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Taxes

Support is provided for sales and excise taxes. *Sales tax* refers to a tax that is stated as a percentage of the price and is applied to the invoice in the Summary section. *Excise tax* refers to a tax that is stated as a fixed amount and is applied at the line item level, based on the quantity of the item sold. Note that this terminology is adopted for the convenience of the present discussion, and the selected terms are not meant to be exclusionary. In other words, several common quantity-based taxes may be known by local names, such as “California Redemption Value”. In this document, all such taxes are collectively referred to as excise taxes.

Taxes of both types are managed through the Tax Master (TAX) file. Sales tax calculation is based on a *taxable amount* (quantity * price for each taxable item), which is controlled by data elements found in the Price Control (PRC), Item Master (ITM), and Customer Master (CST) files. Up to three levels of tax may be applied to each item. Tax levels typically correspond to various tax-collecting agencies, e.g., state, county. The levels are not hierarchical, i.e., the amount of tax applied to a transaction as the result of a first-level tax may not be taxed by subsequent levels. The levels do, however, determine the order in which taxes are processed.

The Tax Master (TAX) file is accessed via a *tax key*. The tax key is constructed dynamically by the application and consists of the following elements:

- **Pricing Element:** Determines whether the current price is taxable.
- **Item Element:** Determines whether the current item is taxable.
- **Customer Element:** Determines whether the current customer pays tax.

The Item Element is always sourced from the Item Master file (ITM.ItemTaxKey1..3¹). Likewise, the Customer Element is always sourced from the Customer Master file (CST.CustTaxKey1..3). The source of the Pricing Element corresponds to the source of the price. If considering list price and the Pricing Control/Detail file supplies the pricing information, then PRD.PriceTaxKey1..3 controls taxability of that price component. If default pricing from the Item Master file is used, then ITM.DefPriceTax1..3 and ITM.DefDeposTax1..3 control the tax calculation. The following table summarizes source fields for tax key construction:

Price Component	PRD.DebitPrice PRD.CreditPrice	ITM.DefaultDebitPrice ITM.DefaultCreditPrice ITM.DefaultDepositPrice
Tax Key		
Pricing Element	PRD.PriceTaxKey1..3	ITM.DefPriceTax1..3
Item Element	ITM.ItemTaxKey1..3	ITM.ItemTaxKey1..3
Customer Element	CST.CustTaxKey1..3	CST.CustTaxKey1..3

The three elements identified above are concatenated to form the key to the Tax Master file. A value of zero in any element of the tax key is considered an invalid key and no search of the Tax Master file is attempted. If a record with the corresponding key is found in the Tax Master file, then one of the following actions occurs, based on the value of TAX.TaxType.

- If TAX.TaxType = 1 (amount-based tax or sales tax), then the *item extension* (quantity * price) is accumulated into the taxable amount for that Tax Master record.
- If TAX.TaxType = 2 (quantity-based tax or excise tax), then the TAX.TaxRate is inserted into CTD.ItemExciseTax for the item. Note that only the first occurrence of a quantity-based tax is used; subsequent “hits” are ignored.

Note that the above procedure applies to the item price and the deposit amount (if applicable), separately. In this way, it is possible include or exclude deposits from the tax calculation.

Amount-based (sales) tax information is uploaded in the Transaction Tax Detail (TXD) file. For each tax code applicable to a transaction, this table will include a record providing the taxable amount and the actual tax amount applied.

¹ The notation 1..3 at the end of variable names implies that three separate key fields are used, numbered 1, 2, and 3, are used for the three tax levels supported.

Example #1

This example demonstrates the use of the tax calculation routine to assign two levels of tax to an item being transacted. The tables below show tax field values for the Item Master (ITM) and Customer Master (CST) records.

ITM	ItemTaxKey1	01
ITM	ItemTaxKey2	01
ITM	ItemTaxKey3	01

CST	CustTaxKey1	01
CST	CustTaxKey2	02
CST	CustTaxKey3	00

From the above tables, we can determine that the item is *potentially* taxable at all three levels, and that the customer is *potentially* taxable at levels 1 and 2, but not level 3 (due to a value of 00 in CustTaxKey3). Therefore, we can construct the following partial tax keys (where tax key format is PricingElement | ItemElement | CustomerElement and "??" indicates an unknown value): **??0101, ??0102**.

To determine the remaining portions of the tax keys, we must look at the source of each component of the item price. Assume the item's list price was obtained from the Pricing Detail. Also assume that the list price (PRD.DebitPrice) is 12.00 and the promotion amount (PMA.PromotionAmount) is 2.00-, for a net price of 10.00. A quantity of 10 was transacted.

PRD	PriceTaxKey1	01
PRD	PriceTaxKey2	01
PRD	PriceTaxKey3	01

The item is potentially taxable at all three levels. Therefore, we can complete our tax keys as follows: 010101 for list price component, 010102 for list price component

Assume the following tax table. (TaxKey is the concatenation of three separate fields, but treated as one field for lookups.) Note that the TaxType for the second record is quantity-based, therefore the TaxRate is expressed as an amount, not a percentage, and the TaxableAmount (internal field, not shown) accumulates quantities, not amounts.

TaxKey	TaxType	TaxRate
010101	1 (percent)	5.0000
010102	2 (quantity)	0.3500

For each completed tax key, we search for a match in the Tax Master file.

The first search uses the key **010101** (for the list price) and finds a match on the first record in the Tax Master file. A TaxType of 1 indicates an amount-based tax with a TaxRate of 5%. The extended net price (10 * (12.00 - 2.00) = 100.00) is added to the TaxableAmount accumulator.

The second search uses the key **010102** (for the list price) and finds a match on the second record. The TaxType of 2 indicates a quantity-based tax, so rather than accumulating the taxable amount, the TaxRate is inserted into the item's CTD.ItemExciseTax field. (This will print on the invoice as a tax of 0.35 per quantity.)

When all searches have been completed, the routine will be repeated for the next item in the transaction. After all items have been processed, the routine will calculate the actual amount of tax to be applied to the transaction by multiplying the TaxableAmount corresponding to each TaxMaster record by the TaxRate. For our example, the tax resulting from the first Tax Master record is 5.00 (5% of 100.00 TaxableAmount or 100.00 * (5.0000 / 100) = 5.00). Results are summarized in the table below. (TaxableAmount and TaxAmount are not actual fields in the Tax Master, but these accumulators correspond to Tax Master records.)

TaxKey	TaxType	TaxRate	TaxableAmount	TaxAmount
010101	1 (percent)	5.0000%	100.00	5.00
010102	2 (quantity)	0.3500	10	3.50

01				
02				

Example #2

This example demonstrates the use of the tax calculation routine to handle items subject to different tax status in different jurisdictions. Such arrangements might be used when customers in two different states or provinces are serviced from the same depot and/or if selected items, such as juices, are subject to different tax requirements. Assume the following tax key values:

CustomerNumber	CustTaxKey1	CustTaxKey2	CustTaxKey3
101	03	04	00

ItemNumber	ItemTaxKey1	ItemTaxKey2	ItemTaxKey3
1001	01	01	01
1002	01	00	02
1003	01	02	00
1004	01	01	00

PRD	PriceTaxKey1	01
PRD	PriceTaxKey2	02
PRD	PriceTaxKey3	03

Customer tax keys for each level are 03, 04, and 00 respectively. The customer is exempt from tax level 3. For levels 1 and 2, the key values are **????03** and **????04** respectively.

For each item sold, tax keys are shown in the second table. As the customer is exempt from tax level 3, ItemTaxKey3 values may be ignored. The remaining tax key values are **?0103** (all items), **?0104** (items #1001 & #1004), and **?0204** (item #1003). Note that item #1002 is exempt for tax level 2.

Price tax keys are taken from the Pricing Detail file. For all items, the level 1 tax key is **010103**. For level 2, items #1001 and #1004 have a tax key of **020104** and item #1003 has a tax key of **020204**. Again, the customer is exempt from tax at level 3.

Calculations proceed as outlined in Example #1, accumulating taxable amounts for each tax key for each price. Assuming that a quantity of 10 of each item is transacted at a net price of 10.00 per quantity, the following table summarizes the results.

TaxKey	TaxType	TaxRate	TaxableAmount	TaxAmount
010103	1 (percent)	5.0000%	400.00	20.00
020104	1 (percent)	2.5000%	200.00	5.00
020204	1 (percent)	3.0000%	100.00	3.00

Survey & Audit

This application provides the capability of designing survey forms to be filled in by the user during Start Day, End Day, and Customer Operations. Survey forms may be created using any combination of standard Windows input controls illustrated at right.

Survey Definition

Survey forms are defined in the SRV Survey Detail file.

SurveyIndex identifies individual records that make up each survey form. A survey consists of all records with the same SurveyIndex value.

QuestionIndex controls placement of the survey records on the input form, beginning with question 01 at the top of the form. Not all QuestionIndex values must be used, nor must records be assigned consecutive line numbers. Question 00 is required for each survey form, and must be a title type record (see below).

SurveyRecType specifies the format of the individual survey lines. Fourteen formats are supported. All except the title type may be repeated as needed. Each format is described below.

- **Title:** No input is allowed. Only one title record is allowed per survey. It must have a QuestionIndex = 00 and it must also be the first SurveyRecType per SurveyIndex. If no Title is defined for a survey, then display a default value of "Survey & Audit". Titles are also used to populate the Select Survey/Audit table.
- **Numeric input:** Accepts numeric data only. Input of the minus sign and/or decimal point is allowed (see ResponseDecimalPos below). The number of digits input must be between zero and ResponseLength (see below). The application will not accept the default value of zero (0) as input. If the user wants a value of zero, then they must actually enter a value of zero.
- **Alphanumeric input:** Accepts alphanumeric input via the numeric keypad or the Keyboard dialog, which is accessed by the keyboard icon button located to the right of the data entry field. The number of characters input must be between zero and ResponseLength (see below). Two formats are provided to allow different configurations of prompt and input field length. This input field may also be populated with the field identified by LookupIndex using the currently selected customer number and work order number as a key into the SRL Survey Lookup File when used on customer surveys (SRC.SurveyTypeCode = 04).
- **Drop down list:** A single response is selected from a list of items. Source of the list is based on LookupType and LookupIndex (see below). Two formats are provided to allow different configurations of prompt and input field length.
- **Date input:** Accepts date value via Select Date dialog, invoked with the calendar icon button located to the right of the data entry field. Any valid date may be entered.
- **Time input:** Accepts time value via Select Time dialog, invoked with the clock icon button located to the right of the data entry field. Any valid time may be entered.

- **Yes/No Option:** Allows user to select appropriate radio button to indicate response. Values are preset to "Yes" and "No".
- **Check Box:** Allows user to set or clear check box to indicate response.
- **Lookup Field:** Response is selected via Find dialog, accessed with the binoculars icon button to the right of the data entry field. Source of list based on LookupType. Returns ITM.ItemNumber (for upload detail) and ITM.ItemDescription (for display) corresponding to selection.
- **Multiple selection drop down list:** Multiple responses are selected from a list of items. Source of the list is based on LookupType and LookupIndex (see below). The number of lines displayed in the list box is controlled by LineCount (see below).
- **Multiple line edit box:** Accepts alphanumeric input via the numeric keypad or the Keyboard dialog, which is accessed by the keyboard icon button located to the right of the SurveyPrompt. The number of characters input must be between zero and a maximum of 255 characters. The number of lines displayed in the list box is controlled by LineCount (see below). This edit box may also be populated with the field identified by LookupIndex using the currently selected customer number and work order number as a key into the SRL Survey Lookup File when used on customer surveys (SRC.SurveyTypeCode = 04).
- **Prompt/text only:** No input is allowed. This is only used to display/prompt text to the user.
- **Display page break:** No input is allowed. This is only used to force a page break in the survey form.
- **Signature capture:** Allows user to capture a signature.
- **Populated static text box:** No input is allowed. This is used to display an un-editable, static text box that is populated with the field identified by LookupIndex using the currently selected customer number and work order number as a key into the SRL Survey Lookup File. This type is only used on customer surveys (SRC.SurveyTypeCode = 04).

SurveyPrompt contains the text to be displayed on screen to prompt the user. May be truncated if width of text exceeds available space on screen.

ResponseLength is used only with numeric and alphanumeric format types (01, 02, and 03). The value of this field limits responses to a specific maximum number of characters. The maximum value of this field is 20. If no value is specified, then a default value of 20 is used.

ResponseDecimalPos is used only with numeric format type (01). This field controls the position of the decimal point in numeric input fields. The user will not need to enter the decimal point explicitly, however, all digits to the right of the decimal must be input.

LookupType is used only with drop down and lookup field types (04, 05, 10, and 11). This field indicates the source of the data used to populate the input field.

- **LookupType 1:** Data is obtained from List Selection (SEL) file. See LookupIndex for additional details.
- **LookupType 2-4:** Data is obtained from Item Master (ITM) file, filtered to display only product, brand, or package type records. The product option (type 2) is not typically recommended in conjunction with the drop down field types, due to the large number of records of this type used by most customers.

LookupIndex is used to further define LookupType 1 as well as for SurveyRecTypes = 02, 03, 12, and 16.

- **LookupType 1:** Field is matched on the first two digits of the four-digit SEL.ListIDCode value. (The remaining two digits uniquely identify each item in the selection list.) The drop down list or Find dialog is populated with all SEL records that have a ListTypeCode of 21 and a ListIDCode of xxyy, where xx = LookupIndex and yy = any value.
- **SurveyRecTypes 02, 03, 12, and 16:** This field combined with the currently selected customer number and work order number provides a key into the SRL Survey Lookup File to find the data to be displayed on the customer survey form.

GroupIndex is used to logically group records together that are to be displayed on the same survey page (will not break the page within the group).

MapIndex is used to map survey data elements to other sources.

LineCount is used only with SurveyRecTypes 11 and 12. This field controls the number of lines to display for the response. The default minimum value is 2 and the maximum value is 10.

MandatoryFlag is used to identify which responses must be supplied by the user prior to finishing the survey. This field is only used with SurveyRecTypes 01 through 12.

Operations

The Survey & Audit function is started when the user presses the Survey button. The application first determines if any survey categories exist for the selected survey type. If so, then the categories are displayed on dialog 3522 – Select Survey Category (see dialog at right). Once a category is selected the application will determine if one or more surveys exist for that category. If multiple records are found, then the user will be presented with dialog 3521 – Select Survey/Audit that allows selection of the survey to complete (see dialog below at right). Surveys may be designated as mandatory and operation cannot be finalized until all mandatory surveys have been completed.

After the user selects the survey to complete (or if only one survey is available), the main survey dialog (or “form”) is populated with the required fields, based on the SRV Survey Detail File, covered in the previous section. Survey Page numbers are displayed within the title bar immediately following the survey title in X/Y format where X = the current survey page and Y = the total number of pages for this survey. The user provides responses for fields on the form, then presses the Done button when completed.

Prev and **Next** buttons are provided on dialog 3520 – Survey & Audit (see dialog at right on following page) to permit navigating between multiple pages within the same survey form. (The user must return to the Select Survey/Audit dialog to access other forms.) The **Clear** button erases all responses on the current page. **Exit** allows the user to return to the calling dialog.

Upload Data

All completed survey responses are logged to the upload Survey/Audit Detail (SVD) file. One record is generated per page for each line of a form.

RouteKey, **VisitKey**, **TransactionKey** fields tie one or more SVD records to the appropriate SRC Survey Control File record. **VisitKey** and **TransactionKey** are only used for SRC.SurveyTypeCode = 03 (job survey) and = 04 (customer survey).

SurveyTypeCode corresponds to SRV.SurveyTypeCode.

SurveyKey corresponds to SRV.SurveyKey.

- For SurveyTypeCode = 01 (start day survey): This field will be blank or contain “SIGNATURE 1” or “SIGNATURE 2” if it was used to capture a signature.
- **For SurveyTypeCode = 02 (load survey): This field will contain ITM.ItemNumber.**
- For SurveyTypeCode = 03 (job survey): This field will contain JOB.JobNumber.
- For SurveyTypeCode = 04 (customer survey): This field will contain CST.CustomerNumber.
- For SurveyTypeCode = 05 (end day survey): This field will be blank.
- **For SurveyTypeCode = 06 (item survey): This field may contain ITM.ItemNumber or “ITEM”.**

SurveyIndex corresponds to SRV.SurveyIndex.

DetailKey will be unique for each SurveyIndex.

QuestionIndex corresponds to SRV.QuestionIndex.

SurveyRecType corresponds to SRV.SurveyRecType and assists the host application in interpreting the SurveyResponse field value.

SurveyDateTime contains the date & time the survey was completed.

LookupType corresponds to SRV.LookupType.

SurveyResponse contains the data input or selected by the user. All data is left-justified in the field. List ID codes are padded to 4 digits with leading zeroes.

- Numeric and alphanumeric formats (SurveyRecType = 01, 02, 03, 12) contain the verbatim user input.
- Drop-down and lookup formats (SurveyRecType = 04, 05, 10, and 11) value depends on SVD.LookupType. For LookupType 1, SurveyResponse contains the SEL.ListIDCode corresponding to the user selection (may contain multiple, comma delimited selections). The first two characters will be the same as the corresponding SRV.LookupIndex. For LookupType 2-4, SurveyResponse contains the ITM.ItemNumber corresponding to the user selection.
- Date and time formats (SurveyRecType = 06, 07) contain date or time in standard format (mm/dd/yyyy and hh:mm:ss respectively).
- Option format (SurveyRecType = 08) contains the value of "0" for a No response or "1" for a Yes response.
- Checkbox format (SurveyRecType = 09) contains the value of "1" for a checked box, blank for a clear box.
- Signature capture format (SurveyRecType = 15) contains the filename of the associated bitmap: "sig" + "yymmddhhmmss" + ".bmp"

SurveyResponseIndex used when multiple selections are made from a drop down list.

MapIndex used to map survey data elements

Real Time Communications

Real time communications provides the ability for the host server and the handheld application to communicate at any time. Batch telecommunications, on the other hand, are always initiated by the handheld. With real time communication the host server can send various messages to the handheld and have them delivered in a relatively instantaneous manner. Real time messages are provided through an implementation of InterComm and its I-queue component. An important byproduct of implementing I-queue to communicate messages is that it eliminates the session overhead inherent in the batch based protocol.

Security

The ArciTech client provides multiple levels of security. Security is provided for user login as well as specific features.

User login security works as follows:

The device supports passwords for three roles: default user (i.e. driver), supervisor, and alternate.

Passwords are associated with routes rather than users. The route is the central concept in the ArciTech system. Drivers, vehicles, and orders are assigned to a route. A handheld contains data required for operation of a single route. This provides the flexibility to deal with issues such as a sick driver or an out-of-service vehicle without having to reassign all orders.

In typical desktop applications, a password is verified against a table that provides a list of all users and their associated passwords. In the mobile environment, this is not desirable as the mobile device has a finite storage area that is best utilized by business data or software rather than a large list of potential users of the device.

When logging in, the user selects the appropriate role and enters the password.

If the entered password matches the password assigned to the user role, then access is granted. Each login/logout event is noted in an uploaded log. Once access has been granted, the user may change the password if desired. Password changes are noted and communicated to the Server during end of day communications. The Server does not automatically update the device's password. The administrator must change the password, otherwise the next communication will overlay the changed password.

If the entered password does not match the password assigned to the user role, then an error message is displayed and access is denied.

Login retries may be restricted by setting a maximum number of login retries allowed. If the retry limit is exceeded, only the administrator password will unlock the device.

See screen 9095 for additional details on user login.

See screen 9090 for additional details on feature level security.

See the RCT file for specific passwords supported and instructions for setting up.

FS32.INI File Information

This appendix covers information for configuring the application. The FS32.INI is organized as a standard .INI file to store all application profile information. The file is read at application start-up and imported into the application registry section. There may be times when FS32.INI will need to be changed. Common changes are highlighted below. Changes made to entries not identified as "Common" are not recommended.

NOTE: The FS32.INI file contains many program configuration items that, unless properly set, will disrupt or disable the application operation. Modification of this file should only be done by experienced personnel.

NOTE: Recommended settings are shown.

<pre>;\$Header: Q:/scm/vcs/FS32/base.inv 1.63 02 Dec 2004 13:43:34 neider \$; ; ; NOTE: This file has all common settings for all HHC types. ; Initool.exe is used to merge settings from other ini files. ; Unique settings should be put in Win32.ini, Wce212.ini or Wce300.ini. ; DemoMode settings are set to Yes when demo.ini is added. ; ; This application uses the registry to contain all application ; profile information. This file is read at application start-up and ; imported into the application registry section. ; ; General INI file rules: ; - Semicolons start a comment. ; - Finding the section ([xx]) and keywords (xx=) are case-blind searches. ; - On/off or true/false is done by No == false/off and by Yes == true/on. ; - Numbers must be decimal. ; - Strings can be case sensitive and leading/trailing white space is bad. ; - Note that numbers are saved in the registry as strings. The FS32.EXE ; GetProfileInt() and WriteProfileInt() functions have been overloaded ; to convert registry values to/from integers for you.</pre>	<p>Header information Inconsequential to operation</p>
<pre>[Path] Path=.;\windows;\Storage Card;\SDMMC Disk ;Path set from HHC ini file</pre>	<p>General info for app. DO NOT CHANGE</p>
<pre>[LogFile] ;Must be work directory. Or change creation in app.cpp LogPath=%CURRENT%\Work%ROUTE%\ LogName=fs32.log BackupLogPath=%CURRENT%\work%ROUTE%\ BackupLogName=fs32bak.log MaxLogSize=20000 UploadFS32Log=No UploadTcomLog=No UploadIQLog=No IQLogAction=Yes IQLogData=Yes</pre>	<p>Program LogFile location, name, and size. CHANGE NOT RECOMMENDED</p>

[Setup]
DemoMode=No

Literals=Yes

Locale=No
AddFontResources=Yes
FontSize=9
WorkArea=Yes
DemoPath=%CURRENT%\DemoData\
SystemColors=No
HardwareAppKeys=Yes
CheckMemory=No
BattPowerOff=Yes
ExtPowerOff=Yes
WakeupPowerOff=Yes
FullScreen=Yes
TimeZone=No
ObjectStoreSize=Yes
PrintDrivers=No
SystemIdleTimerReset=Yes
SessionTimeout=Yes
FullScreenInPocketPC=Yes
;TimeZone set from HHC ini file
;ObjectStoreSize set from HHC ini file
;PrintDrivers set from HHC ini file
;SystemIdleTimerReset set from HHC ini file

[SetupSessionTimeout]
TimeOut=0
Silent=Yes

[Raima]
dbdpath=%CURRENT%\Database%ROUTE%\
dbfpath=%CURRENT%\Database%ROUTE%\
dbtaf=%CURRENT%\Database%ROUTE%\
dblog=%CURRENT%\Database%ROUTE%\
ReviseExe=%CURRENT%\wrevise.exe
DbWorkDbd=%CURRENT%\dbwork.dbd
dbuserid=intermec
closefiles=0

[Telecom]

DemoMode=No

Enabled=Yes
Type=NCS
ImportPath=%CURRENT%\Import%ROUTE%\
ExportPath=%CURRENT%\Export%ROUTE%\

User Configurable options
DemoMode: Yes allows Reset
and Selection of DB
No inhibits these operations
Literals: Whether to load
configured literals.
Change Not Recommended

Change Not Recommended

Silent=No logs info to Log File
for debugging.
Yes means no logging.

