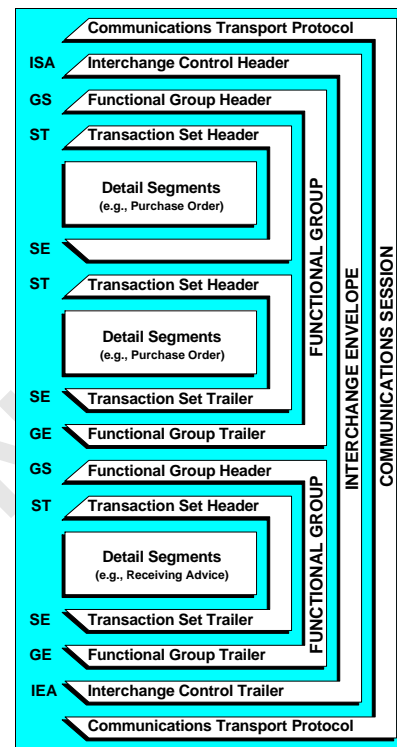


10.2 Control Segments

To allow transaction sets of different types to be transmitted from one party to another in the same transmission, a hierarchical structure of headers and trailers allows the data to be segregated logically for easy interpretation by the receiver.

Transaction sets begin with an "ST" header and end with an "SE" trailer. Several transaction sets of the same type may be "functionally grouped" together by beginning such a group with a "GS" header and ending the group with a "GE" trailer. One or more functional groups are bound together for transmission within an interchange "envelope" made up of an "ISA" header and an "IEA" trailer.

The structures of the transaction set and functional group headers and trailers are found in the Segment Directory. The structures of the interchange control header and trailer are found in the Interchange Control Structure standard (dpANS X12.5 - 1989).



The schematic illustrates a typical format for electronically transmitting a series of diverse business transactions.

ACCESSRAMPTM

[Click here for Tips on using ACCESSRAMP](#)

WODEX Conventions for EDI

Control Segments

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INFORMATION - 1994 © API

Segment: **ISA** Interchange Control Header
Purpose: To start and identify an interchange of one or more functional groups and interchange-related control segments.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ISA01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Information.	M ID 2/2
00 No Authorization Information Present (No Meaningful Information in I02)			
ISA02	I02	Authorization Information Information used for additional identification or authorization of the sender or the data in the interchange. The type of information is set by the Authorization Information Qualifier.	M AN 10/10
ISA03	I03	Security Information Qualifier Code to identify the type of information in the Security Information.	M ID 2/2
00 No Security Information Present (No Meaningful Information in I04)			
ISA04	I04	Security Information This is used for identifying the security information about the sender or the data in the interchange. The type of information is set by the Security Information Qualifier.	M AN 10/10
ISA05	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.	M ID 2/2
01 Duns (Dun & Bradstreet)			
16 Duns Number With 4-Character Suffix			
ZZ Mutually Defined			
ISA06	I06	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 number in the sender ID element.	M ID 15/15
ISA07	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified.	M ID 2/2
01 Duns (Dun & Bradstreet)			
16 Duns Number With 4-Character Suffix			
ZZ Mutually Defined			
ISA08	I07	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.	M ID 15/15
ISA09	I08	Interchange Date Date of the interchange.	M DT 6/6
ISA10	I09	Interchange Time Time of the interchange.	M TM 4/4

ISA11	I10	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.	M ID 1/1
U U.S. EDI Community of ASC X12, TDCC, and UCS			
ISA12	I11	Interchange Control Version Number This version number covers the interchange control segments and the functional group control segments.	M ID 5/5
00303 Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1992			
ISA13	I12	Interchange Control Number This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.	M NO 9/9
ISA14	I13	Acknowledgment Requested Code sent by the sender to request an interchange acknowledgment.	M ID 1/1
0 No Acknowledgment Requested			
ISA15	I14	Test Indicator Code to indicate whether data enclosed by this interchange envelope is test or production.	M ID 1/1
P Production Data			
T Test Data			
ISA16	I15	Subelement Separator This is a field reserved for future expansion in separating data element subgroups. (In the interest of a migration to international standards, this should be different from the data element separator).	M AN 1/1
Use the colon (:).			

Segment: **GS** Functional Group Header
Purpose: To indicate the beginning of a functional group and to provide control information
Syntax: 1 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: A 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
GS01	479	Functional Identifier Code Code identifying a group of application related Transaction Sets.	M ID 2/2
PT Product Transfer and Resale Report (867)			
GS02	142	Application Sender's Code Code identifying party sending transmission. Codes agreed to by trading partners.	M AN 2/15
GS03	124	Application Receiver's Code Code identifying party receiving transmission. Codes agreed to by trading partners.	M AN 2/15
GS04	373	Date Date (YYMMDD).	M DT 6/6
GS05	337	Time Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)	M TM 4/4
GS06	28	Group Control Number Assigned number originated and maintained by the sender.	M NO 1/9
GS07	455	Responsible Agency Code Code used in conjunction with Data Element 480 to identify the issuer of the standard.	M ID 1/2
X Accredited Standards Committee X12			
GS08	480	Version/Release/Industry ID Code Code indicating the version, release, subrelease and industry identifier of the EDI standard being used. Positions 1-3, version number; positions 4-6, release and subrelease level of version; positions 7-12, industry or trade association identifier (optionally assigned by user).	M ID 1/12
003030WODXWT Well Test Information			
003030WODXWI Well Detail Information			
003030WODXPH Production History - Property Level			
003030WODXPW Production History - Well Level			

