

Allied- Generic Gilbarco ANDI Systems- Release Notes

Allied Versions: GGA0600S or newer
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Version(s)	Status	Release Notes
GGA0600S	Never Released to Production	<ol style="list-style-type: none"> Includes all enhancements from previous versions. Added support for Control#, Hubometer# and Purchase# prompts. Added support for card type selection (Credit or Debit). The POS can respond with a completion code that indicates it wants the customer to make the selection. This feature is activated via the DPT Configuration command (DPT J). See the DPT J command for details. Added support for Additech fuel additive system. Support added to ignore the setting of the "Report calling as Idle" and "Report Idle as Calling" flags when the CRIND is offline. See the DPT J command for details. Added support to allow the POS to control when the ANDI prompts the customer for a receipt. This can be set to prompt for receipt during or after the dispenser starts to fuel, as opposed to before fueling. The enhancement adds new flags to the "print receipt always" flag in the DPT J command (now referred to as receipt prompt mode flag). Added logic for CRINDs with graphics displays to issue a few beeps when displaying a prompt, which requires a customer response. Enhanced the car wash prompt mode and receipt prompt for additional prompting scenarios. See the DPT configuration command (DPT J) for additional details.
GGA0601S	Released 05/24/1999	<ol style="list-style-type: none"> Includes all enhancements from previous versions. Added support for the Lumitronic (MTI, Inc.) Electronic price sign. Added logic to report a failed car wash to the POS. This is utilized for operations where the car wash controller interface resides in the POS (i.e. when car wash codes are provided via the POS).
GGA0602S	Never Released to Production	<ol style="list-style-type: none"> Includes all enhancements from previous versions. Changed the behavior of the system when a graphics CRIND is used and the specified keyboard does not have soft keys. When displaying the car wash menu, the ANDI would previously still show the options with arrows for soft keys. This has been changed to show the numeric car wash selection (e.g. 1= super, 2= works, etc.). Changed maximum number of digits for Vehicle # prompt from 6 to 11. Added new keypad type, value 8. Please see ANDI keypad document or Generic ANDI Service Manual for layouts. The ANDI now sets the following card reader configuration flags to default values if the specified value is unknown for the particular parameter: <ul style="list-style-type: none"> • Operation mode= 1

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GGA0602S	Never Released to Production	<ul style="list-style-type: none"> • Receipt prompt mode= N • DPT preset mode= N • Report calling as idle= 0 • Report idle as calling= 1 • Car wash prompt mode= N • Attendant card mode= 0 • Cash acceptor Pay mode= 0 • Card type selection mode= 0 <ol style="list-style-type: none"> 6. Added new keypad type, value F. Please see ANDI keypad document or Generic ANDI Service Manual for layouts. 7. System includes the new boot loader support, which requires the ANDI to be populated with two RAM boards (Expansion/ Normal RAM slots). 8. Added support to create a log event (SSC K) for when a printer returns to normal operation (Printer OK). 9. Added support to display transactional specific text when supplied by the POS during a sale authorization. The provided text will display for 5 seconds.
GGA0603S	Never Released to Production	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added support for Preset by Volume in the DIS D (authorize dispenser) and DPT R (authorize card) commands. See these commands for additional details. 3. Added support to report new owning device values based on the key pressed at the dispenser when in a calling state. Please see the DPT Data Element Dictionary section for definitions of the new owning device values.
GGA0604S	Released 08/17/2000	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Logic was changed to only send prices if needed. 3. Changed logic to speed up the printing of customer receipts at the CRIND.
GGA0610S	Released 08/18/2000	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Enhanced the ANDI messages to allow the POS to specify what screen to display at the CRIND (by screen number). This is managed by sending the screen name in the display message field during an authorization, via the DPT X command or via the program idle prompt message. Please contact Allied Electronics, Inc. for details regarding the use of this function. 3. Enhanced the SSC menu (press 3-2-1). Added an additional screen for the Idle Status. If the first screen shows "System Not Idle", press the '1' key to display further details regarding the part of the system which reports the "Not Idle" condition.
GGA0611S	Never Released to Production	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. A change was made to enhance the CRIND polling scheme. The logic was changed to immediately poll a CRIND again if it previously responded with a message. This ensures that the CRIND transmit queue is emptied as soon as possible. This is especially important for sites using graphics displays, these CRINDs generate response messages for each display message sent. When the site has a lot of fueling points, customer response time would be slowed down. 3. The date-time of a card-reader transaction is now established at the start of a transaction and remains the same for the duration of the transaction. Both the DPT R and DPT C messages now contain a Date/Time field (field type 'e'). For an individual transaction, the content of this field is the same in both messages. 4. A new optional POS SALE ID field has been added to the DPT R message; Field type '@' (0x40), max length 64 bytes. If the POS returns this field in the DPT R response message the ANDI will return it in subsequent DPT R and DPT C messages for that transaction. This allows the POS to attach some

