



## Inbound Advance Ship Notice File Layout

The inbound Advance Ship Notice file is a fixed-length file with a carriage return and line feed required at the end of each record. Each file contains information for one Advance Ship Notice (one flat file per Advance Ship Notice). The naming convention for the file is:

ASxxxxyyy, where  
AS denotes file type

The **recommendation** for file naming is to use the Julian date plus a sequential number as indicated below:

xxxxx denotes Julian date;  
yyy denotes a sequential number

If, however, this recommendation is difficult to implement, then the **minimal requirement** is to generate a unique, sequential number for the filename as indicated below:

xxxxyyy denotes a sequential number

There is no file extension.

An Advance Ship Notice file is comprised of the following records:

- File Header record
- Shipment Headerrecord
- Shipment Methodrecord
- Ship-From record
- Ship-From Contact record
- Ship-To record
- Carrier record
- PO Headerrecords
- Supplier Orgrecord
- Buying Org record
- Buyer Contact record
- Pallet Detail records
- Item Detail records
- Case ID records
- Lot records
- Lot ID records
- File Trailer record

These records are described below. Fields marked with an asterisk\* are required. If an optional field is not provided, spaces (blanks) need to be placed where the field would be.

Fields of type 'Char' and 'Date' should be left justified, and fields of type 'Number' should be right justified.

The column 'ITN Xref?' denotes whether ITN performs cross-references to map buyer-assigned values (in the inbound Advance Ship Notice) to supplier-assigned values (in the outbound Advance Ship Notice).



**File Header Record** - One record required per file

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? / Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"FILE_HDR"
File Type*	Char	11-15	5	"AS"
File Version*	Char	16-25	10	"5.1"
File Date Stamp*	Char	26-33	8	YYYYMMDD
File Time Stamp*	Char	34-41	8	HHMMSSDD
End-of-Record delimiter*	Char	42	1	"~"

**Shipment Header Record** - One record required per file

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? / Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"SH_HDR"
Shipment Identifier*	Char	11-40	30	Pickup Number if available or Unique identifier assigned by the supplier for the shipment
Ship Notice Date*	Date	41-48	8	Date Advance Ship Notice was created (YYYYMMDD)
Ship Notice Time*	Char	49-56	8	Time Advance Ship Notice was created (HHMMSSDD)
Packaging Code	Char	57-61	5	Code identifying the type of packaging <ul style="list-style-type: none"> <li>• "CAS" – Case (recommended)</li> <li>• "CTN" – Carton</li> <li>• "INT" -- Container (use for returnable pallets or returnable plastic containers only)</li> <li>• "MIX" – Mixed container types</li> <li>• "PLT" -- Pallet</li> </ul>
Lading Quantity	Nbr	62-68	7	Number of units of the lading commodity
Gross Weight	Nbr	69-78	10	Gross Weight for shipment
Net Weight	Nbr	79-88	10	Net Weight for shipment (required if catch weight)
Weight Unit of Measurement	Char	89-90	2	Unit of Measurement for shipment weight <ul style="list-style-type: none"> <li>• "KG" - Kilogram</li> <li>• "LB" - Pound</li> </ul>
Ship Date*	Date	91-98	8	Actual Shipped Date (YYYYMMDD)
Estimated Arrival Date	Date	99-106	8	Estimated Arrival Date (YYYYMMDD) based upon actual shipped date.
Arrival Appointment Date	Date	107-114	8	Arrival Appointment Date (YYYYMMDD)
Transaction Purpose	Char	115-116	2	Transaction Purpose. <ul style="list-style-type: none"> <li>• "00" – Original</li> <li>• "05" – Replace</li> </ul> <p>Based upon setup agreement, iTrade may support multiple ASN transmissions. ASN replacements must be agreed upon and pre-configured.</p>
Shipment Container Code	Char	117-164	48	A single GS1-128 Serial Shipping Container Code to identify an entire shipment e.g. a full trailer
End-of-Record delimiter*	Char	165	1	"~"



