



Leading Optical Innovations

OFS EDI Implementation Guide

Revision 1.2

December 9, 2002

PURCHASE ORDER (850) - 003020

ABOUT THIS DOCUMENT:

FORMAT: 1. *This document depicts Purchase Orders generated from OFS. Only the fields OFS will transmit are listed. The "RQMT" (Requirement) column indicates an * when OFS will always populate that field. (If the segment level has an *, then that segment will always be provided, and fields within it which will always be populated have an *. If the segment level does not have an *, that segment will not always be provided, but when it is, the fields with * will always be populated.)*

2. *Interpretations in parentheses following values are either OFS Procurement Organization's interpretation or directly from ANSI.*

SAMPLE: 1. *Sample Purchase Orders follow the Notes section.*

Summary:

Please look for new Freight Bill to Partner "PF" under N1 through N4 segment in red.

PURCHASE ORDER (850) – 003020

FIELD	RQMT	DESCRIPTION	VALUES	TYPE	SIZE	NOTES
ST * TRANSACTION SET HEADER						
ST01	*	TRANSACTION SET ID	'850'	ID	3/3	
ST02	*	TRANSACTION SET CONTRL NUM		AN	4/9	
BEG * PO BEGINNING SEGMENT						
BEG01	*	TRANSACTION SET PURPOSE	'00'=Original	ID	2/2	
BEG02	*	PURCHASE ORDER TYPE	'SA'=Standalone	ID	2/2	
BEG03	*	PURCHASE ORDER NUMBER		AN	1/22	
BEG04		RELEASE NUMBER		AN	1/30	
BEG05	*	PURCHASE ORDER DATE		DT	6/6	
BEG06		CONTRACT NUMBER		AN	1/30	
NTE NOTE/SPECIAL INSTRUCTIONS						
NTE01	*	NOTE REFERENCE CODE	'GEN'	ID	3/3	
NTE02	*	FREE FORM MESSAGE		AN	1/60	
TAX TAX REFERENCE						
TAX01		TAX ID NUMBER		AN	1/20	
TAX12		TAX EXEMPT CODE		ID	1/1	
FOB FOB RELATED INSTRUCTIONS						
FOB01	*	SHIPMENT METHOD OF PAYMENT		ID	2/2	
			'CC'=Collect			
			'PP'=Prepaid by Seller			
			'NR'=Non-Revenue			
FOB02	*	LOCATION QUALIFIER	'BS'=Place of Business	ID	1/2	
FOB03		DESCRIPTION		AN	1/80	
SSS SPECIAL SERVICES 1						
SSS01	*	ALLOW/CHRG INDICATOR	'N'=No Allowance/Charge	ID	1/1	
SSS02	*	AGENCY QUAL CODE	'TI'=Telecommunications	ID	2/2	
SSS03	*	SPECIAL SERV CODE	'PB'=Previous Billing	ID	2/10	
SSS07		DESCRIPTION	'TN-3'=B/L Pack/Ship	AN	1/80	
ITA * ALLOWANCE, CHARGE OR SERVICE						
ITA01	*	ALLOW/CHRG INDICATOR	'N'=No Charge	ID	1/1	
ITA02	*	AGENCY QUAL CODE	'TI'=Telecommunications	ID	2/2	
ITA03	*	SPECIAL SERV CODE	'SH'=Special Handling Service	ID	2/10	
ITA04	*	ALLOW/CHRG HANDL CODE	'07'=Optional	ID	2/2	
ITA13	*	DESCRIPTION	'PREMIUM TRANSP. MUST BE AUTHORIZED'	AN	1/80	
ITD * TERMS OF SALE						
ITD01	*	TERMS TYPE CODE	'01'=Basic	ID	2/2	
			'08'=Discount Offered			
ITD02		TERMS BASIS DATE CODE	'3'=Invoice Date	ID	1/2	
ITD03		TERMS DISCOUNT PERCENT		R	1/6	
ITD05		TERMS DISCOUNT DUE DAYS		No	1/3	

PURCHASE ORDER (850) - 003020						
FIELD	RQMT	DESCRIPTION	VALUES	TYPE	SIZE	NOTES
ITD07		TERMS NET DAYS		No	1/3	
ITD10		DEFERRED AMOUNT DUE		N2	1/10	
ITD11		PERCENT OF INVOICE PAYABLE		R	1/5	
ITD12		DESCRIPTION		AN	1/80	
DTM		DATE/TIME REFERENCE				
DTM01	*	DATE/TIME QUALIFIER	'002'=Delivery Requested '055'=Confirmed	ID	3/3	
DTM02	*	DATE		DT	6/6	
TD5		CARRIER				
TD501		ROUTING SEQUENCE CODE	'0', '1', or '2'	ID	1/2	
TD502		IDENTIFICATION CODE QUALIER	'2'	ID	1/2	
TD503		ID CODE (SCAC CODE)		AN	2/17	
TD504		TRANSPORTATION TYPE CODE		ID	1/2	
TD505		ROUTING		AN	1/35	
TD4	*	CARRIER DETAILS				
TD401	*	SPECIAL HANDLE CODE	'DM'=DOMESTIC	ID	2/3	
TD404	*	DESCRIPTION	'LESS THAN 150 LBS USE UPS/RPS'	AN	1/80	
N1		NAME	Revised 12/09/02			
N101	*	ENTITY IDENTIFIER CODE	'BY'=Buyer 'SE'=Seller 'BT'=Bill To 'ST'=Ship To 'PF'='Party To Receive Freight Bill'	ID	2/2	
N103		IDENTIFICATION CODE QUALIFIER	'92'	ID	1/2	
N104		IDENTIFICATION CODE		AN	2/17	
N2		ADDITIONAL NAME				
N201	*	NAME		AN	1/35	
N202		NAME		AN	1/35	
N3		ADDRESS INFORMATION				
N301	*	ADDRESS INFORMATION		AN	1/35	
N302		ADDRESS INFORMATION		AN	1/35	
N4		GEOGRAPHIC LOCATION				
N401		CITY NAME		AN	2/30	
N402		STATE OR PROVINCE		ID	2/2	
N403		POSTAL CODE		ID	3/9	
N404		COUNTRY CODE		ID	2/2	
REF		REFERENCE NUMBERS				
REF01	*	REFERENCE NUMBER QUALIFIER	'EZ'=EDI Agreement 'CP'=PO Document Number	ID	2/2	
REF02	*	REFERENCE NUMBER		AN	1/30	
PER		ADMINISTRATIVE COMM				
PER01	*	CONTACT FUNCTION CODE	'BD'=Buyer 'BI'=Billing 'EX'=Expediter	ID	2/2	

