

Inbound Invoice File Layout

The inbound Invoice 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 Invoice (one flat file per Invoice). The naming convention for the file is:

IVxxxxxyyy, where
IV 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:

xxxxxyyy denotes a sequential number

There is no file extension.

An Invoice file is made up of the following records:

- ❖ File Header record
- ❖ Buying Org record
- ❖ Supplier Org record
- ❖ PO Header record
- ❖ Invoice Header record
- ❖ PO Header Adjustment (SAC) records
- ❖ Remit-To record
- ❖ Ship-To record
- ❖ Ship-To Name record
- ❖ Bill-To record
- ❖ Bill-To Name record
- ❖ Ship-From record
- ❖ Ship-From Name record
- ❖ Pickup-From record
- ❖ Pickup-From Name record
- ❖ Shipment Method record
- ❖ Carrier record
- ❖ Notes record
- ❖ Item Detail records
- ❖ Item Detail Terms record
- ❖ Item Detail Notes record
- ❖ Item Detail Adjustment (SAC) records
- ❖ File Trailer record

These records are described below. Fields marked with an asterisk* are required. If an optional field is not provided, spaces still need to be in place 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 'EFS Xref?' denotes whether EFS performs cross-reference to map buyer-assigned values (from the inbound Invoice) to supplier-assigned values (in the outbound Invoice).

File Header Record - One record required per file

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	"FILE_HDR"
File Type*	Char	11-15	5	"IV"
File Version*	Char	16-25	10	"1.3"
File Date Stamp*	Char	26-33	8	YYYYMMDD
File Time Stamp*	Char	34-41	8	HHMMSSDD
End-of-Record delimiter*	Char	42	1	"~"

Buying Org Record - One record required per file

Field Name	Type	EFS Xref? / Position	Max Length	Description
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
End-of-Record delimiter*	Char	31	1	"~"

Supplier Org Record - One record required per file

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	"SUP_ORG"
Supplier Org ID*	Char	Y 11-30	20	Supplier Organization ID, as assigned by the seller organization
End-of-Record delimiter*	Char	31	1	"~"

PO Header Record - One record required per file

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	"PO_HDR"
PO Type	Char	11-12	2	Used to denote drop-ship order "DR" – drop ship
PO #*	Char	13-34	22	PO number, as assigned by the buying organization
Customer Ref #	Char	35-64	30	Additional field to capture customer-specific reference data, as assigned by the buying organization
File Identifier #	Char	65-94	30	Additional field to capture customer-specific reference data, as assigned by the buying organization
Sales Order #*	Char	95-124	30	PO reference number, as assigned by supplier organization
EFS Order #*	Char	125-154	30	Assigned by EFS, used as a unique reference to the PO within the EFS application
PO Date	Date	155-162	8	Date PO was created (YYYYMMDD)
Ship Date	Date	163-170	8	Shipped date (YYYYMMDD)
Delivery or Pickup Date	Date	171-178	8	Date of delivery or pickup (YYYYMMDD)
End-of-Record delimiter*	Char	179	1	"~"

Invoice Header Record - One record required per file

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	"IV_HDR"
Invoice #*	Char	11-32	22	Invoice number, as assigned by the supplier organization
Transaction Type*	Char	33-34	2	Invoice transaction type:"00" – original"02" – add; supplemental"05" – replacement "CR"- Credit Memo
Invoice Date*	Date	35-42	8	Date invoice was created (YYYYMMDD)
Terms Net Days Due	Number	43-45	3	
Terms Invoice Due Date*	Date	46-53	8	Date invoice is due (YYYYMMDD)
Terms Discount Days Due	Number	54-56	3	Note: If Terms Discount Percent or Terms Discount Amount is present, either Terms Discount Days Due or Terms Discount Date is required.
Terms Discount Date	Date	57-64	8	YYYYMMDD Note: If Terms Discount Percent or Terms Discount Amount is present, either Terms Discount Days Due or Terms Discount Date is required.
Terms Discount Percent	Number	65-70	6	Note: If Terms Discount Percent or Terms Discount Amount is present, either Terms Discount Days Due or Terms Discount Date is required.
Terms Discount Amount	Number	71-80	10	Note: If Terms Discount Percent or Terms Discount Amount is present, either Terms Discount Days Due or Terms Discount Date is required.
End-of-Record delimiter*	Char	81	1	"~"