**Shipment Method Record** - One record required per file

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? / Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"SH_METH"
Shipping Method*	Char	11-12	2	Method of shipment: <ul style="list-style-type: none"> <li>• "H" – customer pickup</li> <li>• "M" – motor (common carrier)</li> </ul> Note: Preferred codes are "H" for FOB or "M" for delivered orders.
Bill of Lading Number	Char	13-42	30	Bill of Lading Number, or pickup number for cross-doc shipments. *Required by WalMart.
Container Prefix	Char	43-46	4	Container Prefix
Container ID	Char	47-56	10	Container Number
Container Seal	Char	57-71	15	Container Seal Number Note: this seal is required if selected for a specific DC
Replaced Container Seal	Char	72-86	15	Replaced Container Seal Number
Tracking Number	Char	87-116	30	Can be Sales Order Number or other unique vendor designated ID, REF*2I
Delivery Ticket Number	Char	117-146	30	For future use.
Meter Number	Char	147-176	30	For future use.
Appointment Number	Char	177-206	30	Appointment Number usually for Delivered Shipments, REF*AO
Load Number	Char	207-236	30	Load Number usually for FOB Shipments, REF*LO
End-of-Record delimiter*	Char	237	1	"~"

**Ship-From Record** - One record per file (this record is required)

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? / Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"ADDR_SF"
Ship-From Address ID*	Char	Y 11-30	20	Address ID of Ship-From location
Ship-From Name	Char	31-65	35	Ship-From location Name
Ship-From Address 1	Char	66-120	55	Address 1
Ship-From Address 2	Char	121-175	55	Address 2
Ship-From City	Char	176-205	30	City
Ship-From State	Char	206-207	2	State
Ship-From Zip	Char	208-222	15	Zip
Ship-From Country	Char	223-224	2	Country Code
End-of-Record delimiter*	Char	225	1	"~"



**Ship-From Contact Record** - One record per file, as needed (this record is required for Sysco)

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? / Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"CONT_SF"
Ship-From Contact Name	Char	11-70	60	Contact Name for Ship-From location
Ship-From Telephone	Char	71-85	15	Telephone number of Ship-From contact
End-of-Record delimiter*	Char	86	1	"~"

**Ship-To Record** - One record per file (this record is required)

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? / Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"ADDR_ST"
Ship-To Address ID*	Char	Y 11-30	20	Address ID of Ship-To location, as assigned by the supplier organization
Ship-To Name	Char	31-65	35	Ship-To location Name
Ship-To Address 1	Char	66-120	55	Address 1
Ship-To Address 2	Char	121-175	55	Address 2
Ship-To City	Char	176-205	30	City
Ship-To State	Char	206-207	2	State
Ship-To Zip	Char	208-222	15	Zip
Ship-To Country	Char	223-224	2	Country Code
End-of-Record delimiter*	Char	225	1	"~"

**Carrier Record** - One record per file, as needed (this record is required for delivered shipments / required by WalMart)

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? / Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"CARR"
Carrier ID	Char	11-30	20	SCAC id (Standard Carrier Alpha Code) *Required by WalMart
Carrier Name	Char	31-65	35	Carrier Name
Carrier Address 1	Char	66-120	55	Address 1
Carrier Address 2	Char	121-175	55	Address 2
Carrier City	Char	176-205	30	City
Carrier State	Char	206-207	2	State
Carrier Zip	Char	208-222	15	Zip
Carrier Country	Char	223-224	2	Country Code
End-of-Record delimiter*	Char	225	1	"~"



