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File Interface Conventions

This document provides information on the download data requirements of the application and the upload data files generated by the application. The following conventions are used in this section of the document.

Text marked in red identifies changes implemented in the current release (V3.27).

Text marked in blue identifies changes that will be implemented in a future release.

Greyed Fields: Fields in this specification appearing with a grey background are supported in the database but not by the application in the current release. Such fields must be maintained in the download files through the use of a delimiter and/or value (which will be ignored). Greyed upload fields will be blank or contain the default value, with both terminated by a delimiter.

Field Specification: For each field, the following information is presented:

①	②	③	④	⑤	⑥
Field	**FieldName**	**Type**	**Min/Max**	**Req**	**Comments**
1 / A	LocationNumber	AN	01/06	M	(comment text)

① **Field:** Numeric and Alphanumeric counters. Alphanumerics are shown in spreadsheet sequence/format.

② **Field Name:** Field names are not unique. In most cases, the same name will be used wherever a field in one file is a key into another file. The standard for field name syntax is alphanumeric characters with no intervening spaces. A number in brackets "[n]" following the field name indicates an array of "n" positions (1 relative).

③ **Type:** identifies the type of field:

ID	identifier or "flag"; numeric, max two positions. Valid and default values specified.
Nn	unsigned numeric with n decimal positions
Sn	signed numeric with n decimal positions
AN	alphanumeric
DT	date-time format `(10/10 characters formatted mm/dd/yyyy)` or date-time format `(16/16 characters formatted mm/dd/yyyy hh:mm)` Date format must include slash (/) characters and leading zeroes if necessary. Years are always four digits. Combined date-time format includes space delimiter between date and time fields and colon character separating elements. Time is 24 hour format and includes leading zeroes if necessary. Code dates are treated as numerics, not dates.
TM	time format `(05/05 characters formatted hh:mm)` Time is 24 hour format and includes leading zeroes if necessary.

④ **Min/Max:** indicates the minimum and maximum length of the field, not including signs and required decimal points as necessary. Leading zeroes on numeric values and trailing spaces on alphanumeric values need not be downloaded.

⑤ **Required:** indicates whether the field is required in order to use the file. Note that this does not indicate whether the file itself is required; only fields within the file, if the file is used.

M	mandatory; field must be present if file is used
O	optional; use of field is not required. Default behavior is indicated for ID fields
C	conditional; field required under circumstances explained in footnotes

⑥ **Comments:** provides information on usage of the field and definition of values for ID fields. Unless otherwise specified, an ID field value to zero disables the option and a value of one or more enables the option. The zero value is always the default if the field is not downloaded.

Download Files

Following are downloaded data files used by the application. The filenames of these download files need to be in the following format: "DB", followed by the 3 or 4 character name of the file, followed by ".ASC" (i.e., DBRCT.ASC). Key fields establish relations between records across multiple files. The download files have the following logical relationships. Also, StartDate and EndDate are keys to several files; these fields are not repeated in the table below.

File Name	Primary Key	Subordinate Key
SID Session ID	(one record only)	
RCT Route Control	(one record only)	RouteDayNumber
ITM Item Master ItemNumber	InvoiceMessageKey	
		ItemPricingKey
		ItemDepositKey
		ItemTaxKeyn
		DefPriceTaxKeyn
		DefDeposTaxKeyn
AID Alternate Item Description	ItemNumber + Language	
IDT Item Detail File	CustomerDetailKey +ItemDetailKey	
GAS Gas	ItemNumber	
DOT Department Of Transportation	ItemNumber + Language	
ASM Assembly	ItemNumber	
CST Customer Master	CustomerNumber	PricingKey
		CustTaxKeyn
		MessageKeyn
AIN Alternate Item Number	CustomerNumber +ItemNumber	
SEQ Work Sequence	SequenceDay +SequenceNumber	
JOB Job Sequence	WorkOrderNumber	
ORD Service Order Detail	JobNumber	
ODC Order Detail Comment	JobNumber	ItemDetailTieLine
ODM Order Detail Medical	JobNumber	ItemDetailLine
PRC Pricing Control	CustomerPricingKey	DetailKey
PRD Pricing Detail	DetailKey + ItemNumber	--
TAX Tax Master	PriceKey + ItemKey +CustomerKey	
SUR Surcharge File	CustomerSurchargeKey +ItemSurchargeKey	
SRC Survey Control	SurveyTypeCode +SurveyKey	SurveyIndex
SRV Survey Detail	SurveyIndex	QuestionIndex
SRL Survey Lookup	CustomerNumber +WorkOrderNumber	LookupIndex
SRP Survey Print File	SurveyIndex	
AUT Authorized Item	AuthorizedItemListKey	GroupNumber
PRG Product Group	GroupNumber +ItemNumber	
MSG Message Master	MessageTypeCode +MessageKey	-- --
MMI Mail Message In	Recipient	
RTM Real-Time Messaging File		
SEL List Selection	ListTypeCode +ListIDCode + Language	-- --
STS Work Status File		
LDC Route Load Control File		
NCS Telecom Settings File		
DLY Telecom Delay File		

NOTE: The following file maintenance change has been implemented, but not tested. Use at your own discretion!

File Maintenance: adding and changing records may be performed on all download files (except DLY, MMI, NCS, RCT, RTM, and SID) by using xxxU, where xxx = the 3 character name of the file (i.e. use DBCSTU.ASC to add/change records within DBCST.ASC). Likewise, deleting records may be performed on all download files (except DLY, MMI, NCS, RCT, RTM, and SID) by using xxxD, where xxx = the 3 character name of the file (i.e. use DBCSTD.ASC to delete records within DBCST.ASC). For deletions, the key fields required are identified in the comments column of File Interface tables that follow. Both DBxxxU.ASC and DBxxxD.ASC files will be deleted after the information is merged with the original file during file maintenance.

Special Characters: if a pound sign (#) or a semicolon (;) is found as the first character of any record, that record will be ignored. This is useful for adding comments to the data. If these characters are to be used as data, put quotes surrounding the field that contains them.

AID Alternate Item Description File

Optional file, one record per item, per language. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	ItemNumber	AN 01/26	M	
2 / B	Language	AN 03/03	M	
3 / C	ItemDescription	AN 01/40	M	

AIN Alternate Item Number File

Optional file, one record per alternate item number. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	CustomerNumber	AN 01/18	M	
2 / B	ItemNumber	AN 01/26	M	
3 / C	AlternateItemNumber	AN 01/25	M	
4 / D	EnablePrintBoth	ID 01/01	O	0 = replaces ITM.ItemNumber (default) 1 = prints both ITM.ItemNumber and AlternateItemNumber

ASM Assembly File

Optional file, one record per item. Will only be used when adding an item to a customer invoice. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	ItemNumber	AN 01/26	M	
2 / B	ComponentItemNumber	AN 01/26	M	All components of an assembly must be of the same ITM.ItemTypeCode
3 / C	ComponentQuantity	N2 01/08	O	

AUT Authorized Item File

Optional file, one or more records per item list key. Used to establish authorized item list by customer. Items are authorized in groups as defined by the Product Group (PRG) file. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	AuthorizedItemListKey	N0 01/06	M	key field;
2 / B	GroupNumber	N0 01/06	M	link to PRG

CST Customer Master File

Required file, one record per customer. Provides information, lookup keys, and option settings for each customer on route. This file will be ignored during user initiated mid-day telecoms. For a record deletion, all SEQ and JOB records associated with the customer to be deleted will also be removed during file maintenance.

Field	FieldName	Format	Req	Comments
1 / A	CustomerNumber	AN 01/18	M	key field; must be unique;
2 / B	CustomerName	AN 01/40	M	
3 / C	CustomerAddress1	AN 01/40	O	
4 / D	CustomerAddress2	AN 01/40	O	
5 / E	CustomerCity	AN 01/30	O	
6 / F	CustomerState	AN 01/10	O	
7 / G	CustomerPostalCode	AN 01/15	O	
8 / H	CustomerPhoneNumber	AN 01/20	O	
9 / I	CustomerContactName	AN 01/30	O	
10 / J	CustomerTaxID	AN 01/20	O	
11 / K	Reserved	ID 01/01	O	reserved
12 / L	PaymentType	ID 01/01	O	1 = cash with credit card or send bill option (default)[1] 2 = send bill with cash or credit card option[2] 3 = send bill only 4 = cash/check only 5 = cash only, no checks 6 = prepaid NOTE: If RCT.EnableCollections = 0 (collections disabled), then only PaymentTypes of 3 and 6 are allowed. NOTE: Praxair uses PaymentType = 1 or 2 options.
13 / M	AuthorizedItemListKey	N0 01/06	O	to AUT Authorized Item file
14 / N	PricingKey	N0 01/09	O	to PRC Pricing Control file PRC.CustomerPricingKey
15 / O	Reserved	N0 01/08	O	reserved
16 / P	Reserved	N0 01/08	O	reserved
17 / Q	CustTaxKey1	AN 01/15	O	to TAX Tax Master file TAX.CustomerKey
18 / R	CustTaxKey2	AN 01/15	O	to TAX Tax Master file TAX.CustomerKey
19 / S	CustTaxKey3	AN 01/15	O	to TAX Tax Master file TAX.CustomerKey
20 / T	MessageKey[1]	N0 01/04	O	to MSG.MessageTypeCode type 02, display on screen
21 / U	MessageKey[2]	N0 01/04	O	to MSG.MessageTypeCode type 02, display on screen
22 / V	MessageKey[3]	N0 01/04	O	to MSG.MessageTypeCode type 03, reserved for future use
23 / W	MessageKey[4]	N0 01/04	O	to MSG.MessageTypeCode type 03, reserved for future use

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[1] password controlled change of cash to charge
[2] change is not password controlled

Field	FieldName	Format	Req	Comments
24 / X	MessageKey[5]	N0 01/04	O	to MSG.MessageTypeCode type 04, order/invoice header
25 / Y	MessageKey[6]	N0 01/04	O	to MSG.MessageTypeCode type 05, order/invoice trailer
26 / Z	Reserved	N0 01/03	O	reserved
27 / AA	OrderFormat	ID 01/01	O	0 = extended (default) 1 = non-extended 2 = alternate extended
28 / AB	InvoiceFormat	ID 01/01	O	0 = net extended (default) 1 = split extended 2 = net non-extended; if cash, check, or credit card used as payment then use InvoiceFormat = 0 3 = split non-extended; if cash, check, or credit card used as payment then use InvoiceFormat = 1 4 = alternate net; print price, extension, and remittance 5 = alternate net; do not print price, extension, remittance; if cash, check, or credit card used as payment then use InvoiceFormat = 7 6 = alternate net; print price, no extension, no remittance; if cash, check, or credit card used as payment then use InvoiceFormat = 7 7 = alternate net; print price and extension, no remittance
29 / AC	Reserved	ID 01/01	O	reserved
30 / AD	EnableWorkOrderMaintenance	ID 01/01	O	0 = disable (default) 1 = enable add/edit work orders, when adding default to WorkOrderType = 00 2 = enable add/edit work orders, when adding default to WorkOrderType = 01 3 = enable add/edit work orders, when adding default to WorkOrderType = 02 4 = enable add/edit work orders, when adding default to WorkOrderType = 03 5 = enable add/edit work orders, when adding default to WorkOrderType = 04
31 / AE	Reserved	ID 01/01	O	reserved
32 / AF	EnableUPCPrint	ID 01/01	O	0 = do not print UPC (default) 1 = print UPC on invoice

Field	FieldName	Format	Req	Comments
33 / AG	EnableDelayPrint	ID 01/01	O	0 = disable (default) 1 = enable delay print
34 / AH	PrintSequence	ID 01/01	O	0 = ascending ITM.ItemNumber 　　(default) 1 = ascending 　　ITM.PrintSequenceCust
35 / AI	PrintSubtotals	ID 01/01	O	0 = disable (default) 1 = subtotal by ITM.TypeCode 2 = subtotal by ITM.BrandCode
36 / AJ	EnablePriceEditOrds	ID 01/01	O	0 = disable (default) 1 = allow changes to both sale 　　and return prices 2 = only allow changes to return 　　Prices NOTE:　THIS FLAG IS NOT USED IN THE APPLICATION.
37 / AK	EnablePriceEditInvs	ID 01/01	O	0 = disable (default) 1 = allow changes to sale,return 　　and other item prices 2 = only allow changes to return 　　Prices NOTE:　THIS FLAG IS NOT USED IN THE APPLICATION.
38 / AL	Reserved	ID 01/01	O	Reserved
39 / AM	Reserved	ID 01/01	O	Reserved
40 / AN	Reserved	ID 01/01	O	Reserved
41 / AO	Reserved	ID 01/01	O	Reserved
42 / AP	Reserved	ID 01/01	O	Reserved
43 / AQ	Reserved	ID 01/01	O	Reserved
44 / AR	Reserved	ID 01/01	O	Reserved
45 / AS	Reserved	ID 01/01	O	Reserved
46 / AT	Reserved	ID 01/01	O	Reserved
47 / AU	Reserved	ID 01/01	O	Reserved
48 / AV	EnableAutoFillReturns	ID 01/01	O	0 = disable (default) 1 = auto-populate returns grids 　　with products from the sales 　　grids (with zero quantities) 2 = same as 1, but only use prod- 　　ucts with ITM.TypeCode = "1" 3 = same as 2, and force quantity 　　input even if 0; 　　not valid on Orders NOTE: for a value = 3, RCT.EnableProcessZeroQuantities must be = 1.　Also, this field only applies to Customer Invoices not Job Orders.
49 / AW	EnableAutoFillDamaged	ID 01/01	O	0 = disable (default) 1 = auto-populate damaged returns 　　grids with products from the 　　sales grids (with zero qtys) NOTE: this field only applies to Customer Invoices not Job Orders.

