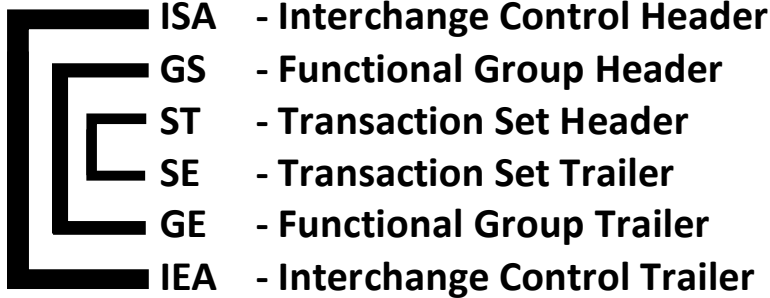


TRANSMISSION CONTROL SCHEMATIC



NOMENCLATURE

SEGMENT `ISA*00* *00* *30*592015694 *ZZ*ABC111111 *191201*1121*^*00501*000000001*0*P*~`
ELEMENT `GS*FA*RBG005010X220A1*ABC11*20191201*1121*1*X*005010X231A1~`
ELEMENT SEPARATOR `ST*999*0001*005010X231A1~`
SEGMENT TERMINATOR `AK1*BE*190804445*005010X220A1~`

ELEMENTS REFERENCE



EDI 999 STRUCTURE

Code	Description
ST 0100	Transaction Set Header
AK1 0200	Functional Group Response Header
AK2 0300	Transaction Set Response Header
AK9 0900	Functional Group Response Trailer
SE 1000	Transaction Set Trailer


```

Interchange
├── ISA*00*      *00*      *30*592015694      *ZZ*ABC111111      *191201*1121*^*00501*000000001*0*P*~
├── Group
│   ├── GS*FA*RBG005010X220A1*ABC11*20191201*1121*1*X*005010X231A1
│   └── Transaction
│       ├── ST*999*0001*005010X231A1
│       ├── AK1*BE*190804445*005010X220A1
│       └── {Loop AK2}
│           ├── AK2*834*EA1112233*005010X220A1
│           ├── {Loop IK3}
│           │   ├── IK3*PER*12*2100*8
│           │   ├── CTX*SUBSCRIBER NUMBER REF02:111111111
│           │   └── {Loop IK4}
│           │       ├── IK4*1*366*1
│           │       └── {Loop IK3}
│           │           ├── IK3*DMG*27*2100*8
│           │           ├── CTX*SUBSCRIBER NUMBER REF02:222222222
│           │           └── {Loop IK4}
│           │               ├── IK4*3*1068*1
│           │               ├── IK5*R*5*15
│           │               ├── AK9*R*1*1*0
│           │               ├── SE*12*0001
│           │               └── GE*1*1
│           └── IEA*1*000000001
    
```

EDI 999 - IMPLEMENTATION ACKNOWLEDGEMENT ELEMENT DETAILS

AK102 - Value from the functional group to which this 999 Transaction set is responding.

AK202 - Transaction set control number in ST segment.

IK301 - Code defining the segment ID of the data segment in error.

IK302 - The numerical count position of this error data from the start of Transaction set.

IK303 - The error loop ID number.

IK304 - Code indicating implementation error found based on the syntax editing of a segment.

1 Unrecognized segment ID

2 Unexpected segment

3 Required 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

14 Implementation "Not Used" Segment Present

16 Implementation Dependent Segment Missing

17 Implementation Loop Occurs Under Minimum Times

18 Implementation Segment Below Minimum Use

19 Implementation Dependent "Not Used" Segment Present

CTX01 - Segment Context. Holds information to identify a context generated due to situational trigger and followed by the context Reference.

CTX02 - Segment that established the situational requirement violated.

CTX03 - Segment Numerical count Position in Transaction Set.

CTX04 - Loop Identifier Code. (Required when data segment containing situational Requirement is within LS – LE Loop)

CTX05 - Element position in segment.

IK401 - Position of error element within a segment.

IK403 - Code indicating the implementation error found after syntax edits of a data element.

1 Required 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

12 Too Many Repetitions

13 Too Many Components

110 Implementation "Not Used" Data Element Present

111 Implementation Too Few Repetitions

112 Implementation Pattern Match Failure

113 Implementation Dependent "Not Used" Data Element Present

16 Code Value Not Used in Implementation

19 Implementation Dependent Data Element Missing

IK501 - Code indicating accept or reject condition based on the syntax editing of the transaction set.

A Accepted

E Accepted, But Errors Were Noted.

R Rejected

IK502 – Code indicating implementation error found based on the syntax editing of a transaction set.

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

18 Transaction Set not in Functional Group

19 Invalid Transaction Set Implementation Convention Reference

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

15 Implementation One or More Segments in Error

16 Implementation Convention Not Supported

IK503 - Code indicating implementation error found based on the syntax editing of a transaction set.

