: **01 RP20306** – At least one of TXI02, TXI03 or TXI06 is required.
04 P0405 – If either TXI04 or TXI05 is present, then the other is required.
08 C0803 – If TXI08 is present, then TXI03 is required.

Semantic Notes: **02** TXI02 is the monetary amount of the tax.
03 TXI03 is the tax percent expressed as a decimal.
07 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
TXI01	963	Tax Type Code	R 2/2	M ID 2/2
TXI02	782	Monetary Amount	R 1/18	X/Z R 1/18
TXI03	954	Percent	NU	X/Z R 1/10
TXI04	955	Tax Jurisdiction Code Qualifier	NU	X ID 2/2
TXI05	956	Tax Jurisdiction Code	NU	X AN 1/10
TXI06	441	Tax Exempt Code	NU	X ID 1/1
TXI07	662	Relationship Code	NU	O/Z ID 1/1
TXI08	828	Dollar Basis For Percent	NU	O R 1/9
TXI09	325	Tax Identification Number	NU	O AN 1/20
TXI10	350	Assigned Identification	NU	O AN 1/20

TXI01 Tax Type Code
Code specifying the type of tax

Use these qualifiers until more suitable ones are developed to replace PG and PS. At this time, these qualifiers represent what the amount is being used for according to the State Farm Implementation.

<u>CODE</u>	<u>DEFINITION</u>
GS	Goods and Service Tax
PG	State or Provincial Tax on Goods
PS	State or Provincial Tax on Services
ST	State Sales Tax
TX	All Taxes

State Farm Implementation:

Code	Transaction in	Tax
GS	Canada except New Brunswick	Goods and Service Tax (GST)
PG	Quebec	Quebec Sales Tax (QST)
PS	Canada except New Brunswick, Alberta and Quebec	Provisional Sales Tax (PST)
ST	USA	State Sales Tax
TX	New Brunswick	Harmonized Sales Tax (HST, which is PST+GST)

Following Situations might arise:

ST	US Transaction with Total Tax
GS & PS	Canadian transaction provinces excluding New Brunswick, Alberta and Quebec – Both GST and PST
GS	Canadian transaction in Alberta – (GST)
TX	Canadian transaction in New Brunswick (HST)
GS & PG	Canadian transaction in Quebec (QST)

TXI02 Monetary Amount
Monetary amount

Tax Amount. This should be positive for Point of Sale Invoice and negative (Example: -44.44) for Credit Return.

TXI03 Percent
Percentage expressed as a decimal

Not Used.

TXI04 Tax Jurisdiction Code Qualifier
Code identifying the source of the data used in tax jurisdiction code

Not Used.

TXI05 Tax Jurisdiction Code
Code identifying the taxing jurisdiction

Not Used.

TXI06 Tax Exempt Code
Code identifying exemption status from sales and use tax

Not Used.

TXI07 Relationship Code
Code indicating the relationship between entities

Not Used.

TXI08 Dollar Basis For Percent
Dollar basis to be used in the percent calculation of the allowance, charge or tax

Not Used.

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TXI09 Tax Identification Number
Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc); often called a tax exemption number or certificate number

Not Used.

TXI10 Assigned Identification
Alphanumeric characters assigned for differentiation within a transaction set

Not Used.

IMPLEMENTATION

CTT Transaction Totals

Loop: N/A
Usage: Optional
Repeat: 1

Example: CTT^4^1855~

STANDARD

CTT Transaction Totals

Level: Summary
Position:
Loop: N/A
Requirement: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set.
Syntax: **03 P0304** - If either CTT03 or CTT04 is present, then the other is required.
05 P0506 - If either CTT05 or CTT06 is present, then the other is required.
Semantic:
Comments: **00** This segment is intended to provide hash totals to validate transaction completeness and correctness.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
CTT01	354	Number of Line Items	R 1/6	N0 1/6 M
CTT02	347	Hash Total	R 1/10	R 1/10 O
CTT03	81	Weight	NU	R 1/10 X
CTT04	355	Unit or Basis for Measurement Code	NU	ID 2/2 X
CTT05	183	Volume	NU	R 1/8 X
CTT06	355	Unit or Basis for Measurement Code	NU	ID 2/2 X
CTT07	352	Description	NU	AN 1/80 O

ELEMENT SUMMARY

CTT01 Number of Line Items
Total number of line items in the transaction set

Total number of Line Items in the transaction set.

CTT02 Hash Total

Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.

Example:

- 0018 First occurrence of value being hashed
18 Second occurrence of value being hashed
1.8 Third occurrence of value being hashed
18.01 Fourth occurrence of value being hashed

1855 Hash total prior to truncation
855 Hash total after truncation to three-digit field

Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.

Example:

**-.0018 First occurrence of value being hashed.
.18 Second occurrence of value being hashed.
1.8 Third occurrence of value being hashed.
100000008.01 Fourth occurrence of value being hashed.**

**10000000855 Hash Total
855 Hash total after truncation to three-digit field.**

CTT03 Weight

Numeric Value of weight

Not Used.

CTT04 Unit or Basis for Measurement Code

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Not Used.

CTT05 Volume

Value of Volumetric measure

Not Used.

CTT06 Unit or Basis for Measurement Code

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Not Used.

CTT07 Description

A free-form description to clarify the related data elements and their content

Not Used.

IMPLEMENTATION

SE Transaction Set Trailer

Loop: N/A
Usage: Required
Repeat: 1

Example: SE^37^12345~

STANDARD

SE Transaction Set Trailer

Level: Summary
Position:
Loop: N/A
Requirement: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
SE01	96	Number of Included Segments	R 1/10	M N0 1/10
SE02	329	Transaction Set Control Number	R 4/9	M AN 4/9

ELEMENT SUMMARY

SE01 Number of Included Segments
 Total number of segments included in a transaction set including ST and SE segments

Total number of segments.

SE02 Transaction Set Control Number
 Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

Unique control number for transaction set.

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4 Premier Service Program Examples

Section 4.1 is an example of an Invoice sent to State Farm from a supplier who is using a Service Provider. Footnote numbers have been added to this example to assist in understanding the detailed example on the following pages. Section 4.3 is an example of an Invoice sent to State Farm from a 3rd-party acting as a clearinghouse for a State Farm Premier Service Provider.

4.1 Store Invoice

TRENTHAM CREDIT SERVICES

Supplier	: HARCOURT AND HAMILTON	4	Service Provider:	Salmon and Co.	7
	18/4C/1, RUSKIN STREET,	5		155, BOND STREET,	8
	BLOOMINGTON, IL – 61704	6		BLOOMINGTON, IL-61704	9
Account	: 12345	13	Date of Sale	: 1/1/02	10
Store Number	: 4480	14	Invoice No.	: 123456789	11
Store address	: Whitechappel Mall	15	P.O/Job	: 11-A111-222	12
	14/144, Percy Street,	16	Buyer	: Susan Anderson	18
	Bloomington, Illinois –61701.	17			
S.K.U.	Description.	Quantity.	Unit Price	Unit.	Ext. Price.
1234	Floor Tiles	19	12	Each	228.00
XXXX	Freight	1	12	Each	12.00
				Tax	24 : 4.33
				Total	25 : 244.33
				Discount For SF	26 : 4.89
				Balance Due	27 : 239.44

123, Main Street, Bloomington, Illinois – 61704

2

Statement Date : 1/2/02

3

4.2 Transaction Set Mapping

EDI SEGMENT	REFERENCE	DESCRIPTION
ST^810^12345~		Start of transaction set 810. Transaction set Control Number is 12345.
BIG^20020102^123456789^20020101^11A111222^^^DI~	3,11,10,12	Invoice Date is 1/2/02 for the Invoice number for the Debit Invoice 123456789, Date of Purchase of which is 1/1/2. The Claim Number is 11-A111-222.
CUR^41^USD~		The submitter is using US dollars for Payment.
N1^SU^Harcourt and Hamilton^FI^976856743^^PE~	4	The name of the Material Supplier is Harcourt and Hamilton, whose Federal Taxpayer's Identification Number (TIN) is 976856743. Payment is to be credited to Harcourt and Hamilton.
N3^18 Ruskin Street~	5	The Address of Harcourt and Hamilton is 18 Ruskin Street.
N4^Bloomington^IL^61704^US~	6	Harcourt and Hamilton is located in the city of Bloomington, in the state of Illinois with Postal Code 61704 and Country Code US.
REF^VR^12A467B9~		The Internal Identification Number of Harcourt and Hamilton is 12A467B9.
PER^AA^Dennis Hardy^TE^3095558732^FX^3095555688^EM^Dhardy@ad.com~		The Contact Person of Harcourt and Hamilton is Dennis Hardy, whose Telephone number is 309-555-8732 and Fax number is 309-555-5688 whose Email ID is Dhardy@ad.com
N1^SN^Whitechappel Mall^FI^976876743~	15	The Name of the Point of sale is Whitechappel Mall, whose Federal Taxpayer's Identification Number (TIN) is 976876743.
N3^Suite 14 Percy Street~	16	The Address of Whitechappel Mall is Suite 14, Percy Street.
N4^Bloomington^IL^61701^US^FA^4480~	17, 14	Whitechappel Mall is located in the city of Bloomington, in the state of Illinois with Postal Code 61701 and Country Code US and whose Store Number is 4480.
PER^AA^Jeff Joyner^TE^3095558723^FX^3095555679^EM^Jeff@ad.com~		The Contact Person of the of Whitechappel Mall is Jeff Joyner, whose Telephone number is 309-555-8723 and Fax number is 309-555-5679 whose e-mail id is Jeff@ad.com
N1^SJ^Salmon and Co^FI^987654312~	7	The Name of the Service Provider is Salmon and Co, whose Federal Taxpayer's Identification Number (TIN) is 987654312.
N3^155 Bond Street~	8	The Address of Salmon and Co is 155, Bond Street.
N4^Bloomington^IL^61704^US~	9	The Salmon and Co is located in the city of Bloomington, in the state of Illinois with Postal Code 61704 and Country Code US.
PER^AA^Tom Sanders^TE^3095558822^FX^3095556678^EM^Tsanders@ad.com~		The Contact Person of Salmon and Co is Tom Sanders, whose Telephone number is 309-555-8822 and Fax number is 309-555-6678 whose Email ID is Tsanders@ad.com

