Scan Based Trading (SBT) Program, 816 Organizational Relationships

ANSI X12-4010  
Supplier Implementation Guide  
Document Version 1.0

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**816 Organizational Relationships**

**Functional Group ID=OR**

**Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Organizational Relationships Transaction Set (816) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used to transmit pertinent information about a parent organization, its members and the relationship of a member to another member, and/or to the parent organization. A parent organization could be an association, a multi-hospital system, a chain of retail stores, a holding company, etc. This transaction set can be used to convey the identity and relationship of members to a parent organization; identify eligibility to purchase under the terms and conditions negotiated by a parent organization on behalf of its members; and to update application databases.

**Heading:**

**Pos. Seg. Req. Loop Notes and**

**No. ID Name Des. Max.Use Repeat Comments**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M | 010 | ST | Transaction Set Header | M | 1 |  |  |  |  |  |  |  |  |
| M | 020 | BHT | Beginning of Hierarchical Transaction | M | 1 |  | n1 |  |  |  |  |  |  |
|  | 030 | DTM | Date/Time Reference | O | 10 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - N1 |  |  | >1 |  |  |  |  |  |  |  |
| M | 040 | N1 | Name | M | 1 |  | n2 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Detail:**

**Pos. Seg. Req. Loop Notes and**

**No. ID Name Des. Max.Use Repeat Comments**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | LOOP ID - HL |  |  | >1 |  |  |  |  |  |  |  |
| M | 010 | HL | Hierarchical Level | M | 1 |  |  |  |  |  |  |  |  |
|  |  |  | LOOP ID - N1 |  |  | >1 |  |  |  |  |  |  |  |
| M | 020 | N1 | Name | M | 1 |  | n3 |  |  |  |  |  |  |
|  | 100 | ASI | Action or Status Indicator | O | 1 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| M | 110 | SE | Transaction Set Trailer | M | 1 |  |  |  |  |  |  |  |  |

**Transaction Set Notes**

**1.** BHT03 and BHT04 are mandatory.

**2.** The N1 loop shall identify the transaction set issuer and optionally provide contact information if necessary.

**3.** N105, when used, defines the relationship of the entity designated in N102 or N104 to its parent organization.

**Segment: ST Transaction Set Header**

**Position:** 010

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:**

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

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Example: ST\*816\*100001~ |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **ST01** | **143** | **Transaction Set Identifier Code** | **M** |  | **ID 3/3** | |
|  | | | Code uniquely identifying a Transaction Set | | | |
|  | | | Field Content = 816 | | | |
| **M** | **ST02** | **329** | **Transaction Set Control Number** | **M** |  | **AN 4/9** | |
|  | | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | | |

**Segment: BHT Beginning of Hierarchical Transaction**

**Position:** 020

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To define the business hierarchical structure of the transaction set and identify the business application purpose and reference data, i.e., number, date, and time

**Syntax Notes:**

**Semantic Notes:** **1** BHT03 is the number assigned by the originator to identify the transaction within the originator's business application system.

**2** BHT04 is the date the transaction was created within the business application system.

**3** BHT05 is the time the transaction was created within the business application system.

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Example: BHT\*0065\*00\*\*20220515\*01~ |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **BHT01** | **1005** | **Hierarchical Structure Code** | **M** |  | **ID 4/4** | |
|  | | | Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set | | | |
|  | | | 0065 = Company, Operating Unit | | | |
| **M** | **BHT02** | **353** | **Transaction Set Purpose Code** | **M** |  | **ID 2/2** | |
|  | | | Code identifying purpose of transaction set | | | |
|  | | | 00 = Original | | | |
|  | **BHT04** | **373** | **Date** | **O** |  | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD | | | |
|  | | | Date of Creation (CCYYMMDD) | | | |
|  | **BHT06** | **640** | **Transaction Type Code** | **O** |  | **ID 2/2** | |
|  | | | Code specifying the type of transaction | | | |
|  | | | 02= Store Location - Vendor Relationship Information | | | |

**Segment: DTM Date/Time Reference**

**Position:** 030

**Loop:**

**Level:** Heading

**Usage:** Optional

**Max Use:** 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** **1** At least one of DTM02 DTM03 or DTM05 is required.

**2** If DTM04 is present, then DTM03 is required.

**3** If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Example: DTM\*007\*20220515~ |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **DTM01** | **374** | **Date/Time Qualifier** | **M** |  | **ID 3/3** | |
|  | | | Code specifying type of date or time, or both date and time | | | |
|  | | | 007 = SBT Transaction Date | | | |
|  | **DTM02** | **373** | **Date** | **X** |  | **DT 8/8** | |
|  | | | Date expressed as CCYYMMDD | | | |
|  | | | Transaction Date (CCYYMMDD) | | | |

**Segment: N1 Name**

**Position:** 040

**Loop:** N1 Mandatory

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:** **1** At least one of N102 or N103 is required.