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GGA0611S	Never Released to Production	<p>arbitrary information to the sale.</p> <ol style="list-style-type: none"> 5. A request was made to display a screen with “Remove Nozzle Then Select Grade”. This is accomplished by programming the following dispenser configuration options “Single Hose MPD = ‘Y’ Start Button Used = ‘Y’ and Blender-Type = ‘9’”. The blender type field was formerly not used in Gilbarco systems. 6. Changed the text from "Insert Card Again" to "Re-Insert Card" for certain Generic prompt sets. 7. Added a new keypad to the ANDI system, value H. Please see ANDI keypad document or Generic ANDI Service Manual for layouts. 8. Added owning device “TS” to the dispenser status message (DIS A) when a hot authorized dispenser is denied. This allows the POS to recognize a hot authorized denial condition at the POS. 9. Modified the Preset Volume and “Fuel Up To x G” display. The logic was changed to no longer display “Fuel Up To X G” when the transaction type is set to 1 (fill-up) or 4 (auto auth fill-up). Please note that for these two cases, the ANDI will still display “Fuel To \$” at the card reader if the customer enters a fuel preset amount at the DPT (if enabled in the DPT configuration).
GGA0612S	Released 01/04/2001	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Enabled a REPRINT key (keypad type H) and added the requested REPRINT functionality. Please see the DPT Configuration Command (DPT J). In order to make this a bit more flexible, the DPT J command was enhanced with two parameters. The Reprint Timer defaults to 5 minutes and the Max Receipt Count defaults to 2 (1 for original receipt + 1 for reprint). If the POS doesn’t provide these parameters in the DPT J message the ANDI will use the default values listed above. The function requires keypad type H, or for the POS to map a reprint key.
GGA0613S	Released 03/19/2001	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added Transaction Status value “g” (Card Host Unavailable). The Transaction Status is a member of the DPT Status field (field type ‘v’, used in DPT C message). 3. When Transaction Status is “g” the DPT C message will be sent with completion code “N” (no response expected). This prevents the dispenser from going to “POS Unavailable” after the customer dips a card when the POS with card-host server is down (POS issue). Formerly, it was possible for the dispenser to get stuck at “POS Unavailable” until the POS that serves as the card-host re-established communications with the ANDI. This was changed to allow these dispensers to be used for post-pay sales by other POS devices. 4. Added DPT configuration flag to allow enabling/disabling of displaying prices in car wash selection menu. The default is to show the price if the value is not programmed in the DPT Configuration command (DPT J). Please refer to the DPT J command for additional details. 5. Added DPT configuration flag “Minimum Receipt Lines” to the DPT J command. This parameter is used to define the minimum number of lines on a customer receipt. Some DPTs have printers that are equipped with a tear-bar. In order for the customer to be able to grab the receipt it has to be long enough to pass through the chute. Optimal values may differ from model to model and may differ per manufacturer. It is recommended to set the default value for this parameter to 00, this will instruct the ANDI to use a default selection for that manufacturer. 6. The system was changed to operate as follows (regardless of the value of Card Type Selection Flag in the DPT Configuration command):