PURCHASE ORDER (850) – 003020						
FIELD	RQMT	DESCRIPTION	VALUES	TYPE	SIZE	NOTES
PER01 (cont'd)						
			'CW'=Confirmed With			
			'TA'=Traffic Administrator			
PER02	*	NAME		AN	1/35	
PER03		COMM NUMBER QUALIFIER	'TE'=Telephone	ID	2/2	
PER04		COMMUNICATIONS NUMBER		AN	1/25	
PO1	*	PURCHASE ORDER BASELINE ITEM				
PO101		ASSIGNED IDENTIFICATION		AN	1/11	
PO102	*	QUANTITY ORDERED		R	1/9	
PO103	*	UNIT OF MEASUREMENT CODE		ID	2/2	
PO104		UNIT PRICE		R	1/14	
PO105	*	BASIS OF UNIT PRICE	'TE' =Each	ID	2/2	
PO106		PRODUCT/SERVICE ID QUAL	'PN'=OFS Part Number	ID	2/2	
PO107		PRODUCT/SERVICE ID		AN	1/30	
PO108		PRODUCT/SERVICE ID QUAL	'VP'=Vendor Part Number	ID	2/2	
PO109		PRODUCT/SERVICE ID		AN	1/30	
PID		PRODUCT/ITEM DESCRIPTION				
PID01	*	ITEM DESC TYPE	'F'=Free Form	ID	1/1	
PID02		PROD/PROCESS CHAR CODE		ID	2/3	
PID03	*	AGENCY QUALIFIER CODE	'TI'=Telecommunications	ID	2/2	
PID04		PRODUCT DESC CODE		AN	1/12	
PID05	*	DESCRIPTION		AN	1/80	
PKG		MARKING, PACKAGING, LOADING				
PKG01	*	ITEM DESC TYPE		ID	1/1	
PKG02	*	PACKAGING CHAR CODE	'67' BAR CODING	ID	1/5	
PKG03	*	AGENCY QUAL CODE	'TI' TELECOMMUNICATIONS	ID	2/2	
PKG04		PACKAGING DESC CODE		AN	1/7	
PKG05	*	DESCRIPTION	BAR CODING INSTRUCTIONS	AN	1/80	
SSS		SPECIAL SERVICES				
SSS01	*	ALLOW/CHRG INDICATOR	'N'=No Allowance/Charge	ID	1/1	
SSS02	*	AGENCY QUAL CODE	'TI'=Telecommunications	ID	2/2	
SSS03	*	SPECIAL SERV CODE	'SH'=Special Handling Service	ID	2/10	
SSS07		DESCRIPTION		AN	1/80	
ITA		ALLOWANCE, CHARGE OR SERVICE				
ITA01	*	ALLOW/CHRG INDICATOR	'C =Charge	ID	1/1	
ITA02	*	AGENCY QUAL CODE	'TI' =Telecommunications	ID	2/2	
ITA04		ALLOW/CHRG HANDL CODE	'02'=Off Invoice	ID	2/2	
			'05'=Charge Paid by Vendor			
			'06'=Charge Paid by Customer			
ITA06		ALLOW/CHRG RATE		R	1/9	
ITA07		ALLOW/CHRG TOTAL AMT		N2	1/9	
ITA08		ALLOW/CHRG % QUALIFIER		ID	1/1	
ITA09		ALLOW/CHRG PERCENT		R	1/6	

PURCHASE ORDER (850) - 003020						
FIELD	RQMT	DESCRIPTION	VALUES	TYPE	SIZE	NOTES
ITA10		ALLOW/CHRG QUANTITY		R	1/19	
ITA11		UNIT/BASIS MEAS CODE		ID	2/2	
ITA12		QUANTITY		R	1/15	
ITA13		DESCRIPTION		AN	1/80	
ITA14	*	SPECIAL CHARGES/ALLOWANCE CODE		ID	3/3	
NTE		NTE/SPECIAL INSTRUCTION	Revised 10/14/02			2
NTE01		NOTE REFERENCE CODE	'GEN'	ID	3/3	
NTE02	*	FREE FORM MESSAGE		AN	1/60	
SCH		LINE ITEM SCHEDULE				
SCH01	*	QUANTITY		R	1/15	
SCH02	*	UNIT OF MEASURE CODE		ID	2/2	
SCH05	*	DATE/TIME QUALIFIER	002'=Delivery Requested on This Date/Time	ID	3/3	
SCH06	*	DATE		DT	6/6	
SCH07		TIME		TM	4/6	
CTT	*	TRANSACTION TOTALS				
CTT01	*	NUMBER OF LINE ITEMS		No	1/6	
CTT02		HASH TOTAL		R	1/10	
SE	*	TRANSACTION SET TRAILER				
SE01	*	NUMBER OF INCLUDED SEGMENTS		No	1/6	
SE02	*	TRANSACTION SET CONTROL NUMBER		AN	4/9	

NOTES

- 1 SSS03 and SSS07 are jointly defined as follows:

SSS03/SSS07

PB/TN-3

DEFINITION

No COD. Include packing list. For transportation purposes, do not declare value. On release value use value resulting in lowest charge. Do not insure shipment unless authorized in writing by OFS. Combine all same day shipments, to same consignee, same carrier, on same B/L (N/A on JIT & rush). List PO #(s) on B/L. comply with packing design.