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N1^AV^Susan Anderson^FI^987654321~	18	The Name of the Authorized Buyer for Salmon and Co is Susan Anderson, whose Federal Taxpayer's Identification Number (PIN) is 987654321.
N1^85^Trentham Credit Services^FI^123456789~	1	Credit Services. The Federal Tax Payer's Identification Number (TIN) of Trentham Credit Services is 123456789.
N3^123 Main Street~	2	The Address of the Trentham Credit Services is 123 Main Street.
N4^Bloomington^IL^61704^US~	2	Trentham Credit Services is located in the city of Bloomington, in the state of Illinois with Postal Code 61704 and Country Code US.
REF^3P^12AB56T8~		The Internal Identification Number of Trentham Credit Services is 12AB56T8.
PER^AA^Jackie McCone^TE^3095558722^FX^3095555678^EM^Jackie@ad.com~		The Contact Person of the Trentham Credit Services is Jackie McCone, whose Telephone number is 309-555-8722 and Fax number is 309-555-5678 and whose Email ID is Jackie@ad.com .
N1^IN^State Farm~		This is the receiver of the Invoice.
N3^2202 E, Ireland Groove Road~		The Address of the receiver of the Invoice.
N4^Bloomington^IL^61791^US~		State Farm is located in the city of Bloomington, in the state of Illinois with Postal Code 61791 and Country Code US.
REF^2U^0#1F%C*0N\$~		The Internal Identification Number of State Farm is 0#1F%C*0N\$.
REF^12^12345~	13	The Billing Account Number provided by material supplier, to identify the Salmon & Co., is 12345.
DTM^814^20020215~		The payment due date is 15 Feb 2002.
IT1^19^EA^12^TP^M^SK^1234^DS^231^MF^54342345~	21,23,22,19	<u>Quantity:</u> 20 <u>Unit of Measurement:</u> EA (Each) <u>Unit Price:</u> \$12 <u>Type of Item:</u> M (Material) <u>SKU Number:</u> 1234 <u>Group ID:</u> 231 <u>Manufacturer Code:</u> 54342345
PID^F^^^^Premium Drywall~		The Product is Premium Drywall.
IT1^1^EA^12^TP^M^SK^XXXX^DS^FRT~	21,23,22,19	<u>Quantity:</u> 19 <u>Unit of Measurement:</u> EA (Each) <u>Unit Price:</u> \$12 <u>Type of Item:</u> M (Material) <u>SKU Number:</u> XXXX <u>Group ID:</u> FRT
PID^F^^^^Floor Tiles~	20	The Product is Floor Tiles.
TDS^24433^^23944^489~	25,27,26	The Total Amount on the invoice is \$244.33 and due amount is \$239.53 and the discount that State Farm gets is \$4.80
TXI^TX^4.33~	24	Tax is \$4.33.
SE^35^12345~		End of Transaction Set. 34 segments are there in the Transaction Set whose control number is 12345.

4.3 Contractor Invoicing - Transaction Set Mapping - Example

EDI SEGMENT	REFERENCE	DESCRIPTION
ST^810^12346~		Start of transaction set 810. Transaction set Control Number is 12346.
BIG^20020102^123456789^20020101^11A111222^^^ DI~		Invoice Date is 1/2/02 for the Invoice number for the Debit Invoice 123456789 of the Contractor's Account's Receivable System, Date of Purchase of which is set to the Invoice date of 1/1/2 since this is for multiple invoices on multiple days. The Claim Number is 11-A111-222.
CUR^41^USD~		The submitter is using US dollars for Payment.
N1^SJ^Salmon and Co^FI^987654312^^PE~		The Name of the Service Provider is Salmon and Co, whose Federal Taxpayer's Identification Number (TIN) is 987654312. Payment is to be credited to Salmon and Co.
N3^155 Bond Street~		The Address of Salmon and Co is 155, Bond Street.
N4^Bloomington^IL^61704^US~		The Salmon and Co is located in the city of Bloomington, in the state of Illinois with Postal Code 61704 and Country Code US.
PER^AA^Tom Sanders^TE^3095558822^FX^ 3095556678^EM^Tsanders@ad.com~		The Contact Person of Salmon and Co is Tom Sanders, whose Telephone number is 309-555-8822 and Fax number is 309-555-6678 whose Email ID is Tsanders@ad.com
N1^85^Trentham Credit Services^FI^123456789~		Credit Services. The Federal Tax Payer's Identification Number (TIN) of Trentham Credit Services is 123456789.
N3^123 Main Street~		The Address of the Trentham Credit Services is 123 Main Street.
N4^Bloomington^IL^61704^US~		Trentham Credit Services is located in the city of Bloomington, in the state of Illinois with Postal Code 61704 and Country Code US.
N1^IN^State Farm~		This is the receiver of the Invoice.
IT1^^19^EA^12^^TP^M^SK^1234^DS^231~		<u>Quantity:</u> 20 <u>Unit of Measurement:</u> EA (Each) <u>Unit Price:</u> \$12 <u>Type of Item:</u> M (Material) <u>SKU Number:</u> 1234 <u>Group ID:</u> 231
PID^F^^^^Premium Drywall~		The Product is Premium Drywall.
DTM^321^20020201~		Purchase Date of 2/2/2002 at Whitechappel Mall
N1^SN^Whitechappel Mall~		This line item was purchased at the Whitechappel Mall store.
IT1^^1^EA^12^^TP^M^SK^XXXX^DS^FRT~		<u>Quantity:</u> 19 <u>Unit of Measurement:</u> EA (Each) <u>Unit Price:</u> \$12 <u>Type of Item:</u> M (Material) <u>SKU Number:</u> XXXX <u>Group ID:</u> FRT
PID^F^^^^Floor Tiles~		The Product is Floor Tiles.
DTM^321^20020131~		Purchase Date of 1/31/2002 at Whitechappel Mall
N1^SN^Whitechappel Mall~		This line item was purchased at the Whitechappel Mall store.

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TDS^24433^^24433↵		The Total Amount on the invoice is \$244.33 and due amount is \$244.33. There is no discount.
TXI^TX^4.33↵		Tax is \$4.33.
SE^22^12346↵		End of Transaction Set. 22 segments are there in the Transaction Set whose control number is 12346.

A X12 Nomenclature

A.1 Interchange and Application Control Structures

A.1.1 Interchange Control Structure

The transmission of data proceeds according to very strict format rules to ensure the integrity and maintain the efficiency of the interchange. Each business grouping of data is called a transaction set. For instance, a group of benefit enrollments sent from a sponsor to a payer is considered a transaction set.

Each transaction set contains groups of logically related data in units called segments. For instance, the N4 segment used in the transaction set conveys the city, state, ZIP Code, and other geographic information. A transaction set contains multiple segments, so the addresses of the different parties, for example, can be conveyed from one computer to the other. An analogy would be that the transaction set is like a freight train; the segments are like the train's cars; and each segment can contain several data elements the same as a train car can hold multiple crates.

The sequence of the elements within one segment is specified by the ASC X12 standards as well as the sequence of the segments in the transaction set. In a more conventional computing environment, the segments would be equivalent to records, and the elements equivalent to fields within the records.

Similar transaction sets, called "functional groups," can be sent together within a transmission. Each functional group is prefaced by a group start segment; and a functional group is terminated by a group end segment. One or more functional groups are prefaced by an interchange header and followed by an interchange trailer. Figure A1, Transmission Control Schematic, on the next page, illustrates this interchange control.

The interchange header and trailer segments envelop one or more functional groups or interchange-related control segments and perform the following functions:

1. Define the data element separators and the data segment terminator.
2. Identify the sender and the receiver.
3. Provide control information for the interchange.
4. Allow for authorization and security information.