PO Header Adjustment Record (Service, Promotion, Allowance, or Charge Information) – Up to 5 records per file, as needed (this record is not required).

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	"SAC_HDR"
Allowance or Charge Indicator*	Char	11	1	"A" – allowance "C" – charge
Service Allowance, Charge, or Promotion Code	Char	12-15	4	Allowance or charge type: <ul style="list-style-type: none"> • "A130" – Additional Material • "A170" – Adjustment • "A320" – Air Transportation Charge • "A720" – Broken Package Charge • "B510" – Consolidation • "B610" – Container Service Charge • "D170" – Free Goods • "C040" – Delivery • "C310" – Discount • "C350" – Distributor Discount/Allowance • "C420" – Drayage • "C610" – Enclosure • "D240" – Freight • "D250" – Freshness/Leaker allowance

				<ul style="list-style-type: none"> • “D260” – Fuel Charge • “D270” – Fuel surcharge • “D350” – Goods and Services credit allowance • “D500” – Handling • “D750” – Inbound Freight Charge • “E410” – Loading • “E550” – Market Development Funds • “F170” – Pallet Exchange Charge • “F180” – Pallet • “F280” – Performance Allowance • “F340” – Pickup • “F670” – Price and Marketing Allowance • “F800” – Promotional Allowance • “F860” – Protective Service Charge • “F910” – Quantity discount • “G470” – Restocking Charge • “G870” – Shrink-Wrap Charge • “G950” – Slip Sheet, Truck • “G970” – Small Order Charge • “H040” – Special Delivery • “H400” – Stopcharge • “H430” – Storage • “H640” – Excise tax (destination) • “H750” – Sales tax (state and local) • “H910” - Temperature Protection • “I170” – Trade discount • “I310” – Truckload Discount • “I390” – Unloading • “I410” – Unsaleable merchandise allowance • “OTHR” – Other Miscellaneous Earning or Additive
Agency Qualifier Code	Char	16-17	2	Qualifier code <ul style="list-style-type: none"> • “AS” – assigned by seller
Agency Service, Promotion, Allowance or Charge code	Char	18-27	10	Service, allowance, promotion, or charge code
Amount	Number	28-42	15	Total amount of service allowance or charge
Allowance/Charge Percent Qualifier	Char	43	1	<ul style="list-style-type: none"> • “1” – Item list cost • “2” – Item net cost • “3” – Discount/gross • “4” – Discount/net • “5” – Base price per unit • “6” – Base price amount • “7” – Base price amount less previous discount <p>Do not include if Percent below is not used.</p>
Percent	Number	44-49	6	Total % of service, promotion, allowance or charge
Rate	Number	50-58	9	Rate of service, promotion, allowance or charge
UOM Code	Char	59-60	2	Unit of measure: <ul style="list-style-type: none"> • “CA” – case • “DO” – dollar basis amount

				<ul style="list-style-type: none"> • “EA” – each • “LB” – pound <p>This UOM is used with the Quantity below not the Rate above. If Quantity is not included do not include this UOM code.</p>
Quantity	Number	61-75	15	Total # of items tied to the service, allowance, promotion, or charge
Quantity Range	Number	76-90	15	Total # of items (within a range) tied to the service allowance, promotion, or charge
Method of Handling Code	Char	91-92	2	<ul style="list-style-type: none"> • “01” – bill back • “02” – off invoice • “06” – charge to be paid by customer
Reference Id	Char	93-122	30	Reference code used to define service, allowance, promotion, or charge
Additional Reference ID	Char	123-142	20	Additional field to capture reference information
Description	Char	143-222	80	
End-of-Record delimiter*	Char	223	1	“~”

