



**FILE LAYOUT**  
**FOR**  
**850 EDI TRANSACTION**  
**(INBOUND)**  
**VERSION 4010**

**OVERVIEW**

**PURPOSE OF TRANSACTION** – Inbound (Trading Partner to Hubbell) Purchase Order

**VERSION** – Version 1

**SUPPLIER** – Hubbell Incorporated  
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**TECHNICAL CONTACT** – Hubbell Service Desk 1-800-HUBBELL

**APPLICABLE STANDARDS** – ANSI X.12, Versions 3060 – 5010  
Electro-Industry EDI-Pro

**VERSION CONTROL**

Date of Change	Segment Changed	Element Changed	Position Number	DESCRIPTION OF CHANGE

**850 LAYOUT**

**HEADER**

	ENVELOPE AREA
ISA	INTERCHANGE CONTROL HEADER
GS	FUNCTIONAL GROUP HEADER
	HEADER AREA
ST	TRANSACTION SET HEADER
BEG	BEGINNING RECORD
REF	REFERENCE IDENTIFICATION
PER	ADMINISTRATIVE COMMUNICATIONS CONTACT
FOB	F.O.B. RELATED INTRUCTIONS
SAC	SERVICE, PROMOTION, ALLOWANCE, OR CHARGE INFORMATION
DTM	DATE/TIME STAMP
TD5	CARRIER DETAILS (ROUTING SEQUENCE)
MAN	MARKS AND NUMBERS - ENTIRE SHIPMENT
N9	REFERENCE IDENTIFICATION
DTM	DATE/TIME STAMP
MSG	MESSAGE TEXT
N1	NAME

N2	ADDITIONAL NAME
N3	ADDRESS
N4	CITY, STATE, ZIP
DETAIL AREA	
PO1	LINE ITEM / CHANGE DATA
PID	PRODUCT / ITEM DESCRIPTION
SAC	SERVICE, PROMOTION, ALLOWANCE, OR CHARGE INFORMATION
SDQ	DESTINATION QUANTITY
REF	REFERENCE NUMBERS
DTM	DATE/TIME REFERENCE
SCH	LINE ITEM SCHEDULE
MAN	MARKS AND NUMBERS - LINE ITEM ONLY
SUMMARY AREA	
CTT	TRANSACTION TOTALS
AMT	MONETARY AMOUNT
SE	TRANSACTION SET TRAILER
ENVELOPE AREA	
GE	GROUP SET TRAILER

IEA	INTERCHANGE TRAILER

**‘ISA’- INTERCHANGE CONTROL HEADER**

**PURPOSE:** To indicate the start of an EDI interchange and assign a control number

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
ISA01	AUTHORIZATION INFORMATION QUALIFIER	M	ID	2/2	
ISA02	AUTHORIZATION INFORMATION	M	AN	10/10	
ISA03	SECURITY INFORMATION QUALIFIER	M	ID	2/2	
ISA04	SECURITY INFORMATION	M	AN	10/10	
ISA05	INTERCHANGE ID QUALIFIER	M	ID	2/2	
ISA06	INTERCHANGE SENDER ID	M	AN	15/15	
ISA07	INTERCHANGE ID QUALIFIER	M	ID	2/2	
ISA08	INTERCHANGE RECEIVER ID	M	AN	15/15	
ISA09	INTERCHANGE DATE	M	DT	6/6	
ISA10	INTERCHANGE TIME	M	TM	4/4	
ISA11	INTERCHANGE CONTROL STANDARDS IDENTIFIER	M	ID	1/1	
ISA12	INTERCHANGE CONTROL VERSION NUMBER	M	ID	5/5	
ISA13	INTERCHANGE CONTROL NUMBER	M	N0	9/9	
ISA14	ACKNOWLEDGEMENT REQUESTED	M	ID	1/1	
ISA15	USAGE INDICATOR	M	ID	1/1	
ISA16	COMPONENT ELEMENT SEPARATOR	M		1/1	

