

# Ship Notice/Manifest (856) ASN Programming Specification

Vendor EDI Specifications ASC  
X.12 EDI VERSION  
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Looping Structure:

**Table 1: Data Segment Sequence for the Header Area**

Status	Pos #	Seg ID	Name	Req. Des.	Max Use	Loop Repeat
p.4	010	ST	Transaction Set Header	M	1	
p.5	020	BSN	Beginning Segment for ship notice	M	1	
p.6	030	DTM	Date/Time Reference	M	2	

**Table 2A: Data Segment Sequence for the Data Area -- Shipment Level**

Status	Pos #	Seg ID	Name	Req. Des.	Max Use	Loop Repeat
LOOP ID – HL (Shipment Level)						200000
p.7	010	HL	Hierarchical Level	M	1	
n/u	020	LIN	Item Identification	O	1	
n/u	030	SN1	Item Detail (Shipment)	O	1	
n/u	040	SLN	Subline Item Detail	O	1000	
n/u	050	PRF	Purchase Order Reference	O	1	
n/u	060	PO4	Item Physical Details	O	1	
n/u	070	PID	Product/Item Description	O	200	
p.8	080	MEA	Measurements	O	40	
n/u	090	PWK	Paperwork	O	25	
n/u	100	PKG	Marking, Packaging, Loading	O	25	
p.9	110	TD1	Carrier Details (Quantity and Weight)	O	20	
p.10	120	TD5	Carrier Details (Routing Seq. Transit)	O	12	
p.11	130	TD3	Carrier Details (Equipment)	O	12	
n/u	140	TD4	Carrier Details ( Special Handling)	O	5	
p.12	150	REF	Reference Numbers	O	>1	
n/u	151	PER	Administrative Comm. Contact	O	3	
LOOP ID - HL/N1 (Shipment Level)						200
p.13	220	N1	Name	O	1	
n/u	230	N2	Additional Name Information	O	2	
n/u	240	N3	Address Information	O	2	
n/u	250	N4	Geographic Location	O	1	
n/u	260	REF	Reference Identification	O	12	
n/u	270	PER	Administrative Comm. Contact	O	3	
n/u	280	FOB	F.O.B. Related Instructions	O	1	

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**Table 2B: Data Segment Sequence for the Data Area -- Item Level**

Status	Pos #	Seg ID	Name	Req. Des.	Max Use	Loop Repeat
<b>LOOP ID – HL (Item Level)</b>						<b>200000</b>
p.14	010	HL	Hierarchical Level	M	1	
p.15	020	LIN	Item Identification	O	1	
p.16	030	SN1	Item Detail (Shipment)	O	1	
n/u	040	SLN	Subline Item Detail	O	1000	
p.17	050	PRF	Purchase Order Reference	O	1	
n/u	060	PO4	Item Physical Details	O	1	
n/u	070	PID	Product/Item Description	O	200	
n/u	080	MEA	Measurements	O	40	
n/u	090	PWK	Paperwork	O	25	
n/u	100	PKG	Marking, Packaging, Loading	O	25	
n/u	110	TD1	Carrier Details (Quantity and Weight)	O	20	
n/u	120	TD5	Carrier Details (Routing Seq. Transit)	O	12	
n/u	130	TD3	Carrier Details (Equipment)	O	12	
n/u	140	TD4	Carrier Details ( Special Handling)	O	5	
n/u	150	REF	Reference Numbers	O	>1	
n/u	151	PER	Administrative Comm. Contact	O	3	
Status	Pos #	Seg ID	Name	Req. Des.	Max Use	Loop Repeat
<b>LOOP ID – HL/CLD (Item Level)</b>						<b>200</b>
p.18	170	CLD	Load Detail	O	1	
p.19	180	REF	Reference Identification	O	200	
n/u	185	DTP	Date or Time or Period	O	1	

**Table 3: Data Segment Sequence for the Summary Area**

Status	Pos #	Seg ID	Name	Req. Des.	Max Use	Loop Repeat
p.20	010	CTT	Transaction Totals	M	1	
p.21	020	SE	Transaction Set Trailer	M	1	

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **GS**            Functional Group Header

