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# Indigo Books and Music Inc. - Trade Books

**X12/V4010/852 : 852 Product Activity Data**

# Version: 1 Final

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|---|---|
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# 852 Product Activity Data

## Functional Group=PD

**Purpose:** This Draft Standard for Trial Use contains the format and establishes the data contents of the Product Activity Data Transaction Set (852) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by a distributor, warehouse, or retailer to advise a trading partner of inventory, sales, and other product activity information. Product activity data enables a trading partner to plan and ship, or propose inventory replenishment quantities, for distribution centers, warehouses or retail outlets.The receiver of the transaction set will maintain some type of inventory/product movement records for its trading partners to enable replenishment calculations based on data provided by the distributor, warehouse or retailer.

## Not Defined:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|-----|-----|-----|-----|-----|-----|
| | ISA | Interchange Control Header | M | 1 | | | Must use |
| | GS | Functional Group Header | M | 1 | | | Must use |

## Heading:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 010 | ST | Transaction Set Header | M | 1 | | | Must use |
| 020 | XQ | Reporting Date/Action | M | 1 | | | Must use |
| 040 | N9 | Reference Identification | M | >1 | | | Must use |
| **LOOP ID - N1** | | | | | **200** | **N1/060L** | |
| 060 | N1 | Name | M | 1 | | N1/060 | Must use |

## Detail:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|-----|-----|-----|-----|-----|-----|
| **LOOP ID - LIN** | | | | | **999999** | | |
| 010 | LIN | Item Identification | M | 1 | | | Must use |
| 020 | CTP | Pricing Information | M | 25 | | | Must use |
| **LOOP ID - ZA** | | | | | **>1** | **N2/080L** | |
| 080 | ZA | Product Activity Reporting | M | 1 | | N2/080 | Must use |

## Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Notes | Usage |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 010 | CTT | Transaction Totals | M | 1 | | N3/010 | Must use |
| 020 | SE | Transaction Set Trailer | M | 1 | | | Must use |

## Notes:

1/060L    The reporting location is required. The reporting location is specified explicitly in the N1 segment using the code RL in N101, or implicitly using the SDQ segment (Table 2) with the location data elements. They are mutually exclusive (the SDQ and the N1 with N101 containing RL).

1/060    The reporting location is required. The reporting location is specified explicitly in the N1 segment using the code RL in N101, or implicitly using the SDQ segment (Table 2) with the location data elements. They are mutually exclusive (the SDQ and the N1 with N101 containing RL).

2/080L    The quantity for the item identified in the LIN segment is required. Quantity is specified either in the ZA segment (ZA02) or in the SDQ segment.

2/080    The quantity for the item identified in the LIN segment is required. Quantity is specified either in the ZA segment (ZA02) or in the SDQ segment.

3/010    The number of line items (CTT01) is the accumulation of the number of LIN segments.  Hash total (CTT02)

is not used in this transaction set.
When sending item and activity data in the LIN loop, the CTT segment is required.

**User Note 1:**

*Change History:*

*November 2020:*

*Changed usage for N9 segment from Optional to Mandatory*

*Changed usage of N1 Loop from Optional to Mandatory*

*Changed usage of N1 segment from Optional to Manadatory*

*Changed usage of N103 and 04 from Relational to Mandatory*

*Changed usage of LIN01 from Optional to Mandatory*

*Changed usage of CTP segment  from Optional to Mandatory*

*Changed usage of CTP02 and 03 from Relational to Mandatory*

*Changed usage of ZA02 and 03 from Relational to Mandatory*

*Changed usage of CTT segment from Optional to Mandatory*

# ISA   Interchange Control Header

| | |
|---|---|
| **Pos:** | **Max: 1** |
| **Not Defined - Mandatory** | |
| **Loop: N/A** | **Elements: 16** |

**User Option (Usage):** Must use

**Purpose:** To start and identify an interchange of zero or more functional groups and interchange-related control segments

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ISA01 | I01 | **Authorization Information Qualifier** | M | ID | 2/2 | Must use |

**Description:** Code to identify the type of information in the Authorization Information
**All valid standard codes are used. (Total Codes: 7)**

| ISA02 | I02 | **Authorization Information** | M | AN | 10/10 | Must use |
|---|---|---|---|---|---|---|

**Description:** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)

| ISA03 | I03 | **Security Information Qualifier** | M | ID | 2/2 | Must use |
|---|---|---|---|---|---|---|