- 2 Following fields are sent in the NTE segment at the item level:

END_CUST_PO= value
 END_CUST_PO_ITEM=value
 END_CUST_MATL_NUM=value
 SHIP_VIA=value
 LU_CROJD=value
 KTGRD=value

Starting 10/14/02, we will be adding these fields in the NTE segment at the item level:

END_CUST_MATL_TEXT
 LABEL_FORMAT=value
 SHIP_FROM_NAME=value
 PVT_LABEL_PKG_REQD=value
 DRAWING_NBR=value
 DRAWING_ISSUE_NBR=value
 PACKING_SPEC_NBR=value
 PACKING_SPEC_REV_NBR=value
 MASTER_INDEX_NBR=value

PURCHASE ORDER (850) – 003020

SAMPLE PURCHASE ORDER (850) - 003020 (ANSI)

(Shows Segments Used By OFS's Procurement Organization)

ST~850~000000001
BEG~00~SA~4520001298~~~971010
TAX~200~79~03039~3~~~~~1
FOB~CC~BS~SOMERSET NJ
SSS~N~TI~PB~~~~TN-3 PACK/SHIP
ITA~N~TI~SH~07~~~~~PREMIUM TRANSP. MUST BE AUTHORIZED
ITD~01~3~0~~30~~30
DTM~002~971103
TD5~O~2~Z0~X~NO INSTRUCTIONS
TD4~DM~~~~LESS THAN 150 LBS USE UPS
N1~SE~~92~0010000200
REF~EZ~EPA1234
REF~CP~LT-1120 11/96
PER~BD~T. W. EXPEDITER~TE~303-538-2413
N1~BT~OFS~92~COF1
N3~PO BOX 105276
N4~ATLANTA~GA~30348
PER~EX~T. W. EXPEDITER~TE~303-538-2413
N1~PF~Attn: OFS A/P
N2~C/O TMA
N3~PO Box 543
N4~Concord~NC~28025~US
N1~ST~DENPORT SOUTH - SHREVEPORT WORKS~92~LAF1
N3~2929 BAIRD ROAD
N4~SHREVEPORT~LA~711183823
PO1~00001~20~EA~5~TE~PN~123456789
PID~F~~TI~~GREEN WIDGET
ITA~C~TI~~06~~.250~500~~~~EA~~COPY CHARGE~PHC
NTE~GEN~+++ OFS TEST ORDER – DO NOT PROCESS +++
SCH~20~EA~~~002~971103
PO1~00002~30~EA~5~TE~PN~111001223
PID~F~~TI~~RED WIDGET
ITA~C~TI~~06~~2.000~300~~~~~GOLD CHARGE (%)~690
NTE~GEN~ **SHIP VIA THE SPECIFIED CARRIER USING THIS ACCOUNT**
NTE~GEN~ **NUMBER -- 12345**
NTE~GEN~END_CUST_PO=S2702818
NTE~GEN~END_CUST_PO_ITEM=0001
NTE~GEN~END_CUST_MATL_NUM=377170
NTE~GEN~END_CUST_MATL_TEXT= RED WIDGET -- 12345
NTE~GEN~SHIP_VIA=01;FPC; ;THRD05
NTE~GEN~LU_CROJD=10112002
NTE~GEN~LABEL_FORMAT=E10
NTE~GEN~SHIP_FROM_NAME=OFS Fitel LLC
NTE~GEN~PVT_LABEL_PKG_REQD=NO
NTE~GEN~DRAWING_NBR
NTE~GEN~DRAWING_ISSUE_NBR
NTE~GEN~PACKING_SPEC_NBR
NTE~GEN~PACKING_SPEC_REV_NBR
NTE~GEN~MASTER_INDEX_NBR
SCH~30~EA~~~002~971103
CTT~2~50
SE~33~000000001

In this diagram, an '~' is used for the Data Element Separator. This is for readability only. The actual values should be obtained from Interchange Header fields.

PURCHASE ORDER ACKNOWLEDGEMENT (855) - 003020

(ANSI)

ABOUT THIS DOCUMENT:

- USE:**
1. **OFS's Global Procurement Buyer or Buyer/Planner should inform Supplier's Sales or Customer Service organization of the business arrangements for usage. This document is currently used to convey date and quantity information. It is NOT used to convey changes concerning price, part, address, or other information which might require Buyer involvement.**
 2. *Purchase Order Acknowledgments (855) and Purchase Order Change Acknowledgments (865) are processed exactly the same by OFS's system.*
 3. *Purchase Order Number and Line Number are very important fields within this transaction. They are used to match OFS's Procurement data base and they **must exactly match the PO Number and Line Number contained in the 850 Purchase Order.***

- FORMAT:**
1. *All valid ANSI segments, fields and values will be accepted in the 855, however, only the fields used by OFS's Procurement Organization are listed. The "RQMT" (Requirement) column indicates whether a field is Optional or Mandatory per OFS and/or ANSI requirements.*

- SAMPLE:**
1. *Sample Purchase Order Acknowledgments follows the Notes section.*

Summary

- **Where do we want Promise Date** → Please enter promise date in ACK segment under ACK05. If you are one of the vendor that doesn't use ACK segment or have been entering promise date under SCH segment (SCH06) and have not seen any problems, please continue to do that.

ACK05 --> DT, 6/6

- **POA (855) should be sent within 24hrs of the receipt of PO (850)** → If you miss the promise date that you had sent on POA (855), please re-promise (send another 855 which will over-write the existing one). It is very important to re-promise when you cannot meet the promise date, otherwise all re-promises for all past due orders have to be entered manually. Also it reflects lower score on vendor metrics because measured orders are shown past due and without a re-promise date.