**'GS'- INTERCHANGE CONTROL HEADER**

**PURPOSE:** To indicate the start of an EDI functional group and assign a control number.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
GS01	FUNCTIONAL IDENTIFIER CODE	M	ID	2/2	
GS02	APPLICATION SENDERS CODE	M	AN	2/15	
GS03	APPLICATION RECEIVERS CODE	M	AN	2/15	See division conversion sheet below
GS04	DATE	M	DT	8/8	
GS05	TIME	M	TM	4/8	
GS06	GROUP CONTROL NUMBER	M	N0	1/9	
GS07	RESPONSIBLE AGENCY CODE	M	ID	1/2	
GS08	VERSION IDENTIFIER CODE	M	AN	1/12	



**'ST'- TRANSACTION HEADER**

**PURPOSE:** To indicate the start of an EDI transaction set group and assign a control number.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
ST01	TRANS. SET I.D. NUMBER	M	ID	3/3	850
ST02	TRANS. SET CONTROL NUMBER	M	AN	4/9	

**'BEG'- BEGINNING RECORD**

**PURPOSE:** To indicate the beginning segment for a Purchase Order.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
BEG01	TRANSACTION SET PURPOSE CODE	M	ID	2/2	
BEG02	PURCHASE ORDER TYPE CODE	M	ID	2/2	
BEG03	PURCHASE ORDER NUMBER	M	AN	1/22	
BEG04	RELEASE NUMBER	O	AN	1/30	
BEG05	PURCHASE ORDER DATE	M	DT	8/8	

**'REF'- REFERENCE NUMBERS**

**PURPOSE:** To specify identifying information.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
REF01	REFERENCE ID QUALIFIER	O	ID	2/3	IA – INTERNAL VENDOR NUMBER LT - LOT NUMBER CT – CONTRACT NUMBER F9 – FREIGHT NUMBER Q1 – QUOTE NUMBER PR - QUOTE NUMBER VN, VR – VENDOR ORDER NUMBER
REF02	REFERENCE IDENTIFICATION	O	AN	1/30	

**'PER'- ADMINISTRATIVE COMMUNICATIONS CONTACT**

**PURPOSE:** To identify a person(office) to whom administration communications should be directed.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
PER01	CONTACT FUNCTION CODE	O	ID	2/2	BD - BUYER NAME OR DEPT OC - ORDER CONTACT
PER02	NAME	O	AN	1/60	

**'FOB'- F.O.B. RELATED INSTRUCTIONS**

**PURPOSE:** To specify transportation instructions relating to shipment.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
FOB01	SHIPMENT METHOD OF PAYMENT	O	ID	2/2	CC - COLLECT PC - PREPAID BUT CHARGED TO CUSTOMER PP - PREPAID BY SELLER PU - PICKUP
FOB02	LOCATION QUALIFIER	O	ID	1/ 2	DE - DESTINATION (SHIPPING) OR - ORIGIN (SHIPPING POINT) TP specs require that all available X12 codes are valid
FOB03	DESCRIPTION	O	AN	1/80	
FOB04	TRANSPORTATION TERMS QUALIFIER CODE	O	ID	2/2	02 – TRADE TERMS CODE

**'SAC'- SERVICE, PROMOTION, ALLOWANCE, OR CHARGE**

**PURPOSE:** To specify amount or percent, of a service, promotion, allowance or charge.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
SAC02	ALLOWANCE/CHARGE INDICATOR	O	ID	4/4	C – CHARGE
SAC07	PERCENT	O	R	1/6	

**'DTM'- DATE/TIME REFERENCE**

**PURPOSE:** To specify pertinent dates and times.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
DTM01	DATE/TIME QUALIFIER	M	ID	3/3	
DTM02	DATE	M	DT	8/8	

**'TD5'- CARRIER DETAILS (ROUTING SEQUENCE/TRANSIT TIME)**

**PURPOSE:** To specify the carrier, sequence of routing and to provide transit time information.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
TD501	ROUTING SEQUENCE CODE	O	ID	1/ 2	
TD502	IDENTIFICATION CODE QUALIFIER	O	ID	1/ 2	2 - SCAC
TD503	IDENTIFICATION CODE	O	AN	2/80	
TD504	TRANSPORTATION METHOD/TYPE CODE	O	ID	1/ 2	
TD505	ROUTING	O	AN	1/35	