**2** If either N103 or N104 is present, then the other is required.

**Semantic Notes:**

**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.

**2** N105 and N106 further define the type of entity in N101.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Example: N1\*FR\*CVS CORP\*93\*001786664~ |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **N101** | **98** | **Entity Identifier Code** | **M** |  | **ID 2/3** | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | |
|  | | | FR = From | | | |
|  | **N102** | **93** | **Name** | **X** |  | **AN 1/60** | |
|  | | | Free-form name | | | |
|  | | | Retailer Name = CVS Corp | | | |
|  | **N103** | **66** | **Identification Code Qualifier** | **X** |  | **ID 1/2** | |
|  | | | Code designating the system/method of code structure used for Identification Code (67) | | | |
|  | | | 1 = Dun & Bradstreet # | | | |
|  | **N104** | **67** | **Identification Code** | **X** |  | **AN 2/80** | |
|  | | | Code identifying a party or other code | | | |
|  | | | CVS Health Dun & Bradstreet # = 001786664 | | | |

**Segment: HL Hierarchical Level**

**Position:** 010

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:**

**Semantic Notes:**

**Comments:** **1** 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.

The HL segment defines a top-down/left-right ordered structure.

**2** HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

**3** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

**4** HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

**5** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Examples:  HL\*1\*0\*36~  HL\*2\*1\*36~ |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **HL01** | **628** | **Hierarchical ID Number** | **M** |  | **AN 1/12** | |
|  | | | A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | | | |
|  | | | Field Contents: 1, 2, 3...  Incrementing by 1 for each detail loop. | | | |
| **M** | **HL03** | **735** | **Hierarchical Level Code** | **M** |  | **ID 1/2** | |
|  | | | Code defining the characteristic of a level in a hierarchical structure | | | |
|  | | | 36 = Operating Unit | | | |

**Segment: N1 Name**

**Position:** 020

**Loop:** N1 Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:** **1** At least one of N102 or N103 is required.

**2** If either N103 or N104 is present, then the other is required.

**Semantic Notes:**

**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.

**2** N105 and N106 further define the type of entity in N101.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Examples:  N1\*SN\*CVS PHARMACY INC.\*93\*11463~  N1\*SN\*HOOK-SUPERX L.L.C.\*93\*3195~ |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **N101** | **98** | **Entity Identifier Code** | **M** |  | **ID 2/3** | |
|  | | | Code identifying an organizational entity, a physical location, property or an individual | | | |
|  | | | SN = Store Number | | | |
|  | **N102** | **93** | **Name** | **X** |  | **AN 1/60** | |
|  | | | Free-form name | | | |
|  | | | Store Name | | | |
|  | **N103** | **66** | **Identification Code Qualifier** | **X** |  | **ID 1/2** | |
|  | | | Code designating the system/method of code structure used for Identification Code (67) | | | |
|  | | | 93 = User Defined Qualifier, Store Number | | | |
|  | **N104** | **67** | **Identification Code** | **X** |  | **AN 2/80** | |
|  | | | Code identifying a party or other code | | | |
|  | | | CVS Store Number | | | |

**Segment: ASI Action or Status Indicator**

**Position:** 100

**Loop:** N1 Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To indicate the action to be taken with the information provided or the status of the entity described

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Example: ASI\*2\*001~ |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **ASI01** | **306** | **Action Code** | **M** |  | **ID 1/2** | |
|  | | | Code indicating type of action | | | |
|  | | | 2 = Change | | | |
| **M** | **ASI02** | **875** | **Maintenance Type Code** | **M** |  | **ID 3/3** | |
|  | | | Code identifying the specific type of item maintenance | | | |
|  | | | 001 = Change  021 = Addition | | | |
|  | **ASI03** | **641** | **Status Reason Code** | **O** |  | **ID 3/3** | |
|  | | | Code indicating the status reason | | | |

**Segment: SE Transaction Set Trailer**

**Position:** 110

**Loop:**

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 1

**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)

**Syntax Notes:**

**Semantic Notes:**

**Comments:** **1** SE is the last segment of each transaction set.

|  |  |  |
| --- | --- | --- |
| **Notes:** |  | Example: SE\*3205\*100001~ |

**Data Element Summary**

**Ref. Data**

**Des. Element Name Attributes**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **M** | **SE01** | **96** | **Number of Included Segments** | **M** |  | **N0 1/10** | |
|  | | | Total number of segments included in a transaction set including ST and SE segments | | | |
| **M** | **SE02** | **329** | **Transaction Set Control Number** | **M** |  | **AN 4/9** | |
|  | | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | | |

**Example:**

ISA\*00\* \*00\* \*01\*SENDERID \*ZZ\*RECEIVERID \*220909\*0745\*U\*00401\*000001036\*0\*P\*^~

GS\*OR\* SENDERID\* RECEIVERID\*20220909\*0745\*1036\*X\*004010~

ST\*816\*0001~

BHT\*0065\*00\*\*20221022\*\*02~

DTM\*007\*20221022~

N1\*FR\*CVS CORP\*93\*001786664~

HL\*1\*\*36~

N1\*SN\*CVS PHARMACY INC.\*93\*15~

REF\*VN\*2A123\*29588~

ASI\*2\*001~

HL\*2\*\*36~

N1\*SN\*LOUISIANA CVS PHARMACY L.L.C.\*93\*16~

REF\*VN\*2A123\*29588~

ASI\*2\*001~

HL\*3\*\*36~

N1\*SN\*VIRGINIA CVS PHARMACY L.L.C.\*93\*18~

REF\*VN\*2A123\*29588~

ASI\*2\*001~

HL\*4\*\*36~

N1\*SN\*CVS PHARMACY INC.\*93\*20~

REF\*VN\*2A123\*29588~

ASI\*2\*001~

SE\*21\*0001~

GE\*1\*1036~

IEA\*1\*000001036~