Change Not Recommended

Telecom Setting Changes allow
for PC simulation of TCOM
DemoMode=No=Application will
invoke WinCfg to do a TCOM
Yes=TCOM will be simulated,
App expects data in Import.
Change Not Recommended

MaxRetries=3	MaxRetries = number of times application should attempt TCOM after fails before simply quit trying.
RetryDelay=120	RetryDelay = number of seconds delay before Retry.
CabFilePath=%PATH%\cabfiles\ UploadLog=Yes	Change Not Recommended
[NdisTray] StartupMode=3	0 = Do not change 1 = Enable built-in Ethernet 2 = Enable 802.11 Wireless 3 = Disable Networking
[DHCP] EtherNetEnabled=Yes	'Yes' = Enable Ethernet DHCP 'No' = Disable Ethernet DHCP
WirelessEnabled=Yes	'Yes' = Enable Wireless DHCP 'No' = Disable Wireless DHCP
[ActiveSync] AutoConnect=No	ActiveSync Settings Sets the ActiveSync startup mode. When enabled the HHC will try to ActiveSync automatically when placed in a dock.
Cnct='115200 Default	<blank> = Do not change 'No' = Disabled 'Yes' = Enabled Possible Settings: '115200 Default '57600 Default '38400 Default '19200 Default 'USB Default - Do not use if doing modem communications via the serial port or running on a mono 700.
[SetupAddFontResources] Font1=%CURRENT%\fonts\tahoma.ttf NumFonts=1 Silent=Yes	Change Not Recommended
[SetupObjectStoreSize] MinimumSize=1088 Silent=Yes	Dependent on troubleshooting
[SetupBattPowerOff] Timeout=300 Silent=Yes	Change Not Recommended
[SetupExtPowerOff] Timeout=0 Silent=Yes	Change Not Recommended
[SetupWakeupPowerOff] Timeout=0 Silent=Yes	Change Not Recommended

[SetupHardwareAppKeys]

Silent=Yes

App1= (Defines the full path of the executable file for the first hardware application key.)
App2= (Defines the full path of the executable file for the second hardware application key.)
App3= (Defines the full path of the executable file for the third hardware application key.)
App4= (Defines the full path of the executable file for the fourth hardware application key.)
;double-quotes need to be placed around any application path that contains a blank space."

[SetupSystemColors]

Change Not Recommended

color_dialogbk=192,192,192
color_dialogtext=0,0,0
color_3ddkshadow=0,0,0
color_3dface=192,192,192
color_btnface=192,192,192
color_3dhighlight=255,255,255
color_3dhighlight=255,255,255
color_btnhighlight=255,255,255
color_3dlight=192,192,192
color_3dshadow=128,128,128
color_btnshadow=128,128,128
color_activeborder=192,192,192
color_activecaption=0,0,128
color_appworkspace=
color_background=
color_desktop=
color_btntext=0,0,0
color_captiontext=255,255,255
color_graytext=128,128,128
color_highlight=0,0,128
color_highlighttext=255,255,255
color_inactiveborder=192,192,192
color_inactivecaption=128,128,128
color_inactivecaptiontext=192,192,192
color_infobk=
color_infotext=
color_menu=
color_menutext=
color_scrollbar=192,192,192
color_window=255,255,255
color_windowframe=0,0,0
color_windowtext=0,0,0
Silent=Yes

[SetupWorkArea]

Change Not Recommended

Silent=Yes

[SetupLiterals]

Change Not Recommended

AppLiteralsDir=%CURRENT%\Intl\app\
AppLiteralsFile=lng_engd.bin
SystemLiteralsDir=%CURRENT%\Intl\system\
SystemLiteralsFile=lang_eng.bin
Silent=Yes

[SetupLocale]

Change Not Recommended

AppLocaleFile=%CURRENT%\Intl\app\loc_eng.bin
SystemLocaleFile=%CURRENT%\Intl\system\loc_eng.bin
Silent=Yes

[SetupPrintDrivers] DriverPath=%CURRENT%\windows\ Silent=Yes	Change Not Recommended
[PenAlign] Enabled=Yes ;Enabled set in HHC ini file ;Filename set in HHC ini file	Change Not Recommended
[InkCapture] NotePath=%CURRENT%\work\	Change Not Recommended
[DocumentSecurity] DocLogPath=%CURRENT%\work\	Change Not Recommended
[Security] MinutesFrozen=5 MaxLockoutCodeAttempts=3	Change Not Recommended
[Bitmaps] SplashScreen=%CURRENT%\bitmaps\intermec.bmp	Change Not Recommended
[Telecom NCS] NCSConfigFile=nrinet.ini NCSConfigFileEOD=eod.ini NCSConfigFileMID=mid.ini NCSConfigFileBkGnd=bkgnd.ini WinConfigUtility=%PATH%\programs\intermec\pswcmce.exe NCSDirectory=%PATH%\programs\intermec ;NcsDirectory set in HHC ini file ;WinConfigUtility set from HHC ini file	Change Not Recommended
[Printing] DemoMode=No Enabled=Yes ReportPath=%CURRENT%\work%ROUTE%\ Printer1=6820 Cabled,80,Printer6820Cabled Printer2=6808 Cabled (40 col),40,Printer6808-Cabled-40col Printer3=6808 Cabled (80 col),80,Printer6808-Cabled-80col Printer4=681T Cabled,40,Printer681TCabled Printer5=782T,40,Printer681TCabled Printer6=6808 Cabled 38.4k (80 col),80,Printer6808-Cabled 38.4k-80col ;If the HTML printer # changes, [HTML] PrinterNum must be changed to match. Printer7=HTML 80,80,PrinterHTML Printer8=HTML 40,40,PrinterHTML Printer9=PB40 Cabled (80 col),80,PrinterPB40-Cabled-80col Printer10=PB40 Cabled 38.4k (80 col),80,PrinterPB40-Cabled 38.4k-80col NumPrinters=10	Change Not Recommended
[HTML] ;PrinterNum MUST MATCH the HTML printer PrinterNum=7 HTMLPath=%CURRENT%\Image%ROUTE%\	Change Not Recommended Defines a 7 th printer = HTML image of Report. Change Not Recommended

[PrinterPorts]

Port1=COM1:;1200,n,8,1,cdtr
Port2=COM1:;2400,n,8,1,cdtr
Port3=COM1:;4800,n,8,1,cdtr
Port4=COM1:;9600,n,8,1,cdtr
Port5=COM1:;14400,n,8,1,cdtr
Port6=COM1:;19200,n,8,1,cdtr
Port7=COM1:;38400,n,8,1,cdtr
Port8=COM1:;56000,n,8,1,cdtr
Port9=COM1:;128000,n,8,1,cdtr
Port10=COM1:;256000,n,8,1,cdtr
Port11=IRDA
Port12=NPCP,COM1:

Change Not Recommended

[Printer6820Cabled]

EntryName=Port12
PortName=
InitSeq=0x1b,0x40,0x0d,0x1b,t,1
PrintableLines=58
BoldOnSeq=0x1b,G
BoldOffSeq=0x1b,H
NormalFontSeq=0x1b,!,0x00
DoubleWideFontSeq=0x1b,!,0x20
CompressFontSeq=0x1b,!,0x04
FormFeedSeq=0x0c
GraphModeInitSeq=
GraphModeExitSeq=
GraphPrefixSeq=0x1b,L,0xC0,0x03
GraphPostfixSeq=13,0x1b,J,0x18
GraphXDots=960
GraphNumPins=8
GraphCharHeight=12
GraphCharWidth=12

Change Not Recommended

[Printer6808-Cabled-40col]

EntryName=Port4
PortName=
InitSeq=0x00,0x00,0x00,0x00,0x00,0x00,0x1b,0x40,0x00,0x00,0x00,0x00,0x00,0x1b,w,&,0x0f
PrintableLines=0
BoldOnSeq=
BoldOffSeq=
NormalFontSeq=0x1b,w,0x20,0x0f
DoubleWideFontSeq=0x1b,w,0x20,0x0e
CompressFontSeq=
FormFeedSeq=0x0d,0x0d,0x0d,0x0d,0x0d
GraphModeInitSeq=0x1b,V,n1,n2
GraphModeExitSeq=
GraphPrefixSeq=
GraphPostfixSeq=
GraphXDots=832
GraphNumPins=1
GraphCharHeight=32
GraphCharWidth=20

Change Not Recommended

[Printer6808-Cabled-80col]

Change Not Recommended

EntryName=Port4

PortName=

InitSeq=0x00,0x00,0x00,0x00,0x00,0x00,0x1b,0x40,0x00,0x00,0x00,0x00,0x1b,w,!

PrintableLines=0

BoldOnSeq=

BoldOffSeq=

NormalFontSeq=0x1b,w,!

DoubleWideFontSeq=0x1b,w,0x20

CompressFontSeq=0x1b,w,>

FormFeedSeq=0x0d,0x0d,0x0d,0x0d,0x0d

GraphModeInitSeq=0x1b,V,n1,n2

GraphModeExitSeq=

GraphPrefixSeq=

GraphPostfixSeq=

GraphXDots=832

GraphNumPins=1

GraphCharHeight=16

GraphCharWidth=10

[Printer681TCabled]

Change Not Recommended

EntryName=Port4

PortName=

InitSeq=0x00,0x00,0x00,0x00,0x00,0x00,0x1b,0x40,0x00,0x00,0x00,0x00,0x00,0x1b,w,%

PrintableLines=0

BoldOnSeq=

BoldOffSeq=

NormalFontSeq=0x1b,w,%

DoubleWideFontSeq=0x1b,w,&

CompressFontSeq=

FormFeedSeq=0x0d,0x0d,0x0d,0x0d,0x0d

GraphModeInitSeq=0x1b,V,n1,n2

GraphModeExitSeq=

GraphPrefixSeq=

GraphPostfixSeq=

GraphXDots=384

GraphNumPins=1

GraphCharHeight=16

GraphCharWidth=9

[PrinterHTML]

Change Not Recommended

EntryName=Generic / Text Only (COM1:)

Description=HTML

Columns=80

PrintableLines=57

InitSeq=<,H,T,M,L,>,0x0d,0x0a,<,H,E,A,D,>,0x0d,0x0a,<,S,T,Y,L,E, ,T,y.p,e,=," ,t,e,x,t,/,c,s,s,">,0x0d,0x0a

InitSeqExt1=.,n,o,r,m,a,l, ,{,f,o,n,t,-,s,i,z,e,;, ,0x39,p,t,;, ,f,o,n,t,-,f,a,m,i,l,y,;, ,N,o,r,a,n,d,0x34,0x38,0x31,0x35,;,

,c,o,l,o,r,;, ,b,l,a,c,k,;, ,b,a,c,k,g,r,o,u,n,d,;,w,h,i,t,e,;, ,l,i,n,e,-,h,e,i,g,h,t,;, ,0x31,0x30,p,t,;},0x0d,0x0a

InitSeqExt2=.,w,i,d,e, ,{,f,o,n,t,-,s,i,z,e,;, ,0x39,p,t,;, ,f,o,n,t,-,f,a,m,i,l,y,;,

,N,o,r,a,n,d,0x34,0x38,0x31,0x35,D,o,u,b,l,e,W,i,d,e,;, ,c,o,l,o,r,;, ,b,l,a,c,k,;, ,b,a,c,k,g,r,o,u,n,d,;,w,h,i,t,e,;, ,l,i,n,e,-

,h,e,i,g,h,t,;, ,0x31,0x30,p,t,;},0x0d,0x0a

InitSeqExt3=.,c,o,m,p,r,e,s,s, ,{,f,o,n,t,-,s,i,z,e,;, ,0x39,p,t,;, ,f,o,n,t,-,f,a,m,i,l,y,;,

,N,o,r,a,n,d,0x34,0x38,0x31,0x35,C,o,n,d,e,n,s,e,d,;, ,c,o,l,o,r,;, ,b,l,a,c,k,;, ,b,a,c,k,g,r,o,u,n,d,;,w,h,i,t,e,;, ,l,i,n,e,-

,h,e,i,g,h,t,;, ,0x31,0x30,p,t,;},0x0d,0x0a

InitSeqExt4=.,n,p, ,{,p,a,g,e,-,b,r,e,a,k,-,b,e,f,o,r,e,;, ,a,l,w,a,y,s,},0x0d,0x0a

InitSeqExt5=<,/,S,T,Y,L,E,>,0x0d,0x0a,<,/,H,E,A,D,>,0x0d,0x0a,<,B,O,D,Y,>,0x0d,0x0a,<,P,R,E,>,0x0d,0x0a,

ExitSeq=<,/,P,R,E,>,0x0d,0x0a,<,/,B,O,D,Y,>,0x0d,0x0a,<,/,H,T,M,L,>,0x0d,0x0a

BoldOnSeq=<,B,>

BoldOffSeq=<,B,>

ItalicOnSeq=<,I,>
ItalicOffSeq=<./,I,>
UnderlineOnSeq=<,U,>
UnderlineOffSeq=<./,U,>
StrikeOutOnSeq=<,S,>
StrikeOutOffSeq=<./,S,>
NormalFontSeq=<./,S,P,A,N,>,<,S,P,A,N, ,C,L,A,S,S,=,0x22,n,o,r,m,a,l,0x22,>
DoubleWideFontSeq=<./,S,P,A,N,>,<,S,P,A,N, ,C,L,A,S,S,=,0x22,w,i,d,e,0x22,>
CompressFontSeq=<./,S,P,A,N,>,<,S,P,A,N, ,C,L,A,S,S,=,0x22,c,o,m,p,r,e,s,s,0x22,>
FormFeedSeq=0x0d,0x0a,<,H,R,>,<./,P,R,E,>,<,P,R,E, ,C,L,A,S,S,=,0x22,n,p,0x22,>,0x0d,0x0a
CrLfSeq=0x0d,0x0a
GraphModelInitSeq=<,I,M,G,0x20,H,E,I,G,H,T,=,5,0,0x20,W,I,D,T,H,=,5,0,>
GraphModeExitSeq=<./,I,M,G,>
GraphPrefixSeq=
GraphPostfixSeq=
GraphXDots=1200
GraphNumPins=1
GraphCharHeight=24
GraphCharWidth=15

[Printer6808-Cabled 38.4k-80col]

Change Not Recommended

EntryName=Port7
PortName=
InitSeq=0x00,0x00,0x00,0x00,0x00,0x00,0x1b,0x40,0x00,0x00,0x00,0x00,0x00,0x1b,w,!
PrintableLines=0
BoldOnSeq=
BoldOffSeq=
NormalFontSeq=0x1b,w,!
DoubleWideFontSeq=0x1b,w,0x20
CompressFontSeq=0x1b,w,>
FormFeedSeq=0x0d,0x0d,0x0d,0x0d,0x0d
GraphModelInitSeq=0x1b,V,n1,n2
GraphModeExitSeq=
GraphPrefixSeq=
GraphPostfixSeq=
GraphXDots=832
GraphNumPins=1
GraphCharHeight=16
GraphCharWidth=10

[PrinterPB40-Cabled-80col]

Change Not Recommended

EntryName=Port4
PortName=
InitSeq=0x00,0x00,0x00,0x00,0x00,0x00,0x1b,0x40,0x00,0x00,0x00,0x00,0x00,0x1b,w,!
PrintableLines=0
BoldOnSeq=
BoldOffSeq=
NormalFontSeq=0x1b,w,!
DoubleWideFontSeq=0x1b,w,&
CompressedFontSeq=0x1b,w,B
FormFeedSeq=0x0d,0x0d,0x0d,0x0d,0x0d
GraphModelInitSeq=0x1b,V,n1,n2
GraphModeExitSeq=
GraphPrefixSeq=
GraphPostfixSeq=
GraphXDots=832
GraphNumPins=1
GraphCharHeight=16
GraphCharWidth=9

[PrinterPB40-Cabled 38.4k-80col]

Change Not Recommended

EntryName=Port7

PortName=

InitSeq=0x00,0x00,0x00,0x00,0x00,0x00,0x1b,0x40,0x00,0x00,0x00,0x00,0x00,0x1b,w,!

PrintableLines=0

BoldOnSeq=

BoldOffSeq=

NormalFontSeq=0x1b,w,!

DoubleWideFontSeq=0x1b,w,&

CompressedFontSeq=0x1b,w,B

FormFeedSeq=0x0d,0x0d,0x0d,0x0d

GraphModeInitSeq=0x1b,V,n1,n2

GraphModeExitSeq=

GraphPrefixSeq=

GraphPostfixSeq=

GraphXDots=832

GraphNumPins=1

GraphCharHeight=16

GraphCharWidth=9

[BlueTooth]

Enabled=Yes

[PrinterPB20-BT]

Change Not Recommended

EntryName=Port14

PortName=

InitSeq=0x00,0x00,0x00,0x00,0x00,0x00,0x1b,0x40,0x00,0x00,0x00,0x00,0x00,0x1b,w,%

PrintableLines=0

BoldOnSeq=

BoldOffSeq=

NormalFontSeq=0x1b,w,%

DoubleWideFontSeq=0x1b,w,&

CompressedFontSeq=

FormFeedSeq=0x0d,0x0d,0x0d,0x0d

GraphModeInitSeq=0x1b,V,n1,n2

GraphModeExitSeq=

GraphPrefixSeq=

GraphPostfixSeq=

GraphXDots=384

GraphNumPins=1
GraphCharHeight=16
GraphCharWidth=9
ShutdownCharCount=1000
[PrinterPB40-40col-BT]
EntryName=Port14
PortName=
InitSeq=0x00,0x00,0x00,0x00,0x00,0x00,0x1b,0x40,0x00,0x00,0x00,0x00,0x1b,w,&,0x0f
PrintableLines=0
BoldOnSeq=
BoldOffSeq=
NormalFontSeq=0x1b,w,&,0x0f
DoubleWideFontSeq=0x1b,w,&,0x0e
CompressedFontSeq=
FormFeedSeq=0x0d,0x0d,0x0d,0x0d,0x0d
GraphModelInitSeq=0x1b,V,n1,n2
GraphModelExitSeq=
GraphPrefixSeq=
GraphPostfixSeq=
GraphXDots=832
GraphNumPins=1
GraphCharHeight=32
GraphCharWidth=18
ShutdownCharCount=1000
[PrinterPB40-80col-BT]
EntryName=Port14
PortName=
InitSeq=0x00,0x00,0x00,0x00,0x00,0x00,0x1b,0x40,0x00,0x00,0x00,0x00,0x00,0x1b,w,!
PrintableLines=0
BoldOnSeq=
BoldOffSeq=
NormalFontSeq=0x1b,w,!
DoubleWideFontSeq=0x1b,w,&
CompressedFontSeq=0x1b,w,B
FormFeedSeq=0x0d,0x0d,0x0d,0x0d,0x0d
GraphModelInitSeq=0x1b,V,n1,n2
GraphModelExitSeq=
GraphPrefixSeq=
GraphPostfixSeq=
GraphXDots=832
GraphNumPins=1
GraphCharHeight=16
GraphCharWidth=9
ShutdownCharCount=1000
[PrinterPK80-BT]
EntryName=Port13
PortName=
InitSeq=0x1b,0x40,0x0d
PrintableLines=57
BoldOnSeq=0x1b,E
BoldOffSeq=0x1b,F
NormalFontSeq=0x1b,!,0x00
DoubleWideFontSeq=0x1b,!,0x20
CompressedFontSeq=0x1b,!,0x04
FormFeedSeq=0x0c
GraphModelInitSeq=0x1b,A,0x08
GraphModelExitSeq=0x1b,A,0x0C
GraphPrefixSeq=0x1b,L,0xC0,0x03
GraphPostfixSeq=13,10
GraphXDots=960
GraphNumPins=8
GraphCharHeight=12
GraphCharWidth=12
ShutdownCharCount=1000

Literal Files Information

Titles and labels that appear on screens and reports are referred to as literals. All literals in the application are “soft”. This means that they can be changed to support the use of specific business terminology or alternate languages.

The mobile client (handheld) application makes use of literals from 3 different files:

- **System literals** are used by the underlying components of the system to display system error messages. You should not change system messages as they are used for debugging. You may, however, need to convert messages to a foreign language.
- **Display literals** affect what the user views on the screen.
- **Report literals** affect what appears on printed handheld reports. Multiple report literals files are supported. This allows reports to print in the customer’s preferred language. This is used primarily in Quebec where the law dictates that printed documents must be presented in the customer’s preferred language (French or English). Multiple report literals files allow the user to visit both French and English customers within the same route.

NOTE that the default literal for REPORT is the same as for DIALOG unless changes are made.

Literals are presented to you the user in ASCII text form. You can see and edit these values in these three format files. The ArciTech / i-gistics program accepts literals in a compact form after a conversion process.