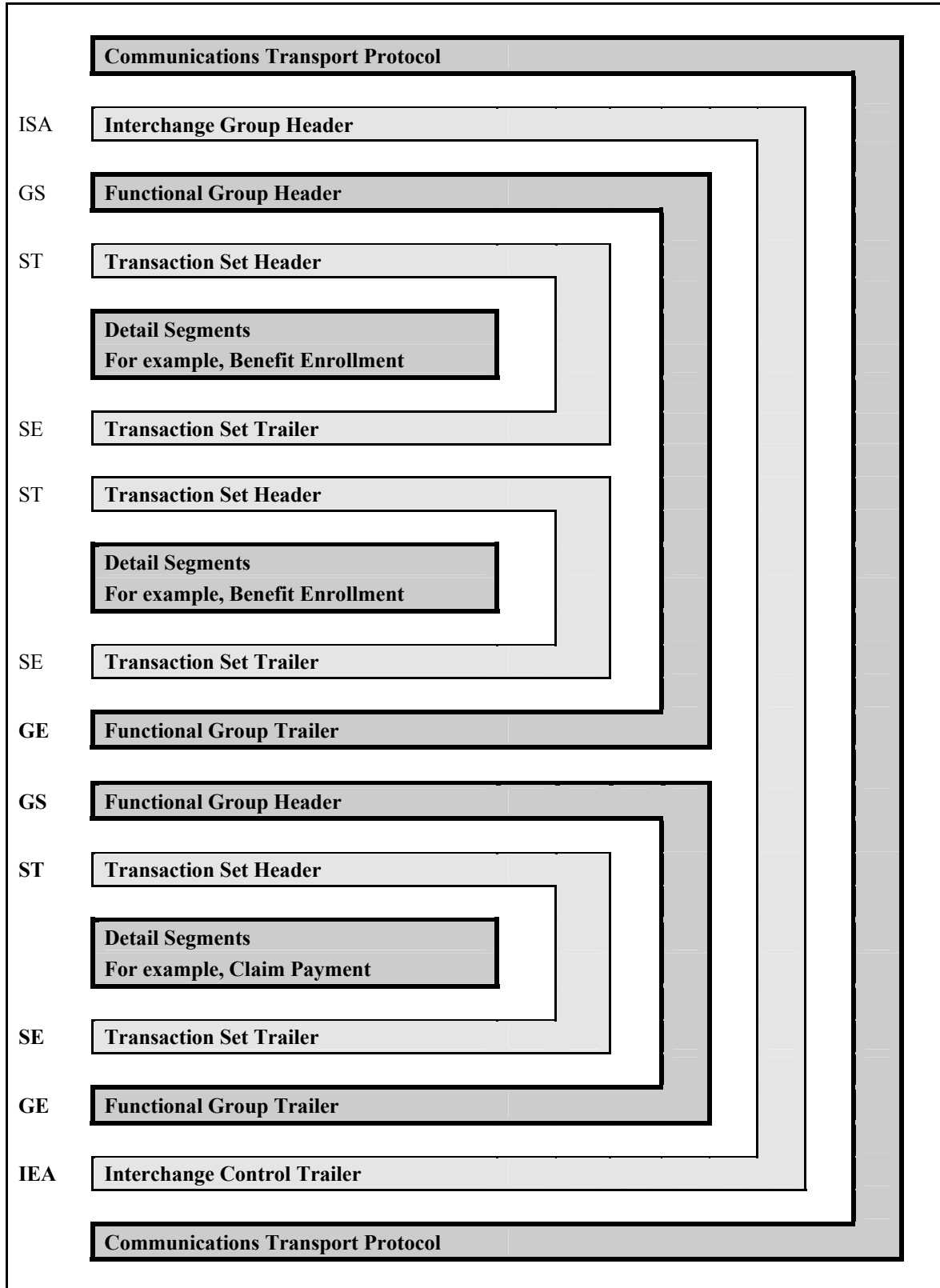


Figure A1. Transmission Control Schematic

A.1.2 Application Control Structure Definitions and Concepts

A.1.2.1 Basic Structure

A data element corresponds to a data field in data processing terminology. The data element is the smallest named item in the ASC X12 standard. A data segment corresponds to a record in data processing terminology. The data segment begins with a segment ID and contains related data elements. A control segment has the same structure as a data segment; the distinction is in the use. The data segment is used primarily to convey user information, but the control segment is used primarily to convey control information and to group data segments.

A.1.2.2 Basic Character Set

The section that follows is designed to have representation in the common character code schemes of EBCDIC, ASCII, and CCITT International Alphabet 5. The ASC X12 standards are graphic-character-oriented; therefore, common character encoding schemes other than those specified herein may be used as long as a common mapping is available. Because the graphic characters have an implied mapping across character code schemes, those bit patterns are not provided here.

The basic character set of this standard, shown in *Figure A2, Basic Character Set*, includes those selected from the uppercase letters, digits, space, and special characters as specified below.

A..Z	0..9	!	"	&	'	()	*	+
,	-	.	/	:	;	?	=	(blank)	

Figure A2. Basic Character Set

A.1.2.3 Extended Character Set

An extended character set may be used by negotiation between State Farm and the sending/receiving trading partner and includes the lowercase letters and other special characters as specified in *Figure A3, Extended Character Set*.

a..z	%	~	@	[]	_	{
}	\		<	>	#	\$	

Figure A3. Extended Character Set

Note that the extended characters include several character codes that have multiple graphical representations for a specific bit pattern. The complete list appears in other standards such as CCITT S.5. Use of the USA graphics for these codes presents no problem unless data is exchanged with an international partner. Other problems, such as the translation of item descriptions from English to French, arise when exchanging data with an international partner, but minimizing the use of codes with multiple graphics eliminates one of the more obvious problems.

A.1.2.4 Control Characters

Two control character groups are specified; they have only restricted usage. The common notation for these groups is also provided, together with the character coding in three common alphabets. In the *Matrix A1, Base Control Set*, the column IA5 represents CCITT V.3 International Alphabet 5.

A.1.2.5 Base Control Set

The base control set includes those characters that will not have a disruptive effect on most communication protocols. These are requested by:

<u>NOTATION</u>	<u>NAME</u>	<u>EBCDIC</u>	<u>ASCII</u>	<u>IA5</u>
BEL	bell	2F	07	07
HT	horizontal tab	05	09	09
LF	line feed	25	0A	0A
VT	vertical tab	0B	0B	0B
FF	form feed	0C	0C	0C
CR	carriage return	0D	0D	0D
FS	file separator	1C	1C	1C
GS	group separator	1D	1D	1D
RS	record separator	1E	1E	1E
US	unit separator	1F	1F	1F
NL	new line	15		

Matrix A1. Base Control Set

The group separator (GS) may be an exception in this set because it is used in the 3780 communications protocol to indicate blank space compression.

A.1.2.6 Extended Character Set

The extended control set includes those that may have an effect on a transmission system. These are shown in *Matrix A2, Extended Control Set*.

<u>NOTATION</u>	<u>NAME</u>	<u>EBCDIC</u>	<u>ASCII</u>	<u>IA5</u>
SOH	start of header	01	01	01
STX	start of text	02	02	02
ETX	end of text	03	03	03
EOT	end of transmission	37	04	04
ENQ	enquiry	2D	05	05
ACK	acknowledge	2E	06	06
DC1	device control 1	11	11	11
DC2	device control 2	12	12	12
DC3	device control 3	13	13	13
DC4	device control 4	3C	14	14
NAK	negative acknowledge	3D	15	15
SYN	synchronous idle	32	16	16
ETB	end of block	26	17	17

Matrix A2. EXTENDED Character Set

A.1.2.7 Delimiters

A delimiter is a character used to separate two data elements (or sub elements) or to terminate a segment. The delimiters are an integral part of the data.

Delimiters are specified in the interchange header segment, ISA. The ISA segment is a 105 byte fixed length record. The data element separator is byte number 4; the component element separator is byte number 105; and the segment terminator is the byte that immediately follows the component element separator.

Once specified in the interchange header, the delimiters are not to be used in a data element value elsewhere in the interchange. For consistency, this implementation guide uses the delimiters shown in *Matrix A3, Delimiters*, in all examples of EDI transmissions.

<u>CHARACTER</u>	<u>NAME</u>	<u>DELIMITER</u>
^	Carrot	Data Element Separator
:	Colon	Sub Element Separator
¬	Optional Hyphen	Segment Terminator

Matrix A3. Delimiters

The delimiters above are for illustrative purposes only and are not specific recommendations or requirements. Users of this implementation guide should be aware that an application system may use some valid delimiter characters within the application data. Occurrences of delimiter characters in transmitted data within a data element can result in errors in translation programs. The existence of asterisks (*) within transmitted application data is a known issue that can affect translation software.

A.1.3 Business Transaction Structure Definitions and Concepts

The ASC X12 standards define commonly used business transactions (such as a health care claim) in a formal structure called "transaction sets." A transaction set is composed of a transaction set header control segment, one or more data segments, and a transaction set trailer control segment. Each segment is composed of the following:

- A unique segment ID
- One or more logically related data elements each preceded by a data element separator
- A segment terminator

A.1.3.1 Data Element

The data element is the smallest named unit of information in the ASC X12 standard. Data elements are identified as either simple or component. A data element that occurs as an ordinarily positioned member of a composite data structure is identified as a component data element. A data element that occurs in a segment outside of the defined boundaries of a composite data structure is identified as a simple data element. The distinction between simple and component data elements is strictly a matter of context because a data element can be used in either capacity.

Data elements are assigned a unique reference number. Each data element has a same description, type, minimum length, and maximum length. For ID type data elements, this guide provides the applicable ASC X12 code values and their descriptions or references where the valid code list can be obtained.

Each data element is assigned a minimum and a maximum length. The length of the data element value is the number of character positions used except as noted for numeric, decimal, and binary elements.

The data element types shown in *Matrix A4, Data Element Types*, appear in this implementation guide.

<u>SYMBOL</u>	<u>TYPE</u>
Nn	Numeric
R	Decimal
ID	Identifier
AN	String
DT	Date
TM	Time
B	Binary

Matrix A4. Data Element Types

A.1.3.1.1 Numeric

A numeric data element is represented by one or more digits with an optional leading sign representing a value in the normal base 10. The value of a numeric data element includes an implied decimal point. It is used when the position of the decimal point within the data is permanently fixed and is not to be transmitted with the data.

