



**FILE LAYOUT**  
**FOR**  
**856 EDI TRANSACTION**  
**(OUTBOUND)**  
**DELIVERY BASED**  
**VERSION 4010**

## **OVERVIEW**

**PURPOSE OF TRANSACTION** – Outbound (Hubbell to Trading Partner) Delivery Based Advance Ship Notice

**VERSION** – Version 1

**SUPPLIER** – Hubbell Incorporated  
584 Derby Milford Road  
Orange, CT 06477  
1-800-HUBBELL (482-2355)

**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

**856 LAYOUT**

**HEADER**

	ENVELOPE AREA
ISA	INTERCHANGE CONTROL HEADER
GS	FUNCTIONAL GROUP HEADER
	HIERARCHICAL LEVELS
ST	TRANSACTION SET HEADER
BSN	BEGINNING SEGMENT FOR SHIP NOTICE
HL	HIERARCHICAL LEVEL (SHIPMENT LEVEL)
TD1	CARRIER DETAILS - QUANTITY AND WEIGHT
TD5	CARRIER DETAILS (ROUTING SEQUENCE)
REF	REFERENCE IDENTIFICATION
MAN	MARKS AND NUMBERS - ENTIRE SHIPMENT
DTM	DATE/TIME STAMP
FOB	F.O.B. RELATED INSTRUCTIONS
N1	NAME
N2	ADDITIONAL NAME
N3	ADDRESS
N4	CITY, STATE, ZIP
HL	HIERARCHICAL LEVEL (ORDER LEVEL)
PRF	PO REFERENCE
TD5	CARRIER DETAILS (ROUTING SEQUENCE)

MAN	MARKS AND NUMBERS - ENTIRE SHIPMENT
DTM	DATE/TIME STAMP
HL	HIERARCHICAL LEVEL (PACK LEVEL)
MAN	MARKS AND NUMBERS - ENTIRE SHIPMENT
HL	HIERARCHICAL LEVEL (ITEM LEVEL)
LIN	ITEM IDENTIFICATION
SN1	ITEM DETAIL (Line Item Detail Relative To Shipment)
PO4	ITEM PHYSICAL DETAILS
PID	PRODUCT/ITEM DESCRIPTION
CLD	LOAD DETAIL
MAN	MARKS AND NUMBERS
DTM	DATE/TIME STAMP
SUMMARY AREA	
CTT	TRANSACTION TOTALS
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	

**'ISA' - 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	See division conversion sheet below
GS03	APPLICATION RECEIVERS CODE	M	AN	2/15	
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	856
ST02	TRANS. SET CONTROL NUMBER	M	AN	4/9	



**'BSN'- BEGINNING RECORD FOR 856 ASN**

**PURPOSE:** To identify the beginning of the advance ship notification transaction set.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
BSN01	TRANSACTION SET PURPOSE CODE	M	ID	2/2	
BSN02	SHIPMENT IDENTIFICATION	M	AN	2/30	
BSN03	DATE CREATED	M	DT	8/8	
BSN04	TIME CREATED	M	TM	4/8	
BSN05	HIERARCHICAL STRUCTURE CODE	O	ID	4/4	0001 – PICK AND PACK (SHIPMENT, ORDER, PACK, ITEM) 0002 - STANDARD CARTON PACK (SHIPMENT, ORDER, ITEM, PACK)

**'HL' - HIERARCHICAL LEVEL: (SHIPMENT)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
HL01	HIERARCHICAL ID NUMBER	M	AN	1/12	ASCENDING SEQUENCE NUMBER BEGINS WITH 1 AND INCREMENTS BY 1
HL02	HIERARCHICAL PARENT ID NUMBER	O	AN	1/12	
HL03	HIERARCHICAL LEVEL CODE	M	ID	1/ 2	S – SHIPMENT LOOP
HL04	HIERARCHICAL CHILD CODE	O	ID	1/1	