PURCHASE ORDER ACKNOWLEDGEMENT (855) - 003020						
FIELD	RQMT	DESCRIPTION	VALUES	TYPE	SIZE	NOTES
ST	M	TRANSACTION SET HEADER				
ST01	M	TRANSACTION SET ID	'855'	ID	3/3	
ST02	M	TRANSACTION SET CONTROL NO.		AN	4/9	
BAK	M	BEGINNING SEGMENT FOR PO ACKNOWLEDGEMENT				
BAK01	M	TRANSACTION SET PURPOSE		ID	2/2	1
BAK02	M	ACKNOWLEDGEMENT PURPOSE	'AC'	ID	2/2	2
BAK03	M	PURCHASE ORDER NUMBER		AN	1/22	
BAK04	M	PURCHASE ORDER DATE		DT	6/6	
BAK05	O	RELEASE NUMBER		AN	1/30	
BAK06	O	CHANGE ORDER SEQUENCE NUMBER		AN	1/30	
BAK07	O	REQUEST REFERENCE NUMBER		AN	1/45	
BAK08	O	SELLER'S ORDER NUMBER		AN	1/30	
PO1	M	PURCHASE ORDER BASELINE ITEM DATA				
PO101	M	PURCHASE ORDER LINE NUMBER		AN	1/11	
PO102	M	QUANTITY ORDERED		R	1/9	
PO103	M	UNIT OF MEASURE CODE		ID	2/2	
SCH	O	LINE ITEM SCHEDULE				
SCH01	M	QUANTITY		R	1/15	
SCH02	M	UNIT OF MEASURE CODE		ID	2/2	
SCH05	M	DATE/TIME QUALIFIER		ID	3/3	3
SCH06	M	DATE		DT	6/6	
SCH07	O	TIME		TM	4/6	
SCH08	O	DATE/TIME QUALIFIER		ID	3/3	3
SCH09	O	DATE		DT	6/6	
SCH10	O	TIME		TM	4/6	
ACK	M	LINE ITEM ACKNOWLEDGEMENT				
ACK01	M	LINE ITEM STATUS CODE		ID	2/2	
ACK02	M	QUANTITY		R	1/15	
ACK03	M	UNIT OF MEASURE CODE		ID	2/2	
ACK04	M	DATE/TIME QUALIFIER		ID	3/3	3
ACK05	M	DATE		DT	6/6	
CTT	M	TRANSACTION TOTALS				
CTT01	M	NUMBER OF LINE ITEMS		No	1/6	
SE	M	TRANSACTION SET TRAILER				
SE01	M	NUMBER OF INCLUDED SEGMENTS		No	1/6	
SE02	M	TRANSACTION SET CONTROL NUMBER		AN	4/9	

PURCHASE ORDER ACKNOWLEDGEMENT (855) - 003020

NOTES

- 1 This field is required by ANSI but is not currently used by OFS.
- 2 'AC' = Acknowledge with Detail and Change. This is the preferred method.
The ACK segment must be present detailing dates and quantities.
- 3 '002' Delivery Requested on this Date/Time
'011' Shipped on this Date/Time
* '017' Estimated Delivery Date/Time (Used in response to most manufacturing Purchase Orders)
'035' Delivered on this Date/Time
'040' Status Date After and Including (Use to show unscheduled quantities)
'041' Status Date Prior and Including (Use to group quantities already shipped)
'067' Current Schedule Delivery Date
* '068' Current Schedule Ship Date (Used in response to most non-manufacturing Purchase Orders)
'069' Promised for Delivery Date/Time
'079' Promised for Shipment Date/Time

*** '017' and '068' are the preferred date/time qualifiers.**

Special Manufacturing Note: If a manufacturing Purchase Order line item cannot be shipped complete, then the entire quantity must be accounted for by showing previously shipped quantities, scheduled quantities, and unscheduled quantities.

For example:

SCH *500*PC*041*950515 (5 shipments of 100 - previously shipped - use current date)
SCH*100*PC*017*950115 (1 shipment of 100 - estimated delivery of 05/15/02)
SCH*500*PC*040*950515 (500 pieces unscheduled - use current date)

PURCHASE ORDER ACKNOWLEDGEMENT (855) - 003020

SAMPLE PURCHASE ORDER ACKNOWLEDGMENT (855) - 003020 (ANSI)
(Shows Segments Used By OFS)

ST*855*002550001
BAK*04*AC*4550000009*020526
PO1*00001*200*PC
ACK*IA*200*PC*017*020619
CTT*1
SE*6*002550001
ST*855*002550002
BAK*04*AC*4550000010*020526
PO1*0002*4*EA
ACK*IA*4*EA*068*020628
CTT*1
SE*6*002550002
ST*855*002550003
BAK*04*AC*4550000011*020526
PO1*00001*10*PC
ACK*IA*3*PC*041*020618
ACK*IA*5*PC*017*020619
ACK*IA*2*PC*040*020618
CTT*1
SE*8*002550003

In this diagram, an '**' is used for the Data Element Separator. This is for readability only. The actual values should be obtained from the Interchange Header fields.

ADVANCE SHIPMENT NOTIFICATION (856) - 003020

ABOUT THIS DOCUMENT:

USE: 1. OFS uses Advance Ship Notices to process Order and Item information for Procurement and receiving.

2. This documentation shows what is necessary to support bar coding in Advance Ship Notices

Highlights are:

- a. Two hierarchical levels (Shipment and Item) are used.
- b. PO numbers are contained in PRF segments in the Item level.

FORMAT: 1. All ANSI valid segments, fields, and values will be accepted for this version. Listed below are fields that are Mandatory by ANSI or fields that will be used by the Procurement system.

2. Where values are listed and not indicated as 'preferred', only those values will be received.

SAMPLE: 1. A sample Ship Notice, tailored for Bar Coding, follows the Notes section.

Summary

- ❖ New segment added as requirement for ASN to carry freight charges: ITA (Allowance/Charge). It is a required segment at the Header (HL-S) level.
- ❖ TD1 segment is now mandatory and should be sent at the Shipment level. Only one TD1 per ASN is allowed, unless multiple containers carry same tracking numbers. TD1 carries the Total weight of a particular shipment (multiple boxes over packed or an individual container)
- ❖ CLD segment is now mandatory and should be sent one CLD per box and one REF-LS per CLD
- ❖ PO4 is the new optional segment added to send Length, Width and Height of each boxes. There is a potential for this to become a requirement in future.