This guide denotes the number of implied decimal positions. The representation for this data element type is "Nn" where N indicates that it is numeric and n indicates the number of decimal positions to the right of the implied decimal point.

If n is 0, it need not appear in the specification; N is equivalent to N0. For negative values, the leading minus sign (-) is used. Absence of a sign indicates a positive value. The plus sign (+) should not be transmitted.

EXAMPLE

A transmitted value of 1234, when specified as numeric type N2, represents a value of 12.34.

Leading zeros should be suppressed unless necessary to satisfy a minimum length requirement. The length of a numeric type data element does not include the optional sign.

A.1.3.1.2 Decimal

A decimal data element may contain an explicit decimal point and is used for numeric values that have a varying number of decimal positions. This data element type is represented as "R".

The decimal point always appears in the character stream if the decimal point is at any place other than the right end. If the value is an integer (decimal point at the right end) the decimal point should be omitted. For negative values, the leading minus sign (-) is used. Absence of a sign indicates a positive value. The plus sign (+) should not be transmitted.

Leading zeros should be suppressed unless necessary to satisfy a minimum length requirement. Trailing zeros following the decimal point should be suppressed unless necessary to indicate precision. The use of triad separators (for example, the commas in 1,000,000) is expressly prohibited. The length of a decimal type data element does not include the leading sign or a decimal point.

EXAMPLE

A transmitted value of 12.34 represents a decimal value of 12.34.

A.1.3.1.3 Identifier

An identifier data element always contains a value from a predefined list of codes that is maintained by the ASC X12 Committee or some other body recognized by the Committee. Trailing spaces should be suppressed unless they are necessary to satisfy a minimum length. An identifier is always left justified. The representation for this data element type is "ID".

A.1.3.1.4 String

A string data element is a sequence of any characters from the basic or extended character sets. The significant characters shall be left justified. Leading spaces, when they occur are presumed to be significant characters. Trailing spaces should be suppressed unless they are necessary to satisfy a minimum length. The representation of this data element type is "AN".

A.1.3.1.5 Date

A date data element is used to express the standard date in YYMMDD or CCYYMMDD format in which CC is the first two digits of the calendar year, YY is the last two digits of the calendar year, MM is the month (01 to 12), and DD is the day in the month (01 to 31).

A.1.3.1.6 Time

A time data element is used to express the ISO standard time HHMMSSd.d format in which HH is the hour for a 24 hour clock (00 to 23), MM is the minute (00 to 59), SS is the second (00 to 59) and d.d is decimal seconds. The representation for this data element type is "TM". The length of the data element determines the format of the transmitted time.

A.1.3.2 Composite Data Structure

The composite data structure is an intermediate unit of information in a segment. Composite data structures are composed of one or more logically related simple data elements, each, except the last, followed by a sub-element separator. The final data element is followed by the next data element separator or the segment terminator. Each simple data element within a composite is called a component.

Each composite data structure has a unique four-character identifier, a name, and a purpose. The identifier serves as a label for the composite. A composite data structure can be further defined through the use of syntax notes, semantic notes, and comments. Each component within the composite is further characterized by a reference designator and a condition designator. The reference designators and the condition designators are described below.

A.1.3.3 Data Segment

The data segment is an intermediate unit of information in a transaction set. In the data stream, a data segment consists of a segment identifier, one or more composite data structures or simple data elements preceded by a data element separator and succeeded by a segment terminator.

Each data segment has a unique two- or three-character identifier, a name, and a purpose. The identifier serves as a label for the data segment. A segment can be further defined through the use of syntax notes, semantic notes, and comments. Each simple data element or composite data structure within the segment is further characterized by a reference designator and a condition designator.

A.1.3.4 Syntax Notes

Syntax notes describe relational conditions among two or more data segment units within the same segment, or among two or more component data elements within the same composite data structure. For a complete description of the relational conditions, see A.1.3.8, Condition Designator.

A.1.3.5 Semantic Notes

Simple data elements or composite data structures may be referenced by a semantic note within a particular segment. A semantic note provides important additional information regarding the intended meaning of a designated data element, particularly a generic type, in the context of its use within a specified data segment. Semantic notes may also define a relational condition among data elements in a segment based on the presence of a specific value (or one of a set of values) in one of the data elements.

A.1.3.6 Comments

A segment comment provides additional information regarding the intended use of the segment.

A.1.3.7 Reference Designator

Each simple data element or composite data structure in a segment is provided a structured code that indicates the segment in which it is used and the sequential position within the segment. The code is composed of the segment identifier followed by a two-digit number that defines the position of the simple data element or composite data structure in that segment.

For purposes of creating reference designators, the composite data structure is viewed as the hierarchical equal of the simple data element. Each component data element in a composite data structure is identified by a suffix appended to the reference designator for the composite data structure of which it is a member. This suffix is a two-digit number, prefixed with a hyphen that defines the position of the component data element in the composite data structure.

EXAMPLE

- The first simple element of the CLP segment would be identified as CLP01.
- The first position in the SVC segment is occupied by a composite data structure that contains seven component data elements, the reference designator for the second component data element would be SVC01-02.

A.1.3.8 Condition Designator

Data element conditions are of three types: mandatory, optional, and relational. They define the circumstances under which a data element may be required to be present or not present in a particular segment.

DESIGNATOR	DESCRIPTION
M- Mandatory	The designation of mandatory is absolute in the sense that there is no dependency on other data elements. This designation may apply to either simple data elements or composite data structures. If the designation applies to a composite data structure, then at least one value of a component data element in that composite data structure shall be included in the data segment.
O- Optional	The designation of optional means that there is no requirement for a simple data element or composite data structure to be present in the segment. The presence of a value for a simple data element or the presence of value for any of the component data elements of a composite data structure is at the option of the sender.
X- Relational	Relational conditions may exist among two or more simple data elements within the same data segment based on the presence or absence of one of those data elements (presence means a data element must not be empty). Relational conditions are specified by a condition code (see table below) and the reference designators of the affected data elements. A data element may be subject to more than one relational condition.
CONDITION CODE	DEFINITION
P- Paired or Multiple	If any element specified in the relational condition is present, then all of the elements specified must be present.
R- Required	At least one of the elements specified in the condition must be present.
E- Exclusion	Not more than one of the elements specified in the condition may be present.
C- Conditional	If the first element specified in the condition is present, then all of the other elements must be present. However, any or all of the elements not specified as the first element in the condition may appear without requiring that the first element be present. The order of the elements in the condition does not have to be the same as the order of the data elements in the data segment.
L- List Conditional	If the first element specified in the condition is present, then at least one of the remaining elements must be present. However, any or all of the elements not specified as the first element in the condition may appear without requiring that the first element be present. The order of the elements in the condition does not have to be the same as the order of the data elements in the data segment.

Table A5. Condition Designator

A.1.3.9 Absence of Data

Any simple data element that is indicated as mandatory must not be empty if the segment is used. At least one component data element of a composite data structure that is indicated as mandatory must not be empty if the segment is used. Optional simple data elements and/or composite data structures and their preceding data element separators that are not needed should be omitted if they occur at the end of a segment. If they do not occur at the end of the segment, the simple data element values and/or composite data structure values may be omitted. Their absence is indicated by the occurrence of their preceding data element separators, in order to maintain the element or structure's position as defined in the data segment.

Likewise, when additional information is not necessary within a composite, the composite may be terminated by providing the appropriate data element separator or segment terminator.

A.1.3.10 Control Segments

A control segment has the same structure as a data segment, but it is used for transferring control information rather than application information.

A.1.3.10.1 Loop Control Segments

Loop control segments are used only to delineate bounded loops. Delineation of the loop shall consist of the loop header (LS segment) and the loop trailer (LE segment). The loop header defines the start of a structure that must contain one or more iterations of a loop of the data segments and provides the loop identifier for this loop. The loop trailer defines the end of the structure. The LS segment appears only before the first occurrence of the loop, and the LE segment appears only after the last occurrence of the loop. Unbounded looping structures do not use loop control segments.

A.1.3.10.2 Transaction Set Control Segments

The transaction set is delineated by the transaction set header (ST segment) and the transaction set trailer (SE segment). The transaction set header identifies the start and identifier of the transaction set. The transaction set trailer identifies the end of the transaction set and provides a count of the data segments, which includes the ST and SE segments.

A.1.3.10.3 Functional Group Control Segments

The functional group is delineated by the functional group header (GS segment) and the functional group trailer (GE segment). The functional group header starts and identifies one or more related transaction sets and provides a control number and application identification information. The functional group trailer defines the end of the functional group of related transaction sets and provides a count of contained transaction sets.

A.1.3.10.4 Relations among Control Segments

The control segment of this standard must have a nested relationship as is shown and annotated in this subsection. The letters preceding the control segment name are the segment identifier for that control segment. The indentation of segment identifiers shown below indicates the subordination among control segments.

GS Functional Group Header, starts a group of related transaction sets.

ST Transaction Set Header, starts a transaction set.

LS Loop Header, starts a bounded loop of data segments but is not part of the loop.

LS Loop Header, starts an inner, nested, bounded loop.

LE Loop Trailer, ends an inner, nested, bounded loop.

LE Loop Trailer, ends a bounded loop of data segments but is not part of the loop.

SE Transaction Set Trailer, ends a transaction set.