SAC Syntax:

1. At least one of ‘Service, Allowance, Charge, or Promotion Code’ or ‘Agency Qualifier Code’ fields is required.
2. If either ‘Agency Qualifier Code’ or ‘Agency Service, Promotion, Allowance or Charge code’ is present, then the other is required.
3. If either ‘Allowance/Charge Percent Qualifier’ or ‘Percent’ is present, then the other is required.
4. If either ‘UOM Code’ or ‘Quantity’ is present, then the other is required.
5. If ‘Quantity Range’ is present, then ‘Quantity Range UOM’ is required.
6. If ‘Reference Id’ is present, then either ‘Service Allowance, Charge or Promotion Code’ or ‘Agency Service, Promotion, Allowance or Charge Code’ is required.
7. If ‘Additional Reference Id’ is present, then ‘Reference Id’ is required.

SAC Semantics:

1. If ‘Allowance or Charge Indicator’ is “A” or “C”, then at least one of the following is required – ‘Amount’, ‘Percent’, ‘Rate’.
2. ‘Amount’ is the total amount for the service, allowance, or charge.
3. If ‘Amount’ is present along with ‘Percent’ and/or ‘Rate’, then ‘Amount’ takes precedence.
4. ‘Rate’ is the allowance or charge rate per unit.
5. ‘Quantity’ and ‘Quantity Range’ is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice.
6. ‘Quantity’ and ‘Quantity Range’, used together, indicate a quantity range, which could be a dollar amount that is applicable to service, promotion, allowance, or charge.
7. ‘Reference Id’ is used in conjunction with ‘Service Allowance, Charge, or Promotion Code’ or ‘Agency Service, Promotion, Allowance or Charge Code’ to provide a specific reference number as identified by the code used.

Notes:

1. ‘Agency Service, Promotion, Allowance or Charge Code’ may be used to uniquely identify the service, allowance, or charge. In addition, it may be used in conjunction to further define the code in ‘Service Allowance, Charge, or Promotion Code’.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as “dollar basis amount”. This amount is represented in the field ‘Quantity’ where ‘UOM Code’ = “DO”.

Remit-To Record - One record required per file

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	"ADDR_RE"
Remit-To Name*	Char	11-70	60	
Remit-To Address 1*	Char	71-125	55	
Remit-To Address 2	Char	126-180	55	
Remit-To City*	Char	181-210	30	
Remit-To State*	Char	211-212	2	
Remit-To Zip*	Char	213-227	15	
Remit-To Country	Char	228-229	2	
Remit-To ID	Char	230-249	20	
End-of-Record delimiter*	Char	250	1	"~"

Ship-To Record - One record required per file

Field Name	Type	EFS Xref? / Position	Max Length	Description
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 seller organization
Ship-To Address 1	Char	31-85	55	
Ship-To Address 2	Char	86-140	55	
Ship-To City	Char	141-170	30	
Ship-To State	Char	171-172	2	
Ship-To Zip	Char	173-187	15	
Ship-To Country	Char	188-189	2	
End-of-Record delimiter*	Char	190	1	"~"

Ship-To Name Record - One record per file, as needed (this record is not required)

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	"NAME_ST"
Ship-To Name	Char	11-70	60	Ship-To location Name
Ship-To Attention	Char	71-130	60	Drop Ship location contact name
End-of-Record delimiter*	Char	131	1	"~"

Bill-To Record - One record required per file

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	"ADDR_BT"
Bill-To Address ID*	Char	Y 11-30	20	Address ID of Bill-To location, as assigned by the seller organization
Bill-To Address 1	Char	31-85	55	
Bill-To Address 2	Char	86-140	55	