Segment: **GE** Functional Group Trailer
Purpose: To indicate the end of a functional group and to provide control information
Syntax: 1 The data interchange control number (GE02) in this trailer must be identical to the same data element in the associated Functional Group Header (GS06).
Comments: A 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
GE01	97	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.	M NO 1/6
GE02	28	Group Control Number Assigned number originated and maintained by the sender.	M NO 1/9

Segment: IEA Interchange Control Trailer

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

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in a transmission.	M NO 1/5
IEA02	I12	Interchange Control Number This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.	M NO 9/9


FINAL


FINAL


Acrobat™


Tips *These buttons help you find, view and use ACCESSRAMP™ text*


Bookmarks/Thumbnails

 When bookmarks are onscreen, click on triangles to show or hide subtopics.

 When bookmarks are onscreen, a double-click on one of these brings its topic to the page window.

 Closes thumbnails or bookmarks and displays the page window only.

 Displays bookmarks and a page.

 Displays thumbnails and a page.

Page Viewing



Magnifies, reduces the page: click the button, then click within the document. Or click and drag to enlarge an area.



When part of the page fills the window, the hand icon drags the page so that the rest can be shown.

Text Copying



Selects text to copy to the clipboard.

Page 1 of 5, click this button for page 2 

Acrobat™

Tips *Use these buttons to quickly move from page to page and to set the page size*

Page Turning



Displays the first page.



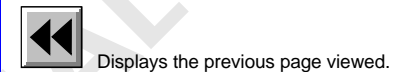
Displays the previous page.



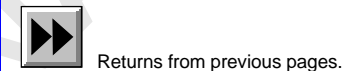
Displays the last page.



Displays the next page.



Displays the previous page viewed.

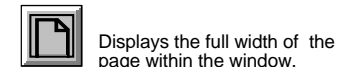


Returns from previous pages.

Page Size Setting



Sets the page view to 100%.



Displays the full width of the page within the window.



Displays the entire page within the window.



Click this button for page 1

Page 2 of 5

Click this button for page 3



Acrobat™

Tips *ACCESSRAMP™ bookmarks work like a table of contents*

Collapsing and expanding topics

Triangle icons in the bookmark area let you expand or collapse subtopics by clicking. A triangle that faces down indicates a topic is expanded. A triangle that faces to the right indicates a topic is collapsed.

To make scrolling the bookmark area easier, collapse all topics.

As you move the cursor past the border between the bookmark area and the page window a double arrow appears. Drag the double arrow to resize the bookmark area.

Finding EDI segments in ACCESSRAMP

Most ACCESSRAMP titles are based upon ASC X12 transaction sets or UN/EDIFACT messages. The hierarchy of these EDI standards creates a natural way to locate a message's interrelated parts.

- In each message listing, there is a column of page numbers to the left of the segment identifier. Click on a page number and the page window changes to the selected segment.
- You can also use the bookmarks for the same purpose.



Click this button for page 2

Page 3 of 5

Click this button for page 4



Acrobat™

Tips *Tips for opening multiple documents and jumping to specific pages*

Opening multiple documents

You might want to have more than one ACCESSRAMP document open at one time. For example, a data element dictionary and one or more transaction sets can be open for instant cross access.

From within ACCESSRAMP, choose File|Open to open another document. Files that can be read by ACCESSRAMP have the file extension *.PDF.

Use the Window menu to switch between the documents that are open.

Going to a specific page

In addition to using bookmarks and the message listing, there are two additional ways to get to a specific page.

- Click the page number box at the bottom of the window. Type the number of the page in the dialog box, then click OK.
- Click and hold the vertical scroll box; as you move the scroll box, a page number appears to the left of the scroll bar. Stop dragging the scroll box when it reaches the page you want.



Click this button for page 3

Page 4 of 5

Click this button for page 5



Acrobat™

Tips *Magnification and manipulating the size of the onscreen image*

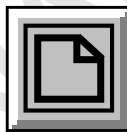
Changing page magnification

The magnification box is at the bottom of the page window next to the page number box. Click and hold to select a preset percentage of magnification.

Selecting "Other..." displays a dialog box. By typing in a number (between 12 and 800) you can set any magnification from 12% to 800%.

You can preset ACCESSRAMP to open at any desired magnification by using the "Preferences..." dialog box under the "Edit" menu.

Fitting the page to your screen



When the displayed image is too small or too large, click this button. The page will fill the window at the maximum magnification possible.



[Click this button for page 4](#)

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