

Understanding 837 Files

Third Party Billing

The Indian Health Service Office of Information Technology



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What is an 837 file?

- An 837 file is an electronic file that contains patient claim information.
 This file is submitted to an insurance company or to a clearinghouse instead of printing and mailing a paper claim.
 - The data in an 837 file is called a Transaction Set.
 - File must be sent to the payer or clearinghouse via a secure method due to patient health information within the file.
- Formats
 - 837P (professional) crosses over to the CMS-1500 paper form
 - 837I (institutional) crosses over to the UB-04 paper form
 - 837D (dental) crosses over to the ADA-2012 paper form
- 837 files are broken down into loops, segments and elements
 - Each loop, segment and element contains specific information
 - Header Beginning of the file
 - Billing Provider Detail
 - Subscriber Detail
 - Patient Detail
 - Claim Detail
 - Ending Trailer End of the File

Transaction Set Terminology

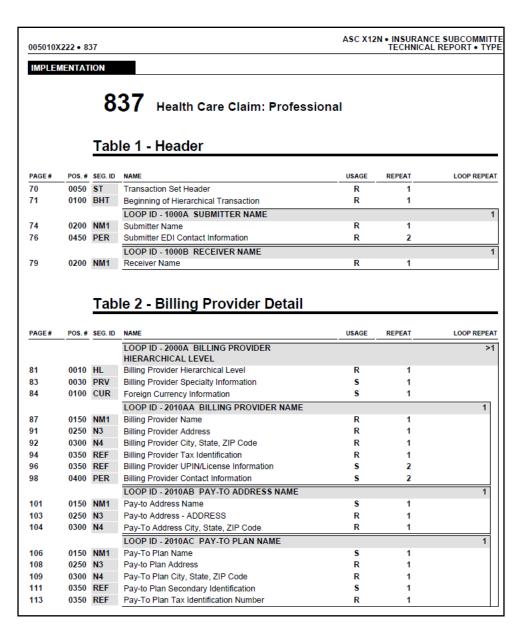
Tı	mplementation Guide Terms	Location in 837 Transaction Set
Implementation datas remis		Eocation in 657 Transaction Sec
1.	a. Header: start segment for transaction set	ISA*00* *00* *ZZ*903314521 *ZZ*NMMAD 0402020823*U*00401*000100073*1*P*: GS*HC*903314521*NMMAD*20040202*0823*100073*X*004010X096A1
2.	Data Element	ST*837*0001
	a. Smallest named item in ASC X12 standard b. Corresponds to data field	BHT*0019*00*100073*20040202*0823*CH REF*87*604010X096A1 NM1*41*2*UNSPECIFIED SERVICE UNIT****46 PER*IC*BUSINEESS OFFICE*TE
	 C. Mandatory or situational 	NM1*40*28NM MEDICAID*****46*NMMAD
3.	Data Segment —	►HL*1**20*1
	Related data elements Sequence of data elements specified by ASC X12N standard Corresponds to record	PRV*BI*ZZ*261QP0904X NM1*85*2*UNSPECIFIED SERVICE UNIT****24*903314521 N3*123 ABC ST N4*OCEAN*NM*33333 REF*1D*XYZ789
4.		NM1*87*2*ALBUQUERQUE ADMINISTRATION*****24*850105601
٦.	Same structure as segment Uses	N3*PO BOX 31001-0655 N4*PASADENA*CA*911100655 HL*2*1*22*0
	i. To transfer control information (e.g., start, stop) rather than application information ii. To group data elements	SBR*P*18******MC NM1*IL*1*STEELE*DANIELLE****MI*555551010 N3*100 VALLEY RD N4*ZIA*NM*33333 DMG*D8*19880501*F
5.		NM1*PR*2*NM MEDICAID*****PI*NMMAD
	a. Character used to separate two data elements or to end a data segment	CLM*45404A-JSU-99091*206.00***13;A;1*Y*A*Y*Y*******Y DTP*434*RD8*20030510-20030510 AMT*C5*206.00 REF*EA*99091
	b. An integral part of data Loop	_HI*RK·486
6.	C	QTY*CA*1*DA
	b. Loops specified by Implementation Guide	NM1*71*1*SMITH*USER****24*903314521 PRV*AT*ZZ*208D00000X REF*1D*000011
7.	Transaction Set (whole thing)	LX*1
	a. Contains data segments	SV2*0519**206.00*UN*1 DTP*472*D8*20030510
	Corresponds to grouping of data records	SE*35*0001
	c. Sequence of data segments	GE*1*100073
	specified by ASC X12N	EA*1*000100073
	standard	
8.	Trailer	
	a. Trailer: end segment for	
	transaction set	

Implementation Guides

- Implementation guides define the structure and content of an 837 file / transaction set.
- Each 837 format has its own implementation guide (837P, 837I, 837D).
- Guides can be purchased from Washington Publishing Company
 - http://www.wpc-edi.com/
- Clearinghouses and/or individual payers often require certain segments be populated with specific data.
 Those requirements are found in the clearinghouse/payer companion guides.

