

Section 2: Communication and Data Exchange Technical Specifications and Interchange Control Structure

Communication Overview

This section identifies the methods of data transmission available for submitting and receiving transaction data to and from ISDH. ISDH accepts batch submissions utilizing SFTP. These transmissions are processed daily.

Secure File Transfer Protocol SFTP:

The following tables illustrate the ISDH information that will be needed for providers.

Parameter	Value
Hostname	sftp.in.gov
Port number	22
User name	Provided in Set Up Sheet
Password	Sent in separate e-mail.

The following information may be required for trouble shooting records:

1. Is a proxy server in use?
2. Is port 22 enabled for outbound on the network?

ISDH SFTP User Account Setup and Password Reset Procedures:

These procedures will be separated into two parts; the first covering the initial establishment of SFTP User Account for ISDH providers and the second part covering procedures and security measures to be taken when resetting User passwords.

ISDH will request a new SFTP user account be established by the State of Indiana Office of Technology (IOT). ISDH will ensure that the account is active and forward the User Name and temporary password to the Trading Partner Point of Contact (POC). ISDH will forward the POC information to IOT. IOT password policies may be viewed through the following link:

<http://intranet.iot.in.gov/security/Shared%20Documents/Practice%208.2.1%20-%20End%20User%20Password%20Minimums.pdf>

Point of contact information must include the following information for a Primary and Alternate POC:

1. Name.
2. Title
3. Telephone number
4. e-mail address

Password reset procedures:

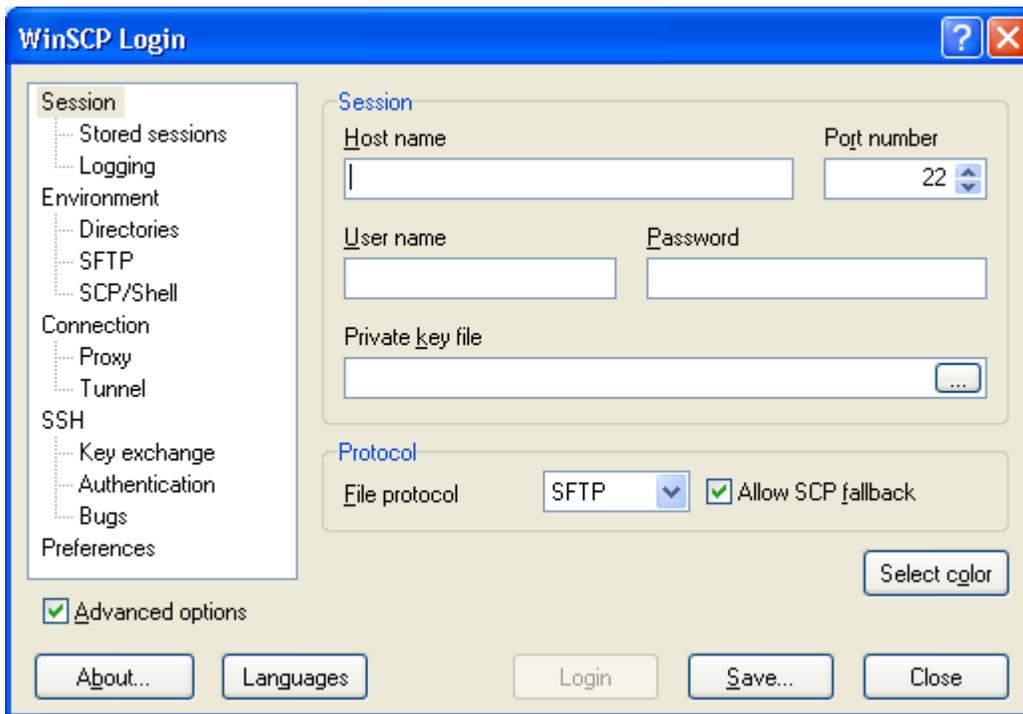
1. When a providers require a password reset they will contact ISDH EDI who will verify their contact information.
2. Once the contact information has been confirmed the request will be forwarded to the IOT Helpdesk.
 - a. **No passwords will be CHANGED** without a documented request from the provider’s designated contact person (this can be in electronic format), who has been confirmed by ISDH EDI personnel.

The following link provides a location to download winscp376 the SFTP client used in the following examples. The link also contains Psftp and Puttygen.exe files that can be used when developing automated scripts for transferring files.