Objectives

The main objective of this procedure is to modify the literals used by ArciTech / i-gistics (A/i). You will accomplish this by:

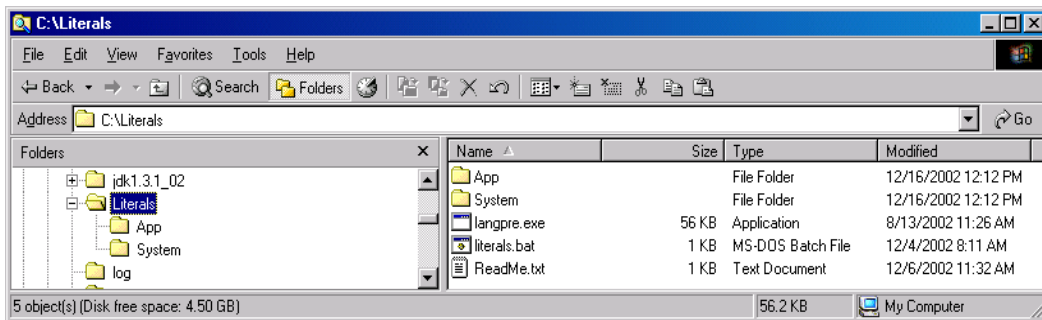
- Modifying the literal file
- Running a program that will make a file that is usable by A/i

1. Map the terminology

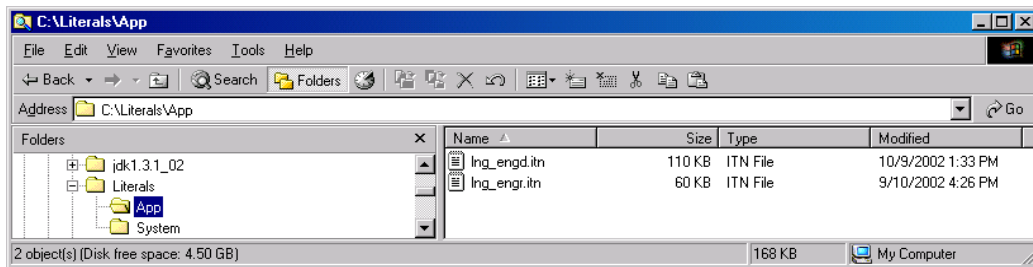
Before changing literals, map your terminology. What terminology does the customer use to refer to the destinations that the user must visit? Are these shipments, work orders, manifest? Make this decision before you start changing literals. It makes it much easier to change as you can do searches on the default terminology instead of editing on a line-by-line basis.

2. Edit literal files

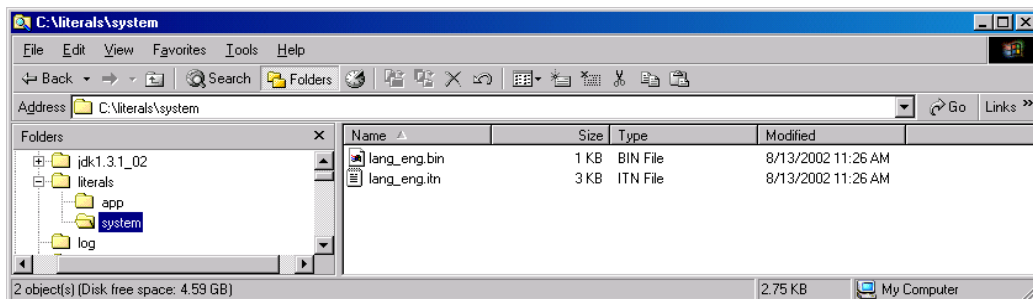
First, copy the directory containing the language files and language utility from the source CD (or SCM site). This is located on the CD in the “\Literals” directory. (may not be off the root, but search for directory named “literals”). In this example we copy the files to the C:\Literals directory.



The display literals are located in the \APP directory in a file named “lng_engd.itn”[1]. The report literals are located in the same directory in a file named “lng_engr.itn”[1].



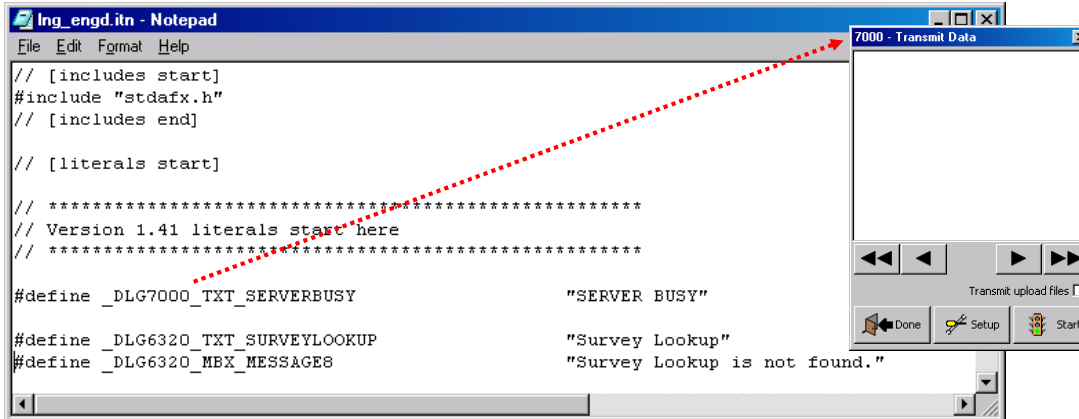
The system literals are located in the \SYSTEM directory in a file named lang_eng.itn.



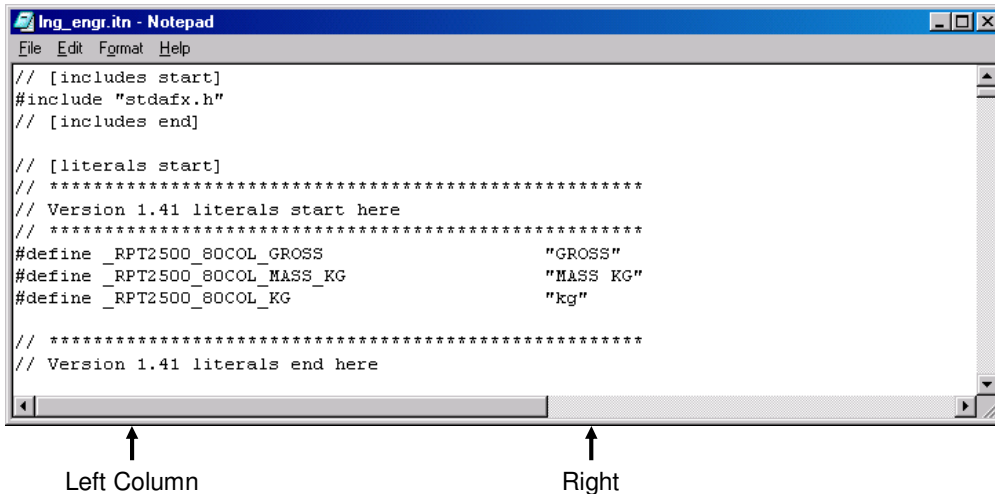
NOTE [1]: Notice the last letter in the filename. “d” for Dialog literals. “r” for Report literals.

Use a text editor (e.g, NotePad, WordPad, other) to edit the literals.

"Display literals" are identified by the screen# of the screen on which they appear.



"Report literals" are identified by the number of the report on which they appear.



When changing literals:

- Do NOT edit the text in the left column. This information is used when loading literals.
- Do edit the information in the right-hand column of the display.
- Use caution when making literals longer than the default literal. Some screens have space constraints, so you will need to verify that longer literals fit in the display area provided.
- Do NOT change the order of the literals in the ITN file.

After you have made all your changes you will save the file. Select File→Save and then File→Exit.
Repeat this process for all the literal (file) modifications you desire.

3. Process literal files with Language Preprocessor utility

Return to the \Literals level directory, and run the batch file, literals.bat. This file will invoke the ".itn -to- .bin" conversion program (langpre.exe) for all three of the literals files, creating the needed .bin files. After the conversion process is complete, the .bin files will reside in the \app and \system folders.

4. Place literals in correct directory

In standard operation, .BIN files are to be downloaded to the default download directory. They can be Soft Downloaded "in the clear" and the application will install them to the correct directory, or they can be modified in the "Dynamic" directory of "MakeCab" (see that documentation) and included in the build of the CAB file. In either event, they end up in a directory structure mimicking that of the PC configuration specified below.

For initial configuration and testing on the PC:

Copy files to the correct \FS32\Intl directory:

Copy the *lng_engd.bin* and *lng_engr.bin* files to the *fs32\intl\app* directory.

Copy the *lang_eng.bin* file to the *fs32\intl\system* directory.

5. Update .ini files

NOTE: The FS32.INI file contains many program configuration items that, unless properly set, will disrupt or disable the application operation. Modification of this file should only be done by experienced personnel.

Inspect the FS32.INI file in the handheld \FS32 directory.

The .ini file must be enabled to recognize external literals. Change the "Literals" tag in the [Setup] section of the FS32.INI file to "Yes".

The path for literals and name of the literals file is also controlled in the .ini file. You can change the name of the literals file by reflecting the change in the .ini file. The literals file should always take the format of lng_XXXd or lng_XXXr where "XXX" represents a name for a unique set of literals.

```
[Setup]
Literals=Yes
```

```
[SetupLiterals]
AppLiteralsDir=%CURRENT%\Intl\app\
AppLiteralsFile=lng_engd.bin
SystemLiteralsDir=%CURRENT%\Intl\system\
SystemLiteralsFile=lang_eng.bin
```

6. Update route configuration

If you have enabled literals in the .ini file, you must tell the application which literal file to use as the default. Include the name "XXX" in the route control file where "XXX" is the 3-letter language identifier portion of the display literal file lng_XXXd.bin.

(For example, lng_ENGd.bin may be ENGLISH, and lng_FREd.bin may be FRENCH).

Trouble-shooting literals configurations

1. **Issue:** Updated literals do not appear upon application execution.
 - 1.1. The literals file version MUST match the application version[1]. If these do not match, default application literals will be used.

Note [1]: Or, at least, the number of literals from version to version must not have changed.

To determine if you are using matching versions, set "Silent=No" in the "SetupLiterals" section of the fs32.ini file. An error "5" indicates that the versions of the literals file and application do not match. See the meaning of the other errors below.

- 1.2. Ensure that the literals are being pulled from the correct directory. If you install the application in a directory other than the default directory (c:\fs32), you may need to update the pathname that tells the application where to find the literals. The display literals path is defined by the "AppLiteralsFile" setting in the "SetupLiterals" section of the fs32.ini file.
 - 1.3. If the literal file is corrupted, the default application literals will be used. To determine if there is a problem with the literal file you are using, set "Silent=No" in the "SetupLiterals" section of the fs32.ini file. An error "4" indicates that the application cannot load the supplied literal file.
 - 1.4. Literals manipulation occurred while application was running. Literals are only loaded on program startup - so changes to the literals.bin files while the program is running are not applied. Exit the ArciTech / i-gistics applications and re-start to load the new values.
2. **Issue:** The message "Language literals file is missing!" appears when you attempt to print.
 - 2.1. The application expects report literals to be located in the same subdirectory as the display literals. Check that the literals are being pulled from the correct directory as described in section 1.2 above.
 - 2.2. Files containing report literals MUST be named lng_xxxr.bin where "xxx" refers to a language or terminology set. (ex. lng_ENGr.bin is the default name for English report literals)
 - 2.3. For route-level reports, the language setting in the route control file (RCT.Language) MUST match the name of a reports literal file. For example, if the desired reports literal file is titled "lng_ENGr.bin", then the language setting in the route control file must be "ENG".

For customer level reports (delivery tickets, invoices, receipts), the language setting in the customer file (CST.Language) MUST match the name of a reports literal file.
3. **Issue:** Some characters appear as blanks.
 - 3.1. Asian languages that require the use of double-byte character sets are not supported.

Bitmap Files Information

This appendix covers information for modifying bitmap files.

Bitmaps used by the application are located in the \FS32\BITMAPS folder. Replacement bitmaps must be of the same dimension and file type (.BMP) as the original. When new bitmap files are downloaded, they will automatically be moved to the \FS32\BITMAPS folder.

Scanner Configuration

The internal scanner on a 700 series handheld terminal is configured automatically. Settings are stored in the scan700.ini file on the handheld.

The following barcodes are samples of the supported formats:

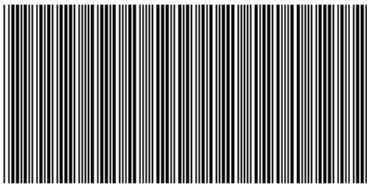
CODE 128



ABCDEF123456789012345

CODE 39

Comment [LatteyJL2]:



ABCDEFGH12345678

UPC-A

Credit Card Encryption

The following is the credit card encryption algorithm. It will involve performing an ASCII shift for each character.

Here is how it works. Each character in the credit card number will be shifted according to the following chart:

Shift char 1: +20 hex

Shift char 2: +11 hex

Shift char 3: +19 hex

Shift char 4: +15 hex

Repeat this for every 4 characters.

Example: 1653102302234323

Result: QVUSBACDIKKLIHGH

It was decided to keep the characters within the letter range of the ASCII codes so that it does not stick out to someone, if they were to get their hands on the HHC.

The credit card number will be encrypted on the HHC during the end of day processing before the upload files are sent.



CAB Files Information

Files located in the **\MakeCab\Pocket PC 2002 or \MakeCab\Pocket PC 2003** folders on the CD allow you to custom build a cab file. Files that may be changed include bitmaps (.bmp files located in **\HHC Root\Install Dir\FS32\Bitmaps**), literals (.bin files located in **\HHC Root\Install Dir\FS32\App or \HHC Root\Install Dir\FS32\System**), and configuration files (.ini files located in **\HHC Root\Install Dir\FS32**). Additionally a cab that contains data may be built. To create this type of cab put the data in a directory called **\HHC Root\Install Dir\FS32\Import** and set the FS32.ini [Telecom] DemoMode=Yes.

Before you can build a cab file you will need to get Cabwiz.exe and Makecab.exe which are included in "Pocket PC 2002 **(or 2003)** Software Development Kit", a free download from Microsoft. After installing "Pocket PC 2002 **(or 2003)** Software Development Kit" you can find CabWiz.exe and MakeCab.exe in the sub-folder "support\ActiveSync\windows ce application installation\cabwiz".

After changing any files, you will need to generate a new FS32.cab file by using buildcab.cmd. **In order to use buildcab.cmd you will need WinZip® along with the WinZip Command Line Support Add-On (a free add-on for users of WinZip® with a valid license).**

After creating the cab file, check for errors in ERR.txt. Warnings are acceptable, but errors are not. Occasionally Cabwiz.exe or MakeCab.exe generate unexplained errors. If ERR.txt contains the following error: Error: CAB file "filename" could not be created. Then try changing your "TMP" environment variable. CabWiz.exe occasionally does not like it when the "TMP" contains spaces in the directory name.

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Document Revision History

Revision	Purpose Of Change	Revision Date	Author
A	Initial Release	September 2, 2003	Steve Williams
B	Modified to include changes for V2.21.	December 19, 2003	Steve Williams
C	Modified to include changes for V2.30.	April 19, 2004	Steve Williams
D	Modified to include changes for V2.31.	June 9, 2004	Steve Williams
E	Modified to include changes for V2.40.	June 30, 2004	Steve Williams
F	Modified to include changes for V2.41.	September 10, 2004	Steve Williams
G	Modified to include changes for V2.50.	March 16, 2005	Steve Williams
H	Modified to include changes up to V3.00.27	May 7, 2006	Jean Freilinger

Program Revision History

Version 1.10 - released on 01/16/01

Changes:

- Added wireless communications with support for NEXTEL phones. All wireless communications will be initiated by the handheld computer and sent through a NEXTEL phone to the host. Optionally allow the SCD Status Change Details, NSC Non-Serviced Work Orders, MMO Mail Message Out, and FMR File Maintenance Rejection upload files to be sent wireless in a background session.
- Added file maintenance support (add/change/delete) for the CST Customer Master, SEQ Work Sequence, and JOB Job Sequence files.
- Added the ability to scan anywhere a Part Number is entered (outside a grid) using an integrated scanner. Must be able to either scan the bar code or manually input the part number. Supported formats include "Code 39" and UPC.
- Added functional support for Mail / Messaging.
- Redefined PRC.CustomerPricingKey (from N0 01/08 to 01/06) and ITM.PricingKey (from N0 01/08 to 01/06) so that their field sizes are consistent with CST.PricingKey (N0 01/06).
- Upload SCD Status Change Details at mid-day telecommunications and added a TransmitIndicator field to determine if the file has been transmitted yet.
- Added the ability to capture, upload, and print the name of the person supplying an electronic signature.
- Disallow keypad Enter key at 6320 Work Order Maintenance and 6420 Job Maintenance dialogs (as is done at 3040 Customer Maintenance).
- Removed support for running under Microsoft Windows 95.

File Changes:

- RCT Route Control File: added an EnableBackgroundTelecom flag that controls background telecoms. Also added TimeZoneOffset and DaylightSavingsOffset fields to allow for time synchronization with the host.
- ITM.UnitsPerCase: removed this field since it was not being used.
- STS Work Status File: added a SendStatusOption flag that controls whether or not to send associated SCD Status Change Detail records during a background telecom.
- NCS Telecom Settings File: added a TcomType flag.
- SCD Status Change Detail: added CustomerNumber, WorkOrderNumber, JobNumber fields as well as a TransmitIndicator flag that identifies whether it has been transmitted or not.
- NSC Non-Serviced Work Order: added a TransmitIndicator flag that identifies whether the non-serviced work order detail has been transmitted or not.
- Added the following files for File Maintenance:
 - CSTU Customer Master Update File
 - CSTD Customer Master Deletion File
 - SEQU Work Sequence Update File
 - SEQD Work Sequence Deletion File
 - JOBV Job Sequence Update File
 - JOBV Job Sequence Deletion File
 - FMR File Maintenance Rejection
- Added two new files for Mail / Messaging: MMI Mail Message In and MMO Mail Message Out.
- ITM Item Master File: changed the ItemPricingKey from N0 01/08 to 01/06.
- PRC Pricing Control File: changed the CustomerPricingKey from N0 01/08 to 01/06.
- MSG Message Master File: added a new MessageType Code = 7 for a fixed mail message.
- SEL List Selection File: added a new ListTypeCode = 18 for mail user names.
- SIG Signature Capture Data: added a SignatureName field for the name of the person supplying the electronic signature.

Version 1.20 - released on 05/02/01

Changes:

- Incorporate I-Deliver functionality into this application.
- Enhance Survey functionality.
- Increase all Part Number fields from 6 numeric-only characters to 18 alphanumeric characters.
- Increase all Customer Number fields from 8 numeric-only characters to 18 alphanumeric characters.
- Increase all Job Number fields from 8 numeric-only characters to 10 alphanumeric characters.
- Add ability to use different languages for the user interface and the printed customer reports.
- Add support for new 700 terminals.
- Add ability to optionally track statuses at the Work Order and/or Job level.

File Changes:

Download Files

- RCT.EquipmentNumber: added for I-Deliver job types
- RCT.EnableJobSelection: added ability to force display 3012 Job Selection
- RCT.EnableJobBitmap: added ability to toggle display of job bitmaps
- RCT.EnableCollections: added ability to toggle access to collections
- RCT.EnableInventory: added ability to toggle access to inventory
- RCT.Language: added to identify language for screens and route level reports
- RCT.EnableLinearDistance: added for I-Deliver pickup job type
- RCT.ChecksumCalculationFile: added placeholder for future functionality
- ITM.ItemNumber: changed format from N0 01/06 to AN 01/18
- CST.CustomerNumber: changed format from N0 01/08 to AN 01/18
- CST.EnableSigCaptureService: added ability to toggle signature capture for service job types
- CST.EnableSigCaptureDelivery: added ability to toggle signature capture for delivery job types
- CST.EnableSigCapturePickup: added ability to toggle signature capture for pickup job types
- CST.EnableSigCaptureHook: added ability to toggle signature capture for hook job types
- CST.EnableSigCaptureSpotDrop: added ability to toggle signature capture for spot/drop job types
- CST.EnablePickupReceipt: added ability to toggle printing of a Pickup Receipt on pickup jobs
- CST.EnableLabor: added ability to toggle access to labor
- CST.Language: added to identify language for printing customer reports
- CSTD.CustomerNumber: changed format from N0 01/08 to AN 01/18
- SEQ.CustomerNumber: changed format from N0 01/08 to AN 01/18
- SEQ.WorkOrderType: added new work order types
- JOB.JobNumber: changed format from N0 01/08 to AN 01/10
- JOB.JobType: added new job types
- JOB.PromoRecalculate: moved here from deleted Service Order Control File
- JOB.PrePaidOrder: moved here from deleted Service Order Control File
- JOB.EquipmentNumber: added for I-Deliver job types
- JOB.Pieces: added for I-Deliver job types
- JOB.Weight: added for I-Deliver job types
- JOBD.JobNumber: changed format from N0 01/08 to AN 01/10
- ORC Service Order Control File: removed (moved some fields to Job Sequence File)
- ORD.JobNumber: added key field
- ORD.OrderNumber: removed
- ORD.ItemNumber: changed format from N0 01/06 to AN 01/18
- CSC.CustomerNumber: changed format from N0 01/08 to AN 01/18
- SRV.QuestionIndex: changed from LineIndex to QuestionIndex
- SRV.SurveyPrompt: added additional format of AN 01/40 for SurveyRecType = 13
- SRV.RetainValue: removed
- SRV.GroupIndex: added to group records for display on the same survey page
- SRV.LineCount: added for new SurveyRecTypes 11 and 12
- SRV.MandatoryFlag: added ability to make individual survey details mandatory
- PRG.ItemNumber: changed format from N0 01/06 to AN 01/18
- MMI.MessageID: added to identify message
- STS.NextStatus: removed

- LDC.ItemNumber: changed format from N0 01/06 to AN 01/18
- NCS.NNDISLan2Com: disabled, but left field as a placeholder

Upload Files

- ITD.ItemNumber: changed format from N0 01/06 to AN 01/18
- COC.CustomerNumber: changed format from N0 01/08 to AN 01/18
- CTH.JobNumber: changed format from N0 01/08 to AN 01/10
- CTH.ServiceOrderNumber: removed
- CTD.ItemNumber: changed format from N0 01/06 to AN 01/18
- LTD Less Than Load Transaction Detail: added new file for I-Deliver transactions
- RXD.ItemNumber: changed format from N0 01/06 to AN 01/18
- SIG.CustomerNumber: changed format from N0 01/08 to AN 01/18
- Replaced SVD.SurveyPage with SVD.DetailKey
- Replaced SVD.LineIndex with SVD.QuestionIndex
- SVD.SurveyResponse: changed format from AN 01/20 to AN 01/255
- SVD.SurveyResponseIndex: added to identify multiple selections from a dropdown list
- ACC.CustomerNumber: changed format from N0 01/08 to AN 01/18
- ACC.CustomerTemplate: changed format from N0 01/08 to AN 01/18
- ACJ.JobNumber: changed format from N0 01/08 to AN 01/10
- ACJ.JobType: added new job types
- ACJ.PrePaidOrder: added to identify prepaid orders
- ACJ.EquipmentNumber: added for I-Deliver job types
- ACJ.Pieces: added for I-Deliver job types
- ACJ.Weight: added for I-Deliver job types
- ACW.CustomerNumber: changed format from N0 01/08 to AN 01/18
- ACW.WorkOrderType: added for new work order types
- SCD.CustomerNumber: changed format from N0 01/08 to AN 01/18
- SCD.JobNumber: changed format from N0 01/08 to AN 01/10
- MMO.MessageID: added to identify message
- NSC.CustomerNumber: changed format from N0 01/08 to AN 01/18
- NSC.JobNumber: changed format from N0 01/08 to AN 01/10
- INV.ItemNumber: changed format from N0 01/06 to AN 01/18
- FMR.CustomerNumber: changed format from N0 01/08 to AN 01/18
- FMR.JobNumber: changed format from N0 01/08 to AN 01/10

Version 1.30 - prereleased on 09/20/01

Changes:

- Added 6804T, 6808, 681T, and 681DM IrDA printer support.
- Added Code 128 scanning support.
- Added User Login / Logout functionality.
- Access to Review and Information functions from 0000 Main Menu not enabled until after Start Day.
- Expanded survey functionality to include Start Day surveys, Job surveys, and End Day surveys.
- Transmit STD Start/End Day upload record in background (if enabled) upon completion of Start Day.
- Added Hazardous Materials functionality and report.
- Added ability to populate 2100 Load Vehicle grid with LDC Route Load Control records only.
- Added ability to replace ITM.ItemDescriptions with an alternate item description (AID.ItemDescription) if it exists for a selected language.
- Added ability to display comments for specific order details.
- Added ability to override customer name and address information with related data from the SEQ Work Sequence File.
- Added customer city, state and postal code information to 3011 Work Order Selected dialog.
- Added ability to override customer payment type with related field from the JOB Job Sequence File.
- Added Assembly functionality.
- Added Item Detail entry functionality.
- Added ability to categorize surveys.
- Added ability to control printing of surveys.
- Added ability to capture signatures on surveys.
- Added flagged popup messages to warn user when signature capture is required.
- Changed all passwords from 6 numeric-only to 10 alpha-numeric characters.
- Changed method of naming and uploading bitmap files associated with captured signatures.
- Added new column for beginning quantity on the Load Vehicle Report
- Added ability to print an alternate to the Unload Vehicle report called the EOD Truck Reconciliation Report
- Added file maintenance support (add / change / delete) for the ITM Item Master, GAS Gas, and DOT Department Of Transportation download files.