Implementation Guide: Transaction Set Listing

Each implementation guide provides a summary list of loops and segments.



Implementation Guide: Segment Detail

Details for each segment and element are provided, along with an example of what the segment looks like in a file.

ASC X12N • INSURANCE SUBCOMMITTEE TECHNICAL REPORT • TYPE 3 PATIENT NAME SEGMENT DETAIL NM1 - PATIENT NAME X12 Segment Name: Individual or Organizational Name X12 Purpose: To supply the full name of an individual or organizational entity X12 Set Notes: 1. Loop 2010 contains information about entities that apply to all claims in loop 2300. For example, these entities may include billing provider, pay-to provider, insurer, primary administrator, contract holder, or claimant. X12 Syntax: 1. P0809 If either NM108 or NM109 is present, then the other is required. 2. C1110 If NM111 is present, then NM110 is required. If NM112 is present, then NM103 is required. Loop: 2010CA - PATIENT NAME Loop Repeat: 1 Segment Repeat: 1 Usage: REQUIRED TR3 Example: NM1*QC*1*DOE*SALLY*J~ DIAGRAM NM102 VM103 NM104 1036 NM105 1037 NM106 1038 Entity ID Entity Type Name Last/ Name NM1 Code Qualifier Org Name First Middle Prefix ID M 1 ID (1 AN 1/60 O 1 AN 1/35 O 1 AN 1/25 O 1 AN 1/10 NM107 1039 NM108 66 NM109 NM110 NM111 NM112 1035 Name Entity Entity ID Name Last/ Suffix Relat Code Code Org Name O 1 AN 1/10 X1 ID X 1 AN 2/80 X1 ID O1 ID 2/3 O 1 AN 1/60 ELEMENT DETAIL REQUIRED NM101 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual DEFINITION CODE Patient REQUIRED NM102 **Entity Type Qualifier** M 1 ID 1/1 Code qualifying the type of entity SEMANTIC: NM102 qualifies NM103 DEFINITION Person

Viewing a File

Open the file with Microsoft Word.

The data wraps in one continuous line, making it difficult to pick out the different segments.

Separating the data by segment allows for easier viewing.

```
*30*20356
ISA*00*
                               *77*40225
*151228*1325*^*00501*000100141*1*P*:~GS*HC*11044*20356*20151228*1325*1001
41*X*005010X222A1~ST*837*0001*005010X222A1~BHT*0019*00*100141*20151228*13
25*CH~NM1*41*2*2011 DEMO HOSPITAL*****46~PER*IC*BUSINESS
OFFICE*TE*5052481111~NM1*40*2*NATIONAL INDEMNITY CO
GRP****46*263856~HL*1**20*1~NM1*85*2*2011 DEMO
HOSPITAL*****XX*8888888888~N3*5300 HOMESTEAD RD
NE~N4*ALB*NM*87110~REF*EI~REF*0B~HL*2*1*22*0~SBR*P*18**UNKNOWN*****CI~NM1
*IL*1*WEATHERS*STORMY****MI*54879658~N3*2211 TRAMWAY NE APT
2~N4*ALBUOUEROUE*NM*87101~DMG*D8*19700612*F~NM1*PR*2*NATIONAL INDEMNITY
CO GRP****PI*263856~CLM*102644B-DH-
120114*188.00***11:B:1*Y*A*Y*Y~REF*EA*120114~HT*ABK:R079~NM1*82*1*GREENE*
M****XX*1083610646~PRV*PE*PXC*363L00000X~SBR*S*18**UNKNOWN*****CI~OI***Y*
**Y~NM1*IL*1*WEATHERS*STORMY****MI*123456789~N3*2211 TRAMWAY NE APT
2~N4*ALBUOUEROUE*NM*87101~NM1*PR*2*GOVERNMENT EMPLOYEES HOSP
ASSN*****PI*99999~N3*PO BOX
4665~N4*INDEPENDENCE*MO*640514665~SBR*T*18*****MA~0I***Y***Y~NM1*IL*1*W
EATHERS*STORMY****MI*452115544A~N3*2211 TRAMWAY NE APT
2~N4*ALBUOUEROUE*NM*87101~NM1*PR*2*MEDICARE*****PI*S03034~N3*P.O. BOX
833913~N4*RICHRDSON*TX*750836913~LX*1~SV1*HC:99214*188.00*UN*1***1~DTP*47
2*D8*20151208~REF*6R*00000036367270001~SE*44*0001~ST*837*0002*005010X222
A1~BHT*0019*00*100141*20151228*1325*CH~NM1*41*2*2011 DEMO
HOSPITAL*****46~PER*IC*BUSINESS OFFICE*TE*5052481111~NM1*40*2*NATIONAL
INDEMNITY CO GRP*****46*263856~HL*1**20*1~NM1*85*2*2011 DEMO
HOSPITAL*****XX*8888888888~N3*5300 HOMESTEAD RD
NE~N4*ALB*NM*87110~REF*EI~REF*0B~HL*2*1*22*0~SBR*P*18**UNKNOWN*****CI~NM1
*IL*1*WEATHERS*STORMY****MI*54879658~N3*2211 TRAMWAY NE APT
2~N4*ALBUOUEROUE*NM*87101~DMG*D8*19700612*F~NM1*PR*2*NATIONAL INDEMNITY
CO GRP****PI*263856~CLM*102562C-CRT-
```