<https://extranet.in.gov/sftp/base/>

The following screen shots illustrate the initial setup of WinSCP client and SFTP login procedures using WinSCP:

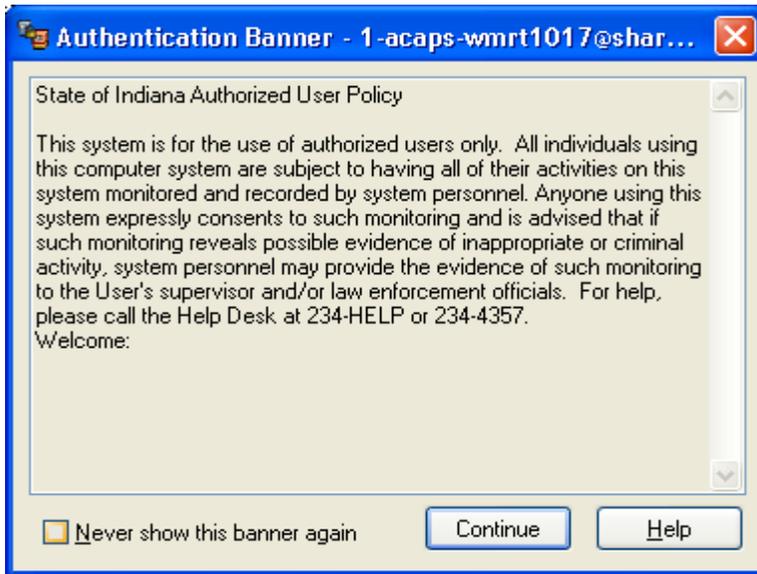
Open WinSCP application, Click on NEW.



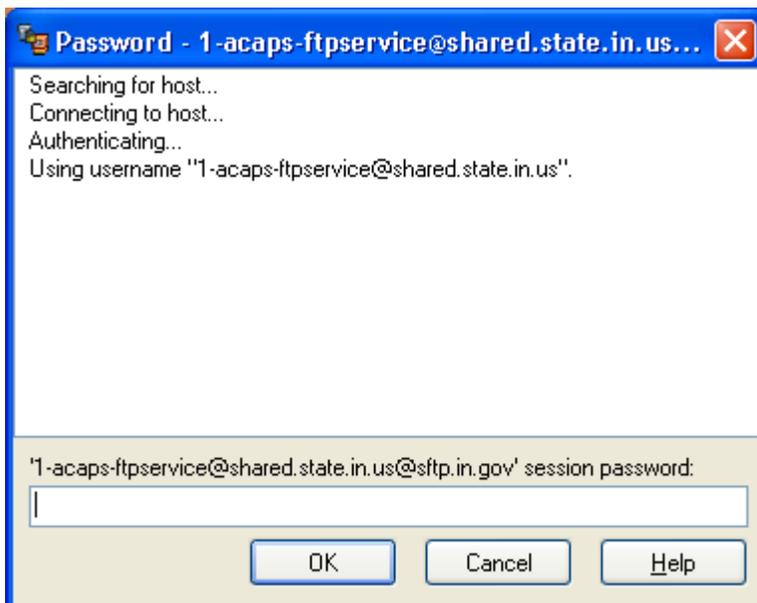
Enter Information given from ISDH EDI Staff:

1. Host name.
2. Port #.
3. User name
4. DO NOT enter password at this time
5. Click on Save

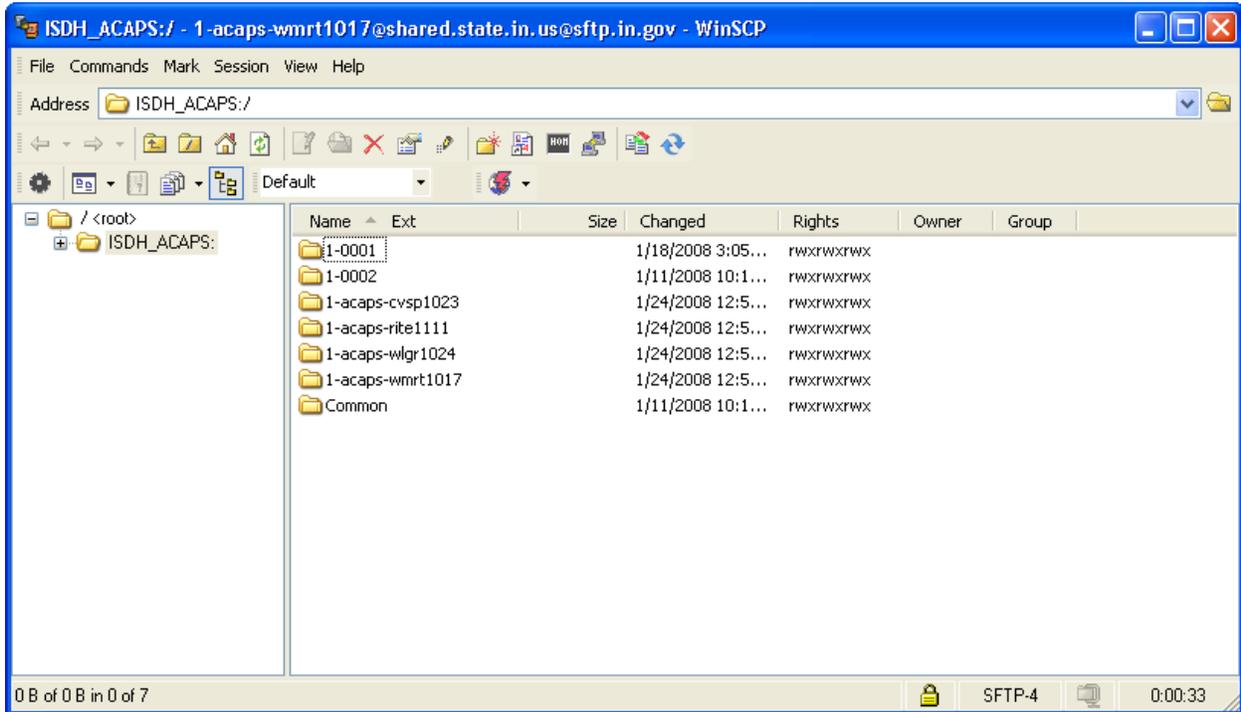
Highlight your account and click Login.



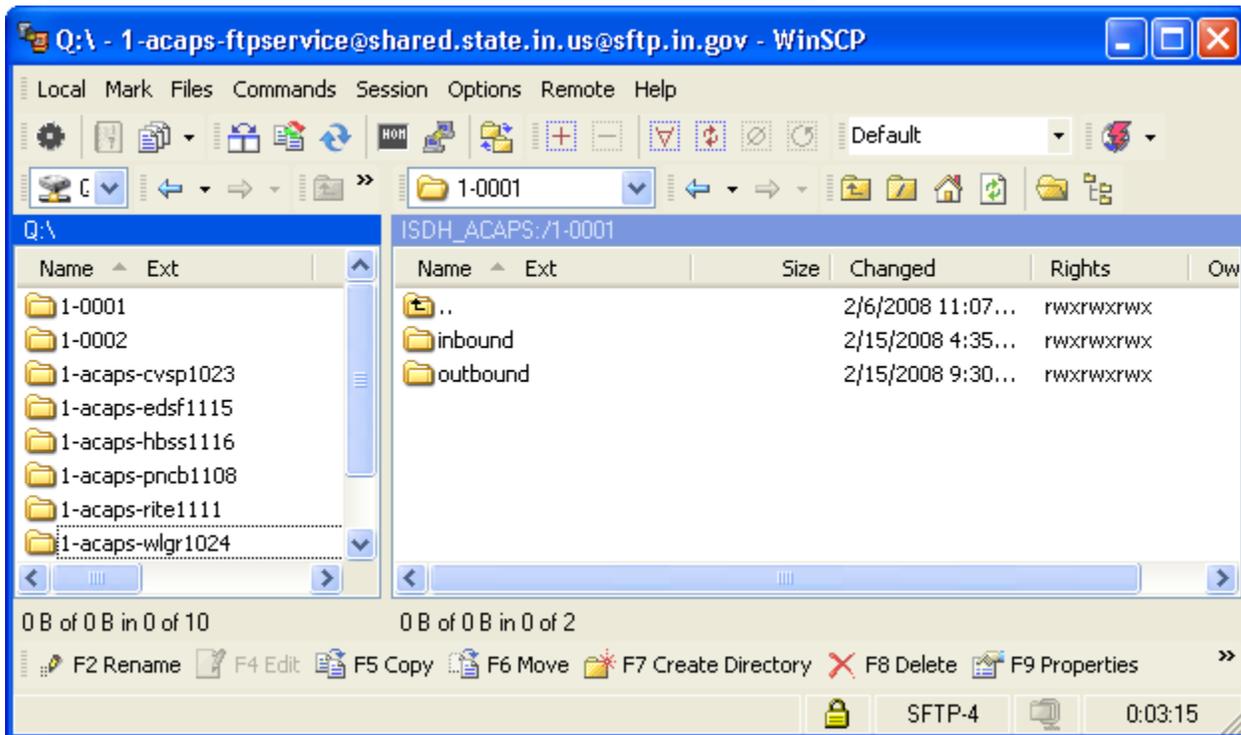
Click on continue.