File Changes:

Download Files

- RCT.SalesRepNumber: changed format from N0 01/06 to AN 01/10
- RCT.Password[n]: changed format from N0 06/06 to AN 01/10
- RCT.Password[6]: added for a primary user
- RCT.Password[7]: added for an alternate user
- RCT.PasswordRetry: added to control number of password retries
- RCT.EnableItemDetail: added ability to enable/disable item detail functionality
- RCT.InvenInputLogic: changed to RCT.UnloadReportFormat
- RCT.AutoCalculateLoadOut: added new value = 3 (LDC file only)
- RCT.EnableHazardousMaterials: added ability to enable/disable hazardous materials functionality
- ITMU and ITMD: added to support file maintenance
- ITM.ItemDescription: changed format from AN 01/20 to AN 01/40
- ITM.BrandCode: changed format from N0 01/06 to AN 01/06
- ITM.TypeCode: changed format from N0 01/06 to AN 01/06
- ITM.OrderLotQuantity: changed format from N0 01/04 to N0 01/06
- ITM.UPCCaseCode: renamed to ITM.BarCode and changed format from N0 12/12 to AN 01/20
- ITM.ItemWeight: added for future use
- ITM.UnitOfMeasure: added
- ITM.Assembly: added for assembly logic
- ITM.DetailRequired[3]: added for item detail logic
- ITM.DetailRequiredDesc[3]: added for item detail logic
- ITM.DetailRequiredInput[3]: added for item detail logic
- ITM.DetailRequiredControl[3]: added for item detail logic
- ITM.ItemSurveyKey: added for future use
- ITM.DefaultDebitPrice: changed format from N2 01/06 to N4 01/10 (only changed database, not user interface)
- ITM.DefaultDepositPrice: changed format from N2 01/06 to N4 01/10 (only changed database, not user interface)
- ITM.CreditPrice: changed format from N2 01/06 to N4 01/10 (only changed database, not user interface)

- AID Alternate Item Description File: added
- GAS Gas File: added
- GASU and GASD: added to support file maintenance
- DOT Department Of Transportation File: added
- DOTU and DOTD: added to support file maintenance
- ASM Assembly File: added
- CST.CustomerName: changed format from AN 01/30 to AN 01/40
- CST.CustomerAddress1: changed format from AN 01/30 to AN 01/40
- CST.CustomerAddress2: changed format from AN 01/30 to AN 01/40
- CST.CustomerCity: added
- CST.CustomerState: added
- CST.CustomerPostalCode: added
- CST.CustomerContactName: changed format from AN 01/20 to AN 01/30
- CST.CustomerType: added for future use
- CST.PaymentType: renumbered existing values
- CST.PricingKey: changed format from N0 01/06 to N0 01/09
- CST.CustTaxKey1: changed format from N0 01/02 to N0 01/09
- CST.CustTaxKey2: changed format from N0 01/02 to N0 01/09
- CST.CustTaxKey3: changed format from N0 01/02 to N0 01/09
- CST.OrderFormat: added new value = 2 (alternate extended)
- CST.InvoiceFormat: added new values = 4, 5, 6, and 7 for alternate invoice formats
- CST.EnableSigCaptureService: added new value = 3 (require signature)
- CST.EnableSigCaptureDelivery: added new values = 2 (not used) and = 3 (require signature)
- CST.EnableSigCapturePickup: added new value = 3 (require signature)
- CST.EnableSigCaptureHook: added new values = 2 (not used) and = 3 (require signature)
- CST.EnableSigCaptureSpotDrop: added new value = 3 (require signature)
- CST.EnableSerialNumberRequired: added for future use
- CST.EnablePurchaseOrderRequired: added for future use
- AIN Alternate Item Number File: added
- SEQ.Name: added for override of CST.CustomerName
- SEQ.Address1: added for override of CST.CustomerAddress1
- SEQ.Address2: added for override of CST.CustomerAddress2
- SEQ.City: added for override of CST.CustomerCity
- SEQ.State: added for override of CST.CustomerState
- SEQ.PostalCode: added for override of CST.CustomerPostalCode
- SEQ.DeliveryDate: added for future use
- JOB.PaymentType: added for override of CST.PaymentType
- JOB.JobDescription: changed format from AN 01/20 to AN 01/40
- JOB.Contact: changed format from AN 01/20 to AN 01/40
- JOB.DeliveryInstructions: added for future use
- JOB.PurchaseOrderNumber: added for future use
- JOB.PurchaseOrderRelease: added for future use
- JOB.MaximumDelivery: added for future use
- JOB.TotalTax: added for future use
- JOB.TotalDelivery: added for future use
- JOB.TotalFreight: added for future use
- JOB.TotalOther: added for future use
- ORD.ItemQuantity: changed format from N1 01/05 to N2 01/08 (only changed database, not user interface)
- ORD.ItemPrice: changed format from N2 01/06 to N4 01/10 (only changed database, not user interface)
- ORD.ItemDeposit: changed format from N2 01/06 to N4 01/10 (only changed database, not user interface)
- ORD.ItemDetailRequired[3]: added
- ORD.ItemDetailLine: added
- ORD.ItemDetailTieLine: added
- ORD.ItemReferenceQuantity: added for future use
- ORD.ItemDeliveryDate: added for future use
- ORD.SurchargeItemNumber: added for future use
- ORD.ItemSerialNumber: added for future use

- ORD.ItemAssetNumber: added for future use
- ORD.ItemCustomerOwned: added for future use
- ODC Order Detail Comment File: added
- ODM Order Detail Medical File: added for future use
- PRC.CustomerPricingKey: changed format from N0 01/06 to N0 01/09
- PRC.DetailKey: changed format from N0 01/05 to N0 01/09
- PRD.DetailKey: changed format from N0 01/05 to N0 01/09
- PRD.DebitPrice: changed format from N2 01/06 to N4 01/10 (only changed database, not user interface)
- PRD.CreditPrice: changed format from N2 01/06 to N4 01/10 (only changed database, not user interface)
- TAX.CustomerKey: changed format from N0 01/02 to N0 01/09
- CSC Customer Survey Control File: renamed to SRC Survey Control File
- SRC.SurveyTypeCode: added for new survey types
- SRCCustomerNumber: renamed to SRC.SurveyKey
- SRC.SurveyIndex: changed format from N0 01/02 to N0 01/09
- SRC.SurveyCategory: added
- SRC.EnablePrint: added
- SRV.SurveyIndex: changed format from N0 01/02 to N0 01/09
- SRV.SurveyRecType: added new values = 15 (signature capture) and = 16 (populated static text box)
- SRV.MapIndex: added
- SRL Survey Lookup File: added
- SEL.ListTypeCode: added new values = 25 (survey category description), = 26 (hazardous materials description), = 27 (placard description), and = 28 (item detail description)
- SEL.ListIDCode: changed format from N0 01/08 to N0 01/13
- LDC.ItemNumber: made a key field
- LDC.LoadQuantity: changed format from N0 01/04 to N2 01/08 (only changed database, not user interface)
- LDC.ItemExtension: added

Upload Files

- SCT.SalesRepNumber: changed format from N0 06/06 to AN 10/10
- ITD.ItemQuantity: changed format from S0 01/05 to S2 01/08 (only changed database, not user interface)
- CTH.TotalQuantity: changed format from S0 01/05 to S2 01/08 (only changed database, not user interface)
- CTH.SignatureName: added
- CTH.SignatureFileName: added
- CTH.DeliveryDate: added
- CTH.PurchaseOrderNumber: added for future use
- CTH.PurchaseOrderRelease: added for future use
- CTH.MaximumDelivery: added for future use
- CTH.TotalTax: added for future use
- CTH.TotalDelivery: added for future use
- CTH.TotalFreight: added for future use
- CTH.TotalOther: added for future use
- CTD.ItemQuantity: changed format from N1 01/05 to N2 01/08 (only changed database, not user interface)
- CTD.ItemPrice: changed format from N2 01/06 to N4 01/10 (only changed database, not user interface)
- CTD.ItemDeposit: changed format from N2 01/06 to N4 01/10 (only changed database, not user interface)
- CTD.ItemDetailLine: added
- CTD.ItemDetailTieLine: added
- CTD.ItemDeliveryCharge: added for future use
- RXD.ItemDetailLine: added
- RXD.ItemDetailTieLine: added
- RXD.ItemQuantity: changed format from N0 01/04 to N2 01/08 (only changed database, not user interface)
- DTL Item Detail: added
- TXD.TaxCode: changed format from N0 06/06 to N0 13/13
- SIG Signature Capture Data: removed (now contained within CTH and SVD upload files)
- SVD.TransactionKey: added
- SVD.SurveyTypeCode: added
- SVDSurveyKey: added
- SVD.SurveyIndex: changed format from N0 01/02 to N0 01/09

- SVD.SurveyDateTime: added
- SVD.MapIndex: added
- ACC.CustomerName: changed format from AN 01/30 to AN 01/40
- ACC.CustomerAddress1: changed format from AN 01/30 to AN 01/40
- ACC.CustomerAddress2: changed format from AN 01/30 to AN 01/40
- ACC.CustomerCity: added
- ACC.CustomerState: added
- ACC.CustomerPostalCode: added
- ACC.CustomerContactName: changed format from AN 01/20 to AN 01/30
- ACC.PricingKey: changed format from N0 01/08 to N0 01/09
- ACC.CustTaxKey1: changed format from N0 01/02 to N0 01/09
- ACC.CustTaxKey2: changed format from N0 01/02 to N0 01/09
- ACC.CustTaxKey3: changed format from N0 01/02 to N0 01/09
- ACJ.JobDescription: changed format from AN 01/20 to AN 01/40
- ACJ.Contact: changed format from AN 01/20 to AN 01/40
- ACW.Name: added
- ACW.Address1: added
- ACW.Address2: added
- ACW.City: added
- ACW.State: added
- ACW.PostalCode: added
- RTC.SalesRepNumber: changed format from N0 01/06 to AN 01/10
- RTC.NewPasswordType: added
- RTC.NewPassword: added
- ULD User Log Detail: added
- INV.LoadQty: changed format from N0 01/06 to N2 01/08 (only changed database, not user interface)
- INV.LoadAddQty: changed format from N0 01/06 to N2 01/08 (only changed database, not user interface)
- INV.LoadCutQty: changed format from N0 01/06 to N2 01/08 (only changed database, not user interface)
- INV.LoadReqQty: changed format from N0 01/06 to N2 01/08 (only changed database, not user interface)
- INV.SaleQty: changed format from N0 01/06 to N2 01/08 (only changed database, not user interface)
- INV.ReturnQty: changed format from N0 01/06 to N2 01/08 (only changed database, not user interface)
- INV.DamagedAddQty: changed format from N0 01/06 to N2 01/08 (only changed database, not user interface)
- INV.DamagedCutQty: changed format from N0 01/06 to N2 01/08 (only changed database, not user interface)
- INV.EndStockQty: changed format from N0 01/06 to N2 01/08 (only changed database, not user interface)
- INV.UnloadQty: changed format from N0 01/06 to N2 01/08 (only changed database, not user interface)
- INV.DamagedUnloadQty: changed format from N0 01/06 to N2 01/08 (only changed database, not user interface)

Version 1.31 - released on 11/28/01

Changes:

- Added ability to input N2 01/08 quantity on 3397 Detail Entry dialog
- Added display of ORD.ItemSerialNumber if it exists on 3397 Detail Entry dialog
- Added verification of ink capture prior to enabling the [OK] button on 9340 Signature Capture dialog
- Added a new pop-up dialog 9341 Signature Conditions that will display on top of dialog 9340 Signature Capture that shows new type 29 SEL List Selection File records for signature conditions
- Added ability to auto-populate the returns grids with products from the sales grids with only products where ITM.TypeCode = "1"
- Added new file SRP Survey Print File for enabling user defined Survey Reports
- Added Delivery Date, Purchase Order number, and Purchase Order Release input fields to the Order tab on dialog 3050 Transaction Completion
- Added ability to "No Charge" an item on dialogs 3395 Select Part – Invoice and 3396 Select Part with Reason – Invoice
- Added ability to upload beginning inventory quantities
- Increased size of customer tax keys from N0 01/09 to N0 01/10
- Added a route level flag to control multiple return reasons on 3396 Select Part with Reason - Invoice
- Added a survey flag to control printing of items with/without responses on the Survey Report
- Changed conditions for access to [Detail] button on dialog 3300 Customer Invoice
- Changed conditions for access to [Continue] button on dialog 3310 Order Detail comments
- Added More button to 6320 Work Order Maintenance which calls a new dialog 6322 More Work Order Maintenance which allows access to newly added name and address fields in the SEQ Work Sequence File
- Changed [keyboard] button for Part Number input to the [binoculars] button which calls 9000 Find (Part) on dialogs 3295, 3296, 3395, 3396, and 9030
- Added a route level flag to control print and upload of customer invoice details with zero quantities
- Added scanner configuration and sample barcodes to the appendices
- Enabled upload of ACC, ACW, and ACJ details during user initiated and background mid-day transmissions
- Disabled entry/upload of prices for exchange and other items on dialogs 3295, 3296, 3350, 3395, and 3396
- Added new MSG.MessageTypeCode = 08 for route print messages on the Hazardous Materials Report
- Added new RCT.EnableInventory = 2 for enabling inventory and forcing completion of Load Vehicle before allowing access to Service Customer

File Changes:

Download Files

- RCT.EnableInventory: added new value = 2 that enables inventory and forces Load Vehicle before Service Cust.
- RCT.DisableMultipleReasons: added
- RCT.EnableProcessZeroQuantities: added
- CST.EnableAutoFillReturns: added new value = 2 that auto-populates the returns grids with products from the sales grids, just like a value = 1, but only uses products where ITM.TypeCode = "1"
- CST.EnablePurchaseOrderRequired: enabled for use on 3050 Transaction Completion
- CST.CustTaxKey1, CST.CustTaxKey2, and CST.CustTaxKey3: changed format from N0 01/09 to N0 01/10
- ORD.ItemSerialNumber: enabled for use on 3397 Detail Entry
- TAX.CustomerKey: changed format from N0 01/09 to N0 01/10
- SRC.EnablePrintAll: added to control printing of items with/without responses on the Survey Report
- SRP Survey Print File: added for enabling user defined Survey Reports
- MSG.MessageTypeCode: added new value = 08 for route print messages on the Hazardous Materials Report
- SEL.ListTypeCode: added new value = 29 for displaying signature conditions prior to signature capture
- SEL.ListIDCode: changed format from N0 01/13 to N0 01/14

Upload Files

- CTH.PurchaseOrderNumber: enabled for upload to host
- CTH.PurchaseOrderRelease: enabled for upload to host
- CTD.PriceChgIndicator: added new value = 2 for when No Charge checkbox is checked on dialog 3395 Select Part
- TXD.TaxCode: changed format from N0 01/13 to N0 01/14
- ACC.CustTaxKey1, ACC.CustTaxKey2, and ACC.CustTaxKey3: changed format from N0 01/09 to N0 01/10
- INV.BeginStockQty: added

Version 1.40 - released on 05/02/02

Changes:

- Added support for 802.11b, CDPD, and Nextel Network.
- Removed support for 602 and replaced generic 700 support with specific 710 and 720 hardware platforms
- Changed minimum RAM memory required for the 700 series from 32 MB to 64 MB
- Changed minimum mass storage (ATA flash memory card) for the 700 series from 32 MB to 64 MB
- Updated version number and copyright years
- Streamlined process for adding/editing Work Orders and Jobs
- Separated Item Detail logic from the ITM Item Master into its own new file IDT Item Detail File and allow greater flexibility on how item details can be utilized.
- Added ability to generate/upload HTML files of final invoices
- Added ability to input/upload a specific delivery date for Work Orders
- Added ability to enter Purchase Order Number on Invoice tabs of 3050 Transaction Completion and print on Invoice/Order Reports
- Append additional fields related to Pickup jobs when uploading the final SCD Status Change Detail record
- Added support for CST.EnableAutoFillReturns value = 2 on 3200 Job Order
- Added new value = 3 to CST.EnableAutoFillReturns to force input of all return quantities, even if zero.
- Redesigned dialogs 3017 Delivery Job and 3018 Pickup Job
- Added new dialog 3055 Transaction Detail accessible from 3050 Transaction Completion via a Detail button
- Added logic to remove all completed/non-serviced work orders/jobs during Start Day processing
- Removed enforcement of password entry when changing payment type on dialog 9310 Payment Type
- Removed enforcement of cash/check entries equaling balance due amount on 3090 Cash/Check Collection and upload/track any cash not collected and account for it on the Route Settlement Report
- Added new flag to control whether to find existing items or add new on dialogs 3395 and 3396
- Changed prices and deposits to be dependant upon RCT.PriceDecimals to determine format
- Removed JOB.Prepaid logic and replaced with JOB.EnableFixedOrder logic to allow/disallow additions and price/quantity changes to service orders. SJW: never actually modified program, spec corrected in V2.30.
- Added ability to automatically populate Inventory tab on dialog 2300 Unload Vehicle
- Added logic for line item and invoice level delivery charges using Other Item = ZXXDELIVERY
- Added ability to utilize SRL Survey Lookup File for all work orders for a customer
- Added processing of ORD Service Order Detail File maintenance (update and deletion) during background, mid-day telecommunications
- Populate CTH.MaximumDelivery, CTH.TotalTax, CTH.TotalFreight, and CTH.TotalOther with associated, downloaded JOB fields
- ODM Order Detail Medical file insurance amounts now deducted from invoice balance due amounts and accounted for on the Route Settlement Report
- Modified format of Hazardous Materials Report
- Modified total cylinders shipped/returned calculation on Alternate Invoice/Order Report
- Changed Terms and Due Date literals/fields on Alternate Invoice/Order Report to be double-wide
- Removed Guaranteed Shipment and Exception columns from Pickup Receipt
- Renamed Cash Receipt report to Accounts Receivable
- Added new Cash Receipt report for cash/checks received
- Added Credit Card section to Deposit Report
- Changed sort order when printing Work Order and Job information on the Customer / Work List Report
- When NSC Non-Serviced Work Order records are automatically generated at End Of Day, don't automatically use first SEL.ListTypeCode = 06 record for upload in NSC.ReasonCode. Instead use reserved value of 00.

