**850 Purchase Order**

### X12/V4010/850: 850 Purchase Order

**Company: ODL**

**Modified: May 7, 2023**

**Notes: Initial version**

# 850 - Purchase Order v004010

## The Transaction Set Table

| **Area** | **Sequence** | **Segment ID** | **Segment Name** | **Requirement** | **Maximum Use** |
| --- | --- | --- | --- | --- | --- |
|  |  | **ISA** | ISA \_ Interchange Control Header | M | 1 |
|

| Loop Name: FunctionalGroup, Requirement: M |
| --- |
|  |  | **GS** | GS \_ Functional Group Header | M | 1 |
|

| Loop Name: TS\_850, Requirement: M |
| --- |
| H | 010 | **ST** | Transaction Set Header | M | 1 |
| H | 020 | **BEG** | Beginning Segment for Purchase Order | M | 1 |
| H | 060 | **PER** | Administrative Communications Contact | O | 3 |
|

| Loop Name: Loop\_N1\_44503, Requirement: O, Loop Level: 1, Loop Repeat: 200, Loop Identifier: N1 |
| --- |
| H | 310 | **N1** | Name | O | 1 |
| H | 330 | **N3** | Address Information | O | 2 |
| H | 340 | **N4** | Geographic Location | O | -1 |

 |
|

| Loop Name: Loop\_PO1\_44509, Requirement: M, Loop Level: 1, Loop Repeat: 100000, Loop Identifier: PO1 |
| --- |
| B | 010 | **PO1** | Baseline Item Data | M | 1 |
|

| Loop Name: Loop\_PID\_44511, Requirement: O, Loop Level: 2, Loop Repeat: 1000, Loop Identifier: PID |
| --- |
| B | 050 | **PID** | Product/Item Description | O | 1 |
| Loop Name: Loop\_DTM\_44522, Requirement: M, Loop Level: 1, Loop Repeat: 1000, Loop Identifier: DTM  |
| H | 150 | **DTM** | Date/Time Reference | O | 10 |

 |

 |
|

| Loop Name: Loop\_CTT\_44528, Requirement: O, Loop Level: 1, Loop Repeat: 1, Loop Identifier: CTT |
| --- |
| F | 010 | **CTT** | Transaction Totals | O | 1 |

 |
| F | 030 | **SE** | Transaction Set Trailer | M | 1 |

 |
|  |  | **GE** | GE \_ Functional Group Trailer | M | 1 |

 |
|  |  |  **IEA** | IEA \_ Interchange Control Trailer |  O | 1 |

### **ISA - ISA \_ Interchange Control Header**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | I01 | Authorization Information Qualifier | ID | M | 2 | 2 |
|

| **Code** | **Code Description** |
| --- | --- |
| 00  | No Authorization Information Present (No Meaningful Information in I02) |

 |  |  |  |  |  |
| **02** | I02 | Authorization Information | AN | M | 10 | 10 |
| **03** | I03 | Security Information Qualifier | ID | M | 2 | 2 |
|

| **Code** | **Code Description** |
| --- | --- |
| 00  | No Security Information Present (No Meaningful Information in I04) |

 |  |  |  |  |  |
| **04** | I04 | Security Information | AN | M | 10 | 10 |
| **05** | I05 | Interchange ID Qualifier | ID | M | 2 | 2 |
|

| **Code** | **Code Description** |
| --- | --- |
| 01  | Duns (Dun & Bradstreet) |

 |  |  |  |  |  |
| **06** | I06 | Interchange Sender ID | AN | M | 15 | 15 |
| Comment:  | **067888030**  |
| **07** | I05 | Interchange ID Qualifier | ID | M | 2 | 2 |  |
|

| **Code** | **Code Description** |
| --- | --- |
| 01  | Duns (Dun & Bradstreet) |

 |  |  |  |  |  |  |
| **08** | I07 | Interchange Receiver ID | AN | M | 15 | 15 |  |
| Comment:  | **Trading Partner Receiver ID**  |
| **09** | I08 | Interchange Date | DT | M | 6 | 6 |  |
| Comment:  | **YYMMDD**  |
| **10** | I09 | Interchange Time | TM | M | 4 | 4 |  |
| Comment:  | **HHMM**  |
| **11** | I10 | Interchange Control Standards Identifier | ID | M | 1 | 1 |  |
|

| **Code** | **Code Description** |
| --- | --- |
| U  | U.S. EDI Community of ASC X12, TDCC, and UCS |

 |  |  |  |  |  |  |
| **12** | I11 | Interchange Control Version Number | ID | M | 5 | 5 |  |
|