**PO Header Records** - One record required per file

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? / Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"PO_HDR"
PO Type	Char	11-12	2	Used to denote order type <ul style="list-style-type: none"> <li>• "DR" – drop ship</li> <li>• "SO" – shipped order</li> </ul>
PO #*	Char	13-34	22	PO number, as assigned by the buying organization
Sales Order #*	Char	35-64	30	PO reference number assigned by supplier organization
ITN Order #*	Char	65-94	30	Assigned by ITN, the internal order number is used as a unique reference to the PO within the ITN application
PO Date*	Date	95-102	8	Date PO was created (YYYYMMDD)
Requested Ship Date	Date	103-110	8	Requested Ship Date (YYYYMMDD) Ship date from purchase order
Requested Delivery Date	Date	111-118	8	Requested Delivery Date (YYYYMMDD) Delivery date from purchase order
Customer Ref #	Char	119-148	30	Customer Reference Number
Invoice #	Char	149-178	30	Seller's Invoice number
PO Release #	Char	179-208	30	Number identifying a release against a PO.
PO Revision #	Char	209-216	8	Buyer's PO Revision number.
End-of-Record delimiter*	Char	217	1	"~"

**Supplier Org Record** - One record required per file

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? / Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"SUP_ORG"
Supplier Address ID*	Char	Y 11-30	20	Address ID of bill-to location, as assigned by the supplier organization
Supplier Name	Char	31-65	35	Supplier name
Buyer's Internal Supplier ID	Char	66-85	20	Buyer ID used to identify supplier
End-of-Record delimiter*	Char	86	1	"~"

**Buying Org Record** - One record required per file

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? / Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"BUY_ORG"
Buying Org ID*	Char	Y 11-30	20	Buying organization ID, as assigned by the seller organization
Buying Org Name	Char	31-65	35	Buying organization name
End-of-Record delimiter*	Char	66	1	"~"



**Buyer Contact Record** - One record per file, as needed optional

<i>Field Name</i>	<i>Type</i>	<i>ITN Xref? / Position</i>	<i>Max Length</i>	<i>Description</i>
Record ID*	Char	1-10	10	"CONT_BUY"
Buyer Contact Name	Char	11-70	60	Contact Name for Buyer
Buyer Telephone	Char	71-85	15	Telephone number of Buyer contact
End-of-Record delimiter*	Char	86	1	"~"

**Final Recipient Org Record** - One record required per file

<i>Field Name</i>	<i>Type</i>	<i>ITN Xref? / Position</i>	<i>Max Length</i>	<i>Description</i>
Record ID*	Char	1-10	10	"FINAL_ORG"
Buying Org ID*	Char	Y 11-30	20	Final shipment recipient organization ID
Buying Org Name	Char	31-65	35	Final shipment recipient organization name
End-of-Record delimiter*	Char	66	1	"~"

**Marking/Packaging/Loading Record** - One record per file, as needed (this record is for future use only)

<i>Field Name</i>	<i>Type</i>	<i>ITN Xref? / Position</i>	<i>Max Length</i>	<i>Description</i>
Record ID*	Char	1-10	10	"LOAD_REQ"
Load Notes	Char	11-274	264	Notes describing marking, packaging, loading or unloading requirements
End-of-Record delimiter*	Char	275	1	"~"



**Pallet Detail Records** - One for each Pallet required for palletized ASN. Non-palletized ASNs omit the PALLET record.

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? /Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"PALLET"
Pallet LPN Number*	Char	11-40	30	Pallet License Plate Number
Pallet RFID	Char	41-70	30	Pallet Radio Frequency ID
Pallet Type	Char	71-72	2	Pallet type <ul style="list-style-type: none"> <li>• "4" - standard</li> </ul>
Pallet Tiers	Nbr	73-75	3	Number of layers per pallet
Pallet Blocks	Nbr	76-78	3	Number of pieces (cartons) per layer on the pallet
Pallet Quantity	Nbr	79-85	7	Number of units (cases) on the pallet
Pallet Quantity UOM	Char	86-90	5	Packaging Code <ul style="list-style-type: none"> <li>• "CAS" - case</li> </ul>
Pallet Gross Weight	Nbr	91-100	10	Numeric value of pallet Gross Weight
Pallet Net Weight	Nbr	101-110	10	Numeric value of pallet Net Weight
Pallet Weight UOM	Char	111-112	2	Pallet Weight UOM <ul style="list-style-type: none"> <li>• "LB" – pounds</li> <li>• "KG" - kilograms</li> </ul>
Store ID	Char	113-192	80	Location ID for final pallet destination, e.g. store in a cross-docking environment. For future use.
Store Name	Char	193-252	60	Name of location or store for final pallet destination. For future use.
End-of-Record delimiter*	Char	253	1	"~"