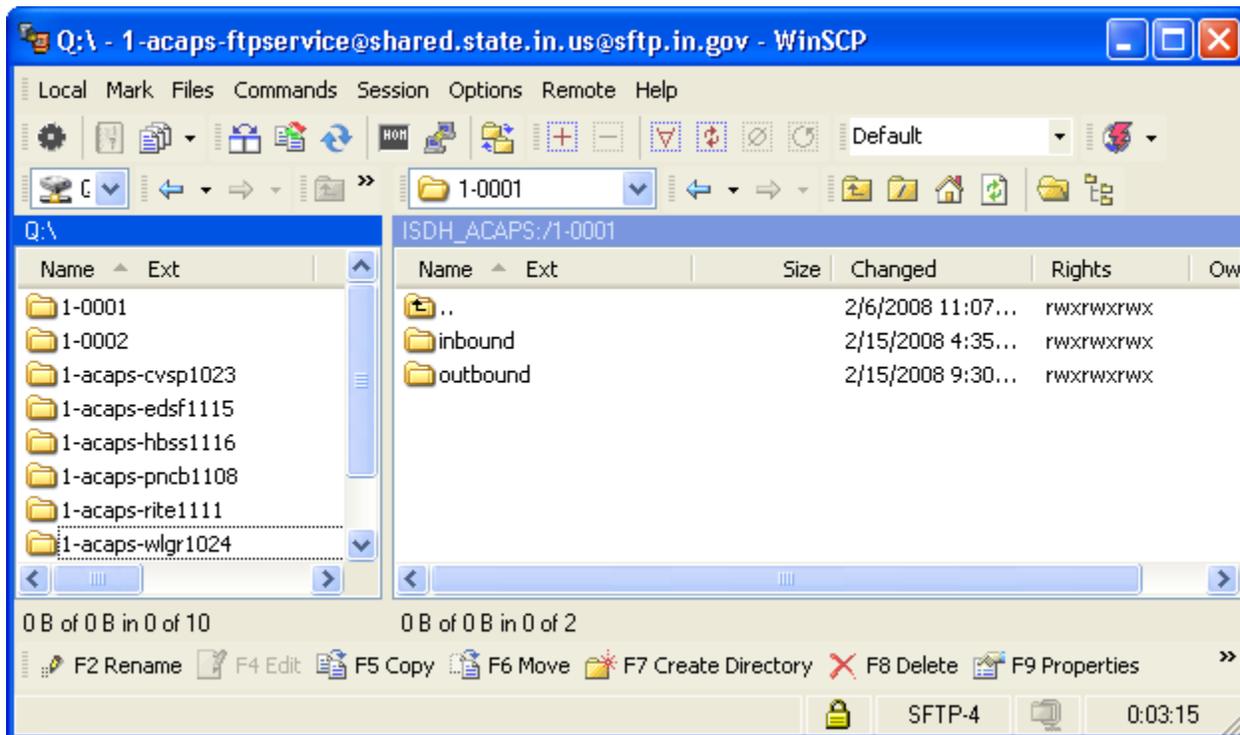
Enter in Password now and click on OK.



You will be able to see multiple SFTP Folders. Access your own folder if you chose a wrong folder you will receive an error message.



You now have access to you inbound and out bound folders select one.



You may now transfer the file to the location of your choice.

Data Exchange Overview

Appendix A, Section A.1.1 of each X12N HIPAA Implementation Guide provides detail about the rules for ensuring integrity and maintaining the efficiency of data exchange. Data files are transmitted in an *electronic envelope*. The communication envelope consists of an interchange envelope and functional groups. The interchange control structure is used for inbound and outbound files. An inbound interchange control structure is the envelope that wraps all transaction data (ST-SE) sent to ISDH for processing. An outbound interchange control structure wraps transactions that are created by ISDH and returned to the requesting provider. The following tables define the use of this control structure as it relates to communication with ISDH.