Field	FieldName	Format	Req	Comments
50 / AX	EnableOrderByLot	ID 01/01	O	0 = disable (default) 1 = order items by lot quantity 2 = order types by lot quantity
51 / AY	EnableSigCaptureService	ID 01/01	O	0 = disable (default) 1 = enable signature capture on service jobs after printing order/invoice 2 = enable signature capture on service jobs and then print on order/invoice 3 = require signature capture on service jobs and then print on order/invoice 4 = same as 2, force selection of signor relationship & reason when Job Contact NOT selected 5 = same as 3, force selection of signor relationship & reason when Job Contact NOT selected
52 / AZ	EnableSigCaptureDelivery	ID 01/01	O	0 = disable (default) 1 = enable signature capture on delivery jobs 2 = (not used) 3 = require signature capture on delivery jobs
53 / BA	EnableSigCapturePickup	ID 01/01	O	0 = disable (default) 1 = enable signature capture on pickup jobs after prt receipt 2 = enable signature capture on pickup jobs before prt receipt 3 = require signature capture on pickup jobs before prt receipt
54 / BB	EnableSigCaptureHook	ID 01/01	O	0 = disable (default) 1 = enable signature capture on hook jobs 2 = (not used) 3 = require signature capture on hook jobs
55 / BC	EnableSigCaptureSpotDrop	ID 01/01	O	0 = disable (default) 1 = enable signature capture on spot/drop jobs 2 = (not used) 3 = require signature capture on spot/drop jobs
56 / BD	EnablePickupReceipt	ID 01/01	O	0 = disable (default) 1 = enable printing of a Pickup Receipt on pickup jobs
57 / BE	EnableReturnsTrxn	ID 01/01	O	0 = disable (default) 1 = enable return transactions
58 / BF	EnableExchangeTrxn	ID 01/01	O	0 = disable (default) 1 = enable exchange transactions
59 / BG	EnableDamagedReturns	ID 01/01	O	0 = disable (default) 1 = enable damaged return transactions

Field	FieldName	Format	Req	Comments
60 / BH	EnableOtherTrxn	ID 01/01	O	0 = disable (default) 1 = enable other transactions
61 / BI	EnableLabor	ID 01/01	O	0 = disable 1 = enable labor (default)
62 / BJ	EnableARCollection	ID 01/01	O	0 = disable (default) 1 = enable A/R collections
63 / BK	EnableSurveyAudit	ID 01/01	O	0 = disable (default) 1 = enable survey audit
64 / BL	EnableResolutionCode	ID 01/01	O	0 = disable (default) 1 = enable entry resolution codes
65 / BM	EnableInvoiceComment	ID 01/01	O	0 = disable (default) 1 = enable invoice comments
66 / BN	CustomerDetailKey	N0 01/04	O	to IDT Item Detail file IDT.CustomerDetailKey
67 / BO	EnablePurchaseOrderRequired	ID 01/01	O	0 = disable, not required (dflt) 1 = enable, require purchase order entry
68 / BP	TemplateIndicator	ID 01/01	O	0 = not template customer (dflt) 1 = template customer profile
69 / BQ	Language	AN 03/03	O	This identifies the literals file that will be used to print cust-omer reports. The literals file used must follow the LNG_XXXR.BIN naming convention. The default is LNG_ENGR.BIN and is included with the boot files. See Appendices for further details.
70 / BR	Reserved	ID 01/01	O	reserved
71 / BS	**VerificationScanNumber**	**ID 01/01**	**O**	**0 = use ORD.ItemNumber to lookup ITM.ItemNumber and then scan for ITM.BarCode (default) 1 = scan for ORD.ItemSerialNumber**
72 / BT	CustomerSurchargeKey1	AN 01/18	O	to SUR Surcharge file SUR.CustomerSurchargeKey; if non-zero then search for match using this key first
73 / BU	CustomerSurchargeKey2	AN 01/18	O	to SUR Surcharge file SUR.CustomerSurchargeKey; if non-zero and CustomerSurchargeKey1 not found then search for match using this key

DLY Telecom Delay File

This optional file provides a means to put selected handheld terminals to "sleep" for a pre-determined period of time and allowing telecom sessions to occur with other handhelds prior to this unit "waking up". This record must be downloaded with each telecom for which a delay is desired. When a delay is not desired, then simply do not download this record. Typical usage is to perform two separate telecom sessions. This first session accepts the upload data and downloads the delay record. The second session downloads processed data and does not download a delay record. This record does not remain in effect until a new one is downloaded. This file will be ignored if the telecom was bad or if it was downloaded during a user initiated mid-day telecom.

Field	FieldName	Format	Req	Comments
1 /A	DelayType	N0 01/01	M	1 = delay using time of day 2 = delay using number of minutes
2 /B	DelayStart	TM 05/05	M	Type 1: time to begin telecom attempts in hh:mm 24 hour time format (00:00-23:59); all 0's denotes midnight Type 2: number of hours/minutes to delay following a good telecom in hh:mm 24 hour time format (00:00-23:59); all 0's denotes start immediately
3 /C	DelayStop	TM 05/05	M	Type 1: time to stop telecom attempts in hh:mm 24 hour time format (00:00-23:59); all 0's denotes midnight Type 2: number of hours/minutes to attempt to produce a good telecom in hh:mm 24 hour time format (00:00-23:59); all 0's denotes continuous retries

DOT Department Of Transportation File

Optional file, one record per item, per language. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 /A	ItemNumber	AN 01/26	M	
2 /B	Language	AN 03/03	M	
3 /C	Description[1]	AN 01/40	O	
4 /D	Description[2]	AN 01/40	O	
5 /E	Description[3]	AN 01/40	O	
6 /F	Description[4]	AN 01/40	O	
7 /G	Description[5]	AN 01/40	O	

GAS Gas File

Optional file, one record per item. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	ItemNumber	AN 01/26	M	
2 / B	PlacardCode	ID 01/02	M	01 = poision gas 02 = corrosive gas 03 = corrosive liquid 04 = flammable gas 05 = flammable liquid 06 = inhalation hazard 07 = non-flammable gas 08 = non-flammable liquid 09 = oxidizer 10 = compressed gas
3 / C	UNNumber	AN 01/06	O	
4 / D	EnablePrintBlankLine	ID 01/01	O	0 = do not print a blank line (default) 1 = print a blank (underscored) line on the Hazardous Materials Report
5 / E	CylinderStyle	AN 01/06	O	
6 /F	CylindersPerUnit	NO 01/04	0	Number of gas cylinders in one unit of product.
7 /G	TDGUnit	AN 01/02	O	Quantity units displayed for this product in the TDG report.
8 /H	HazmatUnit	AN 01/02	O	Quantity units displayed for this product in the Hazmat Manifest report.
9 /I	TDGSalesToInvUnitFactor	N6 01/12	O	The value that sales figures must be multiplied by to calculate the inventory consumed by a sale (some items are loaded on the truck in KGs but are sold in LBs). This factor is used to calculate remaining inventory for the TDG report.
10/J	HazmatSalesToInvUnitFactor	N6 01/12	O	The value that sales figures must be multiplied by to calculate the inventory consumed by a sale (some items are loaded on the truck in KGs but are sold in LBs). This factor is used to calculate remaining inventory for the Hazmat Manifest report.

IDT Item Detail File

Optional file. Will only be used when Item Details are to be collected. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	CustomerDetailKey	N0 01/04	M	
2 / B	ItemDetailKey	N0 01/04	M	

Field	FieldName	Format	Req	Comments
3 / C	DetailRequired[1]	ID 01/01	O	for Sales; 0 = do not input item detail (default) 1 = optional input of item detail 2 = required input of item detail 3 = optional input with prefill from ITM.DefaultVolume 4 = required input with prefill for values = 3 and 4: InputType must be = 1 or 2; InputControl must be = 0 or 1; InputResult must be = 0, 2, or 5
4 / D	DetailRequired[2]	ID 01/01	O	for Returns; same values as above
5 / E	DetailRequired[3]	ID 01/01	O	for Dmgd Returns; same as above
6 / F	DetailRequired[4]	ID 01/01	O	for Exchanges; same as above
7 / G	DetailRequired[5]	ID 01/01	O	for Other; same as above
8 / H	DetailRequired[6]	ID 01/01	O	for Labor; same as above
9 / I	DetailDescription	N0 01/04	O	to SEL, type 28
10/ J	InputType	ID 01/01	O	0 = field, AN 01/40 (default); corresponding IDT.InputControl must = 0 or 1 AND IDT.InputResult must = 0 or 5 1 = quantity, N2 01/08; corresponding IDT.InputResult must = 0, 1, 2, or 5 2 = input both a field and a qty; corresponding IDT.InputResult must = 0, 1, 2, or 5 3 = input 2 quantities, each with a prepopulated field/prompt sourced from the literals file (qty 1 = "METER START", qty 2 = "METER END"); corresponding IDT.InputControl must = 0 AND IDT.InputResult must = 3 or 4 4 = input from 1 to 5 qtys, each with a prepopulated field/ prompt from the literals file; corresponding IDT.InputControl must = 0 AND IDT.InputResult must = 0, 1, or 2; see below regarding additional calcs that may be performed using "ItemDetailCalculation.exe"
11/ K	InputControl	ID 01/01	O	0 = no input control (default) 1 = total number of entries must be equal to CTD.ItemQuantity 2 = total quantity entered must be equal to CTD.ItemQuantity

Field	FieldName	Format	Req	Comments
12 / L	InputResult	ID 01/01	O	0 = no calculated result of input (default) 1 = total all qtys, use result to populate CTD.ItemQuantity 2 = ttl all qtys, but do not use result to populate CTD.ItemQty, instead use result to calc an extended amt (pricing qty) Do not use in combination with ODM InsurancePortions 3 = calculate difference between qty 1 & qty 2, use result to populate CTD.ItemQuantity 4 = calculate difference between qty 1 & qty 2 and use result to calculate an extended amount (pricing quantity) 5 = use ttl # of line entries to populate CTD.ItemQuantity; corresp. InputControl must=0 NOTE: Only one IDT record per item may have a non-zero value.
13 / M	AllowsExceptions	ID 01/01	O	0 = No exceptions allowed 1 = Allow exceptions: Consult STE records to determine if detail input is required based on the RequireSerialNumber field in the STE file. If records do not exist in STE file, default serial number collection to those specified by the IDT file.

ItemDetailCalculation : This documents the calculations that are done in the ItemDetailCalculation file.

Input:
    5 quantities from DTL.ItemDetailQuantity[n] for current tab = InQty1, InQty2, InQty3, InQty4, and InQty5

Output:
    4 prompts with their associated quantites:
    OutPrompt1 = "Spare Sales"
    OutQty1 = InQty5 + (InQty1 – InQty2 – InQty5 – OutQty2 – OutQty3)

    OutPrompt 2 = "Exchanges"
    OutQty2 =
        IF (InQty3 > InQty4) AND ((InQty2 + InQty3 + InQty4 + InQty5) > InQty1)
        THEN   OutQty2 = (InQty1 – InQty2 – InQty4 – InQty5)
        ELSE   OutQty2 = InQty3

    OutPrompt3 = "Upgrades"
    OutQty3 =
        IF (InQty4 > InQty3) AND ((InQty2 + InQty3 + InQty4 + InQty5) > InQty1)
        THEN   OutQty3 = (InQty1 – InQty2 – InQty4 – InQty5)
        ELSE   OutQty3 = InQty4

    OutPrompt4 = "Ending Inventory"

OutQty4 = InQty2 + OutQty1 + OutQty2 + OutQty3

For example, if these 5 values are inputted: InQty1 = 20, InQty2 = 5, InQty3 = 8, InQty4 = 5, and InQty5 = 2, then the 4 output quantities will be: OutQty1 = 2, OutQty2 = 8, OutQty3 = 5, and OutQty4 = 20.

Calculated as follows:
OutQty1 = 2 + (20 – 5 – 2 – 8 – 5) = 2
OutQty2 = IF (8 > 5) AND ((5 + 8 + 5 + 2) > 20) which it is not, so use the ELSE which is InQty3 = 8
OutQty3 = IF (5 > 8) AND ((5 + 8 + 5 + 2) > 20) which it is not, so use the ELSE which is InQty4 = 5
OutQty4 = 5 + 2 + 8 + 5 = 20

Displayed read-only as follows:

Spare Sales	2
Exchanges	8
Upgrades	5
Ending Inventory	20

So, the resuling grid on dialog 3397 Detail Entry would look something like this:

Inventory (from CU)	20
Total Fulls	5
QCC MTs	8
POL MTs	5
Unacceptable (MTs)	2
Spare Sales	2
Exchanges	8
Upgrades	5
Ending Inventory	20

ITM Item Master File

Required file, one record per product item, empty item, other item available for sale on route. This file defines items that may be transacted with customers. "Other" items do not have physical inventory maintained. Brand definition and type definition items represent logical groupings of product items, and cannot be transacted with customers. Product items associated with a particular type description should be assigned a TypeCode corresponding to the ItemNumber of the type description record, and likewise with brand descriptions. Type and Brand definition ItemNumbers must not duplicate any other ItemNumber. Type description item pricing used only for inventory valuation. This file will be ignored during user initiated mid-day telecoms. For an Item Master File record deletion all AID, GAS, DOT, ASM, AIN, ORD, PRG, and LDC file records associated with the item to be deleted will also be removed during file maintenance.

Field	FieldName	Format	Req	Comments
1 / A	ItemNumber	AN 01/26	M	key field; must be unique;
2 / B	ItemTypeCode	ID 01/02	M	01 = part item 02 = empty item 03 = other item[3] 04 = labor item[3] 98 = brand definition item 99 = type definition item
3 / C	ItemDescription	AN 01/40	O	
4 / D	BrandCode	AN 01/06	O	n/a for ItemTypeCodes 98 & 99
5 / E	TypeCode	AN 01/06	O	n/a for ItemTypeCodes 98 & 99 Praxair uses TypeCode=1 for GAS products and TypeCode=2 for hardgoods.
6 / F	PrintSequenceRoute	N0 01/06	O	
7 / G	PrintSequenceCust	N0 01/06	O	
8 / H	OrderLotQuantity	N0 01/06	O	
9 / I	BarCode	AN 01/20	O	
10 / J	ItemWeight	N2 01/08	O	
11 / K	UnitOfMeasure	AN 01/06	O	for ItemWeight
12 / L	Assembly	ID 01/01	O	0 = not an assembly item (default) 1 = assembly, priced by assembly 2 = assembly, priced by components Note: RCT.EnableItemDetail must be = 1 to enable utilization of Assembly logic. Define assemblies using the ASM Assembly File or ORD Service Order Detail File.
13 / M	ItemDetailKey[1]	N0 01/04	O	to IDT Item Detail file IDT.ItemDetailKey
14 / N	ItemDetailKey[2]	N0 01/04	O	
15 / O	ItemDetailKey[3]	N0 01/04	O	
16 / P	Reserved	N0 01/02	O	reserved
17 / Q	InvoiceMessageKey	N0 01/04	O	to MSG Message Master file, type 06
18 / R	ItemPricingKey	N0 01/06	O	to PRD Pricing Detail file PRD.PricingKey
19 / S	ItemDepositKey	N0 01/06	O	to PRD Pricing Detail file PRD.PricingKey to SEL, type 20 (type 99 only)
20 / T	ItemTaxKey1	N0 01/02	O	to TAX Tax Master file TAX.ItemKey

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[3]   no inventory maintained for other or labor items