Hot Issues with (856) - 003020

- Tracking #'s → Please send this information in REF Segment.
REF01 → SI (ID 2/2)
REF02 → Tracking number (Alpha Numeric 1/30)

This should transmit right to our customers and solve lot of blocked invoice issues.

- However, you can also send Bill of Lading information through this REF segment.
REF01 → BL, BM, TB, CS etc. (ID 2/2)
REF02 → Number (Alpha Numeric 1/30)
- **The tracking information should be entered at the Shipment level. → When HL03 = 'S' under HL Segment not at the Item level when HL03 = 'I'**
- Only one tracking # should be sent with one ASN (856). If you have multiple tracking numbers for a shipment, either split the data into separate ASN 856 messages each with only 1 tracking number, or send one 856 message but only report the first tracking number in the ASN
- SCAC Code → please send this information in TD5 segment
TD503 → RDWY, UPS etc (AN 2/17)

The ASN must include the following information:

1. Standard Carrier Abbreviated Code (SCAC), if EDI, enter in field TD5 Area 3
2. Carrier's Freight Bill Number, referred to as the PRO number, if EDI, in field TD5 Area 5

ADVANCE SHIPMENT NOTIFICATION (856) - 003020

FIELD	RQMT	DESCRIPTION	VALUES	TYPE	SIZE	NOTES
ST * TRANSACTION SET HEADER						
ST01	*	TRANSACTION SET ID	'856'	ID	3/3	
ST02	*	TRANSACTION SET CONTROL NO.		AN	4/9	
BSN * BEGINNING SEGMENT FOR SHIP NOTICE						
BSN01	*	TRANSACTION SET PURPOSE CODE	('00' preferred)	ID	2/2	
BSN02	*	SHIPMENT IDENTIFICATION		AN	2/30	
BSN03	*	DATE		DT	6/6	
BSN04	*	TIME		TM	4/6	
DTM DATE/TIME REFERENCE						
DTM01	*	DATE/TIME QUALIFIER	'011' (Shipped this Date)	ID	3/3	
DTM02	*	DATE		DT	6/6	1
HL * HIERARCHICAL LEVEL						
HL01	*	HIERARCHICAL ID NUMBER		AN	1/12	
HL02		HIERARCHICAL PARENT ID NUMBER		AN	1/12	
HL03	*	HIERARCHICAL LEVEL CODE	'S' (Shipment) 'I' (Item)	ID	2	2
TD1 * CARRIER DETAILS (QUANTITY AND WEIGHT) 6						
TD101		PACKAGING CODE		AN	5/5	
TD102		LADING QUANTITY		No	1/7	
TD106	*	WEIGHT QUALIFIER	'A3' (Shipper's Weight)	ID	1/2	
TD107	*	WEIGHT		R	1/10	
TD108	*	UNIT OF MEASURE CODE	'LB'	ID	2/2	
TD5 * CARRIER DETAILS (ROUTING SEQUENCE/TRANSIT TIME)						
TD501	*	ROUTING SEQUENCE CODE	('O' preferred)	ID	1/2	
TD502	*	IDENTIFICATION CODE QUALIFIER	'2'	ID	1/2	
TD503	*	IDENTIFICATION CODE	SCAC Code	AN	2/17	
TD504		TRANSPORTATION METHOD/TYPE CODE		ID	1/2	
TD505		ROUTING (ORIGIN CARRIER)		AN	1/35	
TD4 CARRIER DETAILS (SPECIAL HANDLING/HAZARDOUS MATERIALS)						
TD401		SPECIAL HANDLING CODE		ID	2/3	
TD402		HAZARDOUS MATERIAL CODE QUALIFIER		ID	1/1	
TD403		HAZARDOUS MATERIAL CLASS CODE		AN	2/4	
TD404		DESCRIPTION		AN	1/80	
REF * REFERENCE NUMBERS (Shipment Level)						
REF01	*	REFERENCE NUMBER QUALIFIER		ID	2/2	8
REF02	*	REFERENCE NUMBER		AN	1/30	
REF03		DESCRIPTION		AN	1/80	
ITA * Allowance/Charge (Added 7/31/02) Shipment level 9						
ITA01	*	Allowance or Charge Indicator	'C'	ID	1/1	
ITA04	*	Allowance or Charge Method of Handling Code	'ZZ' (Total freight cost In US \$)	ID	2/2	
ITA07	*	Allowance or Charge Total Amount		N2	1/9	
ITA14	*	Special Charge or Allowance Code	'DEL'	ID	3/3	

ADVANCE SHIPMENT NOTIFICATION (856) - 003020						
FIELD	RQMT	DESCRIPTION	VALUES	TYPE	SIZE	NOTES
SN1	*	ITEM DETAIL				
SN101		ASSIGNED IDENTIFICATION		AN	1/11	
SN102	*	NUMBER OF UNITS SHIPPED		R	1/10	
SN103	*	UNIT OF MEASUREMENT CODE		ID	2/2	7
PRF	*	PURCHASE ORDER REFERENCE				3
PRF01	*	PURCHASE ORDER NUMBER		AN	1/22	4
PRF02		RELEASE NUMBER		AN	1/30	
PRF03		CHANGE ORDER SEQUENCE NUMBER		AN	1/8	
PRF04		PURCHASE ORDER DATE		DT	6/6	
PRF05	*	ASSIGNED IDENTIFICATION (Purchase order line number)		AN	1/11	5
CLD	*	LOAD DETAIL				7
CLD01	*	NUMBER OF LOADS		No	1/5	
CLD02	*	NUMBER OF UNITS SHIPPED		R	1/10	
CLD03		PACKAGING CODE		AN	5/5	
CLD04	*	SIZE (WEIGHT)		R	1/8	6
CLD05	*	UNIT OF MEASURE CODE	'LB'	ID	2/2	
REF	*	REFERENCE NUMBERS (Item Level)				
REF01	*	REFERENCE NUMBER QUALIFIER		ID	2/2	8
REF02	*	REFERENCE NUMBER		AN	1/30	
REF03		DESCRIPTION		AN	1/80	
PO4		Item Physical Details (Volumetrics for Container) Added 10/14/02				
PO404	*	PACKAGING CODE		AN	5/5	
PO410	*	LENGTH		R	1/8	
PO411	*	WIDTH		R	1/8	
PO412	*	HEIGHT		AN	5/5	
PO413	*	UNIT OF MEASURE CODE		ID	2/2	
CTT	*	TRANSACTION TOTALS				
CTT01	*	NUMBER OF LINE ITEMS		No	1/6	
SE	*	TRANSACTION SET TRAILER				
SE01	*	NUMBER OF INCLUDED SEGMENTS		No	1/6	
SE02	*	TRANSACTION SET CONTROL NUMBER		AN	4/9	