File Changes:

Download Files

- CST.InvoiceFormat: added comments for values that change if cash, check, or credit card payment is used
- CST.EnableWorkOrderMaintenance: modified/added values to include default added WorkOrderTypes
- CST.EnableAutoFillReturns: added new value = 3 to force entry, even if zero on Return quantities
- CST.EnableSerialNumberRequired: replaced with CST.CustomerDetailKey and changed format to N0 01/04
- CST.EnableFixedOrder: added. SJW: never actually added in program, spec corrected in V2.30.
- GAS.BulkType: moved out of the GAS Gas File and put into the ITM Item Master file
- GAS.EnablePrintBlankLine: added (used position in GAS file where BulkType was)
- GAS.DefaultVolume: moved out of the GAS Gas File and put into the ITM Item Master file
- IDT Item Detail File: added
- ITM.ItemWeight: ungreyed; use to calculate total nominal weight on the Hazardous Materials Report
- ITM.DetailRequired[3]: removed (replaced by IDT.DetailRequired in new IDT Item Detail File)

- ITM.DetailRequiredDesc[3]: removed (replaced by IDT.DetailDescription in new IDT Item Detail File)
- ITM.ItemDetailKey[3]: added (placed in file where DetailRequiredDesc used to be)
- ITM.DetailRequiredInput[3]: removed (replaced by IDT.InputType in new IDT Item Detail File)
- ITM.DetailRequiredControl[3]: removed (replaced by IDT.InputControl & IDT.InputResult in IDT Item Detail File)
- ITM.BulkType: added (see GAS.BulkType)
- ITM.DefaultVolume: added (see GAS.DefaultVolume)
- JOB.PrePaidOrder: renamed to JOB.EnableFixedOrder and redefined values. SJW: never actually changed in program, spec corrected in V2.30.
- JOB.PurchaseOrderNumber: ungreyed; use on 3050 Transaction Completion
- JOB.PurchaseOrderRelease: ungreyed; use on 3050 Transaction Completion
- JOB.MaximumDelivery: ungreyed; use to populate CTH.MaximumDelivery
- JOB.TotalTax: ungreyed; use to populate CTH.TotalTax
- JOB.TotalFreight: ungreyed; use to populate CTH.TotalFreight
- JOB.TotalOther: ungreyed; use to populate CTH.TotalOther
- NCS.BaudRate: added
- ODM Order Detail Medical file: ungreyed – now used to subtract insurance amounts from balance due
- ODM.ItemDetailLine: added comment
- ORD.ItemPrice: added comment
- ORD.ItemDeposit: added comment
- ORD.ItemDetailRequired[3]: removed
- PRD.DebitPrice: added comment
- PRD.CreditPrice: added comment
- RCT.Password[5]: modified comment/note
- RCT.AutoCalculateLoadIn: added new values = 3 and = 4
- RCT.GenerateHTMLInv: added
- RCT.EnableFindItem: added
- RCT.PriceDecimals: added
- SEL.ListTypeCode: renamed = 24 from Exception Reason to Destination State, added = 30 Package Code, added = 31 Accessorial Code, added = 32 Service Level
- SEL.ListIDCode: modified = 02, added note = 06, redefined = 24, added note = 26, added = 30, added = 31, added = 32
- SEQ.SequenceDay: replaced with SEQ.TimeToLive
- SEQ.DeliveryDate: added
- SRL.WorkOrderNumber: added
- STS.StatusNumber: added comment that values 9990 – 9998 are reserved for internal use

Upload Files

- ACJ.PrePaidOrder: removed
- ACJ.EquipmentNumber: removed
- ACJ.Pieces: removed
- ACJ.Weight: removed
- ACW.DeliveryDate: added
- CCD.TypeCode: added new value = 08 for cash not collected
- CTD.ItemPrice: added comment
- CTD.ItemDeposit: added comment
- CTH.TransactionType: added new value = 09 for cash receipt
- CTH.TotalInsurance: added
- CTH.BalanceDueAmount: modified calculation/comment
- CTH.PurchaseOrderNumber: added comment
- CTH.PurchaseOrderRelease: added comment
- CTH.MaximumDelivery: ungreyed; populate with JOB.MaximumDelivery
- CTH.TotalTax: ungreyed; populate with JOB.TotalTax
- CTH.TotalDelivery: ungreyed; added comments
- CTH.TotalFreight: ungreyed; populate with JOB.TotalFreight
- CTH.TotalOther: ungreyed; populate with JOB.TotalOther
- CTH.SignatureFileName2: added
- DTL.ItemDetailRequiredDesc: replaced with DTL.ItemDetailKey and removed comment
- DTL.ItemDetailLine: added comment
- DTL.ItemDetail: renamed to DTL.ItemDetailCounter and added comment
- DTL.CustomerDetailKey: added
- LTD.AccessorialCode: added for CTH.TransactionType = 05 (Delivery)
- LTD.PiecesShort: removed
- LTD.DestinationState: added for CTH.TransactionType = 06 (Pickups)

- LTD.Hazmat: added for CTH.TransactionType = 06 (Pickups)
- LTD.ServiceLevel: added for CTH.TransactionType = 06 (Pickups)
- LTD.MotorMoves: removed
- LTD.Cube: removed
- LTD.GuaranteedShipment: removed
- MMO.DateTime: changed format from DT 16/16 to DT 19/19
- NSC.ReasonCode: modified comment
- OCM.PRONumber: added (for LTL Delivery and Pickup jobs)
- OCM.ResolutionCode: removed comment regarding exception reasons
- OCM.PackageCode: added (for LTL Delivery and Pickup jobs)
- OCM.PackageQuantity: added (for LTL Delivery and Pickup jobs)
- SCD.TransactionDateTime: changed format from DT 16/16 to DT 19/19
- SCD.Pieces: added (only for SCD.StatusNumber = 9999 and CTH.TransactionType = 01 (pickup))
- SCD.Weight: added (only for SCD.StatusNumber = 9999 and CTH.TransactionType = 01 (pickup))
- SCD.DestinationZip: added (only for SCD.StatusNumber = 9999 and CTH.TransactionType = 01 (pickup))
- SCD.LinearDistanceRemaining: added (only for SCD.StatusNumber=9999 & CTH.TransactionType=01 (pickup))
- STD.TotalCashNotCollected: added
- SVD.SurveyDateTime: changed format from DT 16/16 to DT 19/19
- ULD.TransactionDateTime: changed format from DT 16/16 to DT 19/19

Version 1.50 - released on 12/17/02

Changes:

- Updated version number and copyright years.
- Upgraded to FrameWork 1.08.
- Override all displayed and printed CST.CustomerName and address fields with corresponding SEQ.Name and address fields if they exist and are non-blank.
- Highlight currently selected tab on all tabbed dialogs.
- Modified when Location and Route number fields can be changed and logic to process when they are changed.
- Speed up import/maintenance after telecom. Do not add records to file if the appropriate ITM and/or CST record does not exist for the following files: AID, GAS, DOT, ASM, AIN, and PRG. Previously, records were added during importing and removed during file maintenance. Now they are not added if they are not valid.
- Added checkbox to dialog 7000 Transmit Data to control transmission of upload files.
- Externalize all bitmap files.
- Removed all Road Closed bitmaps from dialogs 2000, 4000, 5000, 6000, and 8000.
- Added new/modified color bitmaps.
- Added color appropriate stoplight bitmaps (red light and green light) for Stop/Start text buttons on dialogs 3000, 3010, 3011, and 3012.
- Added Survey Lookup field to dialog 6320 Work Order Maintenance.
- Added new dialog 6325 Survey Lookup Selection.
- Modified flow when adding a work order and no work orders exist (from 3010). Will flow to 9000 to select a customer.
- Added uploading LTD Pickup records during background, mid-day transmissions.
- Modified format of the remit section of the Alternate Invoice/Order Report.
- Modified format/content of the Hazardous Materials Report.
- Added ability to specify language for the SEL List Selection File.
- Remove LDC records after a successful load has been performed.

File Changes:

Download Files

- Added comment for ITM.UnitOfMeasure
- Added ITM.VolumeUnitOfMeasure
- Added two new values for MSG.MessageOption
- Renamed RCT.EnableStartDayLocationEdit to RCT.EnableLocationEdit and redefined values
- Renamed RCT.EnableStartDayRouteEdit to RCT.EnableRouteEdit and redefined values
- Modified comments for RCT.EnableBackgroundTelecom
- Added SEQ.SurveyLookupKey
- Added SID Session ID file (both download and upload)
- Renamed SRL.WorkOrderNumber to SRL.SurveyLookupKey
- Modified comment for SRL.LookupIndex
- Added SEL.Language

Upload Files

- Added ACW.SurveyLookupKey
- Added LTD.TransmitIndicator
- Removed SCD.TripID, SCD.Pieces, SCD.Weight, SCD.DestinationZip, and SCD.LinearDistanceRemaining
- Added SID Session ID file (both upload and download)
- Removed STD.TripID

NOTICE - This application was developed under and tested with Pocket PC Operating System version Premium 2.30 on the Intermec 7xx. Known issues with other builds include:

Version 2.37 - "AKU4" issue. This is a known Microsoft problem that can occur when a Pocket PC device is suspended during read/write operations. This problem can be prevented by not allowing the 700 to suspend during a read/write operation. This can occur in two specific instances (with actions to address):

1. Pocket PC suspends the 700 color during a read/write. This is based on the Pocket PC system settings. This can be addressed by ensuring that both the battery and external power check boxes in the Pocket PC Power systems settings are unchecked (Turn off device if not used for...).
2. The user manually suspends the 700 color via the I/O button during a read/write. This can be prevented by training users to not manually suspend the color with the I/O button. In case the user does need to manually suspend the 700 terminal, they should be instructed to do so only at the main menu of the application.

Version 2.42 - "Multiline Edit" bug. This bug causes an application hard-lockup when encountering multiline edit boxes (which this application has).

Version 2.00

Changes:

- Changed recommended Pocket PC operating system from Premium to Professional.
- Updated program version and copyright years.
- Updated dialogs with various bitmaps, also resized all dialogs to the standard full screen size to utilize the full screen width.
- Removed the Review function button from dialog 0000 – Main Menu and replaced it with a Mail button.
- Disabled the [Msgs] button if no messages exist on dialogs 1000 – Start Day, 3002 – More Icons, 3013 – More Icons, and 6110 – Customer Detail.
- Removed “background” telecommunications and replaced with new real-time communications.
- Removed the [Mail] button on dialogs 1000 – Start Day, 3017 – Delivery Job, 3018 – Pickup Job, 3019 – Hook Job, 3020 – Spot/Drop Job, and 6000 – Information Menu.
- Added new dialog 3007 – New Work Orders Received.
- Removed dialog 5000 – Review Menu and moved Returns/Exchanges and Print Reports menu options to dialog 6000 – Information Menu. Also, renumbered dialog 5300 – Returns/Exchanges to 6600, and 5700 Print Reports to 6700.
- Changed method of automatically generating SEQ.WorkOrderNumber and JOB.JobNumber for newly created work orders and jobs.
- Modified Pickup Job Receipt by expanding the printed Trailer Number.
- Manually added jobs now will start with a blank PRO number.
- Removed CR button from on-screen keyboard.
- Upgraded to InterComm 1.2

File Changes:

Download Files

- JOB.EquipmentNumber: changed format from AN 09/09 to AN 01/18
- NCS.TcomType: removed value = 2 = mid day background
- NCS.AllowClock: removed note referencing TcomType = 2
- RCT.VehicleNumber: changed format from N0 01/06 to AN 01/18
- RCT.EquipmentNumber: changed format from AN 09/09 to AN 01/18
- RCT.EnableBackgroundTelecom: modified value = 1 and removed values = 2 and 3
- RTM Real-Time Messaging File: added, used to identify messages sent in real-time
- SEQ.WorkOrderNumber: added comment
- STS.SendStatusOption: removed background and replaced with real-time
- STS.TimeToLive: added
- STS.Priority: added
- STS.AllowableCost: added

Upload Files

- FMR File Maintenance Rejection: renamed file to FMR File Maintenance Result
- FMR.TransactionType: modified and added new values
- FMR.RejectionReason: added new value = 6 and additional notes
- FMR.RealTimeMessageID: added
- LTD.EquipmentNumber: changed format from AN 01/09 to AN 01/18
- LTD.TransmitIndicator: removed
- OCM Order Comments file: modified notes
- RTC.VehicleNumber: changed format from N0 01/06 to AN 01/18
- SCD.StatusNumber: added new values

Version 2.10 - released on 06/26/03

Changes:

- Implemented 700 Color
 - All screens now have color bitmaps. New bitmaps provide better resolution on monochrome devices as well.
 - Implemented Rounded buttons with white backgrounds.
 - Increased font size on screens
 - Removed all "Road Closed" bitmaps
 - Utilized new logos for Intermec. ArciTech & I-gistics.
- Added support for the 740, 750 and 760 handheld terminals. Verified that the following peripherals operate correctly with V2.10 on 700 color device:
 - 6808 Cabled printer
 - 782T Cabled printer
 - Symbol laser scanner
 - 2D Welch-Allyn Imager/Scanner
 - Wireline Data communication via NRINET Ethernet
 - NRINET Snap on Modem (740 only)
 - 802.11b LAN Radio (750 ONLY) Note: wide area wireless radios were not verified as part of this release.
 - Secure digital (SD) cards as non-volatile storage.
- Added the ability to activate other Pocket PC applications.
- Corrected application issues
 - Corrected issue with printing blank reports on screen 4700 even if "Don't Print Blank Reports" is checked.
 - Corrected issue that if the RCT.UnloadReportFormat = 1, we print the Alternate EOD Truck Reconciliation Report, but if you then select [Information], [Print Reports] and reprint the unload report, we print it in the standard Unload Vehicle report, which = 0.
 - On invoice, application is no longer printing a credit card section if a credit card wasn't used.
 - If a labor and Other item exist on an invoice, and the price of the labor item is change this use to automatically change the price of the Other item also. This no longer happens.
 - A price change in dialogs 3300 and 3200 weren't carrying over between tabs. This held true for Rtms, Parts, Dmgd, and Labor tabs.
 - Added missing bitmap to the A/R button on dialog 3002
 - Font Style is no longer applied correctly in >IE5.0 Need to eliminate the "comment" marks.
 - Application does not go to dialog 9310 to select payment type. We are bypassing payment collection all together.
 - Corrected issues on dialog 3296
 - Was missing the keyboard icon on the keyboard button
 - Was missing the key on the Price button
 - Circles were not complete on the Returns & Damaged Radio buttons
 - The Arrow button on the instructions box were not grayed out.
- Background Tcom is no longer supported in this version. The background Tcom feature has been converted to a wireless messaging function to enable data to be pushed to the handheld. The old background tcom feature required the handheld to initiate all communication sessions. However, the wireless messaging feature was still in beta test at the time of this release, therefore the CAB file needed to activate real-time messaging is not included as an official component of this release.

File Changes: None.

- RCT.EnableBackgroundTelecom must always = 0.
- Placed text in specification to show what will happen in the future when RCT.EnableBackGroundTelecom = 1.
 - Dialogs 3000 Service Customer, 3001 Status Change, 3011 Work Order Selected, 3013 More Icons, 3040 Customer Maintenance, 3050A Finalize Transactions, 6320 Work Order Maintenance, 6420 Job Maintenance,
 - 6421 Job Type Selection, 7000A Real-Time Incoming Messages, 9021 New Mail Message, and 9022 OutBox.
 - RCT File: EnableBackGoundTelecom = 1
- Placed text in specification to show other real time message functions in the future.
 - Dialogs 9020 Mail (Real time work orders) and 7000 Transmit Data (Real time communication processing.)

Version 2.20 - released on 10/27/03

Changes:

- Updated the title screen date and version.
- Added orderable part number section to the specification.
- Added Real Time Messaging functionality.
 - Added connector indicator for GPRS & 802.11 wireless communication. Aether does not support this.
 - Added GPRS WAN radio on 720 and 760 HHC's.
 - RCT.EnableBackgroundTelecom will no longer be just = 0. It can now = 1.
 - Replaced **Blue** text with **Red** to show what happens when RCT.EnableBackGroundTelecom = 1.
 - Screen 3000 Service Customer
 - Screen 3001 Status Change
 - Screen 3011 Work Order Selected
 - Screen 3013 More Icons
 - Screen 3040 Customer Maintenance
 - Screen 3050A Finalize Transactions
 - Screen 6320 Work Order Maintenance
 - Screen 6420 Job Maintenance
 - Screen 6421 Job Type Selection
 - Screen 7000A Real-Time Incoming Messages
 - Screen 9021 New Mail Message
 - Screen 9022 OutBox
 - RCT Route Control File: EnableBackGoundTelecom = 1
 - Replaced **Blue** text with **Red** to show other real time message functions.
 - Screen 9020 Mail (Real time work orders)
 - Screen 7000 Transmit Data (Real time communication processing.)
- Disable Work Order number and Job number edits on dialogs 6320 and 6420.
- On 3012 if there is more than one job upon completing a job, control was always returned to back to 3012 even if all jobs have been completed. Now user is only returned back to 3012 if there is a job left to service.
- Added Mini Lan Line support.
- Added 802.11B LAN Radio to Batch 710 & 760 HHC's and to Real Time 710, 750, & 760 HHC's
- Delay toom is now implemented in the application
- Added options and functionality for perpetual versus daily inventory
- Populate Equipment field on dialog 3020 Spot/Drop Job with RCT.EquipmentNumber when a Spot/Drop is added.
- Don't allow repeat (duplicate) Pro numbers to be entered.
- Make the Destination State selection on dialog 3018 Pickup Job mandatory.
- Added new flag values that force the user to enter the relationship of the signor, along with a reason to be selected or keyed in. This is done before the signature is gathered in the application. (EIS10002287)
 - Added options under CST.EnableSigCaptureService of 4 & 5. These options correspond with options 2 & 3 while also adding forcing of a relationship to be selected of the signor along with a reason to be entered.
 - Made the following SEL List Selection File changes:
 - Added SEL.ListTypeCode = 34 for signor relationship, and added SEL.ListTypeCode = 35 for the reason
 - Added [Next] button on dialog 9330 that navigates to a new dialog 9331 – Signature Information & contains:
 - Fields for display/entry of address and telephone information of the signor.
 - Fields for entry of the signor relationship and reason. These fields will not display at all (not even grayed out) if the CST.EnableSigCaptureService flag described above is not set to a 4 or 5. These fields will have keyboard buttons to allow alpha-numeric entry.
 - Added printing of the new fields collected on dialog 9331 on the Invoice and Alternate Invoice reports.
- User Route Optimization – Allow user to schedule his or her work within a given day. This information is not uploaded but held internally in the HHC. (EIS10002287)
 - Added a new button to the 3013 More Icons screen. This is a schedule button which calls a new 3030 screen which looks like the 3010 screen but allows the user to rearrange work orders by highlighting and then hitting the up or down arrow buttons.
 - Added 3030 Work Order Scheduler Screen.
 - Added sort on 6100 Customer List and printed Customer / Work List Report to include work sequence.
- Added ability to allow at an item level a default value to be prefilled in one of the attributes for that item. What that is going to allow is that the user can change or chose to keep the pre-filled value. (EIS10002316)
 - Added to the IDT Item Detail File additional types to the DetailRequired[1] field.
 - Added 3 = Optional input with Prefill and added 4 = Required input with Prefill. This will also work the same in IDT.DetailRequired[2] – [6]. How the "required" works is that they are not required to change the prefill, but they are required to select detail from 3300.
 - On Screen 3397 Added documentation for prefiling the quantity if the flag was set correct.

- Added ability to print the selected return reason (dialog 3396) on the Alternate Invoice. (EIS10002401)
- Modified how application handles downloaded order quantities with decimal values. (EIS10002400)
 - If a non-labor quantity is downloaded via ORD.ItemQuantity (N2 01/08) and is left unchanged then retain values to the right of the decimal for pricing calculations, printing (Alt. Invoice only) and upload. If changed then use N0 01/05.
 - Download decimal qty in ORD.ItemQuantity (i.e. "15.60")
 - Display qty on 3300 without decimals (truncated, i.e. "15")
 - If qty not changed then retain values to the right of the decimal for pricing calculations, printing (Alternate Invoice only) and upload. If changed then use N0 01/05 format.
- Disabled the [Reply] and [New] buttons on dialog 9020 Mail when SCT.ApplicationState = 0, 4, or 5.
- Display a warning message if no files are downloaded during a tcom.
- Added a message box before going into a mid-day tcom.
- Require that a SID Session ID file be downloaded if any data is being downloaded.
- Added the ability to change font size via a field in FS32.ini [Setup] FontSize.
- Speed up file importing and file maintenance.
- CST.EnableJobMaintenance is no longer used. Use CST.EnableWorkOrderMaintenance instead.
- Display a horizontal scroll bar on dialog 9060 Customer Messages when text is too long for one line.
- When the Location or Route ID is changed and the RCT.EnableLocationEdit and/or RCT.EnableRouteEdit is = 2 or 3, then stop IQueue before the deletion of the database or work order related information.

Fixes:

- On screen 3018, if you press Exit without entering a Pro, a new job is created. This no longer happens.
- System screens can now be displayed in French.
- Now user can add work order from 3010 if all displayed customers don't allow adding work orders.
- Work order comments are now displayed every time into a work order, not just the first time.
- Real-time Work Order add/deletes do not update 3010 Work Order Selection.
- Disable IQueue after End Of Day done until Start Day completed.
- Fixed 700 default ActiveSync USB setting causing dialup tcom to fail.
- Calculate difference regardless of whether start or end meter is changed.
- HTML invoice was printing the invoice type between the signature and the signature name for regular invoices.
- Fixed the [Select] button on dialog 6420 Job Maintenance. It is no longer being disabled when doing an edit.
- All jobs added on dialog 6420 Job Maintenance are now service jobs. Previously if the SEQ.WorkOrderType = 5 (mixed) and undefined job type (5) was added.
- On dialog 3030 Work Order Scheduler made the enter key perform like the finish button.
- Customer list, print all, now prints in customer sequence, grouping all work orders for a customer.
- If the total amount is zero on dialog 3050 Transaction Completion the payment type dialog box doesn't appear.
- Fixed the MSG.MessageTypeCode = 2 messages to display as specified.
- Dialog 9400 Multi-Line Edit Box now limits text to the specified maximum. This affects fields on dialogs 3050 Transaction Completion and 9331 Signature Information.
- "Other" items are no longer inventoried.

Specification clean-up:

In the following files, either specific fields or the entire file wasn't used and was removed.

- Removed file references to files that did not exist in the application.
- Removed line items that did not exist in files. These references were grayed out. Now they are References.
- Removed the following files: CPC Customer Promotion Plan Control, PMA Promotion Assignment, PMC Promotion Control, PMD Promotion Detail, CPD Customer Promotion Planned Detail, HSD Job History Detail, and HST Job History Control
- CST Customer Master File: changed all grayed out fields to Reserved.
- ITM Item Master File: changed all grayed out fields to Reserved.
- JOB Job Sequence file: changed all grayed out fields to Reserved.
- NCS Telecom Settings File: changed all grayed out fields to Reserved.
- ORD Service Order Detail File: changed all grayed out fields to Reserved.
- RCT Route Control File: changed all grayed out fields to Reserved.
- ARD Accounts Receivable Detail: changed all grayed out fields to Reserved.
- CTD Customer Transaction Detail: changed all grayed out fields to Reserved.
- ITC Inventory Transaction Control: changed all grayed out fields to Reserved.
- SEL List Selection File: changed all grayed out values within fields to Reserved.