Field	FieldName	Format	Req	Comments
21 / U	ItemTaxKey2	N0 01/02	O	to TAX Tax Master file TAX.ItemKey
22 / V	ItemTaxKey3	N0 01/02	O	to TAX Tax Master file TAX.ItemKey
23 / W	DefaultDebitPrice[4]	N4 01/10	O	n/a for ItemTypeCode 02 (empty)
24 / X	DefaultDepositPrice	N4 01/10	O	n/a for ItemTypeCode 03 (other)
25 / Y	DefaultCreditPrice	N4 01/10	O[5]	n/a for ItemTypeCodes 02 & 03 (empty & other items)
26 / Z	DefPriceTaxKey1[6]	N0 01/02	O	to TAX Tax Master TAX.PriceKey
27 / AA	DefPriceTaxKey2	N0 01/02	O	to TAX Tax Master TAX.PriceKey
28 / AB	DefPriceTaxKey3	N0 01/02	O	to TAX Tax Master TAX.PriceKey
29 / AC	DefDeposTaxKey1	N0 01/02	O	to TAX Tax Master file
30 / AD	DefDeposTaxKey2	N0 01/02	O	to TAX Tax Master file
31 / AE	DefDeposTaxKey3	N0 01/02	O	to TAX Tax Master file
32 / AF	Reserved	ID 01/01	O	Reserved
33 / AG	BulkType	ID 01/01	O	0 = not bulk (default) 1 = bulk 2 = mini-bulk
34 / AH	DefaultVolume	N2 01/08	O	
35 / AI	ItemSurchargeKey	AN 01/18	O	to SUR Surcharge File SUR.ItemSurchargeKey; only applies for items with ITM.ItemTypeCode = 01 (part items)

JOB Job Sequence File

Optional file, one record per job for each customer stop. Used to determine the job(s) needed to be serviced for the customers which are to be serviced. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	SequenceNumber	N0 01/04	O	
2 / B	WorkOrderNumber	AN 01/18	M	key field;
3 / C	JobNumber	AN 01/18	M	Must be unique. For Delivery and Pickup JobTypes this is the PRO#;
4 / D	JobType	N0 01/02	M	00 = Service (default) 01 = Delivery (LTL) 02 = Pickup (LTL) 03 = Hook (LTL) 04 = Spot/Drop (LTL)
5 / E	PaymentType	N0 01/01	M	0 = use CST.PaymentType(dflt) 1 - 6 = overrides CST.PaymentType
6 / F	ServicePriority	ID 01/01	O	1 = high priority 2 = normal priority (default) 3 = low priority
7 / G	StartTime	TM 05/05	O	StartTime/EndTime is the time window that the customer should be visited between; 24 hour format
8 / H	EndTime	TM 05/05	O	24 hour format
9 / I	JobDescription	AN 01/40	O	
10 / J	Contact	AN 01/40	O	

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[4]   default prices used in absence of price file entry for item/customer; if use decimal positions that exceed the number of positions defined by RCT.DecimalPositions then these defualt prices will be rounded

[5]   if credit price not present, then debit price used for all transactions

[6]   default tax keys used only in conjunction with default price or deposit

Field	FieldName	Format	Req	Comments
11 / K	Location	AN 01/20	O	
12 / L	TroubleCode	N0 01/04	O	to SEL, type 22
13 / M	Comments	AN 01/40	O	
14 / N	Reserved	AN 01/06	O	Reserved
15 / O	Reserved	ID 01/01	O	Reserved
16 / P	PrePaidOrder	ID 01/01	O	Only used if ORD file/recs exist 0 = order not prepaid (default) 1 = prepaid order; no chgs allowed
17 / Q	EquipmentNumber	AN 01/18	O	Used for LTL JobTypes. For Hook and Spot/Drop jobs, this is the trailer# of equipment being hooked or spotted/dropped.
18 / R	Pieces	N0 01/05	O	Only used for JobType = 01 (Delivery) and = 02 (Pickup); total number of pieces being delivered or picked up
19 / S	Weight	N0 01/07	O	Only used for JobType = 01 (Delivery) and = 02 (Pickup); total weight of freight being delivered or picked up
20 / T	PurchaseOrderNumber	AN 01/25	O	
21 / U	PurchaseOrderRelease	AN 01/25	O	
22 / V	MaximumDelivery	N2 01/08	O	
23 / W	TotalTax	N2 01/08	O	
24 / X	Reserved	N2 01/08	O	Reserved
25 / Y	TotalFreight	N2 01/08	O	
26 / Z	TotalOther	N2 01/08	O	

LDC Route Load Control File

Optional file, may have multiple records per ItemNumber + ItemExtension per day (quantities will be combined). This file determines quantities automatically input in the Load function. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	LoadRouteDay	N0 01/01	O	Must download 0 for all
2 / B	ItemNumber	AN 01/26	M	key field; Associated ITM.ItemTypeCode must be = 01 (part) or = 02 (empty)
3 / C	LoadQuantity	N2 01/08	O	
4 / D	ItemExtension	AN 01/30	O	key field;

MMI Mail Message In File

Optional file, one record per message. Download of this file will only add to, not replace, existing MMI file/records.

Field	FieldName	Format	Req	Comments
1 / A	Sender	N0 01/04	M	to SEL, type 18 (mail user name)
2 / B	MessageID	N0 01/04	M	
3 / C	MessageText	AN 01/255	M	

MSG Message Master File

Multiple records per key permitted. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	MessageTypeCode	N0 01/02	M	01 = route display message 02 = customer display message 03 = reserved for future use 04 = invoice header (0000 = default) 05 = invoice trailer (0000 = default) 06 = part print message 07 = fixed mail message 08 = route print message
2 / B	MessageKey	N0 01/04	M	
3 / C	MessageSequence	N0 01/02	O	required for multiple record messages; messages print in ascending order; N/A for type 07 messages
4 / D	MessageOption	ID 01/01	O	Types 04, 05, and 08 only 0 = 1 message per line, normal characters (default) 1 = 1 message per line, double-width characters 2 = up to 2 messages per line, normal characters 3 = up to 3 messages per line, condensed characters NOTE: All printed lines will be centered. If multiple messages per line then each MessageText is trimmed of any leading/trailing spaces and concatenated with the next MessageText with one blank space in-between. (If MessageOption = 2 and MessageText is filled to a full 40 characters in both messages, then do not insert a blank space in-between.) MessageOptions 2 and 3 are only valid for 80 column reports. When multiple messages print per line, only messages with similar MessageOptions (2 and 3 only) will print on the same line.
5 / E	MessageText	AN 01/40	M[7]	Note: if MessageTypeCode = 04 (invoice header) and the words "Healthcare" or "Medigas" exist in the MessageText, this route is considered a medical route.

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[7]   only use the first 20 characters when MessageOption = 1 (double-width characters) AND printing a 40 column report.

NCS Telecom Settings File

Optional file. This file configures the NCS telecom settings.

Field	FieldName	Format	Req	Comments
1 / A	TcomType	ID 01/01	O	0 = begin/end of day (default) 1 = mid-day (after begin day tcom and before end day tcom)
2 / B	RASEnabled	ID 01/01	O	0 = RAS disabled (default) 1 = RAS enabled
3 / C	RASDialPrefix	AN 01/32	O	Provides the dial prefix for Remote Access Server (RAS) connections.
4 / D	RASPhoneNumber	AN 01/32	O	Provides the phone number to be used for RAS connections.
5 / E	RASModemName	AN 01/128	O	Provides the name of the modem to be used for RAS connections.
6 / F	RASDomain	AN 01/32	O	Provides the dialup PPP server with a Windows NT Domain name. "*" defines any local domain (default).
7 / G	RASUserName	AN 01/32	0	Provides dialup PPP server with "UserName" required to connect.
8 / H	RASPassword	AN 01/32	0	Provides dialup PPP server with "Password" required to connect.
9 / I	EnableDHCP	ID 01/01	O	Enables DHCP configuration for direct network connections. 0 = no DHCP 1 = use DHCP (default)
10 / J	IPAddress	AN 01/15	O	Sets the IP Address of the client device for direct network connections. Ignored if EnableDHCP is set to 1.
11 / K	SubnetMask	AN 01/15	O	Sets the subnet mask of the client device for direct network connections. Ignored if EnableDHCP is set to 1.
12 / L	DefaultGateway	AN 01/15	O	Sets the IP Address of the default gateway to be used for direct network connections.
13 / M	DNS	AN 01/128	O	Sets the name of the Domain Name Server (DNS) used for direct network connections.
14 / N	NNDISActive	ID 01/01	0	0 = NNDIS inactive (default) 1 = use NNDIS for LAN connections.
15 / O	NNDISLineSpeed	N0 01/06	0	RS-485 line speed used for transmission. "115200" (default) and "460800" are valid values.
16 / P	Reserved	ID 01/01	0	Reserved

Field	FieldName	Format	Req	Comments
17/Q	NNDISOwlAttach	ID 01/01	O	Connects through a 6710 Access Point and throttles the active number of connections to a "Nor*Ware® 6920 Communications Server" (version 2.5 or greater) per RS-485 connection. 0 = inactive (default) 1 = active (requires RS485Lan2Com to be set to "1").
18/R	NNDISDisconnectDelay	N0 01/03	O	Sets the time to wait for activity to finish before disabling the RS-485 NDIS driver. Defaults to "20".
19/S	SessionUserName	AN 01/16	O	Indicates the User Name of the client to the 6920 Communications Server. Note: UserName is implemented for future use and is currently not supported on the 6920 Communications Server.
20/T	SessionPassword	AN 01/16	O	Indicates the Password of the client to the 6920 Communications Server. Note: UserName is implemented for future use and is currently not supported on the 6920 Communications Server.
21/U	ServerAddress	AN 01/128	O	IP address or host name of the 6920 Communications Server to which client device is to connect.
22/V	ServerPort	AN 01/64	O	TCP/IP port number, or the service entry name in the services file, on which the 6920 Communications Server is configured. Defaults to "44965".
23/W	SessionIOTimeOut	N0 01/03	O	Sets the time to wait for activity from the 6920 Communications Server before declaring a server timeout error. Defaults to 30 minutes.
24/X	OverrideFileError	ID 01/01	O	Indicates whether errors caused by missing files should be reported to the 6920 Communications Server as a GOOD TCOM. 0 = no override (default) 1 = override file errors

Field	FieldName	Format	Req	Comments
25 / Y	KeepFileDateTime	ID 01/01	O	Determines if the last write time of a file should be placed on a transferred file. By default, the time sent to the 6920 Communications Server is in local time. If you want time zone conversion, enable the UseUTC field describe below (available on 6920 Communications Server version 2.62 and greater). 0 = use transfer time (default) 1 = keep source last write time
26 / Z	UseUTC	ID 01/01	O	Determines if the date and time used on a file should be in Universal Time Coordinated (UTC) which changes time across time zones. Available on 6920 Communications Server version 2.62 and greater. 0 = do not use UTC (default) 1 = use UTC
27 / AA	AllowClock	ID 01/01	O	Allows the 6920 Communications Server to update the system clock. If enabled, the client device will set the client's system time based on the UTC system time of the 6920 Comm Server. It is important that both the 6920 Comm Server & the client have the correct appropriated time zone information. Available on 6920 Comm Server version 2.62 and greater. 0 = do not allow clock updates 1 = allow clock updates (default) Note: also see related fields in the RCT Route Control file (TimeZoneOffset and DaylightSavingsOffset).
28 / AB	Reserved	ID 01/01	O	Reserved
29 / AC	BaudRate	N0 04/06	O	Sets the baud rate. Default = 115200. Other valid values include: 57600, 56000, 38400, 19200, 14400, 9600, 4800, 2400, and 1200

ODC Order Detail Comment File

Optional file, one or more records per item. Contains comments to be displayed for specific order details. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	JobNumber	AN 01/18	M	
2 / B	ItemDetailLine	N3 01/06	M	order in which to display comments
3 / C	ItemDetailTieLine	N3 01/06	M	ties comment to ORD.ItemDetailLine; 000 = comment associated with an entire job rather than an individual line, will display on 9060 Customer Messages and print on Alternate Invoice/Order Report
4 / D	ItemComment	AN 01/40	O	

ODM Order Detail Medical File

Optional file that contains medical information for specific order details. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	JobNumber	AN 01/18	M	
2 / B	ItemDetailLine	N3 01/06	M	ties medical information to ORD.ItemDetailLine; only applies to Sales and Labor items
3 / C	PrimaryInsuranceNumber	AN 01/03	O	
4 / D	SecondaryInsuranceNumber	AN 01/03	O	
5 / E	TertiaryInsuranceNumber	AN 01/03	O	
6 / F	PrimaryInsurancePortion	N2 01/08	O	percentage
7 / G	SecondaryInsurancePortion	N2 01/08	O	percentage
8 / H	TertiaryInsurancePortion	N2 01/08	O	percentage
9 / I	~~CustomerPortion~~ Reserved	N2 01/08	O	reserved
10 / J	RentalType	ID 01/01	O	0 = delivery (default) 1 = return 2 = exchange
11 / K	RentalStartDate	DT 10/10	O	mm/dd/yyyy
12 / L	RentalEndDate	DT 10/10	O	mm/dd/yyyy

ORD Service Order Detail File

Optional file that contains data for customer orders. If the associated JOB.PrePaidOrder is set to one then no changes to the order are allowed at the point of service. Less Than Load JobTypes will ignore this file.   When an ORDU record is downloaded to change an item quantity, the update quantity is added to the existing quantity. The only way to zero an ORD quantity is to send down a ORDD delete record. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	JobNumber	AN 01/18	M	
2 / B	ItemTrxnCode	ID 01/02	M	01 = sales 02 = returns 03 = damaged returns 04 = exchange 05 = other item 06 = labor item
3 / C	ItemNumber	AN 01/26	M	key field
4 / D	ItemQuantity	N2 01/08	M	
5 / E	ItemPrice	N4 01/10	M	use this price, even if zero; if use decimal positions that exceed the number of positions defined by RCT.DecimalPositions then this price will be rounded
6 / F	ItemDeposit	N4 01/10	O	use this deposit, even if zero; if use decimal positions that exceed the number of positions defined by RCT.DecimalPositions then this deposit will be rounded
7 / G	Reserved	N2 01/06	O	Reserved
8 / H	ItemExciseTax	N2 01/06	O	applied at the assembly level, not the component level
9 / I	ItemDetailLine	N3 01/06	M	key field; must be unique within JobNumber; determines the order in which to print detail lines
10/ J	ItemDetailTieLine	N3 01/06	O	a non-zero/blank value identifies item as a component and ties it to the parent assembly ItemDetailLine; all components of an assembly must be of the same ORD.ItemTrxnCode
11/ K	ItemReferenceQuantity	N2 01/08	O	qantity ordered
12/ L	Reserved	N4 01/08	O	Reserved
13/ M	Reserved	AN 01/18	O	Reserved
14/ N	ItemSerialNumber	AN 01/25	O	
15/ O	Reserved	AN 01/25	O	Reserved
16/ P	ItemCustomerOwned	ID 01/01	O	0 = company owned (default) 1 = customer owned

PRC Pricing Control File

This file and the Pricing Detail File contain pricing data used for customer invoices. CustomerPricingKey is minimum required key; if StartDate and EndDate present, they are also used as keys. If StartDate and EndDate used for multiple records with same CustomerPricingKey, date ranges must be contiguous and may not overlap. These files used for both Pricing and Deposit. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	CustomerPricingKey	N0 01/09	M	key field; from CST.PricingKey;
2 / B	StartDate	DT 10/10	O	key field
3 / C	EndDate	DT 10/10	O	key field
4 / D	DetailKey	N0 01/09	M	to PRD Pricing Detail File PRD.DetailKey