Using a Macro to Separate the Data

- A macro is a tool that in Microsoft Word that can be used to separate the data in an 837 file so that each segment is on one line, making the file easier to read.
- A macro only needs to be set up once and will work with all 837 export modes (837D, 837I, 837P).
- To find out if you already have a macro set up for separating the data in a file:
 - Open an 837 file using Microsoft Word
 - Press CTRL and ~ at the same time
 - If the data does not realign, a macro has not been set up yet.

Setting up a Macro

Open an 837 file using Word, then follow the next four steps.

- 1. Click the *View* tab
 - Click Macros, then click Record Macro
 - Click the Keyboard icon
 - Find the *Press New Shortcut Key* box. Click that box, then press *Ctrl* and ~ at the same time.
 - Click Assign
 - Click Close
- 2. Press *Ctrl* and *H* at the same time to access the "Find and Replace" option.

Setting up a Macro (cont.)

- Click the Replace tab
 - In the Find What box type a tilde ~
 - Click the Replace With box and type a tilde ~
 - Click More
 - Click the Special button, then click on Manual Line Break
 - Click the Replace All button
 - Click **Ok** and close the box
- Click the View Tab
 - Click Macros, then click Stop Recording
 - Creating the macro is complete.

NOTE: The next time you open an 837 file, press *CTRL* and ~ at the same time and the file will automatically be realigned.

Example of a Separated File

- This is what the file will look like after it's been separated.
- Segments are easy to identify and most will fit on one line.

```
ISA*00*
                                                   *30*20356
*151228*1325*^*00501*000100141*1*P*:~
GS*HC*11044*20356*20151228*1325*100141*X*005010X222A1~
ST*837*0001*005010X222A1~
BHT*0019*00*100141*20151228*1325*CH~
NM1*41*2*2011 DEMO HOSPITAL****46~
PER*IC*BUSINESS OFFICE*TE*5052481111~
NM1*40*2*NATIONAL INDEMNITY CO GRP****46*263856~
NM1*85*2*2011 DEMO HOSPITAL****XX*8888888888
N3*5300 HOMESTEAD RD NE~
N4*ALB*NM*87110~
REF*EI~
REF*0B~
HL*2*1*22*0~
SBR*P*18**UNKNOWN*****CI~
NM1*IL*1*WEATHERS*STORMY****MI*54879658~
N3*2211 TRAMWAY NE APT 2~
N4*ALBUOUEROUE*NM*87101~
DMG*D8*19700612*F~
NM1*PR*2*NATIONAL INDEMNITY CO GRP****PI*263856~
CLM*102644B-DH-120114*188.00***11:B:1*Y*A*Y*Y~
REF*EA*120114~
HT*ABK:R079~
NM1*82*1*GREENE*M****XX*1083610646~
PRV*PE*PXC*363L00000X~
```