**LEVEL:**            N/A

**LOOP:**             as required

**USAGE:**            Mandatory 1 per functional group

**MAX USE:**         1

**PURPOSE:**        To indicate the beginning of a functional group and to provide control information

**COMMENT:**

**EXAMPLE:**         GE\*SH\*123456789\*987654321\*030619\*1235\*1\*X\*003060

## Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
GS01 479	Functional Identifier "SH" Ship Notice / Manifest	YES	M ID 2/2 M ID 2/2
GS02 142	Application Sender Code DUNS number	YES	M ID 2/12 M ID 2/12
GS03 124	Application Receiver Code DUNS number	YES	M ID 2/12 M ID 2/12
GS04 29	Data Interchange Date date built (YYMMDD)	YES	M DT 6/8 M DT 6/8
GS05 30	Data Interchange Time time built (HHMM)	YES	M TM 4/4 M TM 4/4
GS06 28	Interchange Control Number Unique control number starting with 1 and incrementing by 1 for each subsequent GS segment, same as GE02	YES	M NO 1/9 M NO 1/9
GS07 455	Responsible Agency "X"	YES	M ID 1/2 M ID 1/2
GS08 480	Version "003060"	YES	M ID 1/12 M ID 1/12

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **ST**            Transaction Set Header

**LEVEL:**            Header

**LOOP:**             -

**USAGE:**            Mandatory

**MAX USE:**         1

**PURPOSE:**        To indicate the start of a transaction set and to assign a control number

**COMMENT:**

**EXAMPLE:**         ST\*856\*0001

## Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
ST01 143	Transaction Set Identifier Code "856"	YES	M ID 3/3 M ID 3/3
ST02 329	Transaction Set Control Number Unique control number starting with 0001 and incrementing by 1 for each subsequent transaction set, same as SE02	YES	M AN 4/9 M AN 4/9

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **BSN**                      **Beginning Segment for Ship Notice**

**LEVEL:**            Header

**LOOP:**             -

**USAGE:**            Mandatory

**MAX USE:**         1

**PURPOSE:**        To transmit identifying numbers, dates, and other basic data relating to the transaction set

**COMMENT:**        The date and time are the local date and time at the build point of the transaction set. This should coincide with the shipment date and time.

**EXAMPLE:**         BSN\*00\*\*030619\*1235

## Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
BSN01 353	Transaction Set Purpose Code "00" Original	YES	M ID 2/2 M ID 2/2
BSN02 396	Shipment Identification A unique supplier assigned Shipment Identification (SID) number, only use and store 10 characters	YES	M AN 2/30 M AN 2/10
BSN03 373	Date ASN Date (YYMMDD)	YES	M DT 6/8 M DT 6/8
BSN04 337	Time ASN Time (HHMM) 24 hour clock, only use and store 4 characters	YES	M TM 4/8 M TM 4/4

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **DTM**                      Date/Time Reference

**LEVEL:**            Header

**LOOP:**

**USAGE:**            Mandatory

**MAX USE:**        10

**PURPOSE:**        To specify pertinent dated and times

**COMMENT:**        Two DTM segments in the Heading area are mandatory to provide Shipped Date and Time and to provide Expected Date and Time.

**EXAMPLE:**        DTM\*011\*030619\*1445  
DTM\*017\*030620\*0800

## Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
DTM01 374	Date/Time Qualifier "011" Shipped (mandatory), local date and time shipment leaves supplier's premises "017" Expected Delivery (mandatory)	YES	M ID 3/3 M ID 3/3
DTM02 373	Date Date (YYMMDD)	YES	X DT 6/6 X DT 6/6
DTM03 337	Time Time (HHMM) 24 hour clock, only use and store 4 characters	YES	X TM 4/8 X TM 4/4

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **HL**            Hierarchical Level

**LEVEL:**            Detail -Shipment

**LOOP:**            HL            **Repeat:**    200000

**USAGE:**            Mandatory

**MAX USE:**        1

**PURPOSE:**        To identify dependencies among and the content of hierarchically related groups and data segments

**COMMENT:**

**EXAMPLE:**        HL\*1\*\*S

### Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
HL01 628	Hierarchical ID Number "1" increment by 1 in each subsequent HL Shipment segment	YES	M AN 1/12 M AN 1/12
HL02 734	Hierarchical Parent ID Number NOT USED for this occurrence of the HL segment	NO	O AN 1/12
HL03 735	Hierarchical Level Code "S" Shipment	YES	M ID 1/2 M ID 1/2
HL04 736	Hierarchical Child Code	NO	O ID 01/01

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**       **MEA**                   **Measurements**