PRD Pricing Detail File

Detail file for PRC (above). This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	DetailKey	N0 01/09	M	key field; from PRC.DetailKey;
2 / B	PricingKey	N0 01/06	M	key field; from ITM.ItemPricingKey
3 / C	PriceTaxKey1	N0 01/02	O	to TAX Tax Master file TAX.PriceKey
4 / D	PriceTaxKey2	N0 01/02	O	to TAX Tax Master file TAX.PriceKey
5 / E	PriceTaxKey3	N0 01/02	O	to TAX Tax Master file TAX.PriceKey
6 / F	DebitPrice	N4 01/10	M	or DepositPrice; if use decimal positions that exceed the number of positions defined by RCT.DecimalPositions then this debit price will be rounded
7 / G	CreditPrice	N4 01/10	O[8]	if use decimal positions that exceed the number of positions defined by RCT.DecimalPositions then this credit price will be rounded

PRG Product Group File

This file is used to define product groupings. All item numbers in records for a given group number are included in that group. Any item may be included in any number of groups. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	GroupNumber	N0 01/06	M	key field;
2 / B	ItemNumber	AN 01/26	M	key field

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[8]   SalesPrice used if CreditPrice zero or not present

RCT Route Control File

Required file, one record only. Establishes values for route-level fields and options affecting start and end of day, inventory, customers, and the route itself. If a value of zero is downloaded in fields marked "persistent", then the field's previous value is retained. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	LocationNumber	AN 01/06	M	persistent
2 / B	RouteNumber	AN 01/12	M	persistent
3 / C	SalesRepNumber	AN 01/10	M	persistent
4 / D	VehicleNumber	AN 01/18	O	persistent
5 / E	VehicleOdometer	N0 01/06	O	persistent
6 / F	EquipmentNumber	AN 01/18	O	persistent; used when JOB.JobTypes = 01 (Delivery), 03 (Hook) or 04 (Spot/Drop) exist
7 / G	SalesRepName	AN 01/30	O	
8 / H	DocumentPrefix	N0 01/08	M	persistent
9 / I	DocumentNumber	N0 01/04	M	persistent[9]
10 / J	Password[1]	AN 01/10	O	
11 / K	Password[2]	AN 01/10	O	
12 / L	Password[3]	AN 01/10	O	
13 / M	Password[4]	AN 01/10	O	
14 / N	Password[5]	AN 01/10	O	administrative password[10]; required if any other passwords exist
15 / O	Password[6]	AN 01/10	O	primary user password, initial password only. If a password already exists in the HHC database, this password is ignored.
16 / P	Password[7]	AN 01/10	O	alternate user password
17 / Q	PasswordArray[1]	N0 01/01	M	for DateTimeChange; Only used with Passwords [1]-[5]: 0 = no password prompted (dflt) 1-5 = prompt for Passwordn
18 / R	PasswordArray[2]	N0 01/01	M	for PriceChange; same as above
19 / S	PasswordArray[3]	N0 01/01	M	for PromoOverride; same as above
20 / T	PasswordArray[4]	N0 01/01	M	for RouteSetup; same as above
21 / U	PasswordArray[5]	N0 01/01	M	for TelecomSetupChange; same as above
22 / V	PasswordArray[6]	N0 01/01	M	for Inventory; same as above
23 / W	PasswordArray[7]	N0 01/01	M	for PayTypeChange; same as above
24 / X	PasswordArray[8]	N0 01/01	M	for ProgramExit; same as above
25 / Y	PasswordArray[9]	N0 01/01	M	for Settlement; same as above
26 / Z	PasswordArray[10]	N0 01/01	M	reserved for future use
27 / AA	PasswordArray[11]	N0 01/01	M	reserved for future use
28 / AB	PasswordArray[12]	N0 01/01	M	reserved for future use
29 / AC	PasswordArray[13]	N0 01/01	M	reserved for future use
30 / AD	PasswordArray[14]	N0 01/01	M	reserved for future use
31 / AE	PasswordArray[15]	N0 01/01	M	reserved for future use
32 / AF	PasswordArray[16]	N0 01/01	M	reserved for future use

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[9] DocumentNumber is incremented before use. Therefore, first document produced will have a value one greater than this field as downloaded.

[10] Password5 may be used in lieu of any other password.

Field	FieldName	Format	Req	Comments
33 / AG	PasswordRetry	N0 01/01	O	Only used with Password[6] & [7]: 0 = no limit (default) 1-9 = maximum number of retries allowed
34 / AH	EnableJobSelection	N0 01/01	O	0 = Bypass 3012 Job Selection if only one job exists for a work order (default) 1 = Always display 3012 Job Selection
35 / AI	EnableJobBitmap	N0 01/01	O	0 = disable (default) 1 = enable display of bitmaps for associated job types
36 / AJ	EnableItemDetail	N0 01/01	O	0 = disable (default) 1 = enable input of item details
37 / AK	RoutePrinter	ID 02/02	O	00 = retain current value (dflt) 99 = no printer All other values will point to the corresponding printer defined in the [Printing] section of FS32.INI
38 / AL	DepotPrinter	ID 02/02	O	Applies only to End Day function 00 = retain current value (dflt) 99 = no printer All other values will point to the corresponding printer defined in the [Printing] section of FS32.INI
39 / AM	EnableDelayPrint	ID 01/01	O	0 = disable (default) 1 = allow printing of non-customer numbered documents to be delayed
40 / AN	Reserved	ID 01/01	O	Reserved
41 / AO	Reserved	ID 01/01	O	Reserved
42 / AP	PromptOdomInput	ID 01/01	O	0 = no prompting (default) 1 = prompt at start/end day 2 = prompt at start/end day plus at each customer selection
43 / AQ	EnableLocationEdit	ID 01/01	O	0 = disable; except when SCT.App- licationState = 0 (default) 1 = enable edit of RCT.LocationNumber field; if changed then take no action 2 = enable edit of RCT.LocationNumber field; if changed then remove SEQ, J0B, ORD, ODC, & ODM download files, the SID file, and the previous day's upload files including INV Route Inventory 3 = enable edit of RCT.LocationNumber field; if changed then remove all download and upload files by initializing the database

Field	FieldName	Format	Req	Comments
44/AR	EnableRouteEdit	ID 01/01	O	same values as EnableLocationEdit
45/AS	EnableStartDaySalesRepEdit	ID 01/01	O	0 = disable (default) 1 = enable edit of sales representative field at start day
46/AT	EnableStartDayNameEdit	ID 01/01	O	0 = disable (default) 1 = enable edit of name field at start day
47/AU	EnableStartDayDateTimeEdit	ID 01/01	O	0 = disable (default) 1 = enable edit of date and time fields at start day
48/AV	Reserved	ID 01/01	O	Reserved
49/AW	EnableCollections	ID 01/01	O	0 = disabled 1 = enable collections and 4000 [Settlement] button (default) NOTE: If collections disabled, then CST.PaymentType fields must all be = 3 (send bill only) or = 6 (prepaid)
50/AX	EnableEODExpenses	ID 01/01	O	0 = disable (default) 1 = enable expense entry at EOD
51/AY	EnableEODAdjChecks	ID 01/01	O	0 = disable (default) 1 = enable check adjusts at EOD
52/AZ	EnableEODAddChecks	ID 01/01	O	0 = disable (default) 1 = enable check additions at EOD
53/BA	ReqEODDepositReport	ID 01/01	O	
54/BB	ReqEODSalesReport	ID 01/01	O	
55/BC	ReqEODRteActivReport	ID 01/01	O	
56/BD	ReqEODRteStlmtReport	ID 01/01	O	
57/BE	ReqEODRouteReviewRpt	ID 01/01	O	
58/BF	ReqEODRtnExchReport	ID 01/01	O	
59/BG	ReqEODPrcChgReport	ID 01/01	O	
60/BH	Reserved	ID 01/01	O	
61/BI	ReqEODNoSaleReport	ID 01/01	O	
62/BJ	EnableInventory	ID 01/01	O	0 = disable; app will auto set RCT.InventoryVariance = 1 (variance not due at EOD) AND RCT.InvenOversell = 2 (enable oversell and do not prompt) 1 = enable [Inventory] button on 0000 Main Menu (default) Load and Unload are not required, but inventory rolls (Perpetual Inventory) 2 = enable [Inventory] button on 0000 Main Menu. Force Load Vehicle before Service Customer and force Unload before EOD (Daily Inventory)
63/BK	Reserved	ID 01/01	O	Reserved
64/BL	Reserved	ID 01/01	O	Reserved

Field	FieldName	Format	Req	Comments
65 / BM	UnloadReportFormat	ID 01/01	O	0 = standard Unload Vehicle Report (default) 1 = alternate EOD Truck Reconciliation Report
66 / BN	LoadReqReportFormat	ID 01/01	O	0 = disable Load Request (dflt) 1 = request qty only report 2 = add on qty report[11]
67 / BO	Reserved	ID 01/01	O	Reserved
68 / BP	AutoCalculateLoadOut[12]	ID 01/01	O	0 = End Inventory+LDC (default) 1 = End Inventory+LDC (same as 0) 2 = reserved for future use 3 = LDC file only
69 / BQ	AutoCalculateLoadIn	ID 01/01	O	0 = disable (default) 1 = calculate load in quantities for Return to Stock and Damaged Returns; disable chgs 2 = calculate load in quantities for Return to Stock and Damaged Returns; enable chgs 3 = calculate load in quantities for Inventory and Damaged Returns; disable changes 4 = calculate load in quantities for Inventory and Damaged Returns; enable changes
70 / BR	InventoryVariance	ID 01/01	O	0 = disable (default) 1 = variance not due at End Day 2 = variance due at End Day 3 = shortages only due at End Day NOTE: if RCT.EnableInventory = 0, then the app will automatically set the value of this field to 1.
71 / BS	InvenRptSubtotal	ID 01/01	O	0 = disable (default) 1 = subtotal by ITM.TypeCode (for Load Vehicle report only)
72 / BT	InvenOversell	ID 01/01	O	0 = disable (default) 1 = enable oversell of inventory 2 = enable oversell & don't prompt NOTE: if RCT.EnableInventory = 0, then the app will automatically set the value of this field to 2.
73 / BU	Reserved	ID 01/01	O	Reserved
74 / BV	EnableTelecomSetup	ID 01/01	O	0 = disable (default) 1 = enable telecom setup
75 / BW	EnableLoadTelecom	ID 01/01	O	0 = disable (default) 1 = enable tcom after load/reload
76 / BX	EnableMidDayTelecom	ID 01/01	O	0 = disable (default) 1 = enable tcom during route day

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[11] user inputs request quantity, report includes ending inventory, calculated add on quantity
[12] End Inventory = items/quantities entered on Inventory page of Load In function

Field	FieldName	Format	Req	Comments
77 / BY	EnableBackgroundTelecom	ID 01/01	O	0 = disable (default) 1 = enable real-time messaging NOTE: In order to enable real-time messaging a RTM Real-Time Messaging File must also exist. Also when statusing is enabled, only send SCD records where the associated STS.SendStatusOption=1
78 / BZ	EnableNoService	ID 01/01	O	0 = disable (default) 1 = enable no service at point of sale
79 / CA	Reserved	ID 01/01	O	Reserved
80 / CB	Reserved	ID 01/01	O	Reserved
81 / CC	EnableAddCustomer	ID 01/01	O	0 = disable (default) 1 = enable add/new customer
82 / CD	EnableHazardousMaterials	ID 01/01	O	0 = disable (default) 1 = enable U.S. hazardous materials requirements 2 = enable Canadian hazardous materials requirements
83 / CE	TimeZoneOffset	S0 01/04	O	Number of minutes to offset from Greenwich Mean Time; -0300 = Eastern Standard Time -0360 = Central Standard Time -0420 = Mountain Standard Time -0480 = Pacific Standard Time Only used if NCS.AllowClock = 1
84 / CF	DaylightSavingsOffset	S0 01/03	O	Number of minutes to offset for daylight savings time; +000 = use std time (no offset) +060 = set time ahead one hour Only used if NCS.AllowClock = 1
85 / CG	Language	AN 03/03	O	Identifies the literals file that will be used to display literals to the screen and print route level reports. Display literals filename must follow LNG_XXXD.BIN naming convention. Route level report literals filename must follow LNG_XXXR.BIN naming convention. Defaults = LNG_ENGD.BIN and LNG_ENGR.BIN. Default literal files are included with boot files. See Appendices for details.
86 / CH	EnableLinearDistance	ID 01/01	O	Used when JOB.JobType = 02 (Pickup) exists 0 = disable (default) 1 = enable 9087 prompt for entry of linear distance remaining
87 / CI	Reserved	AN 08/08	O	Reserved

Field	FieldName	Format	Req	Comments
88/CJ	DisableMultipleReasons	ID 01/01	O	0 = allow entry of multiple return reasons (default) 1 = only allow entry of ONE return reason on 3396 Select Part with Reason – Invoice dialog when processing Returns, Damaged Returns, and Exchanges
89/CK	EnableProcessZeroQuantities	ID 01/01	O	0 = do not print or upload customer invoice details with zero quantities (default) 1 = enable print and upload of customer invoice details with zero quantities
90/CL	GenerateHTMLInv	ID 01/01	O	0 = disable (default) 1 = generate HTML files for final invoices (printed & delayed); don't upload voided HTML files 2 = generate HTML files for final invoices (printed & delayed); upload voided HTML files
91/CM	EnableFindItem	ID 01/01	O	0 = disable, when use find on 3395 and 3396 always add a new item (default) 1 = enable, when use find on 3395 and 3396 always find an item if it already exists
92/CN	PriceDecimals	ID 01/01	O	0 = use 4 decimal positions (default) 1 = not applicable, do not use 2 = use 2 decimal positions 3 = use 3 decimal positions 4 = use 4 decimal positions NOTE: if downloaded prices (in other files) include decimal positions that exceed the number of positions defined by this flag then they will be rounded.
93/CO	EnableVerificationScanning	ID 01/01	O	0 = disable (default) 1 = enable verification scanning only in Inventory functions 2 = enable verification scanning only in Customer Operations 3 = enable verification scanning in both Inventory and Customer Operations
94/CP	WorkOrderNumberPrefix	AN 01/10	O	used to create Work Order Numbers generated on the HHT that are unique and avoid data collisions
95/CQ	JobNumberPrefix	AN 01/10	O	used to create Job Numbers generated on the HHT that are unique and avoid data collisions
96/CR	HTMLHazmat	ID 01/01	O	Used to download and store the Hazmat Report 1 = Download report

Field	FieldName	Format	Req	Comments
97/CS	HTMLVehInspect	ID 01/01	O	Used to download and store the Vehicle Inspection Report 1 = Download report
98/CT	StartDayWarningTime	N0 01/04	O	Used on 1000 Start of Day And 3010 Work Order Selection 0 = No Warning Time (Default) 9999 = Amount of Time in seconds that user has in Start of Day function before needing a reason code to continue.
99/CU	ReqUnservicedReasons	ID 01/01	O	1 = Client requires that user enter reason code for all unserviced workorders (User prevented from completing End of Day processing). 0 = Unserviced workorder without reason codes allowed (uploaded with zero reason code).
100/CV	OdometerThreshold	NO 01/06	O	Odometer threshold. Driver asked to confirm if mileage difference exceeds threshold during trip. If threshold = 0, client does not check.
101/CW	Country	N0 01/03	O	Country code. Used for determining what tax headings to display in delivery tickets. Codes are: 0 – Unspecified 1 – USA 2 – Canada The country code is used to determine which SEL 39 records to use as the tax headers. If the code = 0, the old tax1, tax2 and tax3 literals in the literal files are used instead.