**'MAN' - MARKS AND NUMBERS'**

**PURPOSE:** To specify the carrier, sequence of routing and to provide transit time information.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
MAN02	MARKS AND NUMBERS	O	AN	1/48	

**'N9' - REFERENCE IDENTIFICATION**

**PURPOSE:** To specify identifying information.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
N901	REFERENCE IDENTIFICATION QUALIFIER	O	ID	2/3	
N903	FREE-FORM DESCRIPTION	O	AN	1/45	

**'DTM'- DATE/TIME REFERENCE**

**PURPOSE:** To specify pertinent dates and times.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
DTM01	DATE/TIME QUALIFIER	M	ID	3/3	
DTM02	DATE	M	DT	8/8	

**'MSG' - MESSAGE TEXT**

**PURPOSE:** To provide free form format that allows the transmission of text information.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
MSG01	FREE FORM MESSAGE TEXT	O	AN	1/264	

**'N1'- NAME**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
N101	ENTITY IDENTIFIER QUALIFIER	M	ID	2/3	BT - BILL TO BY - BUYING PARTY ST - SHIP TO VN - VENDOR
N102	NAME	M	AN	1/60	
N103	IDENTIFICATION CODE QUALIFIER	O	ID	1 /2	
N104	IDENTIFICATION CODE	O	AN	2/80	

**'N2'- ADDITIONAL NAME INFORMATION**

**PURPOSE:** To specify additional names.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
N201	NAME	O	AN	1/60	
N202	NAME	O	AN	1/60	

**'N3'- ADDRESS INFORMATION**

**PURPOSE:** To specify the location of the named party.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
N301	ADDRESS LINE 1	O	AN	1/55	
N302	ADDRESS LINE 2	O	AN	1/55	

**'N4'- GEOGRAPHIC LOCATION**

**PURPOSE:** To specify the geographic place of the named party.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
N401	CITY	O	AN	2/30	
N402	STATE	O	ID	2/2	
N403	ZIP CODE	O	ID	3/15	



**'PO1'- PURCHASE ORDER DETAIL LINE**

**PURPOSE:** To specify basic line item data.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
PO101	ASSIGNED IDENTIFIICATION	M	AN	1/30	
PO102	QUANTITY ORDERED	M	R	1/15	
PO103	UNIT OF MEASUREMENT CODE	M	ID	2/2	
PO104	UNIT PRICE	M	R	1/17	
PO105	BASIS OF UNIT PRICE	M	ID	2/2	
PO106	PRODUCT/SERVICE ID QUALIFIER	M	ID	2/2	VC – VENDORS CATALOG PART NUMBER UP – UPC NUMBER CB – CUSTOMERS PART NUMBER
PO107	PRODUCT/SERVICE ID	M	AN	1/48	
PO108	PRODUCT/SERVICE ID QUALIFIER	O	ID	2/2	
PO109	PRODUCT/SERVICE ID	O	AN	1/48	
PO110	PRODUCT/SERVICE ID QUALIFIER	O	ID	2/2	
PO111	PRODUCT/SERVICE ID	O	AN	1/48	
PO112	PRODUCT/SERVICE ID QUALIFIER	O	ID	2/2	
PO113	PRODUCT/SERVICE ID	O	AN	1/48	

**'PID' - ITEM DESCRIPTION**

**PURPOSE:** To describe product in free form format.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
PID01	ITEM DESCRIPTION TYPE	M	ID	1/1	F - FREE FORM
PID05	DESCRIPTION	M	AN	1/80	

**‘SAC’ - SERVICE, PROMOTION, ALLOWANCE, OR CHARGE**

**PURPOSE:** To identify/specify amount or percent, of a service, promotion, allowance, or charge.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
SAC02	ALLOWANCE/CHARGE INDICATOR	O	ID	4/4	C – CHARGE
SAC07	PERCENT	O	R	1/6	