**LEVEL:**         Detail -Shipment

**LOOP:**          HL

**USAGE:**         Optional

**MAX USE:**       40

**PURPOSE:**      To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

**COMMENT:**      One MEA segment for Gross Weight and one MEA segment for Actual Net Weight are required.

**EXAMPLE:**       MEA\*PD\*G\*3100\*LB MEA\*PD\*N\*2800\*LB

### Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
MEA01 737	Measurement Reference ID Code "PD" Physical Dimensions	YES	O ID 2/2 M ID 2/2
MEA02 738	Measurement Qualifier "G" Gross Weight (optional) "N" Actual Net Weight (optional)	YES	O ID 1/3 M ID 1/1
MEA03 739	Measurement Value weight, only use and store 10 digits	YES	X R 1/20 X NO 1/10
MEA04 355	Unit of Measurement Code "LB" Pound	YES	X ID 2/2 X ID 2/2

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **TD1**                      **Carrier Details**

**LEVEL:**            Detail -Shipment

**LOOP:**             HL

**USAGE:**            Mandatory

**MAX USE:**         20

**PURPOSE:**        To specify the transportation details relative to commodity, weight, and quantity

**COMMENT:**        If needed use multiple segments to describe the shipment

**EXAMPLE:**        TD1\* BIN52\*5

### Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
TD101 103	Packaging Code (Container Type) some typical ANSI ASC X12 codes are: "BAG13" Bag "BBL52" Barrel "BIN51" Wire mesh bin "BIN52" Steel bin "BOX25" Cardboard box "COL52" Steel coil "CRT71" Crate "CTN25" Cardboard carton "LSE71" Loose "MIX90" Mixed "PLT71" Pallet "RCK58" Rack "SKD71" Skid	YES	O AN 3/5 M AN 3/5
TD102 80	Lading Quantity (Container Quantity) number of packages specified in TD101	YES	X NO 1/7 X NO 1/7

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**SEGMENT:**        **TD5**                    **Carrier Details**

**LEVEL:**            Detail -Shipment

**LOOP:**             HL

**USAGE:**            Mandatory

**MAX USE:**         12

**PURPOSE:**        To specify the carrier and provide transit information

**COMMENT:**

**EXAMPLE:**        TD5\*B\*2\*MPNF\*M

## Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
TD501 133	Routing Sequence Code "B" Origin/Delivery Carrier	YES	O ID 1/2 M ID 1/1
TD502 66	Identification Code Qualifier "2" SCAC Code	YES	X ID 1/2 X ID 1/1
TD503 67	Identification Code SCAC code, only use and store 10 characters	YES	X AN 2/20 M AN 2/10
TD504 91	Transportation Method/Type Code Some typical ANSI ASC X12 codes are: "D" Parcel post "E" Expedited truck "LT" Less than trailer load "M" Motor, trailer load "PC" Private carrier "X" Intermodal	YES	X ID 1/2 X ID 1/2

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **TD3**                      **Carrier Details (Equipment)**

**LEVEL:**            Detail -Shipment

**LOOP:**             HL

**USAGE:**            Mandatory

**MAX USE:**         12

**PURPOSE:**        To specify transportation details relating to the equipment used by the carrier

**COMMENT:**        Only one TD3 segment is used

**EXAMPLE:**        TD3\*TL\*\*287532

### Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
TD301 40	Equipment Description Code a typical ANSI ASC X12 codes is: "TL" Trailer	YES	M ID 2/2 M ID 2/2
TD302 206	Equipment Initial NOT USED	NO	O AN 1/4
TD303 207	Equipment Number trailer or vehicle number	YES	X AN 1/10 X AN 1/10

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**       **REF**                   Reference Identification

**LEVEL:**           Detail -Shipment

**LOOP:**            HL

**USAGE:**           Mandatory

**MAX USE:**        200

**PURPOSE:**        To specify identifying information

**COMMENT:**        One REF segment for Packing List Number is required.  
Other REF segments are optional.

**EXAMPLE:**        REF\*BM\*25673 REF\*PK\*18392 REF\*CN\*88145

### Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
REF01 128	Reference Identification Qualifier "PK" Packing List Number (mandatory) "BM" Bill of Lading Number (optional) "CN" Carrier's PRO Number (optional)	YES	M ID 2/3 M ID 2/2
REF02 127	Reference Identification unique number, use and store only 10 characters	YES	X AN 1/30 X AN 1/10

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **N1**            Name

**LEVEL:**            Detail -Shipment

**LOOP:**            HL/N1            **Repeat:**    200

**USAGE:**            Mandatory

**MAX USE:**        1

**PURPOSE:**        To identify a party by type of organization, name, and code

**COMMENT:**        One N1 segment for Supplier Code is required. Other N1 segments are optional.

**EXAMPLE:**        N1\*SU\*MNO ASSEMBLY\*92\*123456789  
                           N1\*ST\*ABC MANUFACTURING\*92\*987654321  
                           N1\*SF\*XYZ WAREHOUSE\*92\*567891234

## Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
N101 98	Entity Identifier Code "SU" Supplier Code (mandatory) "ST" Ship To (optional) "SF" Ship From (optional)	YES	M ID 2/2 M ID 2/2
N102 93	Name Free-form name	YES	X AN 1/35 O AN 1/30
N103 66	Identification Code Qualifier "92" Assigned By Buyer	YES	X ID 1/2 X ID 1/2
N104 67	Identification Code buyer assigned code, use and store only 10 characters	YES	X AN 2/20 X AN 2/10

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **HL**            Hierarchical Level

**LEVEL:**            Detail - Item

**LOOP:**            HL            **Repeats:** 200000

**USAGE:**            Mandatory

**MAX USE:**        1

**PURPOSE:**        To indicate dependencies among and the content of hierarchically related groups of data segments

**COMMENT:**        The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line item data to shipment data and packaging data to line item data.

**EXAMPLE:**        HL\*1\*1\*1

### Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
HL01 628	Hierarchical ID Number "1" increment by 1 in each subsequent HL Item segment	YES	M AN 1/12 M AN 1/12
HL02 734	Hierarchical Parent ID Number ID number of the next higher hierarchical data segment	YES	O AN 1/12 M AN 1/12
HL03 735	Hierarchical Level Code "1" Item	YES	M ID 1/2 M ID 1/1

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **LIN**        Item Identification

**LEVEL:**         Detail – Item

**LOOP:**          HL

**USAGE:**         Mandatory

**MAX USE:**       1

**PURPOSE:**      To specify basic item identification data

**COMMENT:**

**EXAMPLE:**      LIN\*\*BP\*rt2371

### Data Element Summary

Reference	Name / Comment	USE	AIAG / AIM Attributes
LIN01 350	Assigned Identification Not Used	NO	O AN 1/20
LIN02 235	Product/Service ID Qualifier "BP" Buyers Part Number	YES	M ID 2/2 M ID 2/2
LIN03 234	Product/Service ID buyer's part number, use and store only 20 characters	YES	M AN 1/40 M AN 1/20

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **SN1**        Item Detail (Shipment)

**LEVEL:**            Detail - Item

**LOOP:**             HL

**USAGE:**            Mandatory

**MAX USE:**         1

**PURPOSE:**        To specify line item detail relative to shipment

**COMMENT:**

**EXAMPLE:**         SN1\*\*1400\*PC\*6000

## Data Element Summary

Reference	Name / Comment	USE	AIAG / AIM Attributes
SN101 350	Assigned Identification Not Used	NO	O AN 1/20
SN102 382	Number of Units Shipped total quantity for item referenced in LIN03	YES	M R 1/10 M NO 1/10
SN103 355	Unit Of Measurement Code Some typical ANSI ASC X12 codes are: "CW" Hundredweight "EA" Each "FT" Feet "HF" Hundredfeet "KG" Kilogram "LB" Pounds	YES	M ID 2/2 M ID 2/2
SN104 646	Quantity Shipped to Date cumulative quantity	YES	O R 1/9 O NO 1/10

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**       **PRF**       Purchase Order Reference

**LEVEL:**         Detail - Item

**LOOP:**          HL

**USAGE:**         Mandatory

**MAX USE:**       1

**PURPOSE:**      To provide reference to a specific purchase order

**COMMENT:**

**EXAMPLE:**       PRF\*B00000389\*0005\*\*\*

## Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
PRF01 324	Purchase Order Number buyer's PO Number, ie: "B00001234", use and store only 9 characters	YES	M AN 1/22 M AN 1/9
PRF02 328	Release Number release against PO in PRF01, use and store only 4 characters	YES	O AN 1/30 O AN 1/4
PRF03 327	Change Order Sequence Number Not Used	NO	O AN 1/8
PRF04 323	Date Purchase Order Date (YYMMDD)	YES	O DT 8/6 O DT 8/6

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **CLD**                    Load Detail