RTM Real-Time Messaging File

This file is used to identify messages that will be sent in real-time. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	MessageType	N0 01/02	M	0 = Mail (MMO and MMI) 1 = Status Change (SCD) This value only controls the real-time transmission of SCD records where SCD.StatusNumber = 9990 and above. Other SCD records where SCD.StatusNumber < 9990 can also be sent real-time, however that control is handled via the STS Work Status File. 2 = File Maintenance Result (FMR) 3 = Non-Serviced Work Order (NSC) 4 = Add/Change Work Order (ACW) 5 = Add/Change Job (ACJ) 6 = Add/Change Customer (ACC) 7 = LTL work (LTD,COC,CTH,OCM)
2 / B	JobType	N0 01/02	O	Only used for MessageType = 7: Corresponds to JOB.JobType values = 01 (Delivery), = 02 (Pickup), = 03 (Hook), and = 04 (Spot/Drop)
3 / C	TimeToLive	N0 01/05	O	Time in seconds that message will be allowed to "live" within IQueue. If the message is not delivered by the time TimeToLive expires, the message is removed from the system. A value of "0" indicates that the message will never expire.
4 / D	Priority	N0 01/03	O	Priority of message within IQueue. "1" is the lowest priority, "255" is the highest. A value of "0" indicates the queue system will make the priority decision.
5 / E	AllowableCost	N0 01/03	O	Allowable cost to transport a message. "0" is the lowest cost, "255" is the highest. A cost is assigned to each transport available in the IQueue system. If the cost of the transport falls below the allowable cost of the message, then the transport will be used.

SEL List Selection File

Required file. If a function is turned on, then the list selections for that function must be downloaded in this file.
Combination of key fields ListTypeCode, ListIDCode, and Language must be unique. This file will be ignored
during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments

1 / A	ListTypeCode	ID 01/02	M	01 = display instruction
				02 = resolution code;
				    for LTL this is for
				    delivery exception codes
				03 = return/exchange reason
				04 = return/exchange instruction
				05 = reserved
				06 = no service reason;
				    for LTL this is for
				    delivery refused reasons
				07 -14 = reserved
				15 = transfer location desc
				16 = tax description
				17 = expense description
				18 = mail user names
				19 = cash description
				20 = reserved
				21 = survey response[13]
				22 = trouble code
				23 = credit card type
				24 = destination state
				25 = survey category description
				26 = hazmat description
				27 = placard description
				28 = item detail description
				29 = signature condition
				30 = package code
				31 = accessorial code
				32 = service level
				33 = non-delivered reason
				34 = signor relationship(sig cap)
				35 = signor reason (sig cap)
				36 = surcharge description
				37 = Container Style
				38 = SOD Time Reason Code
				39 = delivery ticket tax headings

2 / B	ListIDCode	AN 01/19	M	For ListTypeCode = 01: used on
				   3050, uploaded in OCM as 99
				For ListTypeCode = 02: used on
				   3050, uploaded in OCM as 99;
				   used on 3017 for LTL,
				   uploaded in OCM as 99
				For ListTypeCode = 03: used on
				   3296, uploaded in RXD as 99
				For ListTypeCode = 04: used on
				   3296, uploaded in RXD as 99

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[13] first two digits of ListIDCode referenced by SRV.LookupIndex; two additional digits define individual responses

				(continued on next page) For ListTypeCode = 06: used on 3007, uploaded in FMR as 99; used on 3010, 3012, uploaded in CTH as 99; used on 4100, uploaded in NCS as 99; used on 9150 for LTL, uploaded in CTH as 99; value = 0 reserved for internal use For ListTypeCode = 15: used on 2200 and report, uploaded in ITC as 99 For ListTypeCode = 16: used on invoice and EOD report, from TAX file as (TAX.PriceKey + TAX.ItemKey + TAX.CustomerKey) For ListTypeCode = 17: used on 4200, uploaded in EOD as 99 For ListTypeCode = 18: used on 9021, uploaded in MMO as 9999 For ListTypeCode = 19: used on 4200, uploaded in EOD as 99 For ListTypeCode = 21: used on 3520, uploaded in SVD as 9999 For ListTypeCode = 22: used on 3000, 3012, 6400, 6410, and 6420, loaded from JOB as 9999 For ListTypeCode = 23: used on 3091, uploaded in CCD as 99 For ListTypeCode = 24: used on 3018 for LTL only, upload in LTD as 99 For ListTypeCode = 25: used on 3522, downloaded only For ListTypeCode = 26: used on 2500 & 3018, downloaded only; NOTE: records must be numbered to match the corresponding GAS.PlacardCode (01-10) For ListTypeCode = 27: used on 2500, downloaded only; NOTE: records must exist for each corresponding type 26 record. Also, when RCT.EnableHazardousMaterials = 2 (Canadian requirements) ListIDCode = 99 reserved for second placard For ListTypeCode = 28: used on 3397, uploaded in DTL as 9999 For ListTypeCode = 29: used on 9341, downloaded only; must be unique for each record; determines display order

				(continued on next page)
				For ListTypeCode = 30, 31, & 32:
				    used on 3018 for LTL only,
				    uploaded in LTD as 99
				For ListTypeCode = 33: used on
				    9150, uploaded in NDD as 99
				For ListTypeCode = 34: text used
				    on 9331, print on invoice
				For ListTypeCode = 35: text used
				    on 9331, print on invoice
				For ListTypeCode = 36: used on
				    invoice, from SUR file as 9999,
				    uploaded in TSD as 9999
				For ListTypeCode = 37: used on
				    3370
				For ListTypeCode = 38: used on
				    9150, uploaded as 9999
				For ListTypeCode = 39: displayed
				    in delivery tickets. Strings
				    displayed are RCT.Country*3
				    thru RCT.Country*3 + 2

3 / C	ListText	AN 01/20	M	
4 / D	Language	AN 03/03	O	Only used for ListTypeCode = 26, 27, 28 and 39

SEQ Work Sequence File

Optional file, one record per work order for each customer stop. Used to determine the sequence in which customers are serviced, and for the Non-Serviced Customer routine at End Day. For a record deletion all JOB records associated with the work order to be deleted will also be removed during file maintenance. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	TimeToLive	N0 01/01	O	0 = always remove at EOD (default) 1 = only remove at End Of Day if completed or if NSC record exists with non-zero NSC.ReasonCode 2 = only remove at End Of Day if completed 3 = persistent, can only be removed via a SEQD del record or via a CSTD del record sent down for this record's cust
2 / B	SequenceNumber	N0 01/04	O	
3 / C	CustomerNumber	AN 01/18	M	
4 / D	WorkOrderNumber	AN 01/18	M	must be unique
5 / E	ServicePriority	ID 01/01	O	1 = high priority 2 = normal priority (default) 3 = low priority
6 / F	StartTime	TM 05/05	O	StartTime/EndTime is the time window that the customer should be visited between; 24 hour format
7 / G	EndTime	TM 05/05	O	24 hour format
8 / H	WorkOrderType	N0 01/02	O	00 = Service (default) 01 = Delivery (LTL) 02 = Pickup (LTL) 03 = Hook (LTL) 04 = Spot/Drop (LTL) 05 = Mix of jobs (LTL)
9 / I	Name	AN 01/40	O	overrides CST.CustomerName
10 / J	Address1	AN 01/40	O	overrides CST.CustomerAddress1
11 / K	Address2	AN 01/40	O	overrides CST.CustomerAddress2
12 / L	City	AN 01/30	O	overrides CST.CustomerCity
13 / M	State	AN 01/10	O	overrides CST.CustomerState
14 / N	PostalCode	AN 01/15	O	overrides CST.CustomerPostalCode
15 / O	DeliveryDate	DT 10/10	O	mm/dd/yyyy
16 / P	SurveyLookupKey	N0 01/08	O	to SRL Survey Lookup file

SID Session ID

This file is both a download and an upload file and will only contain one record. It is used to identify files associated with a particular telecommunication session. This file must be downloaded in all transmissions.

Field	FieldName	Format	Req	Comments
1 / A	SessionID	N0 01/09	M	
2 / B	SerialNumber	AN 01/32	O	only used when SCT.ApplicationState > 0

SRC Survey Control File

Optional file, zero or more records per survey. Populates 3521 Select Survey/Audit table. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	SurveyTypeCode	ID 01/02	M	01 = start day survey 02 = load survey 03 = job survey 04 = customer survey 05 = end day survey 06 = item survey;
2 / B	SurveyKey	AN 01/26	M	For SurveyTypeCode = 01: use "SIGNATURE 1" for a signature that can be recalled for printing; use "SIGNATURE 2" for a second signature that can be recalled For SurveyTypeCode = 02: use ITM.ItemNumber For SurveyTypeCode = 03: use JOB.JobNumber for a specific job, or use the text string "JOB" for a survey to be applied to all jobs when no specific job survey assigned. For SurveyTypeCode = 04: use CST.CustomerNumber for a specific customer, or use the text string "CUSTOMER" for a survey to be applied to all customers when no specific customer survey assigned For SurveyTypeCode = 05: not used For SurveyTypeCode = 06: use the text string "ITEM" for a survey to be applied to items where ITM.ItemSurveyKey = SRC.SurveyIndex
3 / C	SurveyIndex	N0 01/09	M	
4 / D	SurveyCategory	N0 01/02	O	to SEL, type 25
5 / E	SurveyMandatory	ID 01/01	O	0 = survey is not mandatory (default) 1 = mandatory survey
6 / F	EnablePrint	ID 01/01	O	0 = disable survey print (default) 1 = prompt to print survey 2 = force survey print
7 / G	EnablePrintAll	ID 01/01	O	0 = only print survey records that have been responded to (default) 1 = print all records
8 / H	VehicleInspectionSurvey	ID 01/01	O	0 = Not a Vehicle Inspection Survey (default) 1 = Is a Vehicle Inspection Survey

SRL Survey Lookup File

Optional file, one record per unique key. This file is used to populate a responses within a customer survey form.
This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	CustomerNumber	AN 01/18	M	key field;
2 / B	SurveyLookupKey	N0 01/08	M	key field;
3 / C	LookupIndex	N0 01/02	M	key field; must be unique for this Customer/Lookup; ; Reserved values include: 99 = for work order Name 98 = for work order Address1 97 = for work order Address2 96 = for work order City 95 = for work order State 94 = for work order Postal Code
4 / D	SurveyFieldText	AN 01/40	O	

SRP Survey Print File

Optional file, one or more records per SurveyIndex. This file is used to print a user defined survey report. When
the user prints a survey report the application will search for a corresponding report format in this file. If found,
then this file will define the fomat and content of the survey report. If not found then survey will print using the
standard report format. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	SurveyIndex	N0 01/09	M	key field;
2 / B	TypeCode	ID 01/01	M	0 = report prompt 1 = report response 2 = page break
3 / C	StartRowPosition	N0 01/02	M	For TypeCode = 0, 1 only
4 / D	StartColumnPosition	N0 01/03	M	For TypeCode = 0, 1 only; maximum value = 80
5 / E	PrintValue	AN 01/80	O	For TypeCode = 0: text to be printed in the specified row and column; For TypeCode = 1: value to match the corresponding SVD.MapIndex to get the SVD.SurveyResponse to print For TypeCode = 2: not used

SRV Survey Detail File

Optional file; defines surveys. All records with same SurveyIndex make up a survey; pages may have up to nine survey records, with relative positions indicated by QuestionIndex. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	SurveyIndex	N0 01/09	M	key field;
2 / B	QuestionIndex	N0 01/03	M	key field QuestionIndex = 000 is required for each survey form, and must also be a title type record (SurveyRecType = 00)
3 / C	SurveyRecType	ID 01/02	M	00 = title; only one per SurveyIndex, must be first SurveyRecType per SurveyIndex 01 = numeric input 02 = alpha-num input; short resp. 03 = alpha-num input; long resp. 04 = dropdown list; short response 05 = dropdown list; long response 06 = date input 07 = time input 08 = yes/no option 09 = check box 10 = lookup field 11 = multiple selection dropdown list 12 = multiple line edit box 13 = prompt/text only 14 = display page break 15 = signature capture 16 = populated static text box NOTE: Types 02, 03, 12, & 16 allow field population which, if used, can only be for customer surveys (SRC.SurveyTypeCode = 04)
4 / D	SurveyPrompt	AN 01/20 or AN 01/40	O	truncated as necessary for SurveyRecType = 13 only
5 / E	ResponseLength	N0 01/02	O	Type 01, 02, 03 only Maximum value = 20. If no value is specified, then default value = 20
6 / F	ResponseDecimalPos	N0 01/01	O	Type 01 only
7 / G	LookupType	ID 01/01	O	Type 04, 05, 10, and 11 only: 1 = SEL.ListText with SEL.TypeCode = 21 2 = ITM.ItemDescription with ITM.TypeCode = 01 (parts) 3 = ITM.ItemDescription with ITM.TypeCode = 98 (brands) 4 = ITM.ItemDescription with ITM.TypeCode = 99 (types)

Field	FieldName	Format	Req	Comments
8 / H	LookupIndex	N0 01/02	O	For Type 04, 05, 10, & 11 with LookupType = 1: populate with all SEL records with ListTypeCode = 21 and ListIDcode = xxyy, where xx = LookupIndex & yy = any value. For Types 02, 03, 12, & 16: using currently selected customer number and work order number as a key into the SRL Survey Lookup File, populate response with field identified by LookupIndex; Reserved values include: 99 = for work order Name 98 = for work order Address1 97 = for work order Address2 96 = for work order City 95 = for work order State 94 = for work order Postal Code
9 / I	GroupIndex	N0 01/02	O	00　　　= do not group (default) 01 – 99 = all records with the 　　　　　same GroupIndex (for 　　　　　the same SuveryIndex) 　　　　　will be displayed on 　　　　　the same survey page
10/ J	MapIndex	AN 01/10	O	Used to map survey data elements
11/ K	LineCount	N0 01/02	O	Types 11 and 12 only Default minimum = 02 Default maximum = 10
12/ L	MandatoryFlag	N0 01/01	O	0 = not mandatory (default) 1 = mandatory

STE Serial Tracked Exception File

Required file, This file contains serial tracking exception information, defining which combinations of customers and items should be exempted from serial number collection.