Element ID	Usage	Guide Description/Valid Values	Comments
ISA07	R	Interchange ID Qualifier ZZ - Mutually Defined	
ISA08	R	Interchange Receiver ID ISDH	This field has a required length of 15 bytes; therefore, it will be padded with 11 spaces to the right.
ISA09	R	Interchange Date	
ISA10	R	Interchange Time	
ISA11	R	Interchange Control Standards Identifier U - U.S. EDI Community of ASC X12, TDCC, and UCS	
ISA12	R	Interchange Control Version Number 00401 – Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	
ISA13	R	Interchange Control Number	The interchange control number is created by the submitter and must be identical to the associated Interchange Trailer (IEA02). This 9 byte field is numeric and must be zero filled. This number should be unique and increment by 1 with each ISA segment.
ISA14	R	Acknowledgment Requested 0 - No acknowledgment requested 1 - Interchange Acknowledgment Requested	ISDH always creates an acknowledgment file for each functional group received regardless of whether this field is set to 0 or 1.
ISA15	R	Usage Indicator P - Production Data T - Test Data	During testing the usage indicator entered must be T . After testing approval, P must be entered.
ISA16	R	Component Element Separator	The component element separator is a delimiter and not a data element. 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.

Segment Name	Functional Group Header
Segment ID	GS
Loop ID	N/A
Usage	Required
Segment Notes	
Example	GS*HS*ABC*CSHCS*20020606*105531*1*X*004010X092A1~

Element ID	Usage	Guide Description/Valid Values	Comments
GS01	R	Functional Identifier Code HS - Eligibility, Coverage or Benefit Inquiry (270) HR – Health Care Status Request (276) HI – Health Care Services Review (278) HC – Health Care Claim (837)	Enter the appropriate identifier to designate the type of transaction data to follow the GS segment.
GS02	R	Application Sender’s Code	This is the sender ID that is assigned to the trading partner by the ISDH. This may or may not match the ISA06
GS03	R	Application Receiver’s Code CSHCS	Children’s Special Health Care Services
GS04	R	Date	
GS05	R	Time	
GS06	R	Group Control Number	Assigned number originated and maintained by the sender. This must match the number in the corresponding GE02 data element on the GE group trailer segment.
GS07	R	Responsible Agency Code X – Accredited Standards Committee X12	
GS08	R	Version/Release/Industry Identifier Code 004010X092A1 – Health Care Eligibility Benefit Inquiry (270) 004010X093A1 – Health Care Claim Status Request (276) 004010X094A1 – Health Care Services Review – Request for Review (278) 004010X096A1 – Health Care Claim: Institutional (837) 004010X097A1 – Health Care Claim: Dental (837) 004010X098A1 – Health Care Claim: Professional (837)	This data element contains the appropriate identifier to designate the identifier code for the type of transaction data to follow the GS segment.

Segment Name	Functional Group Trailer
Segment ID	GE
Loop ID	N/A
Usage	Required
Segment Notes	
Example	GE*1*1~

Element ID	Usage	Guide Description/Valid Values	Comments
GE01	R	Number of Transaction Sets Included	Enter the number of transaction sets included in this functional group.
GE01	R	Group Control Number	Group control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Segment Name	Interchange Control Trailer
Segment ID	IEA
Loop ID	N/A
Usage	Required
Segment Notes	
Example	IEA*1*000000999~

Element ID	Usage	Guide Description/Valid Values	Comments
IEA01	R	Number of Included Functional Groups	Enter the number of functional groups included in this interchange envelope.
IEA02	R	Interchange Control Number	Interchange control number IEA02 in this trailer must be identical to the same data element in the associated interchange control header, ISA13, including padded zeros.