**LEVEL:**            Detail - Item

**LOOP:**            HL/CLD                    **Repeat:**    200

**USAGE:**            Mandatory

**MAX USE:**        1

**PURPOSE:**        To specify the number of material loads shipped

**COMMENT:**

**EXAMPLE:**        CLD\*1\*700\* BIN52

## Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
CLD01 622	Number of Loads Number of CLD03 packaging for this item	YES	M NO 1/5 M NO 1/7
CLD02 382	Number of Units Shipped quantity per package	YES	M R 1/10 M NO 1/10
CLD03 103	Packaging Code (Container Type) Some typical ANSI ASC X12 codes are: "BAG13" Bag "BBL52" Barrel "BIN51" Wire mesh bin "BIN52" Steel bin "BOX25" Cardboard box "COL52" Steel coil "CRT71" Crate "CTN25" Cardboard carton "LSE71" Loose "MIX90" Mixed "PLT71" Pallet "RCK58" Rack "SKD71" Skid	YES	O AN 3/5 M AN 3/5

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **REF**                    Reference Identification

**LEVEL:**            Detail - Item

**LOOP:**             HL/CLD

**USAGE:**            Optional

**MAX USE:**         200

**PURPOSE:**        To specify identifying information

**COMMENT:**

**EXAMPLE:**         REF\*LS\*798412

### Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
REF01 128	Reference Identification Qualifier "LS" Bar-Coded Serial Number	YES	M ID 2/3 M ID 2/2
REF02 127	Reference Identification Vendor Lot Number	YES	X AN 1/30 X AN 1/10

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **CTT**                    Transaction Totals

**LEVEL:**            Summary

**LOOP:**             -

**USAGE:**            Mandatory

**MAX USE:**         1

**PURPOSE:**        To transmit a hash total for a specific element in the transaction set

**COMMENT:**

**EXAMPLE:**        CTT\*2\*2900

### Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
CTT01 354	Number of Line Items Total number of HL Segments	YES	M NO 1/8 M NO 1/8
CTT02 347	Hash Total Sum of the values in the SN102 segment, total quantity shipped	YES	O R 1/10 O NO 1/10

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **SE**            Transaction Set Trailer

**LEVEL:**            Summary

**LOOP:**

**USAGE:**            Mandatory

**MAX USE:**        1

**PURPOSE:**        To indicate the end of the transaction set and provide the count of the transmitted segments

**COMMENT:**        The last segment of each transaction set

**EXAMPLE:**        SE\*35\*0001

## Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
SE01 96	Number of included segments Total number of segments included in a transaction set Including ST and SE segments	YES	M NO 1/10 M NO 1/10
SE02 329	Transaction Set Control Number Same as ST02 in the associated transaction set	YES	M AN 4/9 M AN 4/9

# Ship Notice/Manifest (856) ASN Programming Specification

**SEGMENT:**        **GE**            Functional Group Trailer

**LEVEL:**            N/A

**LOOP:**             -

**USAGE:**            Mandatory 1 per functional group

**MAX USE:**         1

**PURPOSE:**        To indicate the end of a functional group and to provide control information

**COMMENT:**

**EXAMPLE:**        GE\*1\*1

### Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes		
GE01 97	Number of Transaction Sets Included Total number of ST segments in group	YES	M	NO	1/6
GE02 28	Data Interchange Control Number same as GS08 in the associated group header	YES	M	NO	1/9

# Ship Notice/Manifest (856) ASN Programming Specification

## SAMPLE ASC X12 TRANSACTION

GS\*SH\*123456789\*987654321\*030619\*1235\*1\*X\*003060  
ST\*856\*0001  
BSN\*00\*\*030619\*1235  
DTM\*011\*030619\*1445  
DTM\*017\*030620\*0800  
HL\*1\*\*S  
MEA\*PD\*G\*3100\*LB  
MEA\*PD\*N\*2800\*LB  
TD1\* BIN52\*5  
TD5\*B\*2\*MPNF\*M  
TD3\*TL\*\*287532  
REF\*BM\*25673  
REF\*PK\*18392  
REF\*CN\*88145  
N1\*SU\*MNO ASSEMBLY\*92\*123456789  
N1\*ST\*ABC MANUFACTURING\*92\*987654321  
N1\*SF\*XYZ WAREHOUSE\*92\*567891234  
HL\*1\*1\*I  
LIN\*\*BP\*rt2371  
SN1\*\*1400\*PC\*6000  
PRF\*B00000389\*0005\*\*\*  
CLD\*2\*700\* BIN52  
REF\*LS\*798412  
REF\*LS\*798413  
HL\*2\*1\*I  
LIN\*\*BP\*lt2372  
SN1\*\*1500\*PC\*6000  
PRF\*B00003489\*0002\*\*\*  
CLD\*1\*700\* BIN52  
REF\*LS\*798514  
CLD\*2\*400\* BIN52  
REF\*LS\*798515  
REF\*LS\*798516  
CTT\*2\*2900  
SE\*35\*0001  
GE\*1\*1