GE Functional Group Trailer, ends a group of related transaction sets.

More than one ST/SE pair, each representing a transaction set, may be used within one functional group. Also, more than one LS/LE pair, each representing a bounded loop, may be used within one transaction set.

A.1.3.11 Transaction Set

The transaction set is the smallest meaningful set of information exchanged between trading partners. The transaction set consists of a transaction set header segment, one or more data segments in a specified order, and a transaction set trailer segment. See *Figure A1, Transmission Control Schematic*.

A.1.3.11.1 Transaction Set Header and Trailer

A transaction set identifier uniquely identifies a transaction set. This identifier is the first data element of the Transaction Set Header Segment (ST). A user assigned transaction set control number in the header must match the control number in the Trailer Segment (SE) for any given transaction set. The value for the number of included segments in the SE segment is the total number of segments in the transaction set, including the ST and SE segments.

A.1.3.11.2 Data Segment Groups

The data segments in a transaction set may be repeated as individual data segments or as unbounded or bounded loops.

A.1.3.11.3 Repeated Occurrences of Single Data Segments

When a single data segment is allowed to be repeated, it may have a specified maximum number of occurrences defined at each specified position within a given transaction set standard. Alternatively, a segment may be allowed to repeat an unlimited number of times. The notation for an unlimited number of repetitions is ">1".

A.1.3.11.4 Loops of Data Segments

Loops are groups of semantically related segments. Data segment loop may be unbounded or bounded.

A.1.3.11.4.1 Unbounded Loops

To establish the iteration of a loop, the first data segment in the loop must appear once and only once in each iteration. Loops may have a specified maximum number of repetitions. Alternatively, the loop may be specified as having an unlimited number of iterations. The notation for an unlimited number of repetitions is ">1".

A specified sequence of segments is in the loop. Loops themselves are optional or mandatory. The requirement designator of the beginning segment of a loop indicates whether at least one occurrence of the loop is required. Each appearance of the beginning segment defines an occurrence of the loop.

The requirement designator of any segment within the loop after the beginning segment applies to that segment for each occurrence of the loop. If there is a mandatory requirement designator for any data segment within the loop after the beginning segment, that data segment is mandatory for each occurrence of the loop. If the loop is optional, the mandatory segment only occurs if the loop occurs.

A.1.3.11.4.2 Bounded Loops

The characteristics of unbounded loops described previously also apply to bounded loops. In addition, bounded loops require a Loop Start Segment (LS) to appear before the first occurrence and a Loop and Segment (LE) to appear after the last occurrence of the loop. If the loop does not occur, the LS and LE segments are suppressed.

A.1.3.11.5 Data Segments in a Transaction Set

When data segments are combined to form a transaction set, three characteristics are applied to each data segment: a requirement designator, a position in the transaction set, and a maximum occurrence.

A.1.3.11.6 Data Segment Requirement Designators

A data segment, or loop, has one of the following requirement designators for insurance transaction sets, indicating its appearance in the data stream of a transmission. These requirement designators are represented by a single character code.

<u>DESIGNATOR</u>	<u>DESCRIPTION</u>
M- Mandatory	This data segment must be included in the transaction set. (Note that a data segment may be mandatory in a loop of data segments, but the loop itself is optional if the beginning segment of the loop is designated as optional).
O- Optional	The presence of this data segment is the optional of the sending party.

A.1.3.11.7 Data Segment Position

The ordinal positions of the segments in a transaction set are explicitly specified for that transaction. Subject to the flexibility provided by the optional requirement designators of the segments, this positioning must be maintained.

A.1.3.11.8 Data Segment Occurrence

A data segment may have a maximum occurrence of one, a finite number greater than one, or an unlimited number indicated by ">1".

A.1.3.12 Functional Group

A functional group is a group of similar transaction sets that is bounded by a functional group header segment and a functional group trailer segment. The functional identifier defines the group of transactions that may be included within the functional group. The value for the functional group control number in the header and trailer control segments must be identical for any given group. The value for the number of included transaction sets is the total number of transaction sets in the group. See *Figure A1, Transmission Control Schematic*.

A.1.4 Envelopes and Control Structures

A.1.4.1 Interchange Control Structures

Typically, the term "interchange" denotes the ISA/IEA envelope that is transmitted between trading/business partners. Interchange control is achieved through several "control" components. The interchange control number is contained in data element ISA13 of the ISA segment. The identical control number must also occur in data element 02 of the IEA segment. Most commercial translation software products will verify that these two fields are identical. In most translation software products, if these fields are different the interchange will be "suspended" in error.

There are many other features of the ISA segment that are used for control measures. For instance, the ISA segment contains data elements such as authorization information, security information, sender identification, and receiver identification that can be used for control purposes. These data elements are agreed upon by the trading partners prior to transmission and are contained in the written trading partner agreement. The interchange date and time data elements as well as the interchange control number within the ISA segment are used for debugging purposes when there is a problem with the transmission or the interchange.

Data Element ISA12, Interchange Control Version Number, indicates the version of the ISA/IEA envelope. The ISA12 does not indicate the version of the transaction set that is being transmitted but rather the envelope that encapsulates the transaction. An Interchange Acknowledgment can be denoted through data element ISA14. The acknowledgment that would be sent in reply to a "yes" condition in data element ISA14 would be TA1 segment. Data Element ISA15, Test Indicator, is used between trading partners to indicate that the transmission is in a "test" or "production" mode. This becomes significant when the production phase of the project is to commence. Data element ISA16, Sub element Separator, is used by the translator for interpretation of composite data elements.

The ending component of the interchange or ISA/IEA envelope is the IEA segment. Data element IEA01 indicates the number of functional groups that are included within the interchange. In most commercial translation software products, an aggregate count of functional groups is kept while interpreting the interchange. This count is then verified with data element IEA01. If there is a

discrepancy, in most commercial products, the interchange is suspended. The other data element in the IEA segment is IEA02, which is referenced above.

See *Appendix B, EDI Control Directory*, for a complete detailing of the interchange control header and trailer.

A.1.4.2 Functional Groups

Control structures within the functional group envelope include the functional identifier code in GS01. The Functional Identifier Code is used by the commercial translation software during interpretation of the interchange to determine the different transaction sets that may be included within the functional group. If an inappropriate transaction set is contained within the functional group, most commercial translation software will suspend the functional group within the interchange. The Application Sender's Code in GS02 can be used to identify the sending unit of the transmission. The Application Receiver's Code in GS03 can be used to identify the receiving unit of the transmission. The functional group contains a creation date (GS04) and creation time (GS05) for the functional group. The Group Control Number is contained in GS06. These data elements (GS04, GS05, and GS06) can be used for debugging purposes during problem resolution. GS08, Version/Release/Industry Identifier Code is the version/release/sub-release of the transaction sets being transmitted in this functional group. Appendix B provides guidance for the value for this data element. The GS08 does not represent the version of the interchange (ISA/IEA) envelope but rather the version/release/sub-release of the transaction sets that are encompassed within the GS/GE envelope.

The Functional Group Control Number in GS06 must be identical to data element 02 of the GE segment. Data element GE01 indicates the number of transaction sets within the functional group. In most commercial translation software products, an aggregate count of the transaction sets is kept while interpreting the functional group. This count is then verified with data element GE01.

See *Appendix B, EDI Control Directory*, for a complete detailing of the functional group header and trailer.

A.1.5 Acknowledgments

A.1.5.1 Interchange Acknowledgment, TA1

The Interchange or TA1 Acknowledgment is a means of replying to an interchange or transmission that has been sent. The TA1 verifies the envelopes only. Transaction set-specific verification is accomplished through use of the Functional Acknowledgment Transaction Set, 997. See *A.1.5.2, Functional Acknowledgment*, 997, for more details. The TA1 is a single segment and is unique in the sense that this single segment is transmitted without the GS/GE envelope structures. A TA1 can be included in an interchange with other functional groups and transactions.

Encompassed in the TA1 are the interchange control number, interchange date and time, interchange acknowledgment code, and the interchange note code. The interchange control number, interchange date and time are identical to those that were present in the transmitted interchange from the sending partner. This provides the capability to associate the TA1 with the transmitted interchange. TA104, Interchange Acknowledgment Code, indicates the status of the interchange control structure. This data element stipulates whether the transmitted interchange was accepted with no errors, accepted with errors, or rejected because of errors. TA105, Interchange Note Code, is a numeric code that indicates the error found while processing the interchange control structure. Values for this data element indicate whether the error occurred at the interchange or functional group envelope.

The TA1 segment provides the capability for the receiving trading partner to notify the sending trading partner of problems that were encountered in the interchange control structure.

Due to the uniqueness of the TA1, implementation should be predicated upon the ability for the sending and receiving trading partners commercial translators to accommodate the uniqueness of the TA1.

See *Appendix B, EDI Control Directory*, for a complete detailing of the TA1 segment.

A.1.5.2 Functional Acknowledgment, 997

The Functional Acknowledgment Transaction Set, 997, has been designed to allow Trading partners to establish a comprehensive control function as a part of their business exchange process. This acknowledgment process facilitates control of EDI. There is a one-to-one correspondence between a 997 and a functional group. Segments within the 997 can identify the acceptance or rejection of the functional group. Segments within the 997 can identify the acceptance or rejection of the functional group, transaction sets or segments. Data elements in error can also be identified. There are many EDI implementations that have incorporated the acknowledgment process in all of their electronic communications. Typically, the 997 is used as a functional acknowledgment to a previously transmitted functional group. Many commercially available translators can automatically generate this transaction set through internal parameter settings. Additionally, translators will automatically reconcile received acknowledgments to functional groups that have been sent. The benefit to this process is that the sending trading partner can determine if the receiving trading partner has received ASC X12 transaction sets through reports that can be generated by the translation software to identify transmissions that have not been acknowledged.