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

 |  |  |  |  |  |  |
| **13** | I12 | Interchange Control Number | N0 | M | 9 | 9 |  |
| Comment:  | ISA Control Number  |
| **14** | I13 | Acknowledgment Requested | ID | M | 1 | 1 |  |
|

| **Code** | **Code Description** |
| --- | --- |
| 0  | No Acknowledgment Requested |

 |  |  |  |  |  |  |
| **15** | I14 | Usage Indicator | ID | M | 1 | 1 |  |
|

| **Code** | **Code Description** |
| --- | --- |
| P  | Production Data |

 |  |  |  |  |  |  |
| **16** | I15 | Component Element Separator | string | M | 1 | 1 |  |
| Comment:  | ^  |

### **Example:**

### ISA\*00\* \*00\* \*01\*067888030 \*ZZ\*TPISAID \*191030\*1604\*U\*00401\*315435349\*0\*P\*^~

### **GS - GS \_ Functional Group Header**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 479 | Functional Identifier Code | ID | M | 2 | 2 |
|

| **Code** | **Code Description** |
| --- | --- |
| PO  | Purchase Order (850) |

 |  |  |  |  |  |
| **02** | 142 | Application Sender's Code | AN | M | 2 | 15 |
| Comment:  | **057499049**  |
| **03** | 124 | Application Receiver's Code | AN | M | 2 | 15 |  |
| Comment:  | **Trading Partner Receiver ID**  |
| **04** | 373 | Date | DT | M | 8 | 8 |  |
| Comment:  | **YYYYMMDD**  |
| **05** | 337 | Time | TM | M | 4 | 8 |  |
| Comment:  | **HHMMSS**  |
| **06** | 28 | Group Control Number | N0 | M | 1 | 9 |  |
| Comment:  | **GS Control Number**  |
| **07** | 455 | Responsible Agency Code | ID | M | 1 | 2 |  |
|

| **Code** | **Code Description** |
| --- | --- |
| X  | Accredited Standards Committee X12 |

 |  |  |  |  |  |  |
| **08** | 480 | Version / Release / Industry Identifier Code | AN | M | 1 | 12 |  |
| Comment:  | **004010**  |

### **Example:**

### GS\*PO\*006410781\*TPFunctionalID\*20191030\*160455\*620202948\*X\*004010~

### **ST - Transaction Set Header**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 143 | Transaction Set Identifier Code | ID | M | 3 | 3 |
|

| **Code** | **Code Description** |
| --- | --- |
| 850  | Purchase Order |

 |  |  |  |  |  |
| **02** | 329 | Transaction Set Control Number | AN | M | 4 | 9 |
| Comment:  | **ST Control Number**  |

### **Example:**

### ST\*850\*487704952~

### **BEG - Beginning Segment for Purchase Order**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 353 | Transaction Set Purpose Code | ID | M | 2 | 2 |
|

| **Code** | **Code Description** |
| --- | --- |
| 00  | Original |

 |  |  |  |  |  |
| **02** | 92 | Purchase Order Type Code | ID | M | 2 | 2 |
|

| **Code** | **Code Description** |
| --- | --- |
| SA  | Stand-alone Order |

 |  |  |  |  |  |
| **03** | 324 | Purchase Order Number | AN | M | 1 | 22 |
| Comment:  | **Purchase Order Number**  |
| **05** | 373 | Date | DT | M | 8 | 8 |  |
| Comment:  | **Purchase Order Date YYYYMMDD**  |