**'SDQ' - DESTINATION QUANTITY**

**PURPOSE:** To identify/specify amount or percent, of a service, promotion, allowance, or charge.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
SDQ01	UNIT OF MEASURE	O	ID	2/2	
SDQ02	ID CODE QUALIFIER	O	ID	1/ 2	
SDQ03	ID CODE	O	AN	2/80	
SDQ04	QUANTITY	O	R	1/15	
SDQ05	ID CODE	O	AN	2/80	
SDQ06	QUANTITY	O	R	1/15	
SDQ07	ID CODE	O	AN	2/80	
SDQ08	QUANTITY	O	R	1/15	
SDQ09	ID CODE	O	AN	2/80	
SDQ10	QUANTITY	O	R	1/15	
SDQ11	ID CODE	O	AN	2/80	
SDQ12	QUANTITY	O	R	1/15	
SDQ13	ID CODE	O	AN	2/80	
SDQ14	QUANTITY	O	R	1/15	
SDQ15	ID CODE	O	AN	2/80	
SDQ16	QUANTITY	O	R	1/15	
SDQ17	ID CODE	O	AN	2/80	
SDQ18	QUANTITY	O	R	1/15	
SDQ19	ID CODE	O	AN	2/80	
SDQ20	QUANTITY	O	R	1/15	
SDQ21	ID CODE	O	AN	2/80	
SDQ22	QUANTITY	O	R	1/15	
SDQ23	LOCATION IDENTIFIER	O	AN	1/30	

**'REF'- REFERENCE NUMBERS**

**PURPOSE:** To specify identifying information.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
REF01	REFERENCE ID QUALIFIER	O	ID	2/3	LT - LOT NUMBER PR - QUOTE NUMBER
REF02	REFERENCE IDENTIFICATION	O	AN	1/30	

**'DTM'- DATE/TIME REFERENCE**

**PURPOSE:** To specify pertinent dates and times.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
DTM01	DATE/TIME QUALIFIER	M	ID	3/3	
DTM02	DATE	M	DT	8/8	

**'SCH'- LINE ITEM SCHEDULE**

**PURPOSE:** To specify the data for scheduling a specific line-item.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
SCH01	QUANTITY	O	R	1/15	
SCH02	UNIT OF MEASUREMENT CODE	O	ID	2/2	
SCH05	DATE/TIME QUALIFIER	O	ID	3/3	
SCH06	DATE	O	DT	8/8	

**‘MAN’ – MARKS AND NUMBERS**

**PURPOSE:** To indicate identifying marks and numbers for shipping containers.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
MAN01	MARKS AND NUMBERS QUALIFIER	O	ID	1/ 2	
MAN02	MARKS AND NUMBERS	O	AN	1/48	



**'CTT' - TRANSACTION TOTALS**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
CTT01	NUMBER OF LINE ITEMS	M	N0	1/6	
CCT02	HASH TOTALS (TOTAL QTY ORDERED)	M	R	1/10	

**'SE' - TRANSACTION SET TRAILER**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
SE01	NUMBER OF INCLUDED SEGMENTS	M	N0	1/10	
SE02	TRANSACTION SET CONTROL NBR	M	AN	4/9	

**'GE' - FUNCTIONAL GROUP CONTROL TRAILER**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
GE01	NUMBER OF INCLUDED FUNCTIONAL GROUPS	M	N0	1/6	
GE02	GROUP CONTROL NBR	M	N0	1/9	

**'IEA' - INTERCHANGE CONTROL TRAILER**

**PURPOSE:** To indicate the end of an interchange and provide control number information.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
IEA01	NUMBER OF INCLUDED FUNCTIONAL GROUPS	M	N0	1/5	
IEA02	INTERCHANGE CONTROL NBR	M	N0	9/9	

**Hubbell Divisional Conversion Factors**

Hubbell Division	Divisional DUNS Number
Hubbell Power Systems (all divisions)	048265974
Bryant Electric	001183078
Premise Wiring	615975620
Wiring Device Kellems	067068759
Building Automation	185308095
Hubbell Canada	200321057
Raco-Bell	005105994
Wiegmann	006302764
Killark Electric	006278261
Hubbell Lighting (except Progress)	058913294
Progress Lighting	188168124
Hipotronics	002015030
GAI-Tronics	002324473
Pulsecom	783691413
ICD - Industrial Controls Division	188176499
Gleason	151871597