Outbound Transactions

Segment Name	Interchange Control Header		
Segment ID	ISA		
Loop ID	N/A		
Usage	Required		
Segment Notes	The ISA is a fixed record length segment, and all positions within each of the data elements must be filled. Delimiters are specified in the interchange header segment. The ISDH always uses the following delimiters in outbound transactions.		
	Character	Name	Delimiter
	*	Asterisk	Data Element Separator
	:	Colon	Subelement Separator
	~	Tilde	Segment Terminator
Example	ISA*00* *00* *ZZ*ISDH *ZZ*ABC *930602*1253*U*00401*00000999*1*P*::~		

Element ID	Usage	Guide Description/Valid Values	Comments
ISA01	R	Authorization Information Qualifier 00 - No Authorization Information Present	
ISA02	R	Authorization Information	This field always includes 10 blank spaces.
ISA03	R	Security Information Qualifier 00 - No Security Information Present	
ISA04	R	Security Information	This field always contains 10 blank spaces.
ISA05	R	Interchange ID Qualifier ZZ - Mutually Defined	
ISA06	R	Interchange Sender ID ISDH	This field has a required length of 15 bytes; therefore it will be padded with 11 spaces to the right.
ISA07	R	Interchange ID Qualifier ZZ - Mutually Defined	
ISA08	R	Interchange Receiver ID	This is the receiver ID as assigned to the trading partner by ISDH. It is also the same as the ISA06 from the inbound transactions that the trading partner sent to ISDH. This field has a required length of 15 bytes; therefore, the field must be padded with spaces to the right.
ISA09	R	Interchange Date	The date format is YYMMDD.
ISA10	R	Interchange Time	The time format is HHMM.
ISA11	R	Interchange Control Standards Identifier	

Element ID	Usage	Guide Description/Valid Values	Comments
		U - U.S. EDI Community of ASC X12, TDCC, and UCS	
I7SA12	R	Interchange Control Version Number 00401 – Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	
ISA13	R	Interchange Control Number	This number is unique and increments by 1 with each ISA segment. It also matches the interchange control number of the IEA02 of the interchange control trailer.
ISA14	R	Acknowledgment Requested 1 - Interchange Acknowledgment Requested	
ISA15	R	Usage Indicator P - Production Data T – Test Data	During testing the usage indicator is T . After the trading partner is approved, the usage indicator is P .
ISA16	R	Component Element Separator	The component element separator is a delimiter and not a data element. This is always a colon (:).

Segment Name	Functional Group Header
Segment ID	GS
Loop ID	N/A
Usage	Required
Segment Notes	
Example	GS*HB*CSHCS*ABC*20020606*105531*1*X*004010X092A1~

Element ID	Usage	Guide Description/Valid Values	Comments
GS01	R	Functional Identifier Code HB – Eligibility, Coverage or Benefit Information (271) HN – Health Care Claim Status Notification (277) HI – Health Care Services Review (278) HP – Health Care Claim Payment/Advice (835)	The data element contains the appropriate identifier to designate the type of transaction data to follow the GS segment.
GS02	R	Application Sender’s Code CSHCS - Children’s Special Health Care Services BCCP - Indiana Breast & Cervical Cancer Program	
GS03	R	Application Receiver’s Code	This is the receiver id that is assigned to the trading partner by ISDH. It is also the same value as the GS02 from inbound transactions sent to ISDH from the trading partner
GS04	R	Date	The date format is YYMMDD.
GS05	R	Time	The time format is HHMM.
GS06	R	Group Control Number	This data element contains a uniquely assigned number and matches the number in the corresponding GS02 data element on the GE group trailer segment.
GS07	R	Responsible Agency Code X – Accredited Standards Committee X12	
GS08	R	Version / Release / Industry Identifier Code 004010X092A1 – Health Care Eligibility Benefit Response (271) 004010X093A1 – Health Care Claim Status Response (277) 004010X094A1 – Health Care Services Review – Response (278) 004010X091A1 – Health Care Claim Payment/Advice (835)	This data element contains the appropriate identifier to designate the identifier code for the type of transaction data to follow the GS segment.

Segment Name	Functional Group Trailer
Segment ID	GE
Loop ID	N/A
Usage	Required
Segment Notes	
Example	GE*1*1~

Element ID	Usage	Guide Description/Valid Values	Comments
GE01	R	Number of Transaction Sets Included	This data element contains the number of transaction sets included in this functional group.
GE02	R	Group Control Number	Group control number GE02 in this trailer is identical to the same data element in the associated functional group header, GS06.

Segment Name	Interchange Control Trailer
Segment ID	IEA
Loop ID	N/A
Usage	Required
Segment Notes	
Example	IEA*1*000000999~

Element ID	Usage	Guide Description/Valid Values	Comments
IEA01	R	Number of Included Functional Groups	This data element contains the number of functional groups included in this interchange envelope.
IEA02	R	Interchange Control Number	The interchange control number IEA02 in this trailer is identical to the same data element in the associated interchange control header, ISA13 (including padded zeros).