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GGA0613S	Released 03/19/2001	<ul style="list-style-type: none"> • Press Credit Outside Key, CRIND displays “Host Unavailable”, no DPT C message generated. • Press Debit Outside Key, CRIND displays “Host Unavailable”, no DPT C message generated. • Dip card without first pressing a key. CRIND displays “Host Unavailable”. ANDI generates DPT C message with completion code set to “N” (no response expected) and Transaction Status set to ‘g’ (host unavailable). <ol style="list-style-type: none"> 7. Added support for new “Car Wash Enhanced Print” flag in the DPT Configuration command (DPT J). See the DPT J command for additional details. 8. Added support for PPG discounting. See DPT Authorize Card (DPT R) and Authorize Dispenser (DIS D) commands for additional details.
GGA0620S	Released 11/06/2001	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added support for Gilbarco in-dispenser bar code scanners. See the Dispenser Configuration Command (DIS M) for details on enabling/ disabling the scanner on a fueling point by fueling point basis. See the DPT Authorize Barcode Command (DPT d) for details regarding the bar code authorization request. 3. Added support for the Milwaukee Electronic Price Sign interface. The price sign connects to ANDI channel 12 in order to maintain the MTI sign interface on channel 15.
GGA0621S	Released 02/25/2002	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added support for additional debit prompt “Enter PIN # or Press NO for Credit” (completion code ‘)’). If the customer presses NO, the text ‘NO’ is passed to the POS in the pin block field. The new pin prompt requires generic graphics set GMON0106. 3. Enhanced the receipt prompt mode flag in the DPT configuration command (DPT J). The value of ‘H’ will instruct the ANDI to suppress prompting of the receipt at the beginning of the sale until one of the following completion codes is returned: <ul style="list-style-type: none"> • @= Hot authorization. • W= Keep waiting for authorization. • >= Accepted, POS will authorize dispenser. • A= Accepted/ authorized. <p>The ANDI will also suppress the car wash prompt when this mode if car wash is set to prompt in the beginning of the sale.</p> 4. Enhanced the logic to only show car wash options that the customer can afford (i.e. prompting at the end of the sale). 5. Changed timers for "Re-Insert Card" and "Card Read Error Please See Cashier". Formerly the prompt timeouts were hard-coded for 45 seconds and because of an error in the code this timer would run twice (in effect be 90 seconds). This has been changed to use the configurable "DPT Await Card" timer. 6. Added support for new Download Modes F (Forced Idle) and S (Forced Timed). See the Load Program Command (SSC J) for additional details. 7. Added support for wild cards in the Log Event message. See the SSC K command for additional details. 8. Added log event messages (SSC K) for messages received from a POS that can't be applied. If the received message was sent with the completion code field set to ‘blank’, the ANDI will respond with a completion code. Otherwise a generic “Msg Not Processed” message is generated.

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GGA0621S	Released 02/25/2002	<ol style="list-style-type: none"> 9. Enhanced the cash deposit logic with regards to displayed messages. On a graphics screen the ANDI will now display "Deposit of \$x" while the bill is being stacked. Former systems would only show the amount. Other cash screens will continue to show the total. 10. The ANDI was enhanced to enforce the "DPT START FUELING TIMER" when a barcode with a Remaining Balance is used to authorize the dispenser. If the customer doesn't start fueling, the sale will remain authorized. The logic was changed to terminate the sale after the DPT START FUELING TIMER expires without detecting fuel flow (same as card transactions).
GGA0622S	Released 04/26/2002	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added support for a certain customer's prompt sets, which include support for acceptance of that customer's Prepaid/ Cash card at the CRINDs. 3. Added Support for the enhanced DPT Customer Prompts command (DPT X), to allow for the return of bar code or card swipe data. Please refer to the enhanced DPT X command specification for additional details. 4. Added Support for the new DPT Prompt Complete command (DPT m) to allow the POS to indicate when specific prompt requests via the DPT X command are complete. Please refer to the DPT m command specification for additional details. 5. Added support for new field types within the Program DPT Configuration command (DPT J). Specifically, the "Press Enter When Done", "Customer Prompt Mode", and "Card Reader Pay Mode" flags have been added. Please refer to the DPT J command specification for additional details. 6. Added support for up to 4 transaction records (customer buffers) per dispenser. This is controlled by the new Maximum Customer Records field in the Program Station Configuration command (DIS O). If omitted from the message, this field defaults to 2 (compatible with current values). Note that changing this field changes the number of customer records returned in the DIS A message (dispenser status). 7. Added support for zip code prompt at the DPT. The POS requests the zip code prompt by returning a value of '(' (0x28) in response to the authorize card command (DPT R). The zip code will be returned by the ANDI in field type '=' (0x3D). 8. Fixed support of the DPT Print command for allowing the POS to print a generic receipt at the DPT. 9. The system will now do a better job of displaying "Barcode Approved" for card-sales if barcode comes after the card-swipe.
GGA0623S	Released 08/09/2002	<ol style="list-style-type: none"> 1. Includes Enhancements from previous versions. 2. Changed logic to no longer accept a car wash code of all zeroes as a valid code. A report from a field location using the Kesseltronics controller (emulates Ryko) would sometimes do this under error conditions. 3. Addressed an issue related to ADA functionality, where the idle prompt would not immediately return to the non- ADA screen at the completion of an ADA sale. 4. Enhanced the totals reporting mechanism for situations where the dispenser reports totals for an unconfigured product. These totals will now be ignored and will have no affect on other properly configured products. 5. Added a work around for issues associated with different versions of Gilbarco InfoScreen (color) driver board firmware. This would result in sometimes two display lines partially overlapping one another, as with displaying the promotional message. The logic was changed to always clear the CRIND screen before displaying a promotional message.