Bill-To City	Char	141-170	30	
Bill-To State	Char	171-172	2	
Bill-To Zip	Char	173-187	15	
Bill-To Country	Char	188-189	2	
End-of-Record delimiter*	Char	190	1	“~”

Bill-To Name Record - One record per file, as needed (this record is not required)

<i>Field Name</i>	<i>Type</i>	<i>EFS Xref? / Position</i>	<i>Max Length</i>	<i>Description</i>
Record ID*	Char	1-10	10	“NAME_BT”
Bill-To Name	Char	11-70	60	Bill-To location Name
End-of-Record delimiter*	Char	71	1	“~”

Ship-From Record - One record per file, as needed (this record is not required)

<i>Field Name</i>	<i>Type</i>	<i>EFS Xref? / Position</i>	<i>Max Length</i>	<i>Description</i>
Record ID*	Char	1-10	10	“ADDR_SF”
Ship-From Address ID	Char	11-30	20	Address ID of Ship-From location
Ship-From Address 1	Char	31-85	55	
Ship-From Address 2	Char	86-140	55	
Ship-From City	Char	141-170	30	
Ship-From State	Char	171-172	2	
Ship-From Zip	Char	173-187	15	
Ship-From Country	Char	188-189	2	
End-of-Record delimiter*	Char	190	1	“~”

Ship-From Name Record - One record per file, as needed (this record is not required)

<i>Field Name</i>	<i>Type</i>	<i>EFS Xref? / Position</i>	<i>Max Length</i>	<i>Description</i>
Record ID*	Char	1-10	10	“NAME_SF”
Ship-From Name	Char	11-70	60	Ship-From location Name
End-of-Record delimiter*	Char	71	1	“~”

Pickup-From Record - One record per file, as needed (this record is not required)

<i>Field Name</i>	<i>Type</i>	<i>EFS Xref? / Position</i>	<i>Max Length</i>	<i>Description</i>
Record ID*	Char	1-10	10	“ADDR_PU”
Pickup Address ID	Char	11-30	20	Address ID of Pickup location
Pickup Address 1	Char	31-85	55	
Pickup Address 2	Char	86-140	55	
Pickup City	Char	141-170	30	
Pickup State	Char	171-172	2	

Pickup Zip	Char	173-187	15	
Pickup Country	Char	188-189	2	
End-of-Record delimiter*	Char	190	1	“~”

Pickup-From Name Record - One record per file, as needed (this record is not required)

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	“NAME_PU”
Pickup-From Name	Char	11-70	60	Pickup-From location Name
End-of-Record delimiter*	Char	71	1	“~”

Shipment Method Record - One record required per file

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	“SH METH”
Shipping Method*	Char	11-12	2	Method of shipment: <ul style="list-style-type: none"> • “H” – customer pickup • “M” – motor (common carrier) • “CE” – customer pickup/customer expense • “SR” – supplier truck • “ST” – stack train • “T” – best way (shipper’s option) • “R” – rail • “VE” – vessel (ocean) • “AF” – air freight • “LT” – less than trailer load
Shipping Method of Payment	Char	13-14	2	Payment of shipping method: <ul style="list-style-type: none"> • “BP” – paid by buyer • “CC” – customer collect • “PC” – prepaid but charged to customer • “PP” – pre paid by seller • “PB” – customer pickup (backhaul) • “TP” – third party bill
Bill of Lading Number	Char	15-44	30	
Tracking/Release Number	Char	45-74	30	
End-of-Record delimiter*	Char	75	1	“~”

Carrier Record - One record per file, as needed (this record is not required)

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	“CARR”
Carrier ID	Char	11-14	4	Carrier ID
Carrier Name	Char	15-49	35	
Carrier Contact Phone	Char	50-64	15	

End-of-Record delimiter*	Char	65	1	“~”
--------------------------	------	----	---	-----