### **Example:**

### BEG\*00\*SA\*ODL000740\*\*20230430

### **PER - Administrative Communications Contact**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 366 | Contact Function Code | ID | M | 2 | 2 |
|

| **Code** | **Code Description** |
| --- | --- |
| BD  | Buyer Name or Department |

 |  |  |  |  |  |
| **02** | 93 | Name | AN | O | 1 | 60 |
| Comment:  | **Buyer Name**  |

###### Syntax Notes:

* P0304 - Paired Condition. If one is present, then all of { PER\_03, PER\_04 } is required
* P0506 - Paired Condition. If one is present, then all of { PER\_05, PER\_06 } is required
* P0708 - Paired Condition. If one is present, then all of { PER\_07, PER\_08 } is required

### **Example:**

### PER\*BD\*ODL~

### PER\*BD\*John Doe~

### **N1 – Name**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 98 | Entity Identifier Code | ID | M | 2 | 3 |
|

| **Code** | **Code Description** |
| --- | --- |
| BT  | Bill-to-Party |
| ST  | Ship To |

 |  |  |  |  |  |
| **02** | 93 | Name | AN | C | 1 | 60 |
| Comment:  | **Ship To Name** **Bill To Name**  |
| **03** | 66 | Identification Code Qualifier | ID | C | 1 | 2 |  |
|

| **Code** | **Code Description** |
| --- | --- |
| 92  | Assigned by Buyer or Buyer's Agent |

 |  |  |  |  |  |  |
| **04** | 67 | Identification Code | AN | C | 2 | 80 |  |
| Comment:  | **Ship To Location ID****Bill To Location ID**  |

###### Syntax Notes:

* R0203 - Required Condition. At least one of { N1\_02, N1\_03 } is required
* P0304 - Paired Condition. If one is present, then all of { N1\_03, N1\_04 } is required

### **Example:**

### N1\*ST\*1140080015 Chicago\*92\*1140080015~

### N1\*BT\*ODL\*92\*300000002210174~

### **N3 - Address Information**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 166 | Address Information | AN | M | 1 | 55 |
| Comment:  | **Ship To Address1** **Bill To Address 1**  |

### **Example:**

### N3\*454 N 12th Street~

**N4 - Geographic Location**

| **Sequence** | **Data Element Number** | **Data Element Name** |  | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **01** | 19 | City Name |  | AN | O | 2 | 30 |
| Comment:  |  | **Ship To City** **Bill To City**  |
| **02** | 156 | State or Province Code |  | ID | O | 2 | 2 |  |
| Comment:  |  | **Ship To State** **Bill To State**  |
| **03** | 116 | Postal Code |  | ID | O | 3 | 15 |  |
| Comment:  |  | **Ship To PostalCode** **Bill To PostalCode**  |
| **04** | 26 | Country Code |  | ID | O | 2 | 3 |  |
| Comment:  |  | **Ship To Country** **Bill To Country**  |

###### Syntax Notes:

* C0605 - Conditional Condition. If N4\_06 is present, then all of { N4\_05 } is required

### **Example:**

N4\*Philadelphia\*PA\*19123\*US~

### **PO1 - Baseline Item Data**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 350 | Assigned Identification | AN | O | 1 | 20 |
| Comment:  | **PO Line Item ID**  |
| **02** | 330 | Quantity Ordered | R | C | 1 | 15 |  |
| Comment:  | **Line Item Quantity**  |
| **03** | 355 | Unit or Basis for Measurement Code | ID | O | 2 | 2 |  |
| Comment:  | **UOM**  |
| Code: Any Value  |  |  |  |  |  |  |
| **04** | 212 | Unit Price | R | C | 1 | 17 |  |
| Comment:  | **Unit Price**  |
| **06** | 235 | Product/Service ID Qualifier | ID | C | 2 | 2 |  |
|

| **Code** | **Code Description** |
| --- | --- |
| BP  | ODL's (Buyer's) Item Number |

 |  |  |  |  |  |  |
| **07** | 234 | Product/Service ID | AN | M | 1 | 48 |  |
| Comment:  | **ODL Buyer Item (Part) Number**  |