**Item Detail Records** - One for each item on the PO. At least one item must exist in the PO.

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? /Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"PO_DTL"
Line #*	Char	11-14	4	Line number on PO
Buyer SKU*	Char	15-34	20	Either Buyer SKU, Supplier SKU, or UPC is required
Supplier SKU*	Char	35-54	20	Either Buyer SKU, Supplier SKU, or UPC is required
UPC*	Char	55-68	14	Either Buyer SKU, Supplier SKU, or UPC is required
Country of Origin	Char	69-98	30	County of Origin. Use "US" for domestic, a valid country code for non-domestic, or leave blank if unknown. Multiple codes are allowed.
Substitute Product SKU	Char	99-118	20	Supplier-assigned SKU for the substituted item
Description	Char	119-198	80	Description of the item, as assigned by the supplier
Quantity Shipped*	Nbr	199-208	10	
Quantity Shipped UOM*	Char	209-210	2	Quantity shipped unit of measure: <ul style="list-style-type: none"> <li>• "BX" – box</li> <li>• "CA" – case (required for Sysco)</li> <li>• "EA" – each</li> <li>• "LB" – pound</li> <li>• "PC" – piece</li> <li>• "BG" – bag</li> <li>• "DR" – drum</li> <li>• "GA" – gallon</li> <li>• "PA" – pail</li> <li>• "OZ" – ounce</li> <li>• "CN" – can</li> <li>• "UN" – unit</li> <li>• "TE" – tote</li> <li>• "CS" – cassette</li> <li>• "PK" – package</li> </ul>
Gross Weight	Nbr	211-220	10	Note: If Gross Weight is present, Gross Weight UOM must also be provided.
Net Weight	Nbr	221-230	10	Note: If Net Weight is present, Net Weight UOM must also be provided.
Net Weight UOM	Char	231-232	2	UOM of Net Weight: <ul style="list-style-type: none"> <li>• "LB" – pound</li> <li>• "KG" - kilogram</li> </ul>
Volume	Nbr	233-242	10	If Volume is present, Volume UOM must also be provided
Volume UOM	Char	243-244	2	UOM of Volume <ul style="list-style-type: none"> <li>• "CF" – cubic feet</li> </ul>
ITN_POLINEID	Char	245-264	20	ITN Line Item Identifier, required for ASN and Substitutions, from outbound PO to vendor.
<b>End-of-Record delimiter*</b>	Char	265	1	"~"





**Case ID Records** – One record for each case. (this record is not required)

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? /Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	“CASE_ID”
Case ID	Char	11-40	30	Case ID or bar code ID for case
Case RFID	Char	41-70	30	Case Radio Frequency ID
End-of-Record delimiter*	Char	71	1	“~”

**LOT Records** – One record for each case. (this record may be required as needed / required by WalMart)

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? /Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	“LOT_DTL”
Lot ID	Char	11-40	30	Unique alphanumeric ID for Lot differentiation within ASN
Lot Number*	Char	41-70	30	Lot number
Lot Quantity*	Nbr	71-77	7	Quantity of items (Cases) in Lot Note: Lot case quantities must add up to total case quantity
Lot Quantity UOM	Char	78-79	2	Lot Quantity UOM • “CA” - Case
Lot Manufacture Date	Date	80-87	8	Date Lot product was manufactured (YYYYMMDD) *See Summary Notes
Lot Expiration Date	Date	88-95	8	Date Lot expires (YYYYMMDD) *See Summary Notes
Lot Harvest Date	Date	96-103	8	Date Lot was harvested (YYYYMMDD) *See Summary Notes
Country of Origin	Char	104-133	30	County of Origin. Use “US” for domestic, a valid country code for non-domestic, or leave blank If unknown
End-of-Record delimiter*	Char	134	1	“~”