Field	FieldName	Format	Req	Comments
1 /A	CustomerNumber	AN 01/18	M	Corresponds to CST.CustomerNumber
2 /B	ExceptionType	ID 01/01	M	Type of exception 1 = Item Number 2 = Product Category 3 = Supplier
3 /C	ExceptionValue	AN 01/26	M	Particulars of the exception being specified. If Type = 1, Item Number, corresponds to ITM.ItemNumber If Type = 2, Product Category (imported as ITM.BrandCode) If Type = 3, Supplier (Supplier codes for ITMs are imported as the first 3 characters of ITM.ItemNumber.
4 /D	RequireSerialNumber	NO 01/01	M	0-Do not require serial number collection (exclusion record) 1-Require Serial Number Collection(inclusion record). NOTE: Records for a specific customer will always always have the same value in this field. They will be exclusive if set to 0 or inclusive if set to 1. If a customer does not have any records in this file, default serial number collection to those specified by the IDT file.

STS Work Status File

Required file, one record for each desired status. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 /A	StatusNumber	N0 01/04	M	9999 reserved for final work completion, see uploaded SCD Status Change Detail; 9990-9998 also reserved for internal use;
2 /B	StatusButtonDescription	AN 01/08	M	Filler for StatusType = 0 and 1, otherwise indicates text to be displayed on [Checkbox] button on 3000 Service Customer or 3011 Work Order Selected

Field	FieldName	Format	Req	Comments
3 / C	StatusLongDescription	AN 01/20	O	For StatusType = 0: text to be shown on 3001 Change Status For StatusTypes = 1 and 2: text to be shown in Current Status field on 3000 Service Customer or 3011 Work Order Selected; if blank, then StatusButton-Description is used
4 / D	StatusType	N0 01/01	M	0 = resource status (default) 1 = job status 2 = job flow status 3 = work order flow status
5 / E	StatusAction	N0 01/01	M	For StatusType = 0 (resource status): 0 = resource is active (default) 1 = filler, not used 2 = filler, not used 3 = resource is inactive For StatusType = 1 (job status): 0 = job is active (default) 1 = filler, not used 2 = filler, not used 3 = job is inactive For StatusType = 2 (job flow status): 0 = no action required (default) 1 = status at which point the job is considered started and begin time for job billing is set; once selected, disallow exit unless work flow halted 2 = status at which point work flow proceed to invoice creation; if statusing of jobs is desired, then file must contain a record with this StatusAction value 3 = filler, not used For StatusType = 3 (work order flow status): 0 = no action required (default) 1 = filler, not used 2 = status at which point work flow proceeds to job selection; if work order statusing is desired, then file must contain a record with this StatusAction value 3 = filler, not used

Field	FieldName	Format	Req	Comments
6 / F	SendStatusOption	N0 01/01	O	0 = do not send the associated SCD Status Change Detail record in a real-time message (default) 1 = send status in real-time; Note: RCT.EnableBackgroundTelecom must = 1 (real-time messaging enabled) AND a RTM.MessageType = 1 (status change message) record must also exist.
7 / G	TimeToLive	N0 01/05	O	The time in seconds that the message will be allowed to "live" within Iqueue. If the message is not delivered by the time TimeToLive expires, the message is removed from the system. A value of "0" indicates that the message will never expire.
8 / H	Priority	N0 01/03	O	Priority of message within IQueue. "1" is the lowest priority, "255" is the highest. A value of "0" indicates the queue system will make the priority decision.
9 / I	AllowableCost	N0 01/03	O	The allowable cost to transport a message. "0" is the lowest cost, "255" is the highest. A cost is assigned to each transport available in the IQueue system. If the cost of the transport falls below the allowable cost of the message, then the transport will be used.

Example of a DBSTS.ASC file that contains the minimum required records for Job statusing only:

```
0000,"Select","Job selected",2,0,0,,,
0001,"Begin","Job started",2,2,0,,,
```

Example of a DBSTS.ASC file that contains the minimum required records for Work Order statusing only:

```
0000,"Select","Work order selected",3,0,0,,,
0001,"Begin","Work order started",3,2,0,,,
```

Example of a DBSTS.ASC file that contains the minimum required records for BOTH Work Order & Job statusing:

```
0000,"Select","Work order selected",3,0,0,,,
0001,"Depart","Departed",3,2,0,,,
0002,"Select","Job selected",2,0,0,,,
0003,"Begin","Job started",2,2,0,,,
```

Example of a typical DBSTS.ASC file that contains records for both Work Order and Job statusing:

```
0000,"Select","Work order selected",3,0,0,,,
0001,"Depart","Departed",3,0,0,,,
0002,"Arrived","Arrived",3,2,0,,,
0003,"Select","Job selected",2,0,0,,,
0004,"Begin","Job started",2,1,0,,,
```

```
0005,"Invoice","Invoice started",2,2,0,,,
0006,"","Activate",1,0,0,,,
0007,"","Pause",1,3,0,,,
0008,"","Available",0,0,0,,,
0009,"","On Break",0,3,0,,,
0010,"","Emergency",0,3,0,,,
0011,"","On lunch break",0,3,0,,,
0012,"","Break down",0,3,0,,,
```

SUR Surcharge File

Optional file. This file defines all surcharges applied to items on an invoice/order. Surcharges are normally an additional charge that is added onto the invoice/order, but can also be a negative amount that causes a reduction in the total amount. Surcharges are assigned using combinations of customer level and item level keys. Surcharge rate and tax information can be obtained either directly from this file or by an item association defined in this file. Surcharges can either be an amount multiplied by the item pricing quantity (either CTD.ItemQuantity or sum of DTL.ItemDetailQuantity) OR if not using an item association for rate/price info, can be a percentage that is taken from price multiplied by pricing quantity. There may be at most one surcharge per item but there may be multiple items with surcharges. Surcharges with the same SurchargeDescription are totaled and printed as a single amount at the bottom of the invoice/order. Surcharges only apply to items sold (DTL.ItemTransactionType = 01) and that are also part items (ITM.ItemTypeCode = 01). For assemblies/ components surcharges will only be applied at the assembly level. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	CustomerSurchargeKey	AN 01/18	M	key field; from either CST.CustomerSurchargeKey1 or CST.CustomerSurchargeKey2
2 / B	ItemSurchargeKey	AN 01/18	M	key field; from ITM.ItemSurchargeKey
3 / C	SurchargeDescription	N0 01/04	M	to SEL, type 36
4 / D	SurchargeType	N0 01/01	M	0 = amount to be multiplied by pricing qty (default) 1 = % of [price multiplied by pricing quantity] This field is only used when SUR.SurchargeAssociation = 0 or 1
5 / E	SurchargeRate	S6 02/10	M	This field is only used when SUR.SurchargeAssociation = 0 or 1
6 / F	SurchargeTaxable	ID 01/01	M	0 = not taxable (default) 1 = taxable
7 / G	SurchargeAssociation	ID 01/01	M	0 = use SUR file for rate/price & item from SUR.ItemSurchargeKey for tax amt lookup (default) 1 = use SUR file for rate/price & use SUR.SurchargeItemNumber for tax amount lookup 2 = use SUR.SurchargeItemNumber for price & tax amount lookups
8 / H	SurchargeItemNumber	AN 01/26	O	to ITM.ItemNumber; this field is only used when SUR.SurchargeAssociation = 1 or 2

TAX Tax Master File

Optional file. This file defines all taxes applied to the invoice, including line item excise taxes such as GST, CRV, and ADF. See *Taxes* topic in Appendices for detailed information on the use of this file. This file will be ignored during user initiated mid-day telecoms.

Field	FieldName	Format	Req	Comments
1 / A	PriceKey	N0 01/02	M	key field; to SEL, type 16; from PRD.PriceTaxKey or ITM.DefPriceTaxKey;
2 / B	ItemKey	N0 01/02	M	key field; to SEL, type 16; from ITM.ItemTaxKey;
3 / C	CustomerKey	AN 01/15	M	key field; to SEL, type 16; from CST.CustTaxKey;
4 / D	TaxType	N0 01/01	M	1 = amount[14] 2 = quantity
5 / E	TaxRate	N4 01/08	M	percent or amount per case

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[14]   amount taxes printed in Invoice Summary; quantity taxes printed on line item

Upload Files

Following are data files generated by the application. Records will be transmitted as files, using key fields to establish relations between records across multiple files. The upload files have the following logical relationships.

File Name	Primary Key	Subordinate Key
SID Session ID	(one record only)	--
SCT Session Control	(1)	--
STD Start Day	--	RouteKey
ITC Inventory Transaction Control	RouteKey	DetailKey
ITD Inventory Transaction Detail	DetailKey	--
COC Customer Operations Control	RouteKey	VisitKey
CTH Customer Transaction Header	VisitKey	TransactionKey
CTD Customer Order Detail	TransactionKey	ItemNumber
RXD Return/Exchange Detail	ItemNumber (1:1)	--
DTL Item Detail	TransactionKey (1:1)	
NDD Non-Delivery Detail	**TransactionKey (1:1)**	
LTD Less Than Load Transaction Detail	TransactionKey	EquipmentNumber
OCM Order Comments	TransactionKey (1)	
TSD Transaction Surcharge Detail	TransactionKey	--
TXD Transaction Tax Detail	TransactionKey	--
ARD A/R Detail	TransactionKey	--
CCD Cash/Check Detail	VisitKey	--
SVD Survey/Audit Detail	VisitKey	--
ACC Add/Change Customer Detail	RouteKey	--
ACJ Add/Change Job Detail	RouteKey	--
ACW Add/Change Work Order Detail	RouteKey	--
SCD Status Change Detail	RouteKey	--
MMO Mail Message Out	RouteKey	--
NSC Non-Serviced Work Order	RouteKey	--
EOD End of Day Detail	RouteKey	--
RTC Route Information Change	RouteKey	--
ULD User Login Detail	RouteKey	--
INV Route Inventory	RouteKey	--
FMR File Maintenance Result	RouteKey	--

ACC Add/Change Customer Detail

One record per customer visit. Created only if a customer was added or changed on route. This file will be uploaded during user initiated and real-time mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	TypeCode	N0 01/01	M	1 = add record 2 = change record
3 / C	CustomerNumber	AN 01/18	M	
4 / D	CustomerName	AN 01/40	O	
5 / E	CustomerAddress1	AN 01/40	O	
6 / F	CustomerAddress2	AN 01/40	O	
7 / G	CustomerCity	AN 01/30	O	
8 / H	CustomerState	AN 01/10	O	
9 / I	CustomerPostalCode	AN 01/15	O	
10 / J	CustomerPhoneNumber	AN 01/20	O	
11 / K	CustomerContactName	AN 01/30	O	
12 / L	CustomerTaxID	AN 01/20	O	
13 / M	PaymentType	ID 01/01	O	From template if TypeCode = 1
14 / N	PricingKey	N0 01/09	O	
15 / O	CustTaxKey1	AN 01/15	O	
16 / P	CustTaxKey2	AN 01/15	O	
17 / Q	CustTaxKey3	AN 01/15	O	
18 / R	CustomerTemplate	AN 01/18	O	CustomerNumber from template if TypeCode = 1; n/a if TypeCode = 2

ACJ Add/Change Job Detail

Created when a job is added/changed on route. This file will be uploaded during user initiated and real-time mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	TypeCode	N0 01/01	M	1 = add record 2 = change record
3 / C	SequenceNumber	N0 01/04	M	
4 / D	WorkOrderNumber	AN 01/18	M	
5 / E	JobNumber	AN 01/18	M	
6 / F	JobType	N0 01/02	M	00 = Service 01 = Delivery 02 = Pickup 03 = Hook 04 = Spot/Drop
7 / G	ServicePriority	ID 01/01	O	1 = high; 2 = normal; 3 = low
8 / H	StartTime	TM 05/05	O	24 hour format
9 / I	EndTime	TM 05/05	O	24 hour format
10 / J	JobDescription	AN 01/40	O	
11 / K	Contact	AN 01/40	O	
12 / L	Location	AN 01/20	O	
13 / M	TroubleCode	N0 01/04	O	from SEL, type 22
14 / N	Comments	AN 01/40	O	

ACW Add/Change Work Order Detail

Created when a work order is added or changed on route. This file will be uploaded during user initiated and real-time mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	TypeCode	N0 01/01	M	1 = add record 2 = change record
3 / C	SequenceDay	N0 01/01	M	always 0 = all days
4 / D	SequenceNumber	N0 01/04	M	
5 / E	CustomerNumber	AN 01/18	M	
6 / F	WorkOrderNumber	AN 01/18	M	
7 / G	ServicePriority	ID 01/01	O	1 = high priority 2 = normal priority 3 = low priority
8 / H	StartTime	TM 05/05	O	24 hour format
9 / I	EndTime	TM 05/05	O	24 hour format
10/ J	WorkOrderType	N0 01/02	O	00 = Service 01 = Delivery 02 = Pickup 03 = Hook 04 = Spot/Drop 05 = Mix of jobs
11/ K	Name	AN 01/40	O	
12/ L	Address1	AN 01/40	O	
13/ M	Address2	AN 01/40	O	
14/ N	City	AN 01/30	O	
15/ O	State	AN 01/10	O	
16/ P	PostalCode	AN 01/15	O	
17/ Q	DeliveryDate	DT 10/10	O	mm/dd/yyyy
18/ R	SurveyLookupKey	N0 01/08	O	

ARD Accounts Receivable Detail

One record per open A/R item transacted. Created only if A/R transaction entered. If user enters reference number, it is written to InvoicePrefix and InvoiceNumber fields. This file will not be uploaded during mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	
3 / C	TransactionKey	N0 01/03	M	
4 / D	InvoicePrefix	N0 01/08	O	n/a if on account
5 / E	InvoiceNumber	N0 01/04	O	n/a if on account
6 / F	Reserved	DT 10/10	O	Reserved
7 / G	Reserved	N2 01/08	M	Reserved
8 / H	Reserved	ID 01/02	O	Reserved
9 / I	AmountPaid	S2 01/09	M	

CCD Cash/Check/Credit Detail

One record per check tendered as the result of an Invoice or A/R transaction, plus one record each for cash received, cash refunded, check requested, or credit card received. Records also created at End Day for each check adjusted or added. This file will not be uploaded during mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	zero if TypeCode = 06
3 / C	TypeCode	ID 02/02	M	01 = cash 02 = check 03 = credit card 04 = send check 05 = end day changed check 06 = end day added check 07 = end day deleted check 08 = cash not collected
4 / D	CheckNumber	N0 01/08	O	only for TypeCode 02, 05, 06, & 07
5 / E	CreditCardType	N0 01/02	O	only for TypeCode 03; from SEL, type 23
6 / F	CreditCardNumber	N0 03/16	O	only for TypeCode 03
7 / G	CreditCardExpirationDate	N0 03/04	O	only for TypeCode 03; format=mmyy
8 / H	Amount	S2 01/09	M	
9 / I	UpdateIndicator	ID 01/01	O	0 = valid; 1 = replaced by EOD rec