Notes Record - One record per file, as needed (this record is not required)

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	“NOTES”
Notes/comments	Char	11-90	80	Notes or comments related to the invoice, as sent by the supplier
End-of-Record delimiter*	Char	91	1	“~”

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

Field Name	Type	EFS Xref? / Position	Max Length	Description
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
Description	Char	69-148	80	Description of the item, as assigned by the supplier
Quantity Invoiced*	Number	149-163	15	
Quantity Invoiced UOM*	Char	164-165	2	Quantity invoiced unit of measure: <ul style="list-style-type: none"> • “BX” – box • “CA” – case • “EA” – each • “LB” – pound • “PC” – piece • “BG” – bag • “DR” – drum • “GA” – gallon • “PA” – pail • “OZ” – ounce • “CN” – can • “UN” – unit • “TE” – tote • “CS” – cassette • “PK” – package
Number of Units Shipped	Number	166-175	10	
Number of Units Shipped UOM	Char	176-177	2	Number of units shipped unit of measure: <ul style="list-style-type: none"> • “BX” – box • “CA” – case • “EA” – each • “LB” – pound • “PC” – piece • “BG” – bag • “DR” – drum • “GA” – gallon • “PA” – pail

				<ul style="list-style-type: none"> • “OZ” – ounce • “CN” – can • “UN” – unit • “TE” – tote • “CS” – cassette • “PK” – package
Invoiced Price*	Number	178-192	15	
Invoiced Price UOM*	Char	193-194	2	<ul style="list-style-type: none"> • “PP” – price per pound • “PE” – price per each • “TE” – contract price per each • “PO” – price per ounce
Pack	Char	195-200	6	
Size	Char	201-208	8	
Brand	Char	209-223	15	
Gross Weight	Number	224-233	10	Note: If Gross Weight is present, Gross Weight UOM must also be provided.
Gross Weight UOM	Char	234-235	2	UOM of Gross Weight: <ul style="list-style-type: none"> • “LB” – pound • “GA” – gallon • “OZ” – ounce Note: If Gross Weight UOM is present, Gross Weight value must also be provided.
Tare Weight	Number	236-245	10	Note: If Tare Weight is present, Tare Weight UOM must also be provided.
Tare Weight UOM	Char	246-247	2	UOM of Tare Weight: <ul style="list-style-type: none"> • “LB” – pound • “GA” – gallon • “OZ” – ounce Note: If Tare Weight UOM is present, Tare Weight value must also be provided.
Net Weight	Number	248-257	10	Note: If Net Weight is present, Net Weight UOM must also be provided.
Net Weight UOM	Char	258-259	2	UOM of Net Weight: <ul style="list-style-type: none"> • “LB” – pound • “GA” – gallon • “OZ” – ounce Note: If Net Weight UOM is present, Net Weight value must also be provided.
End-of-Record delimiter*	Char	260	1	“^”

Item Detail Terms Record – One record per Item Detail record, as needed (this record is not required)

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	“ITD_DTL”
Terms Discount Days Due	Number	11-13	3	

Terms Discount Percent	Number	14-19	6	
End-of-Record delimiter*	Char	20	1	“~”

Item Detail Notes – Up to one record for each Item Detail record, as needed (this record is not required)

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	“NOTES_DTL”
Notes	Char	11-90	80	
End-of-Record delimiter*	Char	91	1	“~”

Item Detail Adjustment Record (Service, Allowance, Promotion, or Charge Information) – Up to 5 records for each Item Detail record, as needed (this record is not required)