Reading a File: Loops

- Loops contain segments, segments contain elements, and elements contain data.
- Below are some common loops and how they're populated.

```
TSA*00*
             *00*
                     *77*85-0858585
                                      *77*
                                                    *130709*1058*^*00501*000101654*1*P*:~
GS*HC*85-0858585**20130709*1058*101654*X*005010X222A1~
ST*837*0001*005010X222A1~
BHT*0019*00*101654*20130709*1058*CH~
NM1*41*2*INDIAN HEALTH HOSPITAL****46~
                                                           < Loop 1000A Submitter Name
PER*IC*BUSINESS OFFICE*TE*5052484349~
NM1 * 40 * 2 * IOWA MEDICAID * * * * * 46~
                                                           < Loop 1000B Receiver Name
HL*1**20*1~
NM1 * 85 * 2 * INDIAN HEALTH HOSPITAL * * * * * XX * 7745613100~
                                                           < Loop 2010AA Billing Provider
N3*5987 4TH ST NE~
N4*ALBUQUERQUE*NM*871201234~
REF*EI*850858585~
HL*2*1*22*0~
SBR*P*18*****MC~
                                                           < Loop 2000B Subscriber Information
NM1*IL*1*APPLE*GOLDEN****MI*5871547845198874157~
N3*2365 PARKWAY PLACE~
N4*ALBUQUERQUE*NM*87110~
DMG*D8*19420916*F~
NM1*PR*2*IOWA MEDICAID*****PI*99999~
                                                           < Loop 2010BB Payer Name
CLM*31978A-IHH-123987*187.00***22:B:1*Y*A*Y*Y~
                                                           < Loop 2300 Claim Information
REF*EA*123987~
HT*BK:25000~
NM1 *82 * 1 * ALEXIS * ALEXANDRA * * * * * XX * 3310213467~
                                                           < Loop 2420A Rendering Provider
PRV*PE*PXC*208D0000X~
                                                                                             13
```

Reading a File: Segments

- Segments contain elements.
- Each segment will be different depending on the loop the segment is in.

```
ISA*00*
                *00*
                              *ZZ*85-0858585
                                                 *77*
*130709*1058*^*00501*000101654*1*P*:~
GS*HC*85-0858585**20130709*1058*101654*X*005010X222A1~
ST*837*0001*005010X222A1~
BHT*0019*00*101654*20130709*1058*CH~
NM1*41*2*INDIAN HEALTH HOSPITAL****46~
PER*IC*BUSINESS OFFICE*TE*5052484349~
NM1*40*2*IOWA MEDICAID****46~
HL*1**20*1~
NM1*85*2*INDIAN HEALTH HOSPITAL****XX*7745613100~
N3*5987 4TH ST NE~
N4*ALBUQUERQUE*NM*871201234~
REF*EI*850858585~
HL*2*1*22*0~
SBR*P*18*****MC~
NM1*IL*1*APPLE*GOLDEN****MI*5871547845198874157~
N3*2365 PARKWAY PLACE~
N4*ALBUOUEROUE*NM*87110~
DMG*D8*19420916*F~
NM1*PR*2*IOWA MEDICAID*****PI*99999~
CLM*31978A-IHH-123987*187.00***22:B:1*Y*A*Y*Y~
REF*EA*123987~
HI*BK:25000~
NM1*82*1*ALEXIS*ALEXANDRA****XX*3310213467~
PRV*PE*PXC*208D00000X~
```

Reading a File: Data Elements

- Data elements contain the same claim information that prints on paper claims.
- To find a data element:
 - Locate the desired loop and segment.
 - Count the data elements starting with 01. Do not count the data segment name.
 - For example, the first line in the example below is the ISA segment. The first '00' is the ISA01 segment, the next data element is the ISA02, the next '00' is the ISA03 and so on.
 - Note that spaces may be included as part of the data element.

```
ISA*00* *00* *ZZ*85-0858585 *ZZ* *130709*1058*^*00501*000101654*1*P*:~GS*HC*85-0858585**20130709*1058*101654*X*005010X222A1~ST*837*0001*005010X222A1~BHT*0019*00*101654*20130709*1058*CH~NM1*41*2*INDIAN HEALTH HOSPITAL****46~PER*IC*BUSINESS OFFICE*TE*5052484349~NM1*40*2*IOWA MEDICAID*****46~HL*1**20*1~NM1*85*2*INDIAN HEALTH HOSPITAL****XX*7745613100~N3*5987 4TH ST NE~N4*ALBUQUERQUE*NM*871201234~REF*EI*850858585~
```



Questions?