(Required when IK501 = E or R, and IK502 has been used, and there are additional error codes to report)

REVIEW STEPS:

- AK102** - Ensure that EDI 999 is responding to the correct 834 Transaction file. (i.e. GS06 value from Inbound 834)
- AK202** - Relate error listed against the correct Transaction set number. (i.e. ST02 value under 834 X12)
- CTX01** - It identifies the data that triggered the situational requirement. Usually defines Subscriber ID reference that do contain error. If there are multiple Situational Triggers for same subscriber, multiple CTX segments will be added defining segments and elements that violated the guidelines. (ex. 2000 Loop REF02 referring Subscriber ID)
- IK301** - Defines Error Segment for that Subscriber referenced. (ex. NM1/PER/N3/N4 segment etc.)
- IK302** - Defines Numerical Count position of an Error. {Error Line - 2 (i.e. minus ISA & GS segments)}. Single ST vs Multiple ST error line varies. For Multiple ST, refer to that specific Subscriber ST segment to refer to the error position line.
- IK303** - Defines Loop ID that contain Error. (ex. Loop Numbers such as 1000, 2000, 2100, 2200, 2300 etc.)
- IK401** - Defines Element Error position under 834. (ex. 2, 3, 4 referring as N402, N403, N404 etc.)
- IK501** - Defines Transaction Set Acceptance and Rejection status. (ex. A - Accepted and R - Rejected)

Sample EDI 834:

**All these values are referenced to EDI 999 elements*

	GS03, GS02	ISA07, ISA08	ISA05, ISA06	
1	ISA*00*	*00*	*ZZ*ABC111111	*30*592015694
2	GS*BE*	ABC11*RBG005010X220A1	*20191201*0438*	190804445*X*005010X220A1~
3	ST*834*	EA1112233*	005010X220A1~	
4	BGN*00*	EA1112233*	20191201*043844*	CS***RX~
5	DTP*382*	D8*	20190815~	
6	N1*P5*	ABC PARTNERSHIP LLC*	FI*999999999~	
7	N1*IN*	BCBS OF FL*FI*	592015694~	
8	INS*Y*18*	O30*XN*A***	FT~	
9	REF*OF*	111111111~		
10	REF*1L*	AB123001~		
11	DTP*336*	D8*	20181231~	
12	DTP*356*	D8*	20190601~	
13	NM1*IL*1*	DOE*JOHN****	34*111111111~	
14	PER**	HP*9292179999~		
15	N3*1000	FLORIDA BLUE DRIVE~		
16	N4*JACKSONVILLE*	FL*32246~		
17	DMG*D8*	19880721*M*M~		
18	HD*030**	PPO*01*EMP~		
19	DTP*348*	D8*	20190601~	
20	INS*Y*18*	O30*XN*A***	FT~	
21	REF*OF*	22222222~		
22	REF*1L*	AB123002~		
23	DTP*336*	D8*	20090818~	
24	DTP*356*	D8*	20190601~	
25	NM1*IL*1*	DOE2*JOHN****	34*22222222~	
26	PER*IP**	HP*9292178888~		
27	N3*2000	FLORIDA BLUE DRIVE~		
28	N4*JACKSONVILLE*	FL*32246~		
29	DMG*D8*	19760628*~		
30	HD*030**	PPO*01*FAM~		
31	DTP*348*	D8*	20190601~	
32	SE*30*	EA1112233~		
33	GE*1*	190804445~		
34	IEA*1*	000526109~		

Sample EDI 999 ACK:

ISA*00* *00* *30*592015694 *ZZ*ABC111111 *191201*1121*^*00501*000000001*0*P*::~~
GS*FA*RBG005010X220A1*ABC11*20191201*1121*1*X*005010X231A1~
ST*999*0001*005010X231A1~
AK1*BE*190804445*005010X220A1~
AK2*834*EA1112233*005010X220A1~
IK3*PER*12*2100*8~
CTX*SUBSCRIBER NUMBER REF02:111111111~
IK4*1*366*1~
IK3*DMG*27*2100*8~
CTX*SUBSCRIBER NUMBER REF02:222222222~
IK4*3*1068*1~
IK5*R*5*15~
AK9*R*1*1*0~
SE*12*0001~
GE*1*1~
IEA*1*000000001~

Each IK3 segment Iteration within EDI 999 defines new data segment with Error, followed by CTX segment referring to the subscriber information associated to that error. Here, Subscriber ID 111111111 and 222222222 do contain error.

IK501 - Accept or Reject condition.
A Accepted
E Accepted, But Errors Were Noted.
R Rejected

AK901 - Functional Group Acknowledge Code.
A Accepted
E Accepted, But Errors Were Noted
P Partially Accepted, At Least One Transaction Set Was Rejected
R Rejected
AK902 - Number of Transaction Sets Included.
AK903 - Number of Received Transaction Sets.
AK904 - Number of Accepted Transaction Sets.