**Lot ID Records** – One record for each case. (this record is not required) For future use.

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? /Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	“LOT_ID”
Lot ID	Char	11-40	30	Lot ID or bar code ID for lot
Lot RFID	Char	41-70	30	Lot Radio Frequency ID
End-of-Record delimiter*	Char	71	1	“~”



**File Trailer Record** – One record required per file

<b>Field Name</b>	<b>Type</b>	<b>ITN Xref? / Position</b>	<b>Max Length</b>	<b>Description</b>
Record ID*	Char	1-10	10	"FILE_TTL"
Total # of line items*	Nbr	11-16	6	Total number of line items
Total Gross Weight	Nbr	17-26	10	Note: If Total Gross Weight is present, Total Gross Weight UOM must also be provided.
Total Gross Weight UOM	Nbr	27-36	10	UOM of Gross Weight: <ul style="list-style-type: none"> <li>• "LB" –pound</li> <li>• "KG" - kilogram</li> </ul> Note: If Total Gross Weight UOM is present, Total Gross Weight value must also be provided.
Total Volume	Nbr	37-46	10	If Volume is present, Volume UOM must also be provided
Total Volume UOM	Char	47-48	2	UOM of Volume <ul style="list-style-type: none"> <li>• "CF" – cubic feet</li> </ul>
End-of-Record delimiter*	Char	49	1	"~"



**Summary Notes:**

\*LOT\_DTL / WalMart Requirement - One of the following dates required: Lot Manufacture Date, Expiration Date, or Harvest Date. Required date dependent on commodity type.

**Document Change Notes:**

June 2, 2017- Document modified to conform to the iTradeNetwork Universal ASN 5.0 specification.

- Logo modernized
- Transaction Purpose added in SH\_HDR to support ASN replacements.
- Enumerated the package codes in SH\_HDR per PTI spec.
- Added Delivery ticket number and meter number to the SH\_METH record. Both for future use.
- Added Shipment Container Code to the SH\_HDR record.
- Pickup Record removed.
- Ship To Contact Record removed.
- Bill To Record removed.
- Broker Record removed.
- Added Customer Reference Number to the PO\_HDR record.
- Added Invoice Number to the PO\_HDR record.
- Added PO Release Number to the PO\_HDR record.
- Added PO Revision Number to the PO\_HDR record.
- Added a LOAD\_REQ record for future use to comply with PTI specifications.
- Removed Buyer and Supplier Address information.
- Buyer Contact record BUYER removed.
- Remit to Location record REM\_ORG removed.
- Store ID and Name added to PALLET record.
- Country of Origin added to Lot LOT\_DTL record.
- Lot case tracking ID added for future use.

Feb 25, 2018- Document modified to conform to the iTradeNetwork Universal ASN 5.1 specification. Including iTraceTransit Storage and Delivery solution.

- Added Appointment Number to SH\_METH Record
- Added Load Planning Number to SH\_METH Record
- Added Harvest Date to LOT\_DTL Record
- Ship To Record Added
- Corrected Lading Quantity Record and Load Notes Record

May 9, 2018 – Updates to Line Record

- Added ITN\_POLINEID.

June 19, 2018 - Updates to SH\_METH

- Corrected field positions.

July 18, 2018 - Updates specific to WalMart PTI ASN requirements.

- SH\_METH BOL, CARR SCAC code, LOT\_DTL lot # / date requirement / lot quantity