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	“SAC_DTL”
Allowance or Charge Indicator*	Char	11	1	“A” – allowance “C” – charge “P” – promotion
Service Allowance, Charge, or Promotion Code	Char	12-15	4	Allowance or charge type: <ul style="list-style-type: none"> • “A130” – Additional Material • “A170” – Adjustment • “A320” – Air Transportation Charge • “A720” – Broken Package Charge • “B510” – Consolidation • “B610” – Container Service Charge • “D170” – Free Goods • “C040” – Delivery • “C310” – Discount • “C350” – Distributor Discount Allowance • “C420” – Drayage • “C610” – Enclosure • “D240” – Freight • “D250” – Freshness/Leaker allowance • “D260” – Fuel Charge • “D270” – Fuel surcharge • “D350” – Goods and Services credit allowance • “D500” – Handling • “D750” – Inbound Freight Charge • “E410” – Loading • “E550” – Market Development Funds • “F170” – Pallet Exchange Charge • “F180” – Pallet • “F280” – Performance Allowance • “F340” – Pickup • “F670” – Price and Marketing Allowance • “F800” – Promotional Allowance • “F860” – Protective Service Charge • “F910” – Quantity discount

				<ul style="list-style-type: none"> • “G470” – Restocking Charge • “G870” – Shrink-Wrap Charge • “G950” – Slip Sheet, Truck • “G970” – Small Order Charge • “H040” – Special Delivery • “H400” – Stopcharge • “H430” – Storage • “H640” – Excise tax (destination) • “H750” – Sales tax (state and local) • “H910” - Temperature Protection • “I170” – Trade discount • “I310” – Truckload Discount • “I390” – Unloading • “I410” – Unsaleable merchandise allowance • “OTHR” – Other Miscellaneous Earning or Additive
Agency Qualifier Code	Char	16-17	2	Qualifier code <ul style="list-style-type: none"> • “AS” – assigned by seller
Agency Service, Promotion, Allowance or Charge code	Char	18-27	10	Service, allowance, promotion, or charge code
Amount	Number	28-42	15	Total amount of service allowance or charge
Allowance/Charge Percent Qualifier	Char	43	1	<ul style="list-style-type: none"> • “1” – Item list cost • “2” – Item net cost • “3” – Discount/gross • “4” – Discount/net • “5” – Base price per unit • “6” – Base price amount • “7” – Base price amount less previous discount <p>Do not include if Percent below is not used.</p>
Percent	Number	44-49	6	Total % of service, promotion, allowance or charge
Rate	Number	50-58	9	Rate of service, promotion, allowance or charge
UOM Code	Char	59-60	2	Unit of measure: <ul style="list-style-type: none"> • “CA” – case • “DO” – dollar basis amount • “EA” – each • “LB” – pound <p>This UOM is used with the Quantity below not the Rate above. If Quantity is not included do not include this UOM code.</p>
Quantity	Number	61-75	15	Total # of items tied to the service, allowance, promotion, or charge
Quantity Range	Number	76-90	15	Total # of items (within a range) tied to the service allowance, promotion, or charge
Method of Handling Code	Char	91-92	2	<ul style="list-style-type: none"> • “01” – bill back • “02” – off invoice • “06” – charge to be paid by customer
Reference Id	Char	93-122	30	Reference code used to define service, allowance, promotion, or charge
Additional	Char	123-142	20	Additional field to capture reference information

Reference ID				
Description	Char	143-222	80	
End-of-Record delimiter*	Char	223	1	“~”

SAC Syntax:

1. At least one of ‘Service, Allowance, Charge, or Promotion Code’ or ‘Agency Qualifier Code’ fields is required.
2. If either ‘Agency Qualifier Code’ or ‘Agency Service, Promotion, Allowance or Charge code’ is present, then the other is required.
3. If either ‘Allowance/Charge Percent Qualifier’ or ‘Percent’ is present, then the other is required.
4. If either ‘UOM Code’ or ‘Quantity’ is present, then the other is required.
5. If ‘Quantity Range’ is present, then ‘Quantity Range UOM’ is required.
6. If ‘Reference Id’ is present, then either ‘Service Allowance, Charge or Promotion Code’ or ‘Agency Service, Promotion, Allowance or Charge Code’ is required.
7. If ‘Additional Reference Id’ is present, then ‘Reference Id’ is required.