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GGA0623S	Released 08/09/2002	<p>6. Addressed an issue associated with processing the CLEAR key (and other function keys) during customer fleet entry at the CRIND. The CLEAR key was treated as if the ENTER key was pressed in previous systems.</p>
		<p>7. The Sale Cancelled Timer as set in the DPT Configuration command (DPT J) was hard coded. The system was modified to use the value as set in the configuration command.</p> <p>8. Added support to allow the POS to print the cash receipt even for cancelled cash sales. This was done by ensuring the ANDI sends the DPT Card Sale (DPT C) message before printing the receipt. This allows the POS to provide print data in the DPT C response message.</p> <p>9. A change was made in regards to Debit at the card reader. The request was to change the DPT display to show "ATM/Debit" instead of "Debit" in all screens related to debit transactions. Some current Generic ANDI users still require the prompt to display "Debit". To satisfy both requirements, a configuration parameter was added "Show Debit As ATM/Debit" in the DPT J command. To remain compatible with older systems it defaults to "No".</p> <p>To make this work with Gilbarco graphics, the system must use graphic file sets GCLR0108 for InfoScreen and GMON0108 for monochrome screens. If the "Show Debit As ATM/Debit" flag is set when using older graphics the ANDI will get an "unknown screen" error from the CRIND. Normally this would cause the ANDI to reload the graphics. In order to support a full range of legacy graphic sets with this code, if the ANDI receives an "unknown screen" error for one of the "ATM/Debit" screens the system will turn off the "Show Debit As ATM/Debit" flag and display the standard debit screen.</p> <p>10. Added enhancements to the Program Fuel Information (DPT D) command. In previous builds, the ANDI would reject a product if both the Name and Short Name fields were blank filled. The ANDI would also stop reading the remainder of the message (i.e. ignore other fuel programming information). The logic was changed to accept blanks in the Name and Short Name fields. This also can be used to restore default values of a fuel product (Gasoline).</p> <p>11. Added support for taxable car wash product (support different car wash tax amounts for each car wash product). Please see the DPT Product Configuration command (DPT F) for additional details.</p> <p>12. Addressed potential issue with regards to operating dispensers in auto payout mode. In some cases, the ANDI sale buffer field would not be cleared after the sale was reported to the POS. Logic was added to check for auto-pay each time a Reserve, Authorize, Stop or Suspend command is received.</p> <p>13. Enhanced product discounting rules for discounts applied to maximum sale authorizations. If an authorize card (DPT R) response message omitted the transaction amount field, the ANDI would use the Credit Limit field from the Station Configuration (DIS O) command. Assume this is set to \$999.99, and also assume DPT-R message also returned a discount rule type 3 - fixed (e.g. discount of \$0.50). The ANDI would attempt to preset the dispenser for \$1000.49 (\$999.99 + \$0.50). This value exceeds the maximum allowable preset for certain dispensers and as a result the preset fails. The ANDI would generate a log message "Pump Auth Error: X". Logic was added to prevent exceeding the dispenser maximum.</p> <p>14. Added support for graphic displays and the system configuration utilizing the price level selection flag (see DIS M command) set to require the customer to make payment selection. The customer is now able to select pay inside cash or pay inside credit once the dispenser is authorized, while using keypad type 6</p>
GGA0623S	Released 08/09/2002	