As stated previously, the 997 is a transaction set and thus is encapsulated within the interchange control structure (envelopes) for transmission.

As with any information flow, an acknowledgment process is essential. If an "automatic" acknowledgment process is desired between trading partners then it is recommended that the 997 be used.

See *Appendix B, EDI Control Directory*, for a complete detailing of transaction set 997.

B EDI Control Directory

B.1 Control Segments

- **ISA**
Interchange Control Header Segment
- **IEA**
Interchange Control Trailer Segment
- **GS**
Functional Group Header Segment
- **GE**
Functional Group Trailer Segment
- **TA1**
Interchange Acknowledgment Segment

IMPLEMENTATION

ISA INTERCHANGE CONTROL HEADER

Notes: 1. The ISA is a fixed record length segment and all positions within each of the data elements must be filled. The first element separator defines the element separator to be used through the entire interchange. The segment terminator used after the ISA defines the segment terminator to be used throughout the entire interchange. Spaces in the example are represented by "." for clarity.

Example: ISA^00^.....^01^SECRET.... ^ZZ^SUBMITTERS.ID... ^ZZ
^RECEIVERS.ID... ^980727^1250^U^00401^000000905^1^P^:~

STANDARD

ISA Interchange Control Header

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
ISA01	I01	Authorization Information Qualifier	R 2/2	M ID 2/2
ISA02	I02	Authorization Information	R 10/10	M AN 10/10
ISA03	I03	Security Information Qualifier	R 2/2	M ID 2/2
ISA04	I04	Security Information	R 10/10	M AN 10/10
ISA05	I05	Interchange ID Qualifier	R 2/2	M ID 2/2
ISA06	I06	Interchange Sender ID	R 15/15	M AN 15/15
ISA07	I05	Interchange ID Qualifier	R 2/2	M ID 2/2
ISA08	I07	Interchange Receiver ID	R 15/15	M AN 15/15
ISA09	I08	Interchange Date	R 6/6	M DT 6/6
ISA10	I09	Interchange Time	R 4/4	M TM 4/4
ISA11	I10	Interchange Control Standards Identifier	R 1/1	M ID 1/1
ISA12	I11	Interchange Control Version Number	R 5/5	M ID 5/5
ISA13	I12	Interchange Control Number	R 9/9	M N0 9/9
ISA14	I13	Acknowledgment Requested	R 1/1	M ID 1/1
ISA15	I14	Test Indicator	R 1/1	M ID 1/1
ISA16	I15	Component Element Separator	R 1/1	M AN 1/1

ELEMENT SUMMARY

ISA01 Authorization Information Qualifier
Code to identify the type of information in the Authorization Information

<u>CODE</u>	<u>DEFINITION</u>
00	No Authorization Information Present (No Meaningful Information in ISA02)
03	Additional Data Identification

ISA02 Authorization Information
Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)

Additional Identification Information.

ISA03 Security Information Qualifier
Code to identify the type of information in the Security Information

<u>CODE</u>	<u>DEFINITION</u>
00	No Security Information Present (No Meaningful Information in ISA04)

ISA04 Security Information
This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)

Security Information about the interchange sender.

ISA05 Interchange ID Qualifier
Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

This ID qualifies the sender in ISA06.

<u>CODE</u>	<u>DEFINITION</u>
01	Duns (Dun & Bradstreet)
12	Phone (Telephone Companies) NOT ADVISED
14	Duns Plus Suffix
30	U.S. Federal Tax Identification Number
33	National Association of Insurance Commissioners Company Code (NAIC)
ZZ	Mutually Defined

ISA06 Interchange Sender ID
Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element

Identification Code.

ISA07 Interchange ID Qualifier
Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

This ID qualifies the receiver in ISA08.

<u>CODE</u>	<u>DEFINITION</u>
01	Duns (Dun & Bradstreet)
12	Phone (Telephone Companies) NOT ADVISED
14	Duns Plus Suffix
30	U.S. Federal Tax Identification Number

33 National Association of Insurance Commissioners Company Code (NAIC)
ZZ Mutually Defined

ISA08 Interchange Receiver ID
Identification code published by the receiver of the data. When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them.

Identification code.

ISA09 Interchange Date
Date of the interchange

The date format is YYMMDD.

ISA10 Interchange Time
Time of the interchange

The time format is HHMM.

ISA11 Interchange Control Standards Identifier
Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer

<u>CODE</u>	<u>DEFINITION</u>
U	U.S. EDI Community of ASC X12, TDCC, and UCS

ISA12 Interchange Control Version Number
This version number covers the interchange control segments

<u>CODE</u>	<u>DEFINITION</u>
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997

ISA13 Interchange Control Number
A control number assigned by the interchange sender

Control Number.

ISA14 Acknowledgment Code
Code sent by the sender to request an interchange acknowledgment (TA1)

See Section A.1.5.1 for Interchange Acknowledgment Information.

<u>CODE</u>	<u>DEFINITION</u>
0	No Acknowledgment Requested
1	Interchange Acknowledgment Requested

ISA15 Test Indicator
Code to indicate whether data enclosed by this interchange envelope is test or production

<u>CODE</u>	<u>DEFINITION</u>
P	Production Data
T	Test Data

ISA16 Component Element Separator
This field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator

Delimiter to separate component data elements.

IMPLEMENTATION

IEA INTERCHANGE CONTROL TRAILER

Example: IEA^1^000000905~

STANDARD

IEA Interchange Control Trailer

Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
IEA01	I16	Number of Included Functional Groups	R 1/5	M N0 1/5
IEA02	I12	Interchange Control Number	R 9/9	M N0 9/9

ELEMENT SUMMARY

IEA01 Number of Included Functional Groups
A count of the number of functional groups included in an interchange

Total number of functional groups in interchange.

IEA02 Interchange Control Number
A control number assigned by the interchange sender

Control Number.

IMPLEMENTATION

GS FUNCTIONAL GROUP HEADER

Example: GS^IN^SENDER CODE^RECEIVER CODE^19940331^0900^1^X^004010^

STANDARD

GS Functional Group Header

- Purpose:** To indicate the beginning of a functional group and to provide control information.
- Semantic:** **04** GS04 is the Group Date
05 GS05 is the Group Time
06 The data interchange control number GS06 in this header must be identical to the same data element in the associated Functional Group Trailer GE02.
- Comments:** **00** A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
GS01	479	Functional Identifier Code	R 2/2	M ID 2/2
GS02	142	Application Sender's Code	R 2/15	M AN 2/15
GS03	124	Application Receiver's Code	R 2/15	M AN 2/15
GS04	373	Date	R 8/8	M DT 8/8
GS05	337	Time	R 4/8	M TM 4/8
GS06	28	Group Control Number	R 1/9	M N0 1/9
GS07	455	Responsible Agency Code	R 1/2	M ID 1/2
GS08	480	Version/Release/Industry Identifier Code	R 1/12	M AN 1/12

ELEMENT SUMMARY

GS01 Functional Identifier Code
Code identifying a group of application related Transaction Sets

<u>CODE</u>	<u>DEFINITION</u>
IN	Invoice Information (810,819)

GS02 Application Sender's Code
Code identifying party sending transmission Codes agreed to by trading partners

The identification code of the unit sending the information.

GS03 Application Receiver's Code
Code identifying party receiving transmission Codes agreed to by trading partners

The identification code for the unit receiving the information.

GS04 Date
Date (CCYYMMDD)

This is the Functional Group creation date.

GS05 Time
Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Time in 24-hour format.

GS06 Group Control Number
Assigned number originated and maintained by the sender

Control Number.

GS07 Responsible Agency Code
Code used in conjunction with Data Element 480 to identify the issuer of the standard

<u>CODE</u>	<u>DEFINITION</u>
X	Accredited Standards Committee X12

GS08 Version / Release / Industry Identifier Code
Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments. If code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user). If code in DE455 in GS segment is T, then other formats are allowed

<u>CODE</u>	<u>DEFINITION</u>
4010	Draft Standards Approved for Publication by ASC X12, Procedures Review Board through October 1997.

IMPLEMENTATION

GE FUNCTIONAL GROUP TRAILER

Example: GE^1^1-

STANDARD

GE Functional Group Trailer

- Purpose:** To indicate the end of a functional group and to provide control information.
- Semantic:** **02** The data interchange control number GE02 in this trailer must be identical to the same data element in the associated Functional Header GS06.
- Comments:** **00** The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
GE01	97	Number of Transaction Sets Included	R 1/6	M N0 1/6
GE02	28	Group Control Number	R 1/9	M N0 1/9

ELEMENT SUMMARY

GE01 Number of Transaction Sets Included
Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element

Total number of transaction sets in Functional Group.

GE02 Group Control Number
Assigned number originated and maintained by the sender

Control Number.