COC Customer Operations Control

One record per customer visit; created at time of Work Order selection. This file will be uploaded during user initiated mid-day transmissions. Also, when properly configured to do so, upload COC records during real-time transmissions for LTL transactions only.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	CustomerNumber	AN 01/18	M	
3 / C	WorkOrderNumber	AN 01/18	M	
4 / D	OdometerReading	N0 01/06	O	
5 / E	VisitStartDateTime	DT 16/16	M	recorded when Work Order selected
6 / F	VisitEndDateTime	DT 16/16	M	recorded when returning from servicing Job(s)
7 / G	TotalTransactions	N0 01/02	O	
8 / H	AddedCustomer	ID 01/01	O	0 = downloaded customer 1 = added customer
9 / I	VoidIndicator	ID 01/01	O	0 = valid, completed transaction 1 = voided transaction 2 = transaction previously started, but not yet completed
10/ J	VisitKey	N0 01/03	M	key to all tranactions this visit; resets at Start Day, increments when Work Order is selected

CTD Customer Transaction Detail

One record per item transaction. This file will be uploaded during user initiated mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	
3 / C	TransactionKey	N0 01/03	M	
4 / D	TransactionType	ID 01/02	M	01 = sales 02 = returns 03 = damaged returns 04 = exchange (memo) 05 = other item 06 = labor
5 / E	ItemNumber	AN 01/26	M	
6 / F	ItemQuantity	N2 01/08	M	
7 / G	ItemPrice	N4 01/10	O	decimal position dependant upon RCT.DecimalPositions; For TransactionType = 01 only: If [IDT.InputType = 1 AND IDT.InputControl = 1 AND IDT.InputResult = 2 for this ItemNumber] then calculate ItemPrice as follows: [(price * (sum of related DTL.ItemDetailQuantities)) divided by CTD.ItemQuantity]
8 / H	ItemDeposit	N4 01/10	O	decimal position dependant upon RCT.DecimalPositions; If line item delivery charges are being computed (see CTH.TotalDelivery) then determine if this item's delivery charge will cause the total delivery charge to be > CTH.MaximumDelivery. If true then populate this field with: ((ItemQuantity * ItemDeposit) – (calculated delivery charges thus far – MaximumDelivery)) divided by ItemQuantity)
9 / I	Reserved	N2 01/06	O	reserved
10 / J	ItemExciseTax	N2 01/06	O	
11 / K	PriceChgIndicator	ID 01/01	O	0 = not applicable 1 = price changed 2 = "No Charge" box checked on 3395/3396
12 / L	ItemDetailLine	N3 01/06	O	When adding a manual ship that has an associated return, this field must be the same for the ship as it is for the return record.
13 / M	ItemDetailTieLine	N3 01/06	O	
14 / N	BackOrderQuantity	N2 01/08	O	

CTH Customer Job Transaction Header

One record per order, invoice, or accounts receivable transaction; created at time of Job selection. This file will be uploaded during user initiated mid-day transmissions. Also, when properly configured to do so, upload CTH records during real-time transmissions for LTL transactions only.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	
3 / C	TransactionType	ID 01/02	M	01 = order 02 = invoice 03 = accounts receivable 04 = no service 05 = delivery 06 = pickup 07 = hook 08 = spot/drop 09 = cash reciept
4 / D	JobNumber	AN 01/18	M	Not used for types 01 and 03. For types 02 and 04 – 08 this is the downloaded JOB.JobNumber
5 / E	DocumentPrefix	N0 08/08	M	
6 / F	DocumentNumber	N0 04/04	M	
7 / G	TransactionDateTime	DT 16/16	M	
8 / H	NoSaleReasonCode	N0 01/02	O	type 04 only; from SEL, type 06; for LTL, this is the delivery refused reason as selected on 9150 List Selection
9 / I	TotalQuantity	S2 01/08	O	Total Parts Quantity – Total Returns Quantity – Total Damaged Returns Quantity; (excludes other, exchange, and labor quantities)
10/ J	TotalDebitSales	S2 01/09	O	Total Parts Amount + Total Deposit Amount + Total Line Item Tax Amount; (excludes other, exchange, and labor amounts)
11/ K	TotalCreditSales	S2 01/09	O	Total Returns Amount + Total Damaged Returns Amount + Total Returned Deposit Amount + Total Returned Line Item Tax Amount
12/ L	TotalOtherItems	S2 01/09	O	Total Other Amount + Total Other Deposit Amount + Total Other Line Item Tax Amount
13/ M	TotalLaborAmount	S2 01/09	O	Total Labor Amount + Total Labor Line Item Tax Amount
14/ N	TotalDamagedReturns	S2 01/09	O	Total Damaged Returns Amount + Total Damaged Rtns Deposit Amt + Total Dmgd Rtns Line Item Tax Amt
15/ O	TotalTaxes	S2 01/09	O	Total Taxes; (excludes line item taxes)
16/ P	TotalInsurance	S2 01/09	O	Total Insurance

Field	FieldName	Format	Req	Comments
17 / Q	BalanceDueAmount	S2 01/09	O	CTH.TotalDebitSales – CTH.TotalCreditSales + CTH.TotalOtherItems + CTH.TotalTotalLaborAmount + CTH.TotalTaxes – CTH.TotalInsurance
18 / R	PaymentType	ID 01/01	O	only for TransactionType = 02 (invoice): 0 = cash 1 = credit card 2 = charge (send bill) 3 = prepaid
19 / S	Billable	ID 01/01	O	0 = non–billable 1 = billable
20 / T	SplitTransaction[15]	ID 01/01	O	only for TransactionType = 02 (invoice): 0 = net invoice 1 = split trxn, credit invoice 2 = split trxn, debit invoice
21 / U	VoidIndicator	ID 01/01	O	0 = valid, completed transaction 1 = voided transaction
22 / V	TransmitIndicator	ID 01/01	M	0 = data not prev. transmitted 1 = data previously transmitted 2 = data previously transmitted; changed since the previous transmission
23 / W	TransactionKey	ID 01/03	O	key to all tranaction details for this visit; resets at Start Day, increments when Job is selected
24 / X	SignatureName	AN 01/20	O	
25 / Y	SignatureFileName	AN 11/19	O	If TransactionType = 05, 07, 08 then use "sig"+"yymmddhhmmss"+ ".bmp" Else use "sig"+DocumentNumber+ ".bmp"
26 / Z	DeliveryDate	DT 10/10	O	mm/dd/yyyy
27 / AA	PurchaseOrderNumber	AN 01/25	O	For TransactionTypes = 01 (order) and 02 (invoice) this will be populated from data collected on dialog 3050 Transaction Completion. All other TransactionTypes will be blank.
28 / AB	PurchaseOrderRelease	AN 01/25	O	For TransactionType = 01 (order) this will be populated from data collected on dialog 3050 Transaction Completion. All other TransactionTypes will be blank.

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[15] Split transaction occurs when CST.InvoiceFormat = 1 or 3. Up to three transactions may be linked via this field. Product may be separated by debits and credits with or without deposits.

Field	FieldName	Format	Req	Comments
29/AC	MaximumDelivery	N2 01/08	O	Populated from JOB.MaximumDelivery
30/AD	TotalTax	N2 01/08	O	Populated from JOB.TotalTax and updated if the Total Tax is changed on screen 3055
31/AE	TotalDelivery	N2 01/08	O	Search for an associated CTD rec with ItemNumber = "ZXXDELIVERY" If found then Find inv level delivery chg: CTD.ItemPrice of CTD record w/ ItemNumber="ZXXDELIVERY" Calc line item delivery chgs: SUM (CTD.ItemQuantity * CTD.ItemDeposit) for all CTDs w/ TransactionType=01 Add invoice level delivery charge and sum of line item delivery charges If grand total<MaximumDelivery then Popluate field with result Else Populate w/ MaximumDelivery
32/AF	TotalFreight	N2 01/08	O	Populated from JOB.Freight
33/AG	TotalOther	N2 01/08	O	Populated from JOB.Other
34/AH	SignatureFileName2	AN 01/19	0	Only for CTH.TransactionType = 02; keyed from SVD.SurveyResponse for SVD.SurveyTypeCode = 01, SVD.SurveyKey = "SIGNATURE 2", SVD.SurveyRecType = 15: "sig" + "yymmddhhmmss" + ".bmp"
35/AI	TotalSurcharges	S2 01/09	O	Total Surcharges

DTL Item Detail

DTL item detail record(s) follow the associated CTD record. This file will not be uploaded during mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	
3 / C	TransactionKey	N0 01/03	M	
4 / D	ItemTransactionType	ID 01/02	M	01 = sales 02 = returns 03 = damaged returns 04 = exchange (memo) 05 = other item 06 = labor
5 / E	ItemNumber	AN 01/26	M	
6 / F	ItemDetailKey	N0 01/04	M	
7 / G	ItemDetailLine	N3 01/06	O	pointer to associated CTD.ItemDetailLine
8 / H	ItemDetailCounter	N3 01/06	O	counter to make record unique for a specific Route/Visit/TransactionKey and ItemDetailLine
9 / I	ItemDetailField	AN 01/40	O	
10/ J	ItemDetailQuantity	N2 01/08	O	
11/ K	CustomerDetailKey	N0 01/04	O	

EOD End Day Detail

Records are written to the upload database during the End Day function. One record will be written for each cash or expense entry. Positive amounts reduce cash due; negative amounts increase cash due. This file will not be uploaded during mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	DetailTypeCode	ID 01/01	M	1 = cash detail 2 = expense detail
3 / C	ListTypeCode	N0 01/02	M	if DetailTypeCode = 1, SEL type 19 if DetailTypeCode = 2, SEL type 17
4 / D	Amount	S2 01/09	M	

FMR File Maintenance Result

One record per result. This file will be used by the application to notify the host that a file maintenance record has been received for work that is already completed or currently in progress and was rejected/not processed. It will also be used to notify the host that a work order was received via real-time messaging and was accepted/rejected. This file will be uploaded during user initiated and real-time mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	TransactionType	ID 01/01	M	0 = CSTU automatic rejection 1 = SEQU automatic acceptance 2 = SEQU automatic rejection 3 = SEQD automatic rejection 4 = JOBU automatic rejection 5 = JOBD automatic rejection 6 = SEQU user acceptance 7 = SEQU user rejection 8 = SEQD automatic acceptance NOTE: values 6 and 7 are used when user accepts/rejects work orders on dialog 3007.
3 / C	RejectionReason	ID 01/02	M	0 = In-progress 1 = Already serviced 2 = No associated Work Order 3 = Marked as No Service 4 = No associated Customer 6 = Accept SEQD for a Work Order that does not exist NOTE: For TransactionTypes = 0,2,3,4,5: valid values are 0, 1, 2, 3, and 4 For TransactionType = 7: value is determined by reason selected from SEL.ListTypeCode = 6 For TransactionType = 8: valid values are 0 and 6 For TransactionTypes = 1 and 6: value = 0 (not used)
4 / D	CustomerNumber	AN 01/18	M	
5 / E	WorkOrderNumber	AN 01/18	M	
6 / F	JobNumber	AN 01/18	M	
7 / G	TransmitIndicator	N0 01/01	M	0 = data not previously transmitted 1 = data previously transmitted
8 / H	RealTimeMessageID	N0 01/10	O	Contains "user bytes" of the corresponding downloaded IQueue message

INV Route Inventory

One record per item with inventory activity per inventory period (Load Out to Load In). At least one "set" of records (consisting of all items in inventory during that period) is provided with each data transmission; if multiple inventory periods have been completed, then multiple sets of records will be sent, each differentiated by a unique RouteKey, InventoryKey, and ItemNumber. This file will not be uploaded during mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 /A	RouteKey	N0 01/03	M	
2 /B	InventoryKey	N0 01/03	M	
3 /C	ItemNumber	AN 01/26	M	
4 /D	BeginStockQty	N2 01/08	O	
5 /E	LoadQty	N2 01/08	O	
6 /F	LoadAddQty	N2 01/08	O	
7 /G	LoadCutQty	N2 01/08	O	
8 /H	LoadReqQty	N2 01/08	O	
9 /I	SaleQty	N2 01/08	O	
10/J	ReturnQty	N2 01/08	O	
11/K	DamagedAddQty	N2 01/08	O	
12/L	DamagedCutQty	N2 01/08	O	
13/M	EndStockQty	N2 01/08	O	
14/N	UnloadQty	N2 01/08	O	
15/O	DamagedUnloadQty	N2 01/08	O	

ITC Inventory Transaction Control

One record per inventory transaction, of the types listed under TransactionType. This file will be uploaded during user initiated mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 /A	RouteKey	N0 01/03	M	
2 /B	TransactionType	ID 01/02	M	01 = load vehicle 02 = parts transfer 03 = unload vehicle 04 = parts request
3 /C	TransactionDateTime	DT 16/16	M	
4 /D	DocumentPrefix	N0 08/08	O	
5 /E	DocumentNumber	No 04/04	O	
6 /F	Reserved	N0 01/06	O	Reserved
7 /G	TransferLocation	N0 01/02	O	type 02 only; from SEL, type 15
8 /H	TransmitIndicator	ID 01/01	M	0 = data not previously transmitted 1 = data previously transmitted
9 /I	VoidIndicator	ID 01/01	O	0 = not applicable 1 = void transaction
10/J	InventoryKey	N0 01/03	M	to INV
11/K	DetailKey	N0 01/03	M	to ITD

ITD Inventory Transaction Detail

One record per item transacted. This file will be uploaded during user initiated mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	DetailKey	N0 01/03	M	
3 / C	TransactionTypeCode	ID 01/02	M	01 = load out; will include items with zero quantities 02 = reload off load product 03 = reload add on product 04 = reload damaged returns 05 = load in end inventory 06 = load in return stock 07 = load in damaged returns 08 = load request 09 = load in variance 10 = load in dmgd rtns variance
4 / D	ItemNumber	AN 01/26	M	
5 / E	ItemQuantity	S2 01/08	M	

LTD Less Than Load Transaction Detail

One record per customer visit. This detail record follows the CTH record for CTH.TransactionType 05, 06, 07, and 08 (delivery, pickup, hook, and spot/drop). This file will be uploaded during user initiated mid-day transmissions. Also, when properly configured to do so, upload LTD records during real-time transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	
3 / C	TransactionKey	ID 01/03	O	
4 / D	EquipmentNumber	AN 01/18	O	For CTH.TransactionType = 06 (Pickup) this is the trailer containing the picked up freight. For CTH.TransactionType = 07 (Hook) or 08 (Spot/Drop) this is the equipment hooked or spotted/dropped.
5 / E	PRONumber	AN 01/18	O	For CTH.TransactionType = 05 (Delivery) this is the PRO number from 3017. For CTH.TransactionType = 06 (Pickup) this is the PRO number from 3018. Will be blank for all other types.
6 / F	Pieces	N0 01/05	O	For CTH.TransactionType = 05 (Delivery) or 06 (Pickup).
7 / G	Weight	N0 01/07	O	For CTH.TransactionType = 05 (Delivery) or 06 (Pickup).
8 / H	AccessorialCode	N0 01/02	O	For CTH.TransactionType = 05 (Delivery). Corresponds to the Accessorial Code selected on 3017 from SEL type 31.