###### Syntax Notes:

* C0302 - Conditional Condition. If PO1\_03 is present, then all of { PO1\_02 } is required
* C0504 - Conditional Condition. If PO1\_05 is present, then all of { PO1\_04 } is required
* P0607 - Paired Condition. If one is present, then all of { PO1\_06, PO1\_07 } is required

### **Example:**

### PO1\*2\*145\*EA\*1.48\*\*BP\*10038020~

### **PID - Product/Item Description**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 349 | Item Description Type | ID | M | 1 | 1 |
|

| **Code** | **Code Description** |
| --- | --- |
| F  | Free-form |

 |  |  |  |  |  |
| **05** | 352 | Description | AN | C | 1 | 80 |
| Comment:  | **Product Description**  |

###### Syntax Notes:

* C0403 - Conditional Condition. If PID\_04 is present, then all of { PID\_03 } is required
* R0405 - Required Condition. At least one of { PID\_04, PID\_05 } is required

### **Example:**

### PID\*F\*\*\*\*Glass Panel, 10.000 x 10.000 x 0.125 Rectangle, Clear-Clear, Tempered~

### **DTM - Date/Time Reference**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 374 | Date/Time Qualifier | ID | M | 3 | 3 |
|

| **Code** | **Code Description** |
| --- | --- |
| 002 011  | Requested delivery date Requested ship date |

 |  |  |  |  |  |
| **02** | 373 | Date | DT | O | 8 | 8 |
| Comment:  | **Requested Delivery Date (YYYYMMDD)**  |
| **03** | 337 | Time | TM | C | 4 | 8 |  |
| Comment:  | **Requested Delivery Time (HHMM)**  |

###### Syntax Notes:

* R020305 - Required Condition. At least one of { DTM\_02, DTM\_03, DTM\_05 } is required
* C0403 - Conditional Condition. If DTM\_04 is present, then all of { DTM\_03 } is required
* P0506 - Paired Condition. If one is present, then all of { DTM\_05, DTM\_06 } is required

### **Example:**

### DTM\*002\*20230424\*0000~

### **CTT - Transaction Totals**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 354 | Number of Line Items | N0 | M | 1 | 6 |
| Comment:  | **Number of PO Line Items**  |

###### Syntax Notes:

* P0304 - Paired Condition. If one is present, then all of { CTT\_03, CTT\_04 } is required
* P0506 - Paired Condition. If one is present, then all of { CTT\_05, CTT\_06 } is required

### **Example:**

### CTT\*5~

### **SE - Transaction Set Trailer**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 96 | Number of Included Segments | N0 | M | 1 | 10 |
| Comment:  | **Number of Segments**  |
| **02** | 329 | Transaction Set Control Number | AN | M | 4 | 9 |  |
| Comment:  | **Transaction Set Control Number = Matches ST Control Number**  |

### **Example:**

### SE\*349\*487704952~

### **GE - GE \_ Functional Group Trailer**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | 97 | Number of Transaction Sets Included | N0 | M | 1 | 6 |
| Comment:  | **Number of Transaction Sets (ST/SE pairs)**  |
| **02** | 28 | Group Control Number | N0 | M | 1 | 9 |  |
| Comment:  | **Group Control Number - Matches GS Control Number**  |

### **Example:**

### GE\*1\*620202948~

### **IEA - IEA \_ Interchange Control Trailer**

| **Sequence** | **Data Element Number** | **Data Element Name** | **Data Element Type** | **Requirement** | **Minimum Length** | **Maximum Length** |
| --- | --- | --- | --- | --- | --- | --- |
| **01** | I16 | Number of Included Functional Groups | N0 | M | 1 | 5 |
| Comment:  | **Number of Functional Groups - GS/GE Pair**  |
| **02** | I12 | Interchange Control Number | N0 | M | 9 | 9 |  |
| Comment:  | **Matches ISA Control Number**  |

### **Example:**

IEA\*1\*315435349~