B.2 Functional Acknowledgment Transaction Set, 997

STANDARD

997 Functional Acknowledgment

Functional Group ID: **FA**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be 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. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

Header

POS. #	SEG.ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
010	ST	Transaction Set Header	M	1	
020	AK1	Functional Group Response Header	M	1	
LOOP ID - AK2					999999
030	AK2	Transaction Set Response Header	O	1	
LOOP ID - AK2/AK3					999999
040	AK3	Data Segment Note	O	1	
050	AK4	Data Element Note	O	99	
060	AK5	Transaction Set Response Trailer	M	1	
070	AK9	Functional Group Response Trailer	M	1	
080	SE	Transaction Set Trailer	M	1	

NOTES:

- 1/010** These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments.
- 1/010** The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one applications sender's code.

- 1/010** There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.
- 1/020** AK1 is used to respond to the functional group header and to start the acknowledgment for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
- 1/030** AK2 is used to start the acknowledgment of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.
- 1/040** The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

IMPLEMENTATION

ST Transaction Set Header

Loop: ----
Usage: Required
Repeat: 1

Example: ST^997^0001-

STANDARD

ST Transaction Set Header

Level: Header
Position: 010
Loop: ----
Requirement: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number.
Semantic: 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
ST01	143	Transaction Set Identifier Code	R 3/3	M/Z ID 3/3
ST02	329	Transaction Set Control Number	R 4/9	M AN 4/9

ELEMENT SUMMARY

ST01 Transaction Set Identifier Code
Code uniquely identifying a Transaction Set

<u>CODE</u>	<u>DEFINITION</u>
997	Functional Acknowledgment

ST02 Transaction Set Control Number
Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

The Transaction Set Control Number in ST02 and SE02 must be identical. The number is assigned by the originator and must be unique within a functional group (GS-GE). The number also aids in error resolution research. For example, start with the number 0001 and increment from there.

Use the corresponding value in ST02 for this transaction set

IMPLEMENTATION

AK1 Functional Group Response Header

Usage: Required
Repeat: 1

Example: AK1^FR^1~

STANDARD

AK1 Functional Group Response

Level: Header
Position: 020
Loop: ----
Requirement: Mandatory
Max Use: 1
Purpose: To start acknowledgment of a functional group.
Set Notes: 1. AK1 is used to respond to the functional group header and to start the acknowledgment for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
Semantic: 01 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
02 AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
AK101	479	Functional Identifier Code	R 2/2	M/Z ID 2/2
AK102	28	Group Control Number	R 1/9	M/Z N0 1/9

ELEMENT SUMMARY

AK101 Functional Identifier Code
Code identifying a group of application related Transaction Sets

<u>CODE</u>	<u>DEFINITION</u>
FR	Invoice Transaction Set

AK102 Group Control Number
Assigned number originated and maintained by the sender

Control Number.

IMPLEMENTATION**AK2 Transaction Set Response Header**

Loop: Transaction Set Response Header **Repeat:** 999999
Usage: Optional
Repeat: 1

Example: AK2^810^0005~

STANDARD**AK2** Transaction Set Response

Level: Header
Position: 030
Loop: AK2 **Repeat:** 999999
Requirement: Optional
Max Use: 1
Purpose: To start acknowledgment of a single transaction set.
Set Notes: 1 AK2 is used to start the acknowledgment of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.
Semantic: 01 AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.
02 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
AK201	143	Transaction Set Identifier Code	R 3/3	M/Z ID 3/3
AK202	329	Transaction Set Control Number	R 4/9	M/Z N0 4/9

ELEMENT SUMMARY

AK201 Transaction Set Identifier Code
Code uniquely identifying a Transaction Set

<u>CODE</u>	<u>DEFINITION</u>
810	Invoice

AK202 Transaction Set Control Number
Identifying control number that must be unique within the transaction set functional group assigned by the originator of a transaction set

Unique Control Number.

IMPLEMENTATION

AK3 Data Segment Note

Loop: Data Segment Note **Repeat:** 999999
Usage: Optional
Repeat: 1

Example: AK3^NM1^37~

STANDARD

AK3 Data Segment Note

Level: Header
Position: 040
Loop: AK2/AK3 **Repeat:** 999999
Requirement: Optional
Max Use: 1
Purpose: To report errors in a data segment and to identify the location of the data segment.
Set Notes: 1. The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
AK301	721	Segment ID Code	R 2/3	M ID 2/3
AK302	719	Segment Position in Transaction Set	R 1/6	M N0 1/6
AK303	447	Loop Identifier Code	O 1/4	O AN 1/4
AK304	720	Segment Syntax Error Code	O 1/3	O ID 1/3

ELEMENT SUMMARY

AK301 Segment ID Code
 Code defining the segment ID of the data segment in error See Appendix A - Number 77

This is the 2 or 3 character, which occur at the beginning of a segment.

AK302 Segment Position in Transaction Set

The numerical count position of this data segment from the start of the transaction set; the transaction set header is count position 1

This is a data count, not a segment position in the standard description.

AK303 Loop Identifier Code

The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE

Code identifying a loop within the transaction set which is bounded by the related LS and LE segments (corresponding LS and LE segments must have the same value for loop identifier). (Note: The loop ID number given on the transaction set diagram is recommended as the value for this data element in the segments LS and LE).

AK304 Segment Syntax Error Code

Code indicating error found based on the syntax editing of a segment

<u>CODE</u>	<u>DEFINITION</u>
1	Unrecognized Segment ID
2	Unexpected Segment
3	Mandatory Segment missing
4	Loop occurs over Maximum times
5	Segment exceeds Maximum use
6	Segment not in Defined Transaction Set
7	Segment not in proper sequence
8	Segment has Data Element Errors

IMPLEMENTATION

AK4 Data Element Note

Loop: Data Segment Note
Usage: Optional
Repeat: 99

Example: AK4^1^98^7-

STANDARD

AK4 Data Element Note

Level: Header
Position: 050
Loop: AK2/AK3
Requirement: Optional
Max Use: 99
Purpose: To report errors in a data element and to identify the location of the data element.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
AK401	C030	Position in Segment	R	M
AK401-1	722	Element Position in Segment	R 1/2	M N0 1/2
AK401-2	1528	Component Data Element Position in Composite	O 1/2	O N0 1/2
AK402	725	Data Element Reference Number	O 1/4	O N0 1/4
AK403	723	Data Element Error Code	R 1/3	M ID 1/3
AK404	724	Copy of Bad Data Element	O 1/99	O AN 1/99

ELEMENT SUMMARY**AK401****Position in Segment**

Code indicating the relative position of a simple data element, or the relative position of a composite data structure combined with the relative position of the component data element within the composite data structure, in error; the count starts with 1 for the simple data element or composite data structure immediately following the segment ID

Data element position.**AK401-1****Element Position in Segment**

This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID

Element Position.**AK401-2****Component Data Element Position in Composite**

To identify the component data element position within the composite that is in error

Component Data Element Position.**AK402****Data Element Reference Number**

Reference number used to locate the data element in the Data Element Dictionary

The Data Element Reference Number for this data element is 725. All reference numbers are found with the segment descriptions in this guide.

AK403**Data Element Syntax Error Code**

Code indicating the error found after syntax edits of a data element

<u>CODE</u>	<u>DEFINITION</u>
1	Mandatory Data Element missing
2	Conditional Required Data Element missing
3	Too many Data Elements
4	Data Element too short
5	Data Element too long
6	Invalid character in Data Element
7	Invalid Code value
8	Invalid Date
9	Invalid Time
10	Exclusion Condition violated

AK404**Copy of Bad Data Element**

This is a copy of the data element in error

Copy of Bad Data Element.

IMPLEMENTATION

AK5 Transaction Set Response Trailer

Loop: Data Segment Note
Usage: Required
Repeat: 1

Example: AK5^E^5~

STANDARD

AK5 Transaction Set Response Trailer

Level: Header
Position: 060
Loop: AK2
Requirement: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection and to report errors in a transaction set.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
AK501	717	Transaction Set Acknowledgment Code	M 1/1	M ID 1/1
AK502	718	Transaction Set Syntax Error Code	O 1/3	O ID 1/3
AK503	718	Transaction Set Syntax Error Code	O 1/3	O ID 1/3
AK504	718	Transaction Set Syntax Error Code	O 1/3	O ID 1/3
AK505	718	Transaction Set Syntax Error Code	O 1/3	O ID 1/3
AK506	718	Transaction Set Syntax Error Code	O 1/3	O ID 1/3

ELEMENT SUMMARY

AK501 Transaction Set Acknowledgment Code
Code indicating accept or reject condition based on the syntax editing of the transaction set

<u>CODE</u>	<u>DEFINITION</u>
A	Accepted (ADVISED)
E	Accepted, but Errors were noted
M	Rejected, Message Authentication Code (MAC) Failed
R	Rejected (ADVISED)
W	Rejected, Assurance Failed Validity Tests
X	Rejected, Content After Decryption Could Not Be Analyzed

AK502 Transaction Set Syntax Error Code
Code indicating error found based on the syntax editing of a transaction set

This element is required if an error exists

<u>CODE</u>	<u>DEFINITION</u>
1	Transaction Set Not Supported
2	Transaction Set Trailer Missing
3	Transaction Set Control Number in Header and Trailer Do Not Match
4	Number of Included Segments Does Not Match Actual Count
5	One or More Segments in Error
6	Missing or Invalid Transaction Set Identifier
7	Missing or Invalid Transaction Set Control number
8	Authentication Key Name Unknown
9	Encryption Key Name Unknown
10	Requested Service (Authentication or Encrypted) Not Available
11	Unknown Security Recipient
12	Incorrect Message Length (Encryption Only)
13	Message Authentication Code Failed
15	Unknown Security Originator
16	Syntax Error in Decrypted Text
17	Security Not Supported
19	S1E Security End Segment Missing for S1S Security Start Segment
20	S1S Security Start Segment Missing for S1E Security End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	Transaction Set Control Number not unique within the Functional Group
24	S3E Security End Segment Missing for S3S Security Start Segment
25	S3S Security Start Segment Missing for S3E Security End Segment
26	S4E Security End Segment Missing for S4S Security Start Segment
27	S4S Security Start Segment Missing for S4E Security End Segment

AK503 Transaction Set Syntax Error Code
Code indicating error found based on the syntax editing of a transaction set

Use the same codes that were listed in AK502.