SAC Semantics:

1. If ‘Allowance or Charge Indicator’ is “A” or “C”, then at least one of the following is required – ‘Amount’, ‘Percent’, ‘Rate’.
2. ‘Amount’ is the total amount for the service, allowance, or charge.
3. If ‘Amount’ is present along with ‘Percent’ and/or ‘Rate’, then ‘Amount’ takes precedence.
4. ‘Rate’ is the allowance or charge rate per unit.
5. ‘Quantity’ and ‘Quantity Range’ is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice.
6. ‘Quantity’ and ‘Quantity Range’, used together, indicate a quantity range, which could be a dollar amount that is applicable to service, promotion, allowance, or charge.
7. ‘Reference Id’ is used in conjunction with ‘Service Allowance, Charge, or Promotion Code’ or ‘Agency Service, Promotion, Allowance or Charge Code’ to provide a specific reference number as identified by the code used.

Notes:

1. ‘Agency Service, Promotion, Allowance or Charge Code’ may be used to uniquely identify the service, allowance, or charge. In addition, it may be used in conjunction to further define the code in ‘Service Allowance, Charge, or Promotion Code’.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as “dollar basis amount”. This amount is represented in the field ‘Quantity’ where ‘UOM Code’ = “DO”.

File Trailer Record – One record required per file

Field Name	Type	EFS Xref? / Position	Max Length	Description
Record ID*	Char	1-10	10	“FILE_TTL”
Total # of line items*	Number	11-16	6	Total number of line items in the file
Total Units Shipped	Number	17-26	10	Note: If Total Units Shipped is present, Total Units Shipped UOM must also be provided.
Total Units Shipped UOM	Char	27-28	2	<ul style="list-style-type: none"> • “BX” – box • “CA” – case • “EA” – each • “LB” – pound • “PC” – piece • “BG” – bag • “DR” – drum

				<ul style="list-style-type: none"> • “GA” – gallon • “PA” – pail • “OZ” – ounce • “CN” – can • “UN” – unit • “TE” – tote • “CS” – cassette • “PK” – package <p>Note: If Total Units Shipped UOM is present, Total Units Shipped value must also be provided.</p>
Total Weight	Number	29-38	10	Note: If Total Weight is present, Total Weight UOM must also be provided.
Total Weight UOM	Char	39-40	2	<p>UOM of Weight:</p> <ul style="list-style-type: none"> • “LB” – pound • “GA” – gallon • “OZ” – ounce <p>Note: If Total Weight UOM is present, Total Weight value must also be provided.</p>
Total Gross Weight	Number	41-50	10	Note: If Total Gross Weight is present, Total Gross Weight UOM must also be provided.
Total Gross Weight UOM	Char	51-52	2	<p>UOM of Gross Weight:</p> <ul style="list-style-type: none"> • “LB” – pound • “GA” – gallon • “OZ” – ounce <p>Note: If Total Gross Weight UOM is present, Total Gross Weight value must also be provided.</p>
Total Tare Weight	Number	53-62	10	Note: If Total Tare Weight is present, Total Tare Weight UOM must also be provided.
Total Tare Weight UOM	Char	63-64	2	<p>UOM of Tare Weight:</p> <ul style="list-style-type: none"> • “LB” – pound • “GA” – gallon • “OZ” – ounce <p>Note: If Total Tare Weight UOM is present, Total Tare Weight value must also be provided.</p>
Total Order Quantity	Number	65-79	15	
Total Gross Invoice Amount*	Number	80-94	15	Total amount of invoice before terms discount (if discount is applicable)
Total Discount Amount	Number	95-109	15	Total Discount Amount
Total Net Invoice Amount	Number	110-124	15	Total amount of invoice due if paid by terms discount due date
End-of-Record delimiter*	Char	125	1	“~”