Version 2.21 - released on 12/19/03

Changes:

- Updated the title screen date and version.
- GPRS – Changed connection indicator to display only after a "Master Connection" is made to the server queue. Then the connection indicator is based upon the GPRS radio being connected to the GPRS network.
- #1086 – No longer pre-populating Pickup jobs with Pro number in any situation (neither downloaded Pickup job nor added Pickup job).
- When the "cannot start radio handler" message is detected, display: "Radio error. Please finish and reboot the HHC." and remove the connection indicator. This is an error that the HHC does not recover from, a reboot is necessary.
- #960 – "document type" is printed on the "alternate invoice" report format for CST.InvoiceFormat options 4-7.
- #962 – Hazmat report changes: added the vehicle number to heading, removed columns Hazard Class and UOM, no longer compressing shipper name, new labels for column headings, and column order was rearranged.
- Added several wait cursors when doing IQueue processing.
- #1091 – Instead of the "No Download Data" message box coming up, this line appears on the TCOM screen (when there is no download data).
- #1106 – Removed unsupported printers from ini files.

Fixes:

- Fixed several slow down issues with processing messages.
- Fixed issue number 725 – Paused work order status now resumes at previous state.
- Fixed issue number 1067 – Port # used by IQueue does not change with IQueue.ini setting.
- Fixed time to live for uploaded wireless messages. 600 only used 88 seconds.
- Fixed issue number 1069 – Frequent temporary "lockup" with multiple SEQD messages.

Open Issues:

- #1111 – After an overnight/over weekend period of idle activity – on charge wireless active, the HHT can be extremely slow. For example going from 0000 main menu to 3010 can take 3-5 minutes. GPRS Color Merlin hhcs, active in GPRS coverage, during the day (not after an EOD). This is not a common occurrence.
- #1107 – With the CST.EnableSigCaptureService=1 (capture signature after printing), if a completed job is selected again and updated, when the invoice is printed we print the signature from the first invoice.
- #1078 – Work Order Scheduler, dialog 3030, is not updated when updates received wirelessly.
- #1077 – While the HHC is "suspended" or "asleep" it will not respond to incoming wireless messages. 700 Color Merlin, 802.11b wireless. If it has "fallen asleep" for a period of time, once it is resumed the radio is reloaded. So the HHT must send a message out before it can receive. If it is suspended and resumed within a few seconds, then it will respond to incoming messages without first having to send.
- #1076 – Com port print errors using 700 color Merlin with GPRS active (WM_GETLASTERROR returns 55). Not seeing printing problems with 700 Color Merlin with 802.11 or with 700 Mono Merlin with GPRS.

Version 2.30 - released on 04/19/04

Changes:

- MRD 630582, item number 38; error log number 712, 959, 965, 980:
Increased the size of all Work Order number fields from N0 01/08 to AN 01/18 and implemented a new methodology for generating unique Work Orders numbers for new Work Orders created on the handheld.

<u>Dialogs that changed:</u>	<u>Reports that changed:</u>	<u>Fields that changed:</u>
3000 Service Customer	Cash Receipt	JOB.WorkOrderNumber
3007 New Work Orders Received	Unserviced Work Orders Report	RCT.WorkOrderNumberPrefix
3010 Work Order Selection	Customer/Work List Report	SEQ.WorkOrderNumber
3030 Work Order Scheduler		ACJ.WorkOrderNumber
4100 Unserviced Work Orders		ACW.WorkOrderNumber
6300 Work Order List		COC.WorkOrderNumber
6310 Work Order Detail		FMR.WorkOrderNumber
6320 Work Order Maintenance		NSC.WorkOrderNumber
		SCD.WorkOrderNumber
- MRD 630582, item number 26; error log number 963, 980:
Increased the size of all Job number and PRO number fields from AN 01/10 to AN 01/18 and implemented a new methodology for generating unique Job numbers for new Jobs created on the handheld.

<u>Dialogs that changed:</u>	<u>Reports that changed:</u>	<u>Fields that changed:</u>
3017 Delivery Job	Alternate Invoice/Order Report	JOB.JobNumber
3018 Pickup Job	Pickup Receipt	ODC.JobNumber
3019 Hook Job	Cash Receipt	ODM.JobNumber
3020 Spot/Drop Job	Unserviced Work Orders Report	ORD.JobNumber
6400 Job List	Customer/Work List Report	RCT.JobNumberPrefix
6410 Job Detail		ACJ.JobNumber
6420 Job Maintenance		CTH.JobNumber
6421 Job Type Selection		FMR.JobNumber
9340 Signature Capture		LTD.PRONumber
		NSC.JobNumber
		OCM.PRONumber
		SCD.JobNumber
- MRD 630582, item number 18; error log number 961:
Added the ability to apply a surcharge 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. Surcharges can either be an amount multiplied by the item pricing quantity (either CTD.ItemQuantity or sum of DTL.ItemDetailQuantity) OR can be a percentage that is taken of price multiplied by pricing quantity. There may be a most one surcharge per item but there may be multiple items with surcharges. Surcharges with the same Description 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.

<u>Dialogs that changed:</u>	<u>Reports that changed:</u>	<u>Fields that changed:</u>
None	Invoice/Order Report	CST.CustomerSurchargeKey1
	Alternate Invoice/Order Report	CST.CustomerSurchargeKey2
	Route Settlement Report	ITM.ItemSurchargeKey
		SEL.ListTypeCode = 36
		SEL.ListIDCode = 36
		New SUR Surcharge File
		New TSD Transaction Surcharge Detail
		CTH.TotalSurcharges
- MRD 630582, item number 27; error log number 964:
Added the ability to enter calendar dates in a survey prior to 1970. If the common calendar function is called from the Survey function, then the valid date range is 1/1/100 – 12/31/9999. For all other calendar function calls the valid date range remains at 1/1/1970 – 12/31/2037 for mono units and 1/1/1980 – 12/31/2037 for color units.

<u>Dialogs that changed:</u>	<u>Reports that changed:</u>	<u>Fields that changed:</u>
9040 Calendar	None	None

- MRD 630582, item number 48; EIS request number 10002417; error log number 966, 71:
Changed the HTML invoice imaging feature. The HTML invoice imaging feature creates an electronic image of a printed invoice that can be uploaded to enterprise systems to replace microfiche copies of paper invoices. Versions prior to version 2.20 created an HTML invoice image ONLY when a final invoice was PRINTED. A user has the option of printing an invoice when it is finalized, or they may delay invoice printing until later. Users reported that if an invoice wasn't printed at a customer site, there was typically no need to generate a paper invoice at all. Hence if a delayed invoice was not printed, no invoice image was ever created.
Version 2.30 now creates an HTML invoice image when a final invoice is printed OR DELAYED. If invoices are printed at a later time via 9260 Print Documents, the HTML invoice image will not be duplicated. Modified logic on dialog 9300A Print Numbered Document & comments for RCT.GenerateHTMLInv in the RCT Route Control File.
- MRD 630582, item number 23; error log number 967:
Currently within the SRV Survey Detail File, SurveyRecType = 16 populates a static text box with information from the corresponding SRL Survey Lookup File record. Added this same pre-population logic to SurveyRecTypes = 02, 03, and 12 so that those types of responses may be populated as well. This pre-population logic is only applicable for Customer Surveys (SRC.SurveyTypeCode = 04).

<u>Dialogs that changed:</u>	<u>Reports that changed:</u>	<u>Fields that changed:</u>
3528/3529 Survey Examples	None	SRV.SurveyRecType SRV.LookupIndex

The appendix for Survey & Audit was also updated to reflect this change.
- EIS Request number 10002542, project number 3040009: Right-justified the Product Style column on the Hazardous Materials Report.
- Error log number 1183: Increased the size of Document Name field on dialog 9300 Print Numbered Document from AN 01/20 to AN 01/31 to accommodate largest document name. Also updated field Instructions as well.
- Error log number 1187: Changed the program so that MMI, NCS, and SID are the only regular files (not maintenance files) that are imported during a user initiated mid-day telecom.
- On dialog 3529 Survey Example Page 2 of 2, The [keyboard] button was changed to navigate to 9400 Multi-Line Edit Box rather than to 9010 Keyboard.
- Removed ITM.VolumeUnitOfMeasure since it was unused.

Fixes:

- Error log number 1053: Corrected invalid export of LTD.Hazmat and LTD.ServiceLevel values.
- Error log number 1078: Corrected dialog 3030 Work Order Scheduler which was not being updated when updates were received wirelessly.
- Error log number 1095: Previously, when added a delivery pro to an existing delivery before working the existing pros, then, when completed, the program would return to dialog 3010 Work Order Selection. Corrected the program flow to return to dialog 3012 Job Selection.
- Error log number 1107: Previously, when CST.EnableSigCaptureService = 1 (capture signature after printing) and if a completed job was selected again and updated, then the invoice printed the signature from the first invoice. This was corrected to print the most recent signature.
- Error log number 1123: Previously, the SID file was not being transmitted during user initiated mid-day telecoms. This error was corrected.
- Error log number 1125: Previously, the program would prompt to save Route Setup information upon exiting even though no changes were made. Investigation determined that there was a problem with the vehicle number field if it was blank. This error was corrected.
- Error log number 1126: Previously, when RCT.GenerateHTMLInv = 1 (do not upload an HTML invoice for voided invoices) and an invoice is voided and then selected again and then left "In Progress", then the program would upload the signature for the voided invoice, but not the HTML image of the voided invoice. Program was corrected to upload an HTML image of the voided invoice as well as the signature.
- Error log number 1128: Previously, when RCT.GenerateHTMLInv = 1 (do not upload an HTML invoice for voided invoices) and a job is completed and then selected again and then left "In Progress", then the HTML for the original completed invoice was deleted, but the signature bitmap was not. That signature was then being uploaded in the CTH.SignatureFileName for the "In Progress" invoice. Program was corrected to delete both the invoice and the signature.

- Error log number 1129: The calendar on dialog 9040 Calendar did not always display the last week. When the font size on the HHC was changed the calendar only displayed five weeks. Six weeks are needed to display all possible months. This error was corrected.
- Error log number 1133: Corrected specification to match how the program actually works. CST.EnableFixedOrder changed to CST.Reserved and greyed out. JOB.EnableFixedOrder changed to JOB.PrePaidOrder and restored pre-V1.40 values. Also corrected the user interface to properly reference the changes made in the file interface.
- Error log number 1135: Corrected format of time being displayed on dialogs 1000 and 9340.
- Error log number 1136: Previously, the Job type indicator was not being displayed on dialog 6400 when RCT.EnableJobBitmap = 1. This error has been corrected.
- Error log numbers 1137 , 1143: Corrected the problem that was causing the Price on dialog 3350, Order Qty on dialog 3293, and Survey Lookup on 6325 to not display properly.
- Error log number 1152: Previously, when the Calendar Button was pressed on dialog 6320, the Calander would display a default date of Jan 1, 1970. Program was corrected to default to the current date.
- Error log number 1154: On the Route Settlement Report, removed the condition that forced the Total Insurance line to print only if there were taxes.
- Error log number 1155: On the Route Settlement Report, corrected rounding errors on the Product, Deposits, Excise Tax, and Net Products lines.
- Error log number 1163: Previously, when an equipment number was keyed in on dialog 3019 to replace the downloaded equipment number and then the [Loaded] button was pressed, then the [Yes] button was pressed at "OK to complete hook?", then the program went to dialog 3018 as it should have, but when the [Finish] button was pressed without doing anything, the program flowed to dialog 3000 and the keyed in Equipment number on dialog 3019 was gone and the downloaded equipment number was displayed again. Program was corrected so that the keyed in equipment number for the hook that was finished is not lost and the [Exit] button on dialog 3018 returns to dialog 3000.
- Error log number 1172: Corrected pricing issue with assemblies priced by components.
- Error log number 1179: Previously, a problem occurred when multiple days were spanned on the handheld without telecomming at EOD. When a Start Day was done, the RouteKey was incremented and the VisitKey was reset. It appeared that the handheld was matching up COC and LTD records using only the VisitKey when sending real-time messages, and ignoring the RouteKey. This caused the wrong records to be sent up. The records sent up in batch were okay. Program was corrected to send the correct real-time messages.
- Error log number 1181: Standardized the printing of RCT.DocumentPrefix to always print any leading zeroes.
- Error log number 1185: Corrected the missing bitmap on the [Schedule] button on dialog 3013 More Icons.
- Error log number 1186: Previously, on dialog 3010 Work Order Selection, when a SEQ did not exist on the handheld, the SEQ.Name was still being displayed in the grid. This error was corrected.
- Error log number 1191: Previously, only the first day's SCD 9901 record was being uploaded during an EOD tcom when multiple days were run without tcomming. This error was corrected.
- Error log number 1204: Previously, the application was attempting to restart lqueue when an EOD Settlement was aborted and this lead to an EOD tcom failure. This error was corrected.
- Error log number 1224: Previously, the Price Change Report did not have the Customer Name and Part Description fields lined up. This 80-column report discrepancy was corrected.
- Corrected tab order on dialog 8100 Route Setup-Identification.
- Corrected the navigation of the [finish] button on dialog 3018 Pickup Job that was allowing an exit from the dialog with no data.
- Corrected several of the [keyboard] buttons on dialog 6320 Work Order Maintenance that were not working properly.
- Corrected spec error that showed a SerialNumber field in the SID Session ID upload file. It was removed.
- Error log number 829: Corrected spec issues on 40 column Price Change Report.
- Error log number 1230: Corrected spec issue in "CAB Files Information" regarding incorrect folder references (changed all references of \FS32Configurations to \Dynamic).
- Removed downloaded VER Data Version File since it was not being used.

Version 2.31 - released on 06/09/04

Changes:

- None

Fixes:

- Error log number 1355: Previously, OCM Order Comments records were not being sent during real-time transmissions. This has been corrected.

Version 2.40 - released on 06/30/04

Changes:

- EIS request number 10002576 and 10002600; error log number 1259:
Print job level ODC Order Detail Comments on the Alternate Invoice/Order Report just above the Invoice Trailer messages. Previously, these job level comments were only being displayed, now they can also be printed. Updated printed report format of Alternate Invoice/Order Report.
- EIS request number 10002564; error log number 1260:
Break out the current Hazardous Materials Report into two separate reports, one for the U.S. and one for Canada. The two reports will print based on RCT.EnableHazardousMaterials flag values.
- EIS request number 10002554; error log number 1261:
Added the option to save Survey forms for printing at a later time. This enables users to batch up survey forms and print them all at once. Updated logic on dialogs 3520 Survey & Audit, 3521 Select Survey/Audit, 3522 Select Survey Category, and added a new dialog 9261 Print Survey Reports.
- EIS request number 10002559; error log number 1265:
Change ITM.DefaultVolume to be a numeric field with 6 positions to the left of the decimal and two positions to the right of the decimal (i.e. 123456.78). Previously this field was a non-decimal numeric field with six positions (i.e. 123456). This field is downloaded in the ITM Item Master File, used on dialog 3397 Detail Entry, and printed on the Alternate Invoice/Order Report.
- Error log number 1274:
Print selected Return Instructions on the Alternate Invoice/Order Report.
- Error log number 1291:
Previously, in the RTC Route Information Change file, the program only uploaded values that changed and uploaded a 0 (or blank) for values that did not change. Thus, it was not possible to determine if a value had been changed to 0. Now, all fields in the RTC are mandatory (always written/uploaded) except for the NewPasswordType and NewPassword fields which are only sent with the RTC created during User Login when a password is changed. Also, the RTC sent for an IDL tcom will only contain the LocationNumber and RouteNumber fields.
- Error log number 1297:
Redesigned how the scanner com object is utilized. We will now unload the scanner com object and restore the scanner config whenever exiting ArciTech or calling another program.
- EIS request number 10002646; error log number 1305:
Print JOB.Comments on the Alternate Invoice/Order Report just above the job level ODC Order Detail Comments. Updated printed report format of Alternate Invoice/Order Report.
- EIS request number 10002646; error log number 1307:
Within the CST Customer Master File, the CST.EnableSigCaptureService field contains two values, 4 and 5 that previously controlled whether to prompt for the responsible person information or not. This will now be controlled by signor selection. If "Job contact" is selected as the name of the signor, then the user will NOT be prompted for the responsible party information. If "Customer contact" OR "Other" is selected as the name of the signor, then the user WILL be prompted for the responsible party information. The CST.EnableSigCaptureService values of 4 and 5 will still be used to force selection of signor relationship and reason. Updated logic on dialogs 9330 Signature Name and 9331 Signature Information and comments for CST.EnableSigCaptureService values of 4 and 5.

- Error log number 1308:
Previously, dialog 9310 Payment Type would be bypassed if the balance due was \$.00. Changed the program to always prompt 9310. Updated dialog 3050A Finalize Transactions.
- Error log number 1348:
Previously, the U.S. Hazardous Materials Report did not group the same gases together, it listed them separately by cylinder size. Changed the U.S. Hazardous Materials Report to group these items together as is done on the Canadian Hazardous Materials Report.
- Error log number 1350:
Previously, when CST.EnableSigCaptureService was set to 1 (collect signature after print), the application would still take the user 9331 Signature Information. Data gathered on 9331 is only used for printing on the invoice. Since we have already printed the invoice, this information was never being used. Now, when signatures are collected after printing invoices the app doesn't go to 9331.
- Error log number 1352:
Previously, when "Other" was selected on dialog 9330 Signature Name, the program would print a blank line on the invoice for each line on dialog 9331 Signature Information that was left blank. Changed the program to suppress printing extra blank signature information lines on invoices.
- Error log numbers 1356 & 1359:
LDC records with quantities equal to zero were 1) NOT being displayed on dialog 2100 Load Vehicle, 2) NOT printed on the Load Vehicle Report, and 3) NOT uploaded in the ITD Inventory Transaction Detail file. This has been changed so that these records WILL BE displayed, printed, and uploaded. Updated dialog 2100 Load Vehicle, the report format for Load Vehicle Report, and the ITD upload file.
- EIS request number 10002663; error log number 1368:
Print item level comments (ODC.ItemComments keyed by ODC.ItemDetailTieLine=ORD.ItemDetailLine) on the Customer / Work List Report just underneath the PartDescription field. Updated printed report format of Customer / Work List Report.

Fixes:

- Error log number 152, 1349:
Previously, it was possible to have a signature that did not print on an original invoice/order, print on the duplicate. This error has been corrected.
- Error log number 1281:
Previously, an oversell warning was occurring in sales when there is no oversell. The warning occurred because non-truncated values were being used to test for oversell and truncated values were being used to reduce inventory. For example, since $3.2 > 3$, the program calculated an oversell condition, but actually the program was only decrementing inventory by 3, so there was no oversell. This was corrected so that the erroneous oversell condition is no longer displayed.
- Error log number 1292:
Previously, when the first item on dialog 3300 Customer Invoice had a decimal, the rounded value was being displayed. This has been corrected to display the full decimal value.
- Error log number 1304:
Previously, pre-populated quantities on dialog 3397 Detail Entry were only being displayed on the first tab. If second and third tabs existed, then they were not being pre-populated. This error has been corrected.
- Error log number 1317:
Previously, RTC Route Information Change records were not always uploaded in the order that they were created. This error has been corrected and now RTC records will always be uploaded in ascending chronological order (earliest to latest).
- Error log numbers 1355 & 1360: Previously, OCM Order Comments records were not being sent during real-time transmissions. This has been corrected.

Version 2.41 - released on 09/10/04

Changes:

- EIS request number 10002716; error log number 1408:
Removed grouping of GAS records with the same UN Number on the U.S. Hazardous Materials Report.

Fixes:

- Error log number 1111:
Previously, after a long (i.e. overnight) period of idle activity while on charge with wireless active, the handheld application could become extremely slow. This error has been corrected with a new serial driver.
- Error log number 1403, Knowledge Central case number 040713-000175:
Previously, GPRS would fail to reconnect after going out of range for an extended period of time. This error has been corrected.

Version 2.50 - released on 04/28/05

2.50 Was not released before this custom cut.

Changes:

- MRD REQ 1; error log number 1378:
Upgrade the application to operate on Windows Mobile 2003 – Premium Edition on the following hardware platforms: 740 cxi series, 750 B series, and 760 B series handhelds. All other currently supported handheld platforms will continue to operate only on Pocket PC 2002 – Professional Edition.
Updated the Hardware Specification on page 1-3.
- MRD REQ 2; error log numbers 1377 & 1446:
Upgrade the application to utilize the data type abstraction feature of Mobile Framework. This feature is designed to improve database access speed, particularly during the file import process.
No changes to the Detailed Design Specification were required.
- MRD REQ 3; error log number 1258:
Current surcharge functionality requires that an item and the surcharge for that item be taxed at the same rate. Change the application so that surcharges can be taxed at a different rate than the item they are associated with.
Reports that changed: Invoice/Order Receipt and Alternate Invoice/Order Report.
Fields that changed: CST.CustomerSurchargeKey1, CST.CustomerSurchargeKey2, ITM.ItemSurchargeKey, SUR.CustomerSurchargeKey, SUR.ItemSurchargeKey, SUR.SurchargeAssociation, and SUR.SurchargeItemNumber.
- MRD REQ 4; error log number 1244:
Currently, SUR.SurchargeRate is defined as a 10-digit numeric field with 4 positions to the right of the decimal (999999.9999). Change the application to use a surcharge rate defined as a 10-digit numeric field with 6 positions to the right of the decimal (9999.999999). This new field definition will be used in all surcharge calculations. Surcharges will continue to be *printed* with 2 decimal positions to the right of the decimal (rounded, 9999.99) for consistency with other pricing.
Changed the format of SUR.SurchargeRate in the File Interface Specification.
- MRD REQ 6; error log number 1443:
Allow new items to be added during wireless messaging.