AK504 Transaction Set Syntax Error Code
Code indicating error found based on the syntax editing of a transaction set

Use the same codes that were listed in AK502.

AK505 Transaction Set Syntax Error Code
Code indicating error found based on the syntax editing of a transaction set

Use the same codes that were listed in AK502.

AK506 Transaction Set Syntax Error Code
Code indicating error found based on the syntax editing of a transaction set

Use the same codes that were listed in AK502.

IMPLEMENTATION

AK9 Functional Group Response Trailer

Usage: Required

Repeat: 1

Example: AK9^A^2^2^2-

STANDARD

AK9 Functional Group Response Trailer

Level: Header

Position: 070

Loop: -----

Requirement: Mandatory

Max Use: 1

Purpose: To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group.

Comments: A If AK901 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
AK901	715	Functional Group Acknowledge Code	R 1/1	M ID 1/1
AK902	97	Number of Transaction Sets Included	R 1/6	M N0 1/6
AK903	123	Number of Received Transaction Sets	R 1/6	M N0 1/6
AK904	2	Number of Accepted Transaction Sets	R 1/6	M N0 1/6
AK905	716	Functional Group Error Code	O 1/3	O ID 1/3
AK906	716	Functional Group Error Code	O 1/3	O ID 1/3
AK907	716	Functional Group Error Code	O 1/3	O ID 1/3
AK908	716	Functional Group Error Code	O 1/3	O ID 1/3
AK909	716	Functional Group Error Code	O 1/3	O ID 1/3

ELEMENT SUMMARY

AK901 Functional Group Acknowledge Code
Code indicating accept or reject condition based on the syntax editing of the functional group

<u>CODE</u>	<u>DEFINITION</u>
A	Accepted (ADVISED)
E	Accepted, But Errors Were Noted
M	Rejected, Message Authentication Code (MAC) Failed
P	Partially Accepted, At Least One Transaction Set Was Rejected
R	Rejected (ADVISED)
W	Rejected, Assurance Failed Validity Tests
X	Rejected, Content After Decryption Could Not Be Analyzed

AK902 Number of Transaction Sets Included
Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element

This is the value of the original GE01.

AK903 Number of Received Transaction Sets
Number of Transaction Sets received.

Number of Received Transaction Sets.

AK904 Number of Accepted Transaction Sets
Number of accepted Transaction Sets in a Functional Group

Number of Accepted Transaction Sets.

AK905 Functional Group Syntax Error Code
Code indicating error found based on the syntax editing of the functional group header and/or trailer

<u>CODE</u>	<u>DEFINITION</u>
1	Functional Group not supported
2	Functional Group Version not supported
3	Functional Group Trailer missing
4	Group Control Number in the Functional Group Header and Trailer do not agree
5	Number of included Transaction Sets does not match actual count
6	Group Control Number violates syntax
10	Authentication Key Name Unknown
11	Encryption Key Name Unknown
12	Requested Service (Authentication or Encryption) Not Available
13	Unknown Security Recipient
14	Unknown Security Originator
15	Syntax Error in Decrypted Text
16	Security Not Supported
17	Incorrect Message Length (Encryption Only)
18	Message Authentication Code Failed
19	S1E Security End Segment Missing for S1S Security Start Segment
20	S1S Security Start Segment Missing for S1E End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	S3E Security End Segment Missing for S3S Security Start Segment
24	S3S Security Start Segment Missing for S3E Security End Segment
25	S4E Security End Segment Missing for S4S Security Start Segment

26 S4S Security Start Segment Missing for S4E Security End Segment

AK906 Functional Group Syntax Error Code
Code indicating error found based on the syntax editing of the functional group header and/or trailer

Use the same codes that were listed in AK905.

AK907 Functional Group Syntax Error Code
Code indicating error found based on the syntax editing of the functional group header and/or trailer

Use the same codes that were listed in AK905.

AK908 Functional Group Syntax Error Code
Code indicating error found based on the syntax editing of the functional group header and/or trailer

Use the same codes that were listed in AK905.

AK909 Functional Group Syntax Error Code
Code indicating error found based on the syntax editing of the functional group header and/or trailer

Use the same codes that were listed in AK905.

IMPLEMENTATION

SE Transaction Set Trailer

Usage: Required

Repeat: 1

Example: SE^67^0001~

STANDARD

SE Transaction Set Trailer

Level: Header

Position: 080

Loop: ---

Requirement: Mandatory

Max Use: 1

Purpose: To indicate the end of a transaction set and to provide a count of the transmitted segments.

Comment: 1 SE is the last segment of each transaction set.

DIAGRAM

Seq. No.	Ref. No.	ASC X12 Name	SF Req.	ASC X12 Attributes
SE01	096	Number of Included Segments	R 1/10	M N0 1/10
SE02	329	Transaction Set Control Number	R 4/9	M AN 4/9

ELEMENT SUMMARY

SE01 Number of Included Segments
Total number of segments included in a transaction set including ST and SE segments

Total number of segments.

SE02 Transaction Set Control Number
Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

The Transaction Set Control Numbers in ST02 and SE02 must be identical. The number is assigned by the originator and must be unique within a functional group (GS-GE). The number also aids in error resolution research. For example, start with the number 0001 and increment from there.

C Code Lists and External Code Sources

5 Countries, Currencies and Funds

SIMPLE DATA ELEMENT/CODE REFERENCES

235/CH, 26, 100

SOURCE

Codes for Representation of Names of Countries, ISO 3166-(Latest Release)
Codes for Representation of Currencies and Funds, ISO 4217-(Latest Release)

AVAILABLE FROM

American National Standards Institute
11 West 42nd Street, 13th Floor
New York, NY 10036

ABSTRACT

This international standard provides a two-letter alphabetic code for representing the names of countries, dependencies, and other areas of special geopolitical interest for the purposes of international exchange and general directions for the maintenance of the code. The standard is intended for use in any application requiring expression of entities in coded form. Most currencies are those of geopolitical entities that are listed in ISO 3166, Codes for the Representation of Names of Countries. The code may be a three-character alphabetic or three-digit numeric. The two leftmost characters of the alphabetic code identify the currency authority to which the code is assigned (using the two character alphabetic code from ISO 3166, if applicable). The rightmost character is a mnemonic derived from the name of the major currency unit of fund. For currencies not associated with a single geographic entity, a specially- allocated two-character alphabetic code, in the range XA to XZ identifies the currency authority. The rightmost character is derived from the name of the geographic area concerned, and is mnemonic to the extent possible. The numeric codes are identical to those assigned to the geographic entities listed in ISO 3166. The range 950-998 is reserved for identification of funds and currencies not associated with a single entity listed in ISO 3166.

22 States and Outlying Areas of the U.S.

SIMPLE DATA ELEMENT/CODE REFERENCES

66/SJ, 771/009, 235/A5, 156

SOURCE

National Zip Code and Post Office Directory

AVAILABLE FROM

U.S. Postal Service
National Information Data Center
P.O. Box 2977
Washington, DC 20013

ABSTRACT

Provides names, abbreviations, and codes for the 50 states, the District of Columbia, and the outlying areas of the U.S. The entities listed are considered to be the first order divisions of the U.S. Microfiche available from NTIS (same as address above). The Canadian Post Office lists the following as "official" codes for Canadian Provinces: AB - Alberta BC - British Columbia MB - Manitoba NB - New Brunswick NF - Newfoundland NS - Nova Scotia NT - North West Territory ON - Ontario PE - Prince Edward Island PQ - Quebec SK - Saskatchewan YT - Yukon

51 ZIP Code

SIMPLE DATA ELEMENT/CODE REFERENCES

66/16, 309/PQ, 309/PR, 309/PS, 771/010, 116

SOURCE

National ZIP Code and Post Office Directory, Publication 65

AVAILABLE FROM

U.S. Postal Service
Washington, DC 20260

ABSTRACT

The ZIP Code is a geographic identifier of areas within the United States and its territories for purposes of expediting mail distribution by the U.S. Postal Service. It is five or nine numeric digits. The ZIP Code structure divides the U.S. into ten large groups of states. The leftmost digit identifies one of these groups. The next two digits identify a smaller geographic area within the large group. The two right-most digits identify a local delivery area. In the nine-digit ZIP Code, the four digits that follow the hyphen further subdivide the delivery area. The two leftmost digits identify a sector, which may consist of several large buildings, blocks or groups of streets, a floor of a building, or a cluster of mailboxes. The USPS Domestic Mail Manual includes information on the use of the new 11-digit zip code.

D Change Summary

This is the first Premier Services Invoice Implementation Guide (IG) for the 810. In future guides, this section will contain a summary of all changes since the previous guide.

**END
OF THE
STATE FARM INSURANCE COMPANIES
PREMIER SERVICES INVOICE
IMPLEMENTATION
GUIDE**