**'TD1'- CARRIER DETAILS: (SHIPMENT)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
TD101	PACKAGING CODE	O	AN	3/5	
TD102	LADING QUANTITY	O	N0	1/7	
TD106	WEIGHT QUALIFER	O	ID	1/ 2	
TD107	WEIGHT	O	R	1/10	
TD108	UNIT OF MEASURE	O	ID	2/2	

**'TD5'- CARRIER DETAILS: (SHIPMENT)**

**PURPOSE:** To specify the carrier, sequence and 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	
TD503	IDENTIFICATION CODE	O	AN	2/80	
TD504	TRANSPORTATION METHOD/TYPE CODE	O	ID	1/ 2	
TD505	ROUTING	O	AN	1/35	
TD506	SHIP/ORDER STATUS CODE		ID	2/2	BP – PARTIAL SHIPMENT – BACK ORDER CC – SHIPMENT COMPLETE PR – PARTIAL SHIPMENT

**'REF'- REFERENCE NUMBERS: (SHIPMENT)**

**PURPOSE:** To specify identifying information.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
REF01	REFERENCE ID QUALIFIER	O	ID	2/3	
REF02	REFERENCE IDENTIFICATION	O	AN	1/30	

**'MAN' - MARKS AND NUMBERS: (SHIPMENT)**

**PURPOSE:** To identify marks and numbers for shipping containers.

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

**'DTM'- DATE/TIME REFERENCE: (SHIPMENT)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
DTM01	DATE/TIME QUALIFIER	M	ID	3/3	011 - SHIP DATE 068 – CURRENT SHIP SCHEDULE
DTM02	DATE	M	DT	8/8	

**'FOB'- F.O.B. RELATED INSTRUCTIONS: (SHIPMENT)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
FOB01	SHIPMENT METHOD OF PAYMENT	O	ID	2/2	



**'N1' - NAME: (SHIPMENT)**

**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 SF - SHIP FROM ST - SHIP TO
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: (SHIPMENT)**

**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: (SHIPMENT)**

**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: (SHIPMENT)**

**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	

**'HL' - HIERARCHICAL LEVEL: (ORDER)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
HL01	HIERARCHICAL ID NUMBER	M	AN	1/12	ASCENDING SEQUENCE NUMBER BEGINS WITH 1 AND INCREMENTS BY 1
HL02	HIERARCHICAL PARENT ID NUMBER	O	AN	1/12	
HL03	HIERARCHICAL LEVEL CODE	M	ID	1/ 2	O – ORDER LOOP
HL04	HIERARCHICAL CHILD CODE	O	ID	1/1	

**'PRF'- PURCHASE ORDER REFERENCE: (ORDER)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
PRF01	PO NUMBER	M	AN	1/12	
PRF04	PO DATE	O	AN	1/12	

**'TDS' - TOTAL MONETARY AMOUNTIONS: (ORDER)**

**PURPOSE:** To specify total invoice discounts and amounts.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
TDS01	TOTAL INVOICE AMOUNT	M	N2	1/15	
TDS02	AMOUNT SUBJECT TO TERMS DISCOUNT	O	N2	1/15	
TDS03	TOTAL DISCOUNT AMOUNT		N2	1/15	
TD504	TRANSPORTATION METHOD/TYPE CODE	O	ID	1/ 2	
TD505	ROUTING	O	AN	1/35	
TD506	SHIP/ORDER STATUS CODE		ID	2/2	BP – PARTIAL SHIPMENT – BACK ORDER CC – SHIPMENT COMPLETE PR – PARTIAL SHIPMENT

**'MAN' - MARKS AND NUMBERS: (ORDER)**

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

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



**'DTM'- DATE/TIME REFERENCE: (ORDER)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
DTM01	DATE/TIME QUALIFIER	M	ID	3/3	011 - SHIP DATE 068 – CURRENT SHIP SCHEDULE
DTM02	DATE	M	DT	8/8	

**'HL' - HIERARCHICAL LEVEL: (PACK)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
HL01	HIERARCHICAL ID NUMBER	M	AN	1/12	ASCENDING SEQUENCE NUMBER BEGINS WITH 1 AND INCREMENTS BY 1
HL02	HIERARCHICAL PARENT ID NUMBER	O	AN	1/12	
HL03	HIERARCHICAL LEVEL CODE	M	ID	1/ 2	P – PACKLOOP
HL04	HIERARCHICAL CHILD CODE	O	ID	1/1	