- MRD REQ 15; error log number 1409:
Add support for the PB20 and PB40 printers. The PB20 is an Intermec 2-inch portable Bluetooth receipt printer. The PB40 is an Intermec 4-inch portable Bluetooth receipt printer. These printers will only be supported on handheld platforms with Windows Mobile 2003, IVA V4.x (i.e. 740 cxi series, 750 B series, and 760 B series).
Updated the Hardware Specification on page 1-3.
- EIS Request number 10002756; project number 3040140; error log number 1494:
Once contact information (name, address1, address2, city, state, postal code) has been entered (either on dialog 6320 Work Order Maintenance OR in a survey), make that information available for use in pre-populating contact information in subsequent surveys so that users are not required to re-key contact information multiple times. After entering contact information on dialog 6320 for a customer with associated SRL Survey Lookup File records that contain reserved LookupIndex values of 99 – 94, replace the associated SRL.SurveyFieldText fields with the inputted values. Then, when a survey for this customer/work order is performed the survey will find the appropriate lookup and pre-populate the contact information entered on dialog 6320. All surveys using the same lookup will be pre-populated appropriately. In order for this functionality to be utilized, the following downloaded data must be present:
 - In the SRV Survey Detail File, have records with LookupIndexes of 99 – 94 that are associated with a downloaded customer via CustomerNumber and SurveyLookupKey.
 - In the SRL Survey Lookup File, have records with LookupIndexes of 99 – 94 that are used in surveys set up for the desired customer (CustomerNumber and SurveyLookupKey).
 - In the SRC Survey Control File, have customer survey records (SurveyTypeCode = 04) that contain SurveyIndex values that key to the associated SRV Survey Detail File records (with LookupIndexes of 99 – 94).
 Added logic in Process section and for [Done] and [Select] button navigation on dialog 6320 Work Order Maintenance as well as for [Select] button navigation on dialog 6325 Survey Lookup Selection in the User Interface Specification on pages 2-81, 2-82, and 2-83; reserved LookupIndex values 99 – 94 for contact information in the SRL Survey Lookup File and the SRV Survey Detail File in the File Interface Specification on pages 4-38 and 4-40.
- EIS Request number 10002762; project number 3040148; error log number 1493:
Calculate/print insurance amounts and customer portions based on percentages of price * quantity rather than straight amounts.
Changed calculation of displayed insurance amount on dialog 3055 Transaction Detail in the User Interface Specification on page 2-48; changed calculations of printed insurance amounts on the Alternate Invoice/Order Report in the Printed Reports Specification on pages 3-24 and 3-25; changed Primary, Secondary, and TertiaryInsurancePortions from amounts to percentages and changed CustomerPortion to Reserved in the ODM Order Detail Medical File in the File Interface Specification on page 4-23; added comment for InputResult value = 2 in the IDT Item Detail File in the File Interface Specification on page 4-14.
- Error log number 1483: Added the ability to process downloaded data received from the host in a single, compressed archive (.zip) file.
- Error log number 1562: Added the ability to compress .cab files.

Fixes:

- Error log number 1370:
Previously, when exiting the application, it would hang while trying to stop and reconfigure the scanner. Changed the application to not wait for the scanner thread to be stopped before it exits.

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Custom Cut of Arcitech Version 2.50

03/30/05

- **EIS Request numbers 10002752 (analysis) and 10002807 (development):**
Add support for Blue Rhino requirements. This involves creating a new IDT.InputType = 4 that allows input of item details (on dialog 3397 Detail Entry) of 1 up to 5 quantities, each with a pre-populated field/prompt sourced from the literals file. Calculations were added (ItemDetailCalculation) that is called from dialog 3397 when IDT.InputType = 4 details are present and is used to perform calculations on the inputted values and display the results in the 3397 grid as view-only details. All displayed details, both inputted and calculated will print on the Alternate Invoice/Order Report and be uploaded as DTL Item Details. Also, add the ability to print a logo bitmap on an Alternate Invoice/Order Report when an item with a non-blank ITM.BrandCode is transacted.

Header Page of Specification	<ul style="list-style-type: none"> • Changed application name to PXClient • Changed version of application from 2.50 to 3.00 • Changed spec name to PXClientSpec
9999 Copywrite Screen	<ul style="list-style-type: none"> • Changed copywrite to 2005
Screen 3397 Detail Entry	<p>Process Changes</p> <ul style="list-style-type: none"> • Added IDT.InputType 4 option • Added documentation that the CALC button is only enabled when InputType = 4 and ItemDetailCalculation.exe exists and all two column qty's have been entered. • If done selected and CALC button not hit display "Inputted values have not been calculated for <> tab" OK. <p>Screen</p> <ul style="list-style-type: none"> • Added up to 5 entries and 4 output displays
Alternate Invoice/Order Report	<ul style="list-style-type: none"> • Added Blue Rhino bitmap to alternate invoice with a non-blank bitmap. •
IDT (Item Detail File)	<ul style="list-style-type: none"> • InputType <ul style="list-style-type: none"> - Added type 4 for Blue Rhino - Added ItemDetailCalculations page right after IDT file. This also contains an example.

- **EIS Request numbers 10002846 Legal Disclaimer:**
Added a legal disclaimer screen to come up right after they look in on 9095. This is still 3.00.

9095	<ul style="list-style-type: none"> • Changed Exist button to call 9997 once the user logs in.
9997	<ul style="list-style-type: none"> • Added this new screen

- **EIS Request numbers 10002889 Database Corruption: This is still 3.00**
Version this application was cut from had a database corruption issue. This is when it was fixed.

Version 3.00.21

PRCR[Tracking Number PX11222005-2] Shrink Delivery Ticket Report

Changes:

- Added Homecare Liquid Reservoir Fill Record Report
- Added Dialog 9082 to collect the source vessel serial and lot numbers
- Added Dialog 3370 to collect the customer serial number and style, the inspection check boxed and comments, the source vessel index and the filler's initials
- Modify layout of Delivery Tickets to reduce the number of pages for smaller invoices

Fixes:

1000 Start Day	<ul style="list-style-type: none">• Exit button, add navigation to 9082
3300 Customer Invoice	<ul style="list-style-type: none">• Finish button, add navigation to 3370
3370 Home Liquid Reservoir Fill	<ul style="list-style-type: none">• New Screen
4700 End Day Reports	<ul style="list-style-type: none">• Add support for Liquid Refill report
4710 Other Reports	<ul style="list-style-type: none">• Add Liquid Refill option
9082 Source Vessel Numbers	<ul style="list-style-type: none">• New screen
9400 Multi-Line Edit Box	<ul style="list-style-type: none">• Add support for 3370 text entry. This screen is now configurable
Invoice / Order Report	<ul style="list-style-type: none">• Modified layout. Reformat header information. Reformat trailer information so that job comments use full 80 character line. Modify fonts used for Continued, Original, and Last Page.

Version 3.00.22

PRCR[Tracking Number PX11082005-2] Add New Orders Error

Changes:

Fixes:

- The correct WO Type will appear when adding from a customer with no work orders. This will eliminate problems with processing the order as the wrong type.

Version 3.00.23

PRCR[Tracking Number PX11222005-1] New EOD Fill Report for HHC

PRCR[Tracking Number PX11222005-2] Shrink Delivery Ticket Report

Changes:

- Dialog 9082 is displayed only if the route is a medical route. The "flag" for the medical route is based on the detection of the word "HeathCare" or "Medigas" in the heading of the Delivery Ticket invoice. (This value is in the MSG file.)
- End of Day reports. The default is to print the liquid fill report if there are items in it. The user can uncheck this and not print the report if he/she chooses.
- The signatures on the Delivery Ticket are printed side by side if it is a medical route. Otherwise, they are printed the same as before (on top of each other.)

1000	<ul style="list-style-type: none">• Added condition to determine whether to display 9082 or not
Message master file	<ul style="list-style-type: none">• Added note to the file specifications MSG file, MessageText field regarding how to determine if current route is a medical route.
Invoice / Order Report	<ul style="list-style-type: none">• Added note to the specifications concerning format of the signature images for medical route versus industrial
4710 Other Reports	<ul style="list-style-type: none">• Added a note indicating that the default is to print the Liquid Refill report if there are items in it. There is a possibility of a report existing if there is an item containing the phrase "OX LOX". This phrase occurs only if it is a medical route.

Version 3.00.24

PRCR[Tracking Number PX01242006-1] Order Completion Error

Changes:**Fixes:**

- Disable cancel button after printing the delivery receipt. After printing the customer's delivery receipt, a prompt appears to print a duplicate. The application should take the user to 3010 Customer Stop Selection, but sometimes, the user is taken back to 3050 Transaction Complete and the user must finish the order again.

Version 3.00.25

Changes:

- Added new dialogs, 9097 User Login and 9092 Unlock Login
- Password entry is no longer required when the user presses the "Start Day" button
- Password is six alpha numeric characters.
- When application starts up or if the handheld is idle for a configured amount of time, dialog 9097 will be activated and user must log in with admin, user, or alternate user password. The setup section in the pxclient.ini file BattPowerTimer and ExtPowerTimer are the settings for the timer.
 - Do not display the login request dialog when:
 - When a TCOM is taking place. (When data is being downloaded or uploaded to the server).
 - When any document is being printed.
 - If another login dialog is being displayed. (Three different login dialogs in ArciTech.)
 - If the program is about to do a reboot. (There will be a request for a login immediately after the reboot.)
- RCT.PasswordRetry controls the number of attempts to enter a valid password before the unit locks the user out of the application
 - PxClient.ini security section contains two options
 - MinutesFrozen indicates how many minutes that handheld will be in a locked state after the user fails to log in successfully.
 - MaxLockoutCodeAttempts indicates the number of tries the user can attempt to enter a password before the lockout will occur (dialog 9092 Unlock Login). The user must call the dispatcher to get the code to unlock the application.
- If user is locked out of the application, 9092 will display a random number on the handheld screen. The driver tells that number to the Dispatcher. The Dispatcher uses that number as part of the key to create the lock out code. The lockout code is only valid until the expiration time displayed on the handheld screen.

0000 Main Menu	<ul style="list-style-type: none">• This now brings up screen 9097 for logging into the application
9092 Unlock Login	<ul style="list-style-type: none">• New screen that displays a Code key. This code key must be relayed to the dispatcher and the dispatcher will reply with the lockout code to unlock the handheld.
9095 User Login	<ul style="list-style-type: none">• Screen modified to have a confirmation password
9097 User Login	<ul style="list-style-type: none">• New screen that contains user and password entry. Used to create a new password or to login.

Version 3.00.26

Changes:

- The current HHC password is not overwritten unless it is blank.
-

Version 3.00.27

PRCR [Tracking Number PX11222005-1] Modify ArciTech fields for CU

Changes:

- Location number / Branch Number changed from numeric(6) to alphanumeric(6) therefore the RCT.LocationNumber, RTC.LocationNumber and SCT.LocationNumber are changed to an alphanumeric(10) field.
- 1000, 7000, 7100, and 8100 dialogs were updated to display the location number as an alpha field.
- All 40 and 80 column reports were modified to display the field as an alpha field

1000	• Display Location Number as an alphanumeric
7000	• Display Location Number as an alphanumeric
7100	• Display Location Number as an alphanumeric
8100	• Display Location Number as an alphanumeric
Standard Report Format	• Change the header line from 999999 to XXXXXX

Version 3.00.28

Changes:

- The End of Day Liquid Refill Report (Homecare Liquid Reservoir Fill Record Report) was commented out. It doesn't meet the requirements of the Praxair legal dept.

Version 3.00.29

Changes:

- The CU changes in version A3.0.29 were integrated starting on all the changes contained in version A3.0.28. (Version A3.0.27 was based on a much earlier version.). This is a version to merge CU changes with other handheld changes.

Version 3.00.30

Changes:

- Simplified the signature pathname for greater flexibility. This will enable signatures to show up on the HTML invoice if the signature bitmap is in the same directly.

Version 3.00.34

Changes:

- Added 2 flags to the RCT file. HTMLHazMat and HTMLVehInspect; 0 = work as in the past, 1 = print the HTML reports.
- Generate HazMat html file where the file name is: HAZ<Area><Location><Route><yymmdd>.html.
- Generate Vehicle Inspection html file where the file name is: VEH<Area><Location><Route><yymmdd>.html.
- Dialog 2100. When printing the final load report when accepted if RCT.HTMLHazMat = 1 then print an HTML Hazmat report.
- Dialog 3520. When the "Done" button is pressed and RCT.HTMLVehInspect = 1 and the survey is the Vehicle Inspection Survey then print and HTML Vehicle Inspection Survey report.

Version 3.00.35

Changes for A3.00.35

- Issue was reported with the Vehicle Inspection Report not being created as an HTML file based on the RCT.HTMLVehInspect = 1 flag. The issue was found to be that the SRC file did not have the SRC.VehicleInspection Survey flag identified. This flag tells the application which surveys should be printed into an HTML.
- PX PRCR [Tracking Number PX12192007-2] Add total cylinders to Load Vehicle screen

Changes for B3.00.35

- PX PRCR PX02172008-2 Add Cabled PB40 Printer

Changes for C3.00.35

- PX PRCR 03122008-1 Add entry count to detail screen

Version 3.01.00

- PX PRCR PX12072007-1 Time Delay Warning & Reason Code

Version 3.01.01

- A correction was put in to remove the Hazmat and Vehicle Inspection HTML files from the handheld directory. They were not being deleted.

Version 3.01.02

- Fixed issue where the hazmat and vehicle inspection HTML files were not being deleted properly after a good eod tcom.

Version 3.01.03

- The issue was that on the CU server, it is expecting that a manual ship that has an associated manual return to have the same CTD.ItemDetailLine value. Because this was not the case, CU was processing it as two separate things and trying to put a serial number on each one.
 - When adding a manual ship that has an associated return, the CTD.ItemDetailLine must be the same for the ship as it is for the return. Currently the application starts this number at 600 and increments it by one for each manual ship and return record. So in this case, the CTD for the manual ship would have a CTD.ItemDetailLine = 600 and the CTD for the manual return would have a CTD.ItemDetailLine = 601. In order to make this work when writing the CTD records to the Raima database, the application will change the CTD for the manual return to make the CTD.ItemDetailLine = 600. This will make all of the CTD.ItemDetailLine for manual ships and returns always an even number (i.e. 600, 602, 604, etc.)

Version 3.01.04

- In order for Praxair to rollout, then asked Intermed to **remove** the following changes and rebuild the application:
 - PX PRCR PX12072007-1 Time Delay Warning & Reason Code
 - The issue was that on the CU server, it is expecting that a manual ship that has an associated manual return to have the same CTD.ItemDetailLine value. Because this was not the case, CU was processing it as two separate things and trying to put a serial number on each one.
 - When adding a manual ship that has an associated return, the CTD.ItemDetailLine must be the same for the ship as it is for the return. Currently the application starts this number at 600 and increments it by one for each manual ship and return record. So in this case, the CTD for the manual ship would have a CTD.ItemDetailLine = 600 and the CTD for the manual return would have a CTD.ItemDetailLine = 601. In order to make this work when writing the CTD records to the Raima database, the application will change the CTD for the manual return to make the CTD.ItemDetailLine = 600. This will make all of the CTD.ItemDetailLine for manual ships and returns always an even number (i.e. 600, 602, 604, etc.)

Version 3.01.05

- **Added** the following changes back into this version:
 - PX PRCR PX12072007-1 Time Delay Warning & Reason Code
 - The issue was that on the CU server, it is expecting that a manual ship that has an associated manual return to have the same CTD.ItemDetailLine value. Because this was not the case, CU was processing it as two separate things and trying to put a serial number on each one.
 - When adding a manual ship that has an associated return, the CTD.ItemDetailLine must be the same for the ship as it is for the return. Currently the application starts this number at 600 and increments it by one for each manual ship and return record. So in this case, the CTD for the manual ship would have a CTD.ItemDetailLine = 600 and the CTD for the manual return would have a CTD.ItemDetailLine = 601. In order to make this work when writing the CTD records to the Raima database, the application will change the CTD for the manual return to make the CTD.ItemDetailLine = 600. This will make all of the CTD.ItemDetailLine for manual ships and returns always an even number (i.e. 600, 602, 604, etc.)

Version 3.01.06

- The following issue was reported and corrected in this version:
 - An order is created CU with 2 lines having the identical part numbers on each line. In the case of order #07302689-00, it is part number MM NSOX50-E (Medical Nitrous Oxide). There were 2 lines because 7 were to be delivered to one room and 8 to another room.
 - The order downloads and the HHC_D_ORD shows the 2 lines.

- The driver brings up this order on his hand hand and sees 2 lines and makes the delivery. He then prints out the ticket. On the printed ticket, only 1 of the MM NSOX50-E lines prints out.
- The route is uploaded and the missing line is not on the upload.

Version 3.01.07

- PX10142008-1 Credit Card Encryption – The credit card number will be encrypted using a ASCII shift for each number. This will be completed as part of the end of day processing so that it is encrypted when we send the upload files to the server.

Version 3.01.08

- Issue was reported where after an EOD is run the DBVSVD.ASC file was huge (19 mb). We noticed that this file was retaining old data. After we updated the cab to V3.01.06 we noticed dbsvd reset to one day worth of detail. Today I looked at a route and it is indeed keeping history (it now has yesterday and today).
 - This was corrected. The real issue was that the RCT.RouteKey was not getting incremented.

Version 3.01.09

- Praxair was not ready to roll out the changes for encryption on the server and therefore needed a new mobile build which rolled back the functionality to encrypt credit card numbers at the point of entry.

Version 3.01.10

- This build re-introduced the credit card encryption functionality on the handheld client.

Version 3.01.11

- Issue 14: Added a confirmation dialog when a driver has the “resend data” checkbox selected during tcomm. This is to prevent accidental upload of duplicate data.
- Issue 9: Fixed issue where DBNSC record was not deleted if the job was completed later in the day.

Version 3.01.12

- Additional fixes related to Issues 9 and 14 above.

Version 3.01.13

- Issue 1: Client updated to check the ReqUnservicedReasons flag (new RCT flag in Server v2.56.15) and if the flag is set, require the user to enter reason code for all unserviced workorders before completing end-of-day.
- Issue 2: Fixed issue where DTL records for items with the same item number had the incorrect ItemDetailLine associated.

Version 3.01.14

Issue #23 – Added mileage warning in client at end of day.

Version 3.01.15

Issue 23 Mileage Threshold Check

Added mileage threshold check to the odometer entry at end of day. If user enters an odometer reading which differs from the start of day by a certain (configurable) amount, the user is asked to confirm the entry before proceeding.

Issue 24 - 999 Survey

999 Survey is now printed at end of invoice if it exists and has been filled out for that visit. Used for compliance questionnaire on medical routes. This survey is printed with a special condensed format.

Version 3.01.16

Issue 32 – Left justified Type 5 messages that appear at bottom of delivery tickets. Medical Survey 999 prompt lines are now concatenated with spaces between them. Modified the way Medical Survey 999 check box lines are processed to prevent unchecked items from printing.

Version 3.01.17

Issue 31 – Fixed a problem in 6320 screen that caused job records for new work order to not be created, leading to database problems. Also implemented GUI trace logging.

Issue 34 – Implemented generic “JOB” surveys. This allows the 999 Medical survey to appear once per work order instead of once per customer.

Issue 38 – Hazmat Manifest (US and Canadian) report was altered as follows: Bulk gas items do not list a cylinder count. Bulk gas items that were on the truck but have been sold out still display on the manifest with a zero weight. In the Canadian version of the report, if both bulk and non bulk items with the same UN number appear, they are listed on separate lines.

Version 3.01.18

Issue 40 – Changed the way bulk metered product volumes/weights are calculated in the hazmat manifest so that they correctly reflect bulk sales.

Version 3.01.19

Issue 42 – Medical survey (Job-type survey with ids “JOB” and 999) now prints on delivery tickets.

Version 3.01.20

Issue 43 – Cylinder counts for multi-cylinder product units are now correctly displayed in TDG and Hazmat Manifest reports.

Issue 45 – Sales transactions with units greater than 32k no longer cause the hazmat manifest and TDG reports to malfunction.

Version 3.01.21

Issue #48 – Screens 2100, 2200 and 9030 and the Load Vehicle and Parts Transfer reports allow the entry and display of six digit quantities.

Issue #49 – Changes to the TDG and Hazmat Manifest reports for regulatory compliance.

Version 3.01.22

Issue #50 - Reverted fix for Issue #31. Disabled ‘Finished’ button on screen 6320 thus avoiding Issue #31 and prevents a blank ACJ record from being created on screen 6320.

Version 3.01.23

Issue #52 - Screen 9050 now correctly deals with time entries of routes that span multiple calendar days.

Issue #53 - Bulk products grouped by UN number in Hazmat and TDG reports. Bulk sales of products with same UN number applied to total.

Issue #56 - Corrected Hazmat/TDG weight totals of bulk products sold with different units (e.g. Lbs) than they are loaded on the truck (e.g. KGs).
Issue #58 – ACC PricingKey field is now exported with the proper width (avoiding ?'s in the DBACC.ASC file output).
Integrated new French literals for screens and reports.

Version 3.01.24

Issue #56 – Hazmat/TDG weight totals now corrected for all bulk products, not just metered bulk.

Version 3.01.25

Issue #57 – Added new support for Tax heading in delivery ticket based on the country and language of the route.
Fixed a bug in the Hazmat report that made all Hazmat reports print like TDGs.

Version 4.00.00

PxCient now supports Skynax.
Two versions of the client cab are now provided. One for Pocket PC 2002 and one for Windows Mobile 5/6.1

Version 4.00.01

Fixes for issues 50, 51, 53, 57 and 58 are merged in this release.
Fixed several errors in the PxCient.ini file for PPC 2002.
Three versions of the client cab are now provided. One for Pocket PC 2002 6920, one for Pocket PC 2002 Skynax and one for Windows Mobile 5/6.1 (Skynax).

Version 4.00.02

Issue #64 – Added eod.ini file to the PxCient.CABs.
Issue #66 – Corrected PxCient.ini settings.

Version 4.00.03

Issue #82 – Reboot will now happen before TCOM if configured to do so with the PxCient section RebootBeforeTcom set to Yes.

Version 4.00.04

Issue #82 – TCOM log now correctly displays on dlg7000 when TCOM completes after a pre-TCOM reboot. Fixed the missing icons in the build.