ADVANCE SHIPMENT NOTIFICATION (856) – 003020

NOTES

- 1 If a Ship Date is not specified in a DTM segment before an HL loop, a DTM with Ship Date must be provided within an HL Loop.
- 2 Use Shipment (S) and Item (I) only. Do not use space or blank. Do not include two Shipment level HLs without at least one intervening Item level HL. Information provided at HL Shipment level applies to all items unless also provided with Item level. In that case, Item level would override Shipment level information.
- 3 Advance Ship Notices require PRF in the Item level.
- 4 Return PO Number to exactly match the PO Number provided in the following fields in BEG03 element of the 850 Purchase Order.
- 5 Item/Line number must be provided to exactly match the Item/Line number provided in the PO101 element of the 850 Purchase Order.
- 6 Gross weight used for Shipping Containers (including overpacked cartons) should be sent on the TD1 segment in the "Shipment" level, while individually labeled packing cartons for each Item should be sent on the CLD segment at the Item Level.
- 7 A CLD segment is required for each individually labeled carton used for a given line item. The CLD should contain the quantity of that line item within the carton, the carton weight, and packaging code. If the optional PO4 segment is also sent, the packaging code used in the CLD and PO4 should match.
- 8 Reference numbers provided in REF02 are posted as Ship Notifications that Procurement and Receiving can view and/or use. Although any ANSI valid value is accepted in REF01, these are the values, which will be used and should be provided, if available.

'BL' Government Bill of Lading
'BM' Bill of Lading Number
'CN' Carrier's Reef No (PRO #)
'PK' Packing List Number
'SI' Shipper's Identifying Number
'VN' Vendor Order Number
'LS' Bar-Coded serial number

- 9 Allowance/charge – Shipment Level ITA segment is to be added at the HL 'S' (shipment level). This will be for the purposes of adding total freight cost for this shipment. (added 7/31/2002).

ADVANCE SHIPMENT NOTIFICATION (856) – 003020

SAMPLE ADVANCE SHIPMENT NOTIFICATION (856) - 003020 (ANSI)

GES - Initial Release

```

ST*856*0001          HEADER-----|
BSN*00*12345*021014*1115          |
DTM*011*021014          |
HL*1**S          --SHIPMENT-----|
TD1*PLT94*1* * A3*71*LB SHIP WEIGHT|
TD1*BOX25*3* * A3*250*LB          |
TD5*O*2*UPSN*M*          |
TD4*HM*D*1234          |
REF*SI*1ZX1237878877687678          |
REF*PK*01234567          PACKING SLIP|
REF*CN*222333444          PRO NUMBER |
ITA*C* * *ZZ* * 5085* * * * *DEL          |
HL*2*1*I          -----ITEM-----|
SN1*01*75*PC |
PRF*4570000001* * *020929*0001          |
CLD*1*50*BOX64*25*LB          PKG/QTY/WT |
REF*LS*110005          BAR CODE |
PO4* * * * BOX64* * * * 24*20*40*IN
CLD*1*25*CTN25*15*LB          PKG/QTY/WT |
REF*LS*110006          BAR CODE |
PO4* * * * CTN25* * * * 24*20*20*IN
HL*3*1*I          -----ITEM-----|
SN1*02*9*PC |
PRF*45700000001*020929*0002 LINE NO. |
CLD*1*1*CTN90*20*LB
REF*LS*110007
CLD*1*3*BOX25*100*LB
REF*LS*110008
CLD*1*3*BOX25*100*LB
REF*LS*110009
CLD*1*2*BOX25*50*LB
REF*LS*110010
CTT*2          HL COUNT of Items---|
SE*29*000001          TRAILER-----|

```

→ 250 is the total weight of 3 'BOX25'

→ New Segment to send Freight charges

→ Always send item # under PRF05

This is a sample unwrapped Ship Notice which includes multiple orders and items.
The Purchase Order Number is contained in the PRF segment and is included in each HL-Item loop.

In this diagram, an '*' is used for the Data Element Separator. This is for readability only. The actual values should be obtained from Interchange Header fields.

ADVANCE SHIPMENT NOTIFICATION (856) – 003020

LIST of SCAC CODES:

SCAC	Description	SCAC	Description
0001	Truck	HJBT	J. B. HUNT
0002	Container	HMES	USF HOLLAND
0003	Ship	HOFL	HOLMES FREI
9FDE	FEDERAL EXP	HTRF	HTRF DESCR
AACT	AAA COOPER	KWEI	KINTETSU WO
ABFS	ABF FREIGHT	LDWY	LANDSTAR IN
ADTC	ANR ADVANCE	LKVL	LAKEVILLE
AERM	MAYFLOWER T	LPPF	GEOLOGISTIC
AIRB	AIRBORNE FR	MCET	MERCER TRAN
ALLV	ALLIED VAN	MDTA	MIDLAND TRA
ARFW	AMERICAN FR	MLOG	MENLO LOGIS
ARPV	PAUL ARPIN	MOXR	MORRISON EX
ARXS	AIR EXPRESS	MSAG	MSAS CARGO
AVGG	ADVANTAGE L	NEMF	NEW ENGLAND
AVRT	AVERITT EXP	NOAM	NORTH AMERI
BEAC	C. BEAN TRA	ODFL	OLD DOMINIO
BMTR	BURLINGTON	OVNT	OVERNITE TR
BNAF	BAX GLOBAL	PAAF	PILOT AIR F
BOHM	BOHRENS MOV	PHIO	PHILPOT CON
BRTC	BROWN TRANS	PYTE	TRANS. MANA
BUSV	BURNHAM SER	RBPW	CH ROBINSON
BWFG	BESTWAY FOR	RDWY	ROADWAY EXP
CALJ	CAL ARK, IN	RINF	RING, FRANK
CCOS	CHOICE COUR	ROEE	ROBERTS EXP
CETR	CENTRAL TRA	RPSI	RPS, INC.
CFWY	CONSOLIDATE	RRTQ	ROADRUNNER
CIRQ	CIRCLE INTE	RSEL	USF RED STA
CLDN	COLDIRON SP	SAIA	SAIA MOTOR
CMPT	CMPT	SKFS	SKYWAY FREI
CTRQ	CONTRACT FR	SRUQ	SPECTRUM
CWCE	CONWAY CENT	TCHA	TECHTRAN, I
CWSE	CON-WAY SOU	TNWT	TNT SKYPAK,
CWWE	CON-WAY WES	TRSG	TRANS-STATE
DEJU	DEJU DESCR	TSMT	TRI-STATE M
DEOH	DEOH DESCR	UPND	UPS NEXTDAY
DHLC	DHL WORLDWI	UPSN	UNITED PARC
DMER	DIMERCO EXP	USIT	USA TRUCK,
DNZA	DANZAS	USXI	U.S. XPRESS
DUGN	USF DUGAN	UVLN	UNITED VAN
EWCF	EMERY WORLD	WENP	WERNER ENTE
EXDO	EXPEDITORS	WWAT	WATKINS MOT
FDE	FEDERAL EXP	WWWA	WALTERS TRU
FDEP	FEDERAL EXP	YFSY	YELLOW FREI
FTZA	FRITZ COMPA	Z001	ann's test
GAAM	GRAEBAL VAN	Z002	SFD Ship Material
GLUL	GLOBAL VAN	ZYZZ	ZYZZ DESCR
GMLD	GLOBAL MAIL	ZZCP	ZZCP DESCR
GRVI	GRAEBEL VAN		

INVOICE (810) - 003020

ABOUT THIS DOCUMENT:

FORMAT: 1. This document is currently used to convey billing for goods and services. All ANSI valid segments, fields, and values will be accepted for version 003020. Listed below are fields that are Mandatory by ANSI or fields that will be used by OFS.

SAMPLE: 1. A Sample Invoice follows the Notes section.

FIELD	RQMT	DESCRIPTION	VALUES	TYPE	SIZE	NOTES
ST TRANSACTION SET HEADER						
ST01	*	TRANSACTION SET ID	'810'	ID	3/3	
ST02	*	TRANSACTION SET CONTROL NO.		AN	4/9	
BIG BEGINNING SEGMENT FOR INVOICE						
BIG01	*	INVOICE DATE		DT	6/6	
BIG02	*	INVOICE NUMBER		AN	1/22	
BIG03		PURCHASE ORDER DATE		DT	6/6	
BIG04	*	PURCHASE ORDER NO.		AN	1/22	
BIG07		INVOICE TYPE		ID	2/2	1
NTE NOTE/SPECIAL INSTRUCTIONS						
NTE01	*	NOTE TYPE	'GEN'	ID	3/3	
NTE02	*	FREE FORM MESSAGE		AN	1/60	
N1 NAME						
N101	*	ENTITY IDENTIFIER CODE	'BT' BILL-TO 'RE' REMIT-TO	ID	2/2	
N102	*	NAME		AN	1/35	2
N103	*	IDENTIFICATION CODE QUALIFIER		ID	1/2	3
N104	*	IDENTIFICATION CODE		AN	2/17	4
N2 ADDITIONAL NAME INFORMATION						
N201	*	NAME		AN	1/35	
N202		NAME		AN	1/35	
N3 ADDRESS INFORMATION						
N301	*	STREET ADDRESS		AN	1/35	
N302		STREET ADDRESS		AN	1/35	5
N4 GEOGRAPHIC LOCATION						
N401	*	CITY NAME		AN	2/30	
N402	*	STATE OR PROVINCE		ID	2/2	
N403	*	POSTAL CODE		ID	3/9	