**'MAN' - MARKS AND NUMBERS: (PACK)**

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

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

**'HL' - HIERARCHICAL LEVEL: (ITEM)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
HL01	HIERARCHICAL ID NUMBER	M	AN	1/12	ASCENDING SEQUENCE NUMBER BEGINS WITH 1 AND INCREMENTS BY 1
HL02	HIERARCHICAL PARENT ID NUMBER	O	AN	1/12	
HL03	HIERARCHICAL LEVEL CODE	M	ID	1/ 2	I – ITEM LOOP
HL04	HIERARCHICAL CHILD CODE	O	ID	1/1	

**'LIN' - LINE ITEM DETAIL: (ITEM)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
LIN01	ASSIGNED IDENTIFIICATION	M	AN	1/12	
LIN02	PRODUCT/SERVICE ID QUALIFIER	M	ID	1/ 2	VC – VENDORS CATALOG PART NUMBER UP – UPC NUMBER CB – CUSTOMERS PART NUMBER
LIN03	PRODUCT/SERVICE ID	M	AN	1/48	
LIN04	PRODUCT/SERVICE ID QUALIFIER	O	ID	1/ 2	
LIN05	PRODUCT/SERVICE ID	O	AN	1/48	
LIN06	PRODUCT/SERVICE ID QUALIFIER	O	ID	1/ 2	
LIN07	PRODUCT/SERVICE ID	O	AN	1/48	
LIN08	PRODUCT/SERVICE ID QUALIFIER	O	ID	1/ 2	
LIN09	PRODUCT/SERVICE ID	O	AN	1/48	

**'SN1' - LINE ITEM DETAIL: (ITEM)**

**PURPOSE:** To specify line item detail information relative to the shipment.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
SN101	ASSIGNED IDENTIFIICATION	O	AN	1/20	
SN102	NUMBER OF UNITS SHIPPED	M	R	1/10	
SN103	UNIT OF MEASUREMENT CODE	M	ID	2/2	
SN104	QUANTITY SHIPPED TO DATE	O	R	1/15	
SN105	QUANTITY ORDERED	O	R	1/15	
SN106	UNIT OF MEASUREMENT CODE	O	ID	2/2	
SN108	LINE ITEM STATUS CODE	O	ID	2/2	

**'P04' - ITEM PHYSICAL DETAILS: (ITEM)**

**PURPOSE:** To specify pricing information.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
PO401	PACK	O	N0	1/6	
PO402	SIZE	O	R	1/8	
PO403	UNIT OF MEASUREMENT CODE	O	ID	2/2	

**'PID' - ITEM DESCRIPTION: (ITEM)**

**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	



**'CLD'- LOAD DETAIL: (ITEM)**

**PURPOSE:** To specify transportation details for the transaction.

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
CLD01	NUMBER OF LOADS	M	N0	1/15	
CLD02	NUMBER OF UNITS SHIPPED	M	R	1/10	
CLD03	PACKAGING CODE	O	AN	3/5	
CLD04	SIZE	O	R	1/8	
CLD05	UNIT OF MEASURE CODE	O	ID	2/2	

**'MAN' - MARKS AND NUMBERS: (ITEM)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
MAN01	MARKS & NUMBERS QUALIFIER	M	ID	1/ 2	GM – UCC-128 SERIAL SHIPPING CONTAINER CODE FORMAT L – LINE ITEM ONLY S - ENTIRE SHIPMENT
MAN02	MARKS AND NUMBERS	O	AN	1/48	

**'DTM'- DATE/TIME REFERENCE: (ITEM)**

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

Segment ID	DESCRIPTION	USAGE	TYPE	CHAR	VALUES
DTM01	DATE/TIME QUALIFIER	M	ID	3/3	011 - SHIP DATE 068 – CURRENT SHIP SCHEDULE
DTM02	DATE	M	DT	8/8	

**'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