**Description:** Code to identify the type of information in the Security Information
**All valid standard codes are used. (Total Codes: 2)**

| ISA04 | I04 | **Security Information** | M | AN | 10/10 | Must use |
|---|---|---|---|---|---|---|

**Description:** This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)

| ISA05 | I05 | **Interchange ID Qualifier** | M | ID | 2/2 | Must use |
|---|---|---|---|---|---|---|

**Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

**Code List Summary** (Total Codes: 38, Included: 1)

| Code | Name |
|---|---|
| ZZ | Mutually Defined |

| ISA06 | I06 | **Interchange Sender ID** | M | AN | 15/15 | Must use |
|---|---|---|---|---|---|---|

**Description:** 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 value in the sender ID element

**User Note 1:** *VMIORDERS*

| ISA07 | I05 | **Interchange ID Qualifier** | M | ID | 2/2 | Must use |
|---|---|---|---|---|---|---|

**Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified
**All valid standard codes are used. (Total Codes: 38)**

| ISA08 | I07 | **Interchange Receiver ID** | M | AN | 15/15 | Must use |
|---|---|---|---|---|---|---|

**Description:** 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

| ISA09 | I08 | **Interchange Date** | M | DT | 6/6 | Must use |
|---|---|---|---|---|---|---|

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| | | **Description:** Date of the interchange | | | | |
| ISA10 | I09 | **Interchange Time** | M | TM | 4/4 | Must use |
| | | **Description:** Time of the interchange | | | | |
| ISA11 | I10 | **Interchange Control Standards Identifier** | M | ID | 1/1 | Must use |
| | | **Description:** Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer **All valid standard codes are used. (Total Codes: 1)** | | | | |
| ISA12 | I11 | **Interchange Control Version Number** | M | ID | 5/5 | Must use |
| | | **Description:** Code specifying the version number of the interchange control segments | | | | |

**Code List Summary** (Total Codes: 14, Included: 1)

| Code | Name |
|------|------|
| 00401 | Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997 |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|--------------|-----|------|---------|-------|
| ISA13 | I12 | **Interchange Control Number** | M | N0 | 9/9 | Must use |
| | | **Description:** A control number assigned by the interchange sender | | | | |
| ISA14 | I13 | **Acknowledgment Requested** | M | ID | 1/1 | Must use |
| | | **Description:** Code sent by the sender to request an interchange acknowledgment (TA1) **All valid standard codes are used. (Total Codes: 2)** | | | | |
| ISA15 | I14 | **Usage Indicator** | M | ID | 1/1 | Must use |
| | | **Description:** Code to indicate whether data enclosed by this interchange envelope is test, production or information **All valid standard codes are used. (Total Codes: 3)** | | | | |
| ISA16 | I15 | **Component Element Separator** | M | | 1/1 | Must use |
| | | **Description:** Type is not applicable; 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 | | | | |

# GS   Functional Group Header

| Pos: | Max: 1 |
|---|---|
| Not Defined - Mandatory | |
| Loop: N/A | Elements: 8 |

**User Option (Usage):** Must use

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS01 | 479 | **Functional Identifier Code** | M | ID | 2/2 | Must use |

**Description:** Code identifying a group of application related transaction sets

**Code List Summary** (Total Codes: 240, Included: 1)

| Code | Name |
|---|---|
| PD | Product Activity Data (852) |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS02 | 142 | **Application Sender's Code** | M | AN | 2/15 | Must use |

**Description:** Code identifying party sending transmission; codes agreed to by trading partners

**User Note 1:** *VMIORDERS*

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS03 | 124 | **Application Receiver's Code** | M | AN | 2/15 | Must use |

**Description:** Code identifying party receiving transmission; codes agreed to by trading partners

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS04 | 373 | **Date** | M | DT | 8/8 | Must use |

**Description:** Date expressed as CCYYMMDD

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS05 | 337 | **Time** | M | TM | 4/8 | Must use |

**Description:** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS06 | 28 | **Group Control Number** | M | N0 | 1/9 | Must use |

**Description:** Assigned number originated and maintained by the sender

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS07 | 455 | **Responsible Agency Code** | M | ID | 1/2 | Must use |

**Description:** Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480

**All valid standard codes are used. (Total Codes: 2)**

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| GS08 | 480 | **Version / Release / Industry Identifier Code** | M | AN | 1/12 | Must use |

**Description:** Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

**Code List Summary** (Total Codes: 39, Included: 1)

| Code | Name |
|------|------|
| 004010 | Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997 |

## Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. 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:

1. 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.