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FIELD	RQMT	DESCRIPTION	VALUES	TYPE	SIZE	NOTES
DTM * DATE/TIME REFERENCE						
DTM01	*	DATE/TIME QUALIFIER	'011' SHIPPED	ID	3/3	
DTM02	*	DATE		DT	6/6	
IT1 * BASELINE ITEM DATA						
IT101	*	ASSIGNED IDENTIFICATION	PURCHASE ORDER LINE NO.	AN	1/11	
IT102	*	QUANTITY INVOICED		R	1/10	
IT103	*	UNIT OF MEASUREMENT CODE		ID	2/2	
IT104	*	UNIT PRICE		R	1/14	
IT105		BASIS OF UNIT PRICE	'TE' EACH	ID	2/2	
IT106	*	PRODUCT/SERVICE ID QUAL	'PN' OFS PART NUM	ID	2/2	
IT107	*	PRODUCT/SERVICE ID		AN	1/30	6
IT108		PRODUCT/SERVICE ID QUAL	'VP' Vendor's PART NUM	ID	2/2	
IT109		PRODUCT/SERVICE ID		AN	1/30	6
PID * PRODUCT/ITEM DESCRIPTION						
PID01	*	ITEM DESC TYPE	'F' FREE FORM	ID	1/1	
PID05	*	DESCRIPTION		AN	1/80	
ITA ALLOWANCE, CHARGE OR SERVICE						
ITA01	*	ALLOW/CHRG INDICATOR	'A' = ALLOWANCE 'C' = CHARGE 'N' = NO ALLOW/CHRG	ID	1/1	
ITA04	*	ALLOW/CHRG HANDL CODE	'06' = CHARGE PAID BY CUST	ID	2/2	
ITA06	*	ALLOW/CHRG RATE		R	1/9	7
ITA07	*	ALLOW/CHRG TOTAL AMOUNT		N2	1/9	7
ITA14	*	SPECIAL CHRG/ALLOW CODE		ID	3/3	8
REF REFERENCE NUMBERS						
REF01	*	REFERENCE NUMBER QUALIFIER	'TB' TRUCKER'S BILL OF LADING 'SI' SHIPPER'S ID NUMBER FOR SHIPMNT	ID	2/2	
REF02	*	REFERENCE NUMBER		AN	1/30	
TDS * TOTAL MONETARY VALUE SUMMARY						
TDS01	*	TOTAL INVOICE AMOUNT		N2	1/10	
TXI TAX INFORMATION						
TXI01	*	TAX TYPE CODE		ID	2/2	
TXI02	*	MONETARY AMOUNT		R	1/15	
ITA ALLOWANCE, CHARGE OR SERVICE						
ITA01	*	ALLOW/CHRG INDICATOR	'A' = ALLOWANCE 'C' = CHARGE 'N' = NO ALLOW/CHRG	ID	1/1	
ITA04	*	ALLOW/CHRG HANDL CODE	'06' = CHARGE PAID BY CUST	ID	2/2	

INVOICE (810) – 003020

FIELD	RQMT	DESCRIPTION	VALUES	TYPE	SIZE	NOTES
ITA06	*	ALLOW/CHRG RATE		R	1/9	7
ITA07	*	ALLOW/CHRG TOTAL AMOUNT		N2	1/9	7
ITA14	*	SPECIAL CHRG/ALLOW CODE		ID	3/3	9
CTT	*	TRANSACTION TOTALS				10
CTT01	*	NUMBER OF LINE ITEMS		No	1/6	
CTT02	*	HASH TOTAL		R	1/10	
SE	*	TRANSACTION SET TRAILER				
SE01	*	NUMBER OF INCLUDED SEGMENTS		No	1/6	
SE02	*	TRANSACTION SET CONTROL NUMBER		AN	4/9	

NOTES

- 1 BIG07 = 'CR' Credit memo
 'PR' Product or service

 Field is required if invoice type does not = 'PR'
- 2 If N101 is present, then N102 is required.
- 3 N103 = '91' Assigned by seller

 Required on 'RE' address only
- 4 If ID Code Qualifier is provided by the seller N103 = 91.

 Field is required if preceding field is present
 N103 and N104 are required by OFS on the 'RE' address

 N104 = Application Sender's Code (GS02) of the GS (Functional Group Header)
- 5 Required only if street address continuation needed.
- 6 Field must be present if preceding field is present.
- 7 At least one of the designated fields is required.
- 8 Field must be present if ITA02 is present.
 ITA14 = REFER TO TABLE #1

 Return Special Charge/Allowance Code (ITA14) to exactly match the Special
 Charge/Allowance Code provided in the following fields:
 Purchase Order (850) - ITA14
- 9 ITA14 = 'DEL'.
 Only Freight Charges allowed at this level. Taxes should be sent in the TXI segment.

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The following Special Charge Codes are applicable in the ITA14:

<u>ANSI</u>	<u>Definition</u>
'255'	Artwork Charge
'CAA'	Cancellation Charge
'CTC'	Container Charge
'PHC'	Copy Charge
'CAL'	Cutting Charge
'DEL'	Delivery Charge
'697'	Die Charge
'EEH'	Engineering Charge
'FAE'	Fabrication Charge
'GGF'	Gold Factor
'690'	Gold Surcharge
'HHB'	Handling Charge
'IAC'	Inspection Charge
'LAA'	Installation Charge
'RLC'	Leasing Charge
'MAA'	Metal Escalation
'MMC'	Minimum Item Charge
'MAD'	Minimum Order Charge
'MSG'	Misc. Accessories
'LMC'	Maintenance Charge
'PAD'	Overtime Charge
'MSC'	Other Charge
'EEP'	Premium for Expedited Service
'PPO'	Price For Order
'SAB'	Packaging Charge
'FFN'	Plate Charge
'PPN'	Pallet Charge
'DEL'	Transportation per Loaded Mi
'FFN'	Plating Charge
'DEL'	Premium Transportation Auth
'DEL'	Premium Transportation
'RRC'	Reel Charge
'RRN'	Rental Charge
'RRF'	Rework Charge
'SST'	Sales Tax
'SER'	Service Charge
'ASC'	Set-Up Charge
'SUR'	Surcharge
'SAK'	Surcharge (%)
'SAJ'	Surcharge Labor Charge
'CSA'	Tape Charge
'TAG'	Testing Charge

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<u>ANSI</u>	<u>Definition</u>
'697'	Tooling Charge
'TTD'	Trade Discount (%)
'TRA'	Travel Charge
'DEL'	Transportation Charge
'TAJ'	Trade in Allowance
'SUR'	Header Surcharge
'DSC'	Header Discount

SAMPLE INVOICE (810)
(Show Segments Used By OFS GES System)

ST-810-10087
BIG-020722-106856-020722-A3604522-PR
N1-BT-OFS
N3-P. O. BOX 105367
N4-ATLANTA-GA-30348
N1-RE-ABC INDUSTRIES, INC.-91-0111222333
N3-3545-G SOUTH PLATTE RIVER DR.
N4-ENGLEWOOD-CO-80110
DTM-011-020722
IT1-00001-5-EA-6.88-TE-PN-841696792
PID-F-TI-DESIG LABEL
IT1-00002-5-EA-6.88-TE-PN-841696826
PID-F-TI-DESIG CARD
ITA-C-TI-06-324-255
TDS-7941
TXI-LS-413
ITA-C-TI-06-324-DEL
CTT-2-10
SE-19-10087