Field	FieldName	Format	Req	Comments
9 / I	DestinationZip	**AN 01/15**	O	For CTH.TransactionType = 06 (Pickup). This is the destination zip code of picked up freight.
10 / J	DestinationState	N0 01/02	O	For CTH.TransactionType = 06 (Pickup). Corresponds to the Destination State selected on 3018 from SEL type 24.
11 / K	Hazmat	N0 01/02	O	For CTH.TransactionType = 06 (Pickup). Corresponds to the Hazmat selected on 3018 from SEL type 26.
12 / L	ServiceLevel	N0 01/02	O	For CTH.TransactionType = 06 (Pickup). Corresponds to the Service Level selected on 3018 from SEL type 32.
13 / M	HeadLoad	N0 01/01	O	For CTH.TransactionType = 06 (Pickup): 0 = pickup not flagged as head load 1 = pickup flagged as head load
14 / N	LinearDistanceRemaining	N0 01/02	O	For CTH.TransactionType = 06 (Pickup). This is the linear distance remaining in trailer following last shipment picked up at customer site.
15 / O	EquipmentStatus	N0 01/01	O	For CTH.TransactionType = 07 (Hook): 0 = empty 2 = pickup

MMO Mail Message Out

One record per message sent. This file will be uploaded during user initiated and real-time mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	TransmitIndicator	N0 01/01	M	0 = mail message not sent 1 = mail message sent
3 / C	DateTime	DT 19/19	M	formatted "mm/dd/yyyy hh:mm:ss"
4 / D	Recipient	N0 01/04	M	from SEL, type 18 (mail user name)
5 / E	MessageID	N0 01/04	M	blank if not a reply to a message, otherwise references mail message being replied to
6 / F	MessageText	AN 01/255	M	

NDD Non-Delivery Detail

NDD non-delivery detail record(s) follow the associated CTD record. This file will not be uploaded during mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	
3 / C	TransactionKey	N0 01/03	M	
4 / D	ItemTransactionType	ID 01/02	M	01 = sales 02 = returns 03 = damaged returns 04 = exchange (memo) 05 = other item 06 = labor
5 / E	ItemNumber	AN 01/26	M	
6 / F	ItemDetailLine	N3 01/06	O	
7 / G	ItemDetailTieLine	N3 01/06	O	
8 / H	ReasonCode	N0 01/02	O	from SEL, type 33
9 / I	ItemQuantity	N2 01/08	O	quantity for specified reason

NSC Non-Serviced Work Order

A non-serviced work order record will be written to an internal file when a work order is flagged as being non-serviced for the day. The records will be contiguously written to the upload transaction stream when the non-serviced routine is completed during the End Day function. This file will be uploaded during user initiated and real-time mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	CustomerNumber	AN 01/18	M	
3 / C	WorkOrderNumber	AN 01/18	M	
4 / D	JobNumber	AN 01/18	M	
5 / E	ReasonCode	N0 01/02	M	If user selected reason then from SEL, type 06 Else (auto generated at EOD) = 00
6 / F	TransmitIndicator	ID 01/01	M	0 = data not previously transmitted 1 = data previously transmitted; 2 = data previously transmitted; status is no longer non-serviced

OCM Order Comments

One or more records per transaction, if comments or instructions input during order entry. (Multiple records if more than one code selected by user. Multiple records for LTL delivery transactions that contain the same ResolutionCode and PackageCode will be combined into one record.) This file will be uploaded during user initiated mid-day transmissions. Also, when properly configured to do so, upload OCM records during real-time transmissions for LTL transactions only.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	
3 / C	TransactionKey	N0 01/03	M	
4 / D	PRONumber	AN 01/18	O	For CTH.TransactionType = 05 (Delv) this is the PRO# from 3017 For CTH.TransactionType = 06 (Pkup) this is the PRO# from 3018 Blank for all other types.
5 / E	InvoiceCommentCode	N0 01/02	O	from SEL, type 01; value = 99 if InvoiceCommentText is non-blank
6 / F	InvoiceCommentText	AN 01/60	O	
7 / G	ResolutionCode	N0 01/02	O	from SEL, type 02; value = 99 if ResolutionCodeText is non-blank; for LTL deliveries, this corresponds to the Exception selected on 3017 from SEL, type 02
8 / H	ResolutionCodeText	AN 01/60	O	
9 / I	PackageCode	N0 01/02	O	For LTL Deliveries and Pickups; from Package Code selected on 3017 and 3018 from SEL type 30
10 / J	PackageQuantity	N0 01/05	O	For LTL Deliveries and Pickups

RTC Route Information Change

A route info record is written to the upload transaction stream each time the route info routine in the setup function is accessed. This file will not be uploaded during mid-day transmissions. During an IDL telecom this file will be uploaded with values in the LocationNumber and RouteNumber fields only, all others will be blank.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	LocationNumber	AN 06/06	M	
3 / C	RouteNumber	AN 01/12	M	
4 / D	SalesRepNumber	AN 01/10	M	
5 / E	VehicleNumber	AN 01/18	M	
6 / F	VehicleOdometer	N0 01/06	M	
7 / G	SalesRepName	AN 01/30	M	
8 / H	DocumentPrefix	N0 01/08	M	
9 / I	DocumentNumber	N0 01/04	M	
10/ J	NewPasswordType	ID 01/01	O	0 = primary 1 = alternate 2 = supervisor
11/ K	NewPassword	AN 01/10	O	

RXD Return/Exchange Detail

RXD detail record(s) follow the CTD record for CTD.TransactionTypes = 02, 03, and 04 (return, damaged return, and exchange). This file will not be uploaded during mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	
3 / C	TransactionKey	N0 01/03	M	
4 / D	ItemTransactionType	ID 01/02	M	02 = return 03 = damaged return 04 = exchange
5 / E	ItemNumber	AN 01/26	M	
6 / F	ItemDetailLine	N3 01/06	O	
7 / G	ItemDetailTieLine	N3 01/06	O	
8 / H	ReasonCode	N0 01/02	O	from SEL, type 03
9 / I	ItemQuantity	N2 01/08	O	quantity for specified reason
10/ J	ManufactureCode	AN 01/12	O	
11/ K	InstructionCode	N0 01/02	O	from SEL, type 04

SCD Status Change Detail

One record per Status change. This file will be uploaded during user initiated and real-time mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	n/a for resource status changes
3 / C	TransactionKey	N0 01/03	M	n/a for resource status changes
4 / D	CustomerNumber	AN 01/18	M	
5 / E	WorkOrderNumber	AN 01/18	M	
6 / F	JobNumber	AN 01/18	M	
7 / G	StatusNumber	N0 01/04	M	Sourced from STS.StatusNumber. Also, the application will automatically upload records for the following: 9901 = upon Start Day completion (the [Exit] button pressed on 1000 Start of Day) 9910 = upon End Day completion (the [End Day Done] button pressed on 4000 End Day) 9999 = upon work completion (the [Final] button pressed on 3050 Transaction Complete)
8 / H	TransactionDateTime	DT 19/19	M	formatted "mm/dd/yyyy hh:mm:ss"
9 / I	TransmitIndicator	ID 01/01	M	0 = data not previously transmitted 1 = data previously transmitted 2 = data previously transmitted; changed since previous transmission

SCT Session Control

One record only. Identifies application name and version, provides route key data and current status information.
If InitialDownload set to one, then application has not yet received its initial full database instead of a maintenance
download. This file will be uploaded during user initiated transmissions.

Field	FieldName	Format	Req	Comments
1 / A	ProgramName	AN 16/16	M	Value = "FS32xxx" (left justified)
2 / B	ProgramVersion	AN 16/16	M	Value = "V9.99" (left justified)
3 / C	LocationNumber	AN 01/06	M	
4 / D	RouteNumber	AN 01/12	M	
5 / E	TransmissionType	ID 01/01	M	0 = end day 1 = mid day 2 = load 3 = mail
6 / F	SalesRepNumber	AN 10/10	M	
7 / G	TransmissionDateTime	DT 16/16	M	
8 / H	LastDocumentPrefixUsed	N0 08/08	M	
9 / I	LastDocumentNumberUsed	N0 04/04	M	
10/ J	InitialDownload	ID 01/01	M	0 = disable 1 = initial download required
11/ K	ApplicationState	ID 01/01	M	0 = power up 1 = start day done 2 = load vehicle done 3 = unload vehicle done 4 = end day done 5 = end day telecom done
12/ L	SerialNumber	AN 01/32	M	

SID Session ID

This file is both a download and an upload file and will only contain one record. It is used to identify files
associated with a particular telecommunication session. This file will be uploaded during all transmissions (unless
it was deleted due to changes made to the Location or Route (see value = 2 of RCT.EnableLocationEdit and
RCT.EnableRouteEdit).

Field	FieldName	Format	Req	Comments
1 / A	SessionID	N0 01/09	M	

STD Start/End Day

One record per route day. Created in Start Day function. Provides daily route totals and other information which is written in End Day. This file will be uploaded during user initiated transmissions.

Field	FieldName	Format	Req	Comments
1 /A	RouteStartDateTime	DT 16/16	M	
2 /B	RouteEndDateTime	DT 16/16	M	
3 /C	RouteStartOdometer	N0 01/06	O	
4 /D	RouteEndOdometer	N0 01/06	O	
5 /E	TotalDocuments	N0 01/04	M	Number of ITC and CTH records
6 /F	TotalCash	S2 01/09	O	Sum(CCD.Amount) for all with CCD.TypeCode = 01 (cash) and 03 (credit card)
7 /G	TotalChecks	S2 01/09	O	Sum(CCD.Amount) for all with CCD.TypeCode = 02 (check)
8 /H	TotalCheckRequests	S2 01/09	O	Sum(CCD.Amount) for all with CCD.TypeCode = 04 (send check)
9 /I	TotalCashNotCollected	S2 01/09	O	Sum(CCD.Amount) for all with CCD.TypeCode = 08 (cash not collected)
10 /J	TotalOrderAmount	S2 01/09	O	Sum(CTH.BalanceDueAmount) for all with CTH.TransactionType = 01 (order)
11 /K	TotalInvoiceAmount	S2 01/09	O	Sum(CTH.BalanceDueAmount) for all with CTH.TransactionType = 02 (invoice) with CTH.Billable = 1 (billable)
12 /L	TotalNonBillable	S2 01/09	O	Sum(CTH.BalanceDueAmount) for all with CTH.TransactionType = 02 (invoice) with CTH.Billable = 0 (non-billable)
13 /M	TotalChargeSales	S2 01/09	O	Sum(CTH.BalanceDueAmount) for all with CTH.TransactionType = 02 (invoice) and CTH.PaymentType = 2 (charge/send bill) or 3 (prepaid)
14 /N	TotalCreditCardSales	S2 01/09	O	Sum(CTH.BalanceDueAmount) for all with CTH.TransactionType = 02 (invoice) and CTH.PaymentType = 1 (credit card)
15 /O	TotalCashSales	S2 01/09	O	Sum(CTH.BalanceDueAmount) for all with CTH.TransactionType = 02 (invoice) and CTH.PaymentType = 0 (cash)
16 /P	TotalAcctsReceivable	S2 01/09	O	Sum(CTH.BalanceDueAmount) for all with CTH.TransactionType = 03 (accounts receivable)
17 /Q	TotalExpenses	S2 01/09	O	Sum(EXP.ExpenseAmount)
18 /R	InventoryVariance	S2 01/09	O	
19 /S	RouteClosed	ID 01/01	M	0 = route not closed 1 = route closed
20 /T	RouteKey	N0 01/03	M	key to subordinate files; increment when exit Start Day
21 /U	WarningTimeReasonCode	N0 01/04	O	The ListIDCode from the SEL file for the reason that was selected by the user.

Field	FieldName	Format	Req	Comments
22/V	DriverWarningTime	N0 01/04	O	The time in seconds that it took the driver from start of day until selecting the first customer if if RCT.StartDayWarningTime <> 0 and Industrial Route (MSG.MessageTypeCode = 4 and MSG.MessageText <> "Healthcare" or "Medigas")

SVD Survey/Audit Detail

One record per survey line per survey page. See Appendices, *Survey & Audit* section for details on content of SurveyResponse field. Other fields contain values corresponding to similar-named fields in Survey Definition file. This file will not be uploaded during mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	only for SRC.SurveyTypeCode = 03 (job survey) and = 04 (customer survey)
3 / C	TransactionKey	N0 01/03	M	only for SRC.SurveyTypeCode = 03 (job survey) and = 04 (customer survey)
4 / D	SurveyTypeCode	ID 01/02	M	01 = start day survey **02 = load survey** 03 = job survey 04 = customer survey 05 = end day survey **06 = item survey**
5 / E	SurveyKey	AN 01/26	M	for SurveyTypeCode = 01: blank, "SIGNATURE 1", or "SIGNATURE 2" **for SurveyTypeCode = 02: ITM.ItemNumber** for SurveyTypeCode = 03: JOB.JobNumber for SurveyTypeCode = 04: CST.CustomerNumber or "CUSTOMER" for SurveyTypeCode = 05: blank **for SurveyTypeCode = 06: ITM.ItemNumber or "ITEM"**
6 / F	SurveyIndex	N0 01/09	M	
7 / G	DetailKey	N0 01/03	M	unique for each SurveyIndex
8 / H	QuestionIndex	N0 01/03	M	
9 / I	SurveyRecType	ID 01/02	M	
10 / J	SurveyDateTime	DT 19/19	M	formatted "mm/dd/yyyy hh:mm:ss"
11 / K	LookupType	ID 01/01	O	
12 / L	SurveyResponse	AN 01/255	O	for SurveyRecType = 15 (signature capture): "sig" + "yymmddhhmmss" + ".bmp"
13 / M	SurveyResponseIndex	N0 01/02	O	used when multiple selections are made from a dropdown list
14 / N	MapIndex	AN 01/10	O	used to map survey data elements

TSD Transaction Surcharge Detail

One record per surcharge description per order/invoice transaction. This file will not be uploaded during user initiated mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	
3 / C	TransactionKey	N0 01/03	M	
4 / D	SurchargeDescription	N0 01/04	M	from SEL, type 36
5 / F	SurchargeAmount	S2 01/09	M	

TXD Transaction Tax Detail

One record per tax type per order/invoice transaction. This file will not be uploaded during mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	VisitKey	N0 01/03	M	
3 / C	TransactionKey	N0 01/03	M	
4 / D	TaxCode	AN 19/19	M	
5 / E	TaxableAmount	S2 01/09	M	
6 / F	TaxAmount	S2 01/09	M	

ULD User Log Detail

A user log detail record is written to the upload transaction stream each time a user login or logout is performed. This file will not be uploaded during mid-day transmissions.

Field	FieldName	Format	Req	Comments
1 / A	RouteKey	N0 01/03	M	
2 / B	DetailTypeCode	ID 01/01	M	0 = login 1 = logout
3 / C	UserType	ID 01/01	M	0 = primary 1 = alternate 2 = supervisor
4 / D	TransactionDateTime	DT 19/19	M	formatted "mm/dd/yyyy hh:mm:ss"