Version 4.00.05

Missing SID – For Skynax, the CAB is installed before TCOM. The client detects if there is a CAB anywhere in the Path and reboots so that the CAB will install before TCOM. The session ID is therefore not zeroed out.

Version 4.00.06

Missing SID – TCOM successfully resumes import after resetting due to a detected CAB file in the CabFiles (for Skynax) or Import (for 6920) directories.

Version 4.00.07

Issue #84 – Delivery Ticket Item Order items sorted by ItemDetailLine.

Version 4.01.00

Issue #93 – Order number is now displayed on the Route Activity Report (instead of Document number).
Issue #96 – Added support for the PB51 printer (cabled).

Version 4.02.00

Issue #91 – Added serial tracked exception processing.

Version 4.02.01

Issue #99 – Scanner buttons now work on the CN4e.

Version 4.03.00

Issue #100 – PxClient now detects if the desktop appears over top of PxClient and brings PxClient to the front. The code also checks for IE, File Explorer and Settings windows as well. This will prevent the user from surfing the web or uninstalling PxClient.
Issue #106 - Added Verbose logging to determine where HAZMAT printing delays are occurring.

Version 4.04.00

Issue #112 – Added SU 9735 certificate notice to TDG report.
Issue #114 – Added support for PB51 printer on CN4e.

Version 4.04.01

Issue #115 – Fixed support for PB51 Cabled printer on 760s.
Issue #112 – Fixed French special characters in TDG.
Issue #113 – Credits tab is now hidden on screen 3300 for work orders that originate on the handheld.

Version 4.04.02

Issue #113 – Credits tab is now hidden on screen 3300 for work orders that do NOT originate on the handheld.
Reverted changes for issue #72 (Surcharges).

Version 4.05.00

Issue #72 – Surcharges are now calculated using the SUR table.

Version 4.05.01

Issue #72 – Fixed a problem where surcharges are miscalculated if a surcharge item is the sum of the surcharges of two different items that have different surcharge rates.

Version 4.05.02

Issue #139 – Force the hazmat to reprint after customer stops that result in the hazardous materials on the truck changing.
Issue #142 – Add item type subtotals to end of day reconciliation report.

Version 4.05.03

Issue #146 – Replace word BULK with CARGO TANK on US hazmat report.

Version 5.00.00

Field Size changes for JDE and Port to CN70e

Updated hardware table in Section 1 Introduction to include CN70e. Also Added CN4e and removed 7XX configurations not in use by Praxair.

In a previous version of the client specification, RCT.LocationNumber had been changed to AN 01/10. The application was not modified and the server specification was not modified. After talking to Praxair, they are downloading AN 01/06 format for LocationNumber. I changed the client specification for all instances of LocationNumber to use a format of AN 01/06.

File changes for JDE field size changes:

Item Number changed from AN 01/18 to AN 01/26 in the following Download Files:

- AID Alternate Item Description File
- AIN Alternate Item Number File
- ASM Assembly File
- DOT Department Of Transportation File
- GAS Gas File
- ITM Item Master File
- LDC Route Load Control File
- ORD Service Order Detail File
- PRG Product Group File
- SRC Survey Control File – Survey Key changed because it uses ItemNumber in some cases
- STE Serial Tracked Exception File- Exception Value changed because it uses ItemNumber in some cases.
- SUR Surcharge File

Item Number changed from AN 01/18 to AN 01/26 in the following Upload Files:

- CTD Customer Transaction Detail
- DTL Item Detail
- INV Route Inventory
- ITD Inventory Transaction Detail
- NDD Non-Delivery Detail
- RXD Return/Exchange Detail
- SVD Survey/Audit Detail – Survey Key changed because it uses ItemNumber in some cases.

Route Number changed from N 01/06 to AN 01/12 in the following download files

- RCT Route Control File

Route Number changed from N 01/06 to AN 01/12 in the following upload files

- RTC Route Information Change
- SCT Session Control

Tax Code changed from NO 01/10 to AN 01/15 in the following download files:

- CST Customer Master File – CustTaxKey1, CustTaxKey2 and CustTaxKey3 fields
- TAX Tax Master File – CustomerKey field
- SEL List Selection – ListIDCode changes because it used CustTaxKey in some cases.

Tax Code changed from NO 01/10 to AN 01/15 in the following upload files:

- ACC Add/Change Customer Detail- CustTaxKey1, CustTaxKey2 and CustTaxKey3 fields
- TXD – TaxCode changes from NO 14/14 to AN 19/19 because it uses CustTaxKey as a portion of it.

Item Detail Line changed from AN 01/03 to N3 01/06 in the following download files:

- ODC Order Detail Comment File – ItemDetailLine and ItemDetailTieLine changed
- ODM Order Detail Medical File –ItemDetailLine changed
- ORD Service Order Detail File – ItemDetailLine and ItemDetailTieLine changed

Item Detail Line changed from AN 01/03 to N3 01/06 in the following upload files:

- CTD Customer Transaction Detail File – ItemDetailLine and ItemDetailTieLine changed
- RXD Return/Exchange Detail File – ItemDetailLine and ItemDetailTieLine changed
- NDD Non-Delivery Detail File – ItemDetailLine and ItemDetailTieLine changed

Report changes for JDE Field Size Changes

Item Number changed from AN 01/18 to AN 01/26 in the following reports:

- Load Vehicle Report
- Parts Transfer Report
- Unload Vehicle Report
- End of Day Truck Reconciliation Report
- Parts Request Report
- Route Inventory Report
- Invoice/Order Report
- Alternate Invoice/Order Report
- Price Change Report
- Return/Exchange Report
- Customer / Work List
- Part List

Route Number changed from N 01/06 to AN 01/12 in the following report

- Standard Report Format Header Line on all reports – note shifting of other information on line due to increased length of RouteNumber field.

Tax Code changed from NO 01/10 to AN 01/15 in the following reports:

- No report changes for this item

Item Detail Line changed from AN 01/03 to N3 01/06 in the following reports:

- No report changes for this item – Note: this field is used for sorting on report but is not printed.

Screen changes for JDE Field Size Changes

Item Number changed from AN 01/18 to AN 01/26 in the following application screens:

- 2100 Load Vehicle- grid area is long enough to support increased field length.
- 2200 Parts Transfer- grid area is long enough to support increased field length.
- 2300 Unload Vehicle- grid area is long enough to support increased field length.
- 2400 Parts Request- grid area is long enough to support increased field length.
- 3200 Job Order- field length is long enough to support increased field length.
- 3293 Order Lots –field length is long enough to support increased field length
- 3295 Select Part—Order- field length is long enough to support increased length.
- 3296 Select Part with Reason—Order- field length is long enough to support increased length.
- 3300 Customer Invoice- grid area is long enough to support increased field length.
- 3350 Assembly Detail – grid area is long enough to support increased field length.
- 3395 Select Part—Order- field length is long enough to support increased length.
- 3396 Select Part with Reason—Invoice - field length is long enough to support increased length.
- 6200 Part List – grid area is long enough to support increased field length
- 6510 Service Order Detail – grid area is long enough to support increased field length
- 9000 Find – field size may be long enough to support increased field length.
- 9030 Select Part – field size is long enough to support increased field length.
- 9230 Oversell Warning – field size is long enough to support increased field length.

Route Number changed from N 01/06 to AN 01/12 on the following application screens:

- 1000 Start Day
- 7100 Telecom Setup

- 8100 Route Setup- Identification

Tax Code changed from NO 01/10 to AN 01/15 in the following screens:

- 3042 More Customer Maintenance – fields CustTaxKey[1], CustTaxKey[2], and CustTaxKey[3]

Item Detail Line changed from AN 01/03 to N3 01/06 does not require any screen changes.

Hazardous Material Report Update- requested July 24, 2012 by Praxair

- The Hazardous Material Report may be required to be reprinted from Dlg3050 when finalizing the ticket. Praxair requested to change the MessageBox from an "OK" prompt which automatically prints the report to a "Yes" or "No" which will print the report only if the user answers "Yes". New message text "**Reprint Hazmat/TDG? Press Yes to print or No to cancel and continue**". Updates made to English and French language files, also.

Version 6.00.00

Update to run on CN70e and replace Raima Database with SQL CE.

Version 6.01.00/ 5.01.00

Starting with 6.01.00- JDE routes only. If any changes need to be made to the client application before all routes are rolled to the JDE system. They will need to be made in 6.00.xx as well as 6.01.xx. PxClient v5.01.00 with Raima also includes these changes

12/5/2012-- Update to allow entry of total tax to support tax calculations for JDE: Project# 3120048

- Unlike CU, the JDE system does not provide an easy method for downloading pricing and tax information to Accustar. Without access to pricing and tax information, the mobile computer cannot recalculate extended delivery tickets when changes are made at the time of delivery. Re-pricing of a delivery ticket is only required for a small percentage of customers. Therefore, Praxair has chosen to use a manual method for updating extended delivery tickets in these situations.

There are 4 types of Invoices created for a customer:

1. JDE /CU generated invoice presented where the items are not modified,deleted or added. These invoices are accurate and need to be printed at the customer site. Functionality exists today and no enhancement required
2. JDE/CU - COD (Cash On Delivery) Invoice: No issues here also if there is no change in any of the items. Invoice needs to be printed at customer site. Functionality exists today
3. JDE/CU - COD Invoice wherein items are modified, deleted or added: If this happens, driver will call the store. Store person will create a fresh invoice and he will relay the numbers over the phone to the driver. Driver will modify the numbers (manually update them) on the hand held including Tax, Surcharge and Hazmat and print a receipt for the customer and collect the right amount of Cash.
4. JDE /CU generated invoice presented where the items are modified, deleted or added and customer needs an extended invoice: the Driver will follow the same steps as described in pt. # 3 above. Here no need to collect money only present the accurate invoice.

Once the driver returns back to Home Base (Store, Warehouse etc.) , these modified , saved orders would be sent back to JDE. Points 3 and 4 require modifications in the Accustar program on the Hand Held so that the drivers can modify the fields.

- When line item quantities change OR when line items are added or deleted to a ticket for a customer requiring an accurate invoice, a message shall be displayed to the driver advising that the driver to call the Store for revised pricing.

Several types of "taxes" that drivers will need to be able to adjust on the handheld:

- Surcharges – these will be downloaded as a line item detail and the driver needs to be able to change the Qty and price on screen 3300 (customer invoice)
 - Driver will need to get back to screen 3300 from screen 3050 so if needed this can be changed. **No changes needed to support this.**
- Hazmat—these will also be downloaded as a line item detail and the driver needs to be able to change the Qty and price on screen 3300 (customer invoice)
 - Driver will need to get back to screen 3300 from screen 3050 so if needed this can be changed. **No changes needed to support this.**
- Taxes – the total taxes are downloaded in the JOB.TotalTax field. The taxes may need to be changed if the Qty or items on the invoice change.
 - From the summary screen 3050, using the Detail key, user can get to screen 3055 Transaction Detail screen.
 - If customer is cash customer- automatically show the screen 3055 Transaction Detail Screen when the driver selects Final on 3050.
 - Add new button on 3055 to go forward that will bring up a messagebox (“Are the totals correct?” Yes or No). If “Yes” then process the same as the Final Button on 3050. If No then user can go back and change the Tax or go back further to the details and change specific items, surcharges or Hazmat charges.
 - Screen 3055 has the Total Tax displayed. This field needs to be made editable so driver can change total tax if needed. The Tax field is the only field on screen 3055 that is not editable and needs to be editable. This will only need to be edited on a Cash only customer.
 - Driver is going to call in to get the ticket recalculated on the backend and someone will tell him what the new total tax is.
 - When the Total Tax is changed, the Total and Balance Due fields will be recalculated and updated.
 - We will need to make sure that the CTH.TotalTax field is correctly uploading the entered tax instead of the downloaded tax.
 - We will also need to make sure all other Totals are correctly updated on the invoice and in the CTH file.
 - Added 1/28/2013- CTH.TotalTax, which is populated with the value downloaded in the JOB.TotalTax field and updated if changes are made on screen 3055, will print on invoice as the new total tax with a Literal of “Total Tax”. Praxair will not be sending down TAX records, so no TXD records will be created. Because of this the CTH.TotalTaxes field will not be populated or will always be \$0.00. Per Harvey at Praxair (1/28/2013 email)Praxair does not use Excise taxes so there is no need to include those in the taxes or the balance due amounts.
 - Added 2/5/2013- Changed tax fields on dlg3055, and Invoice reports to be unsigned. Per Harvey at Praxair, taxes are not applied to returns and the TotalTax will never be a negative number.

NOTE:

3/22/2013 – Currently there are multiple versions of the application to support Praxair in their rollout of CN70 and in their upgrade to JDE on their backend server.

- Version 5.00.xx --- supports CU backend server and 7XX (761, 741, 760 and 740 mobile computers) and CN4 mobile computer. Uses Raima as the database on the handheld. **This version will be obsolete after the upgrade to JDE.**
- Version 5.01.xx – Has tax changes in it to support JDE. Uses Raima as the database on the handheld. **This version should be obsolete after upgrade to JDE as Praxair should be moving all routes to v6.01.xx**

- Version 6.00.xx – supports CU backend server on CN70 mobile computer. Uses SQLCE as the database on the mobile computer. **Will be obsolete after rollout of JDE.**
- Version 6.01.xx – This is 6.00.xx with tax changes to support JDE. Uses SQLCE as the database on the mobile computer. All issues fixed in 6.00.xx need to be fixed in this version also.

Version 6.01.01/ 6.00.29 -- 6.00.29 delivered to Praxair on 3/21/13

Fixed in this build:

- Load Vehicle Report not printing the Final copy after printing a DRAFT.—This also affected some other reports when printing DRAFTs or duplicates. I tested printing duplicates and drafts of all the reports I printed. I used the data you sent for that printing lockup issue when printing comments on invoice. Earlier issue fixed – Hazmat report printing after DRAFT Load report and should not print until final Load Report is printed.
- Vehicle Inspection Report printing at end of Day – now prints the answers.
- Questions are still cut off at 20 characters per the spec. Jody told me to leave that one.
- Customer Owned Products – on screen 3300 can now see all 26 characters.
- Changed the literal to remove the date from the Certificate on the Hazmat report for Canada.
- Printing Lockup on customer invoice messages. This was fixed in previous version 6.00.28.
- Changed flow for IDL tcom so it comes back into screen 7000 with TCOM status. This was fixed in previous version 6.00.28.

Version 5.00.12- delivered to Praxair on 3/21/13

Included in this are the following:

- Literal file change for Certificate on report. Verified French and English.
- Screen 3300 fix to show all 26 characters on the grid so for Customer Owned Items the 'C' will now display.
- Also, during our testing of these changes we were using the data you sent for the lockup printing the long messages. We discovered that it is in this version with Raima also. We went ahead and fixed and verified it.

Version 5.00.13- delivered to Praxair on 3/28/13

Included in this are the following:

- Order comments no longer print after every item added on the MT and Equipment Exchange tab on screen 3300. Verified this with data from your routes sent to duplicate this issue. I serviced all the customers on the list and added items to every customer. **Also in v5.00.13.**

Version 6.00.30 -- delivered to Praxair on 3/27/13

Fixed in this version:

- Order comments no longer print after every item added on the MT and Equipment Exchange tab on screen 3300. Verified this with data from your routes sent to duplicate this issue. I serviced all the customers on the list and added items to every customer. **Also in v5.00.13.**

- Issue with printing of subtotal section on invoice --- sometimes did not print all the lines it should on duplicate copies of the invoice. For example, first copy would have “Energy and Fuel Charge”, Hazardous Material Charge” and “Order Delivery Charge” and second copy might only say “Order Delivery Charge”. This was an issue with the Find function in the SQLCE wrapper. It also caused an issue when printing End of Day Sales Report – if printing a second copy, the customers did not all print. These are now working correctly.

Version 6.01.07 -- delivered to Praxair on 5/01/13—JDE branch updated with all fixes in pre-JDE branch.

- Customer Ticket comments print buffer overflow which was cutting off the comments on the end of the ticket and locking up. We did not see the lockup but did see the ticket comments being cut off.—Verified with data you sent us for the route/customer that was exhibiting it.
- Load Vehicle – Hazmat report printing on a DRAFT Load Vehicle report – it now only prints on the final.
- Vehicle Inspection report printing without answers.
- Load Vehicle Report not printing the Final copy after printing a DRAFT.—This also affected some other reports when printing DRAFTs or duplicates. I tested printing duplicates and drafts of all the reports I printed. I used the data you sent for that printing lockup issue when printing comments on invoice.
- Vehicle Inspection Report printing at end of Day – now prints the answers.
- Questions are still cut off at 20 characters per the spec. Jody told me to leave that one.
- Customer Owned Products – on screen 3300 can now see all 26 characters.
- Changed the literal to remove the date from the Certificate on the Hazmat report for Canada.
- Order comments no longer print after every item added on the MT and Equipment Exchange tab on screen 3300. Verified this with data from your routes sent to duplicate this issue. I serviced all the customers on the list and added items to every customer.
- Issue with printing of subtotal section on invoice --- sometimes did not print all the lines it should on duplicate copies of the invoice. For example, first copy would have “Energy and Fuel Charge”, Hazardous Material Charge” and “Order Delivery Charge” and second copy might only say “Order Delivery Charge”. This was an issue with the Find function in the SQLCE wrapper. It also caused an issue when printing End of Day Sales Report – if printing a second copy, the customers did not all print.

Version 6.00.33/6.01.10 -- delivered to Praxair on 5/15/13

Fixed in this version:

- Upload Checkbox still checked on CN70 after a good tcom. Fixed by adding code to flush the file buffer so that the information in the buffer is written to the card.

Version 6.00.35/6.01.12/5.00.14 -- 6.00.35 delivered to Praxair on 5/15/13/ 6.01.12 and 5.00.14 were not delivered so fix will be delivered with future changes.

Fixed in this version:

- Fix to the SEL file to display the reasons in the correct order for NoSalesReasons off of screen 3050 and in EOD No Service Customers. The same fix was also made to Survey (Vehicle Inspection)

Version 5.00.15? -- delivered to Praxair on XXXXXX

- Add the ability to select "No Customer Signature Available" if a representative is not available to sign for a delivery. Add a new radio button on screen 9330 in the PxClient application. Modify screen 9340 in the PxClient application to display "NCSA" on the signature screen if the new "No Customer Signature Available" is selected. Allow them to move forward in flow without signing. Upload bmp with "NCSA" for the signature. This will also print on reports that require the signature to print and upload "NCSA" in the CTH.SignatureName if this option is selected on 9330.

Version 6.00.36? -- delivered to Praxair on XXXXXX

- Changed BattPowerOff and ExtPowerOff settings to 60 minutes.
- Changed Setup>DemoMode to Yes so the Initialize Data checkbox is visible.
- Add the ability to select "No Customer Signature Available" if a representative is not available to sign for a delivery. Add a new radio button on screen 9330 in the PxClient application. Modify screen 9340 in the PxClient application to display "NCSA" on the signature screen if the new "No Customer Signature Available" is selected. Allow them to move forward in flow without signing. Upload bmp with "NCSA" for the signature. This will also print on reports that require the signature to print and upload "NCSA" in the CTH.SignatureName if this option is selected on 9330.

ADD MORE HERE

Version 6.01.13.8 -- delivered to Praxair on 08/20/2013

- Changed BattPowerOff and ExtPowerOff settings to 60 minutes.
- Changed Setup>DemoMode to Yes so the Initialize Data checkbox is visible.
- When adding a new part number – GAS ONLY to the Delivery screen (3300), also add that same item to the MT tab with a qty of 0
- Modify the STE file to provide the ability to download either inclusive or exclusive records for a customer. Add a new field – RequireSerialNumber. If RequireSerialNumber = 0, then the application works as it did previously and does not require a serial number for the specified customer/item. If RequireSerialNumber=1, then the application requires entry for the item at the specified customer.

Version 6.01.13.12 -- delivered to Praxair on XXXXXX

- Tax entry flow change- move the check to go to screen 3055 and collect a tax amount to after screen 9310 is displayed so that the check for Cash Invoice can also include if the user selected to collect cash.
- Modify the Price change logic in Invoice function to allow price changes on items of ItemType=3 (Other). Allow user to change prices on items of ItemType=3. Currently prices can be added on Shipped and MT items but not on Other Items. Users will need to change surcharge amounts on the handheld during a delivery after the transition to JDE.
 - Enable price changes to items of ItemType=3(Other) as well as sales and return items.
 - Screen 3300- enable the [key] button and Price field when the Other tab has focus to allow user to change the price or enter the password if needed.
 - Screen 3395 and 3396, enable price edit and [key] button when the item is of ItemType=3.

- NOTE: I made a note in the File Format specification that the CST.EnablePriceEditInv and CST.EnablePriceEditOrd flags are not used in the application. This was discovered when we started development on this change.

Version v6.01.14.15-- delivered to Praxair on XXXXXX

- Add the ability to select “No Customer Signature Available” if a representative is not available to sign for a delivery. Add a new radio button on screen 9330 in the PxClient application. Modify screen 9340 in the PxClient application to display “NCSA” on the signature screen if the new “No Customer Signature Available” is selected. Allow them to move forward in flow without signing. Upload bmp with “NCSA” for the signature. This will also print on reports that require the signature to print and upload “NCSA” in the CTH.SignatureName if this option is selected on 9330.

Version 6.01.15.x-- delivered to Praxair on XXXXXX

- Modify the PxClient application to allow drivers to enter a backordered qty when they reduce the qty of being delivered from what was downloaded.
 - Replace the reserved field at the end of the CTD file (after ItemDetailTieLine) with the BackOrderQty.
 - Add screen 3320 Back Order
 - Modify PxClient application so when the user presses the “Final” button on the delivery screen, if the quantity entered on any of the items is less than the downloaded quantity on items where ITM.BulkType = 0 (not a bulk item) display a new 3320 Back Order screen
 - The backordered quantities will initially be calculated to the difference between the downloaded quantity and the entered quantity for each item where the entered quantity is less than the downloaded quantity.
 - New screen will display the part#, original quantity and backordered quantity (original quantity – entered quantity).
 - User will be able to zero out all the quantities by pressing a button. User can return to previous screen with a back button and move forward in the flow with a next button.