# ST  Transaction Set Header

<div>
<strong>Pos: 010</strong>      <strong>Max: 1</strong><br>
<strong>Heading - Mandatory</strong><br>
<strong>Loop: N/A</strong>      <strong>Elements: 1</strong>
</div>

**User Option (Usage):** Must use

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

## Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|---|---|---|---|---|---|---|
| ST01 | 143 | **Transaction Set Identifier Code** | M | ID | 3/3 | Must use |

    **Description:** Code uniquely identifying a Transaction Set

    **Code List Summary** (Total Codes: 298, Included: 1)

    <u>**Code**</u>   <u>**Name**</u>

    852     Product Activity Data

## Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

# XQ   Reporting Date/Action

| | |
|---|---|
| **Pos: 020**  **Max: 1** | |
| **Heading - Mandatory** | |
| **Loop: N/A**   **Elements: 2** | |

**User Option (Usage):** Must use

**Purpose:** To specify reporting date and action to be taken

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| XQ01 | 305 | **Transaction Handling Code** | M | ID | 1/2 | Must use |

**Description:** Code designating the action to be taken by all parties

**Code List Summary** (Total Codes: 23, Included: 1)

| Code | Name |
|---|---|
| H | Notification Only |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| XQ02 | 373 | **Date** | M | DT | 8/8 | Must use |

**Description:** Date expressed as CCYYMMDD

## Semantics:

1.  XQ02 is the reporting date. If reporting a date range, then XQ02 is the start date and XQ03 is the end date.

# N9   Reference Identification

| Pos: 040 | Max: >1 |
|---|---|
| **Heading - Mandatory** | |
| **Loop: N/A** | **Elements: 2** |

**User Option (Usage):** Must use

**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| N901 | 128 | **Reference Identification Qualifier** | M | ID | 2/3 | Used |

**Description:** Code qualifying the Reference Identification

**Code List Summary** (Total Codes: 1503, Included: 1)

| Code | Name |
|---|---|
| X9 | Internal Control Number |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| N902 | 127 | **Reference Identification** | M | AN | 1/30 | Used |

**Description:** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

## Syntax Rules:

1.  R0203 - At least one of N902 or N903 is required.

# Loop Name

| Pos: 060 | Repeat: 200 |
|---|---|
| Mandatory | |
| Loop: N1 | Elements: N/A |

**User Option (Usage):** Must use

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

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 060 | N1 | Name | M | 1 | | Must use |

# N1 Name

**User Option (Usage):** Must use
**Purpose:** To identify a party by type of organization, name, and code

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| N101 | 98 | **Entity Identifier Code** | M | ID | 2/3 | Must use |

**Description:** Code identifying an organizational entity, a physical location, property or an individual

**Code List Summary** (Total Codes: 1312, Included: 3)

| Code | Name |
|------|------|
| FR | Message From |
| SN | Store |
| VN | Vendor |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| N103 | 66 | **Identification Code Qualifier** | M | ID | 1/2 | Must use |

**Description:** Code designating the system/method of code structure used for Identification Code (67)

**Code List Summary** (Total Codes: 215, Included: 2)

| Code | Name |
|------|------|
| 1 | D-U-N-S Number, Dun & Bradstreet |
| 15 | Standard Address Number (SAN) |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| N104 | 67 | **Identification Code** | M | AN | 2/80 | Must use |

**Description:** Code identifying a party or other code

## Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.
2. P0304 - If either N103 or N104 is present, then the other is required.

## Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

# Loop Item Identification

| Pos: 010 | Repeat: 999999 |
|---|---|
| **Mandatory** | |
| **Loop: LIN** | **Elements: N/A** |

**User Option (Usage):** Must use
**Purpose:** To specify basic item identification data

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|---|---|---|---|---|---|---|
| 010 | LIN | Item Identification | M | 1 | | Must use |
| 020 | CTP | Pricing Information | M | 25 | | Must use |
| 080 | | Loop ZA | M | | >1 | Must use |

# LIN  Item Identification

| Pos: 010 | Max: 1 |
|---|---|
| **Detail - Mandatory** | |
| **Loop: LIN** | **Elements: 3** |

**User Option (Usage):** Must use

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

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| LIN01 | 350 | **Assigned Identification** | M | AN | 1/20 | Must use |

**Description:** Alphanumeric characters assigned for differentiation within a transaction set

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| LIN02 | 235 | **Product/Service ID Qualifier** | M | ID | 2/2 | Must use |

**Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234)

**Code List Summary** (Total Codes: 477, Included: 2)

| Code | Name |
|---|---|
| EN | European Article Number (EAN) (2-5-5-1) |
| UP | U.P.C. Consumer Package Code (1-5-5-1) |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| LIN03 | 234 | **Product/Service ID** | M | AN | 1/48 | Must use |

**Description:** Identifying number for a product or service

## Semantics:

1.  LIN01 is the line item identification

## Comments:

1.  See the Data Dictionary for a complete list of IDs.

2.  LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

# CTP   Pricing Information

**User Option (Usage):** Must use
**Purpose:** To specify pricing information

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| CTP02 | 236 | **Price Identifier Code** | M | ID | 3/3 | Must use |

**Description:** Code identifying pricing specification

**Code List Summary** (Total Codes: 164, Included: 1)

| Code | Name |
|------|------|
| UCP | Unit cost price |

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| CTP03 | 212 | **Unit Price** | M | R | 1/17 | Must use |

**Description:** Price per unit of product, service, commodity, etc.

**User Note 1:**

*Decimals accepted*

## Semantics:

1.

## Comments:

1. See Figures Appendix for an example detailing the use of CTP03 and CTP04.

# Loop Product Activity Reporting

<table>
<tr><td><strong>Pos: 080</strong></td><td><strong>Repeat: >1</strong></td></tr>
<tr><td colspan="2" align="center"><strong>Mandatory</strong></td></tr>
<tr><td><strong>Loop: ZA</strong></td><td><strong>Elements: N/A</strong></td></tr>
</table>

**User Option (Usage):** Must use
**Purpose:** To provide activity details concerning product being reported

## Loop Summary:

| Pos | Id | Segment Name | Req | Max Use | Repeat | Usage |
|-----|----|--------------|-----|---------|--------|-------|
| 080 | ZA | Product Activity Reporting | M | 1 | | Must use |

# ZA  Product Activity Reporting

| Pos: 080 | Max: 1 |
|---|---|
| **Detail - Mandatory** | |
| **Loop: ZA** | **Elements: 3** |

**User Option (Usage):** Must use

**Purpose:** To provide activity details concerning product being reported

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| ZA01 | 859 | **Activity Code** | M | ID | 2/2 | Must use |

**Description:** Code identifying activity details for the product being reported

**Code List Summary** (Total Codes: 39, Included: 1)

| Code | Name |
|---|---|
| QS | Quantity Sold |

| | | | | | | |
|---|---|---|---|---|---|---|
| ZA02 | 380 | **Quantity** | M | R | 1/15 | Must use |

**Description:** Numeric value of quantity

| | | | | | | |
|---|---|---|---|---|---|---|
| ZA03 | 355 | **Unit or Basis for Measurement Code** | M | ID | 2/2 | Must use |

**Description:** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

**Code List Summary** (Total Codes: 794, Included: 1)

| Code | Name |
|---|---|
| EA | Each |

## Syntax Rules:

1. P0203 - If either ZA02 or ZA03 is present, then the other is required.

# CTT  **Transaction Totals**

**Pos: 010                Max: 1**
**Summary - Mandatory**
**Loop: N/A        Elements: 1**

**User Option (Usage):** Must use
**Purpose:** To transmit a hash total for a specific element in the transaction set

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|-----|-----|-------------|-----|------|---------|-------|
| CTT01 | 354 | **Number of Line Items** | M | N0 | 1/6 | Must use |

**Description:** Total number of line items in the transaction set

## Comments:

1.  This segment is intended to provide hash totals to validate transaction completeness and correctness.

# SE   Transaction Set Trailer

<table>
<tr><td><strong>Pos: 020</strong></td><td><strong>Max: 1</strong></td></tr>
<tr><td colspan="2"><strong>Summary - Mandatory</strong></td></tr>
<tr><td><strong>Loop: N/A</strong></td><td><strong>Elements: 2</strong></td></tr>
</table>

**User Option (Usage):** Must use

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

## Element Summary:

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| SE01 | 96 | **Number of Included Segments** | M | N0 | 1/10 | Must use |

**Description:** Total number of segments included in a transaction set including ST and SE segments

| Ref | Id | Element Name | Req | Type | Min/Max | Usage |
|---|---|---|---|---|---|---|
| SE02 | 329 | **Transaction Set Control Number** | M | AN | 4/9 | Must use |

**Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

## Comments:

1.  SE is the last segment of each transaction set.