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GGA0700S	Never Released to Production	<p>(graphics style keypad, cash/ credit prompting mode.</p> <p>15. Added support to allow POS to print a receipt or coupon at any time. (DPT g)</p> <ol style="list-style-type: none"> 1. Supports Canadian debit prompts and requirements. 2. Added logic to return completion code "B" (busy) if the POS requests dispenser totals (group DIS, cmd T) while the ANDI is retrieving or is about to retrieve totals from the dispenser. 3. Added "DPT xx Link Up" and "DPT xx Link Down" log event messages. 4. Made changes to the INTERAC dialogue so that the CLEAR key works properly. Issue was introduced in GGA0700S and this build was never released to production. 5. Fixed issue where if the "Language" key is pressed in the IDLE state, the default language is never restored. 6. Added full support for soft keys for certain keypad types when interfacing to a graphics capable CRIND. 7. Added new values for the "Dispenser Model" field in the dispenser configuration record (group DIS, command code M). <p>value 3 : disable soft-keys value 4 : disable soft-keys and disable video</p> <p>This allows all predefined keyboards on a graphics capable dispenser to operate both with and without softkeys.</p>
GGA0701S	Released 08/15/2003 BUT ON HOLD UNTIL FURTHER NOTICE!	<ol style="list-style-type: none"> 1. Added "Barcode Mode" to the DPT J message. There are two options available with this mode: <ul style="list-style-type: none"> 1 = Default 2 = Allows barcode to be followed by a credit card or inside payment while retaining the discount from the barcode. The PPG discount will be applied immediately in lieu of a MOP selection and POS authorization. 2. If the DPT configuration parameter "Barcode" is set to a value of "2" and a barcode is swiped at the DPT, the owning device for that pump will be set to "BC." 3. Added support for French promotional prompting for Canadian based customers. 4. Fixed problem with using the wrong GSM baud rate when using DUKPT or Master Key/Session Key encryption. 5. Fixed problem with promotional message not scrolling on the single-line display. 6. Fixed problem with an IDLE message programmed via the DPT M message not scrolling on the single-line display . 7. Added support for the end-of-line format character (0xD = carriage return) in all messages programmed via the DPT M command. This allows the POS to define where a line break should occur. This works only for dispensers using graphics displays. On single-line displays, control characters are ignored and replaced by a space.

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GGA0702S	Released 02/12/2004	<ol style="list-style-type: none"> 1. Enhanced logic such that if the "Company Code" field in the DPT Configuration message (DPT J) is set to "I" (Irving Oil), the ANDI will limit the maximum number of digits in the "Vehicle Number" prompt to six (6). 2. Added a screen translation table for Irving Oil. 3. Fixed issue where "inside, auto-pay" sales are lost if a) a power fail occurs during fueling and b) the handle is lowered before a POS has signed on as a DIS subscriber after the power fail. 4. Fixed issue where the ANDI would reset the GSM repeatedly during an "Init Debit" as a result of a plethora of MAC requests by the POS. 5. Domestic sites: if the customer pressed the CLEAR key at the PIN prompt, the ANDI would attempt to step back one step in the INTERAC dialog (as in Canadian sites). The ANDI would then attempt to display the <i>Select Account Type</i> screen, which does not exist. The ANDI would receive the "Screen 099" error on the log and the CRINDs would reload graphics. This is fixed. 6. Enhanced logic so that when a screen is displayed that does not exist, the ANDI no longer reloads graphics. Instead, a "screen error" message is displayed on the CRIND indicating the screen in error. As before, an error message is logged. 7. Added logic to log a message whenever the GSM is reset. 8. Added the French equivalent of the "Enter Preset" prompt. 9. Changed GSM logic to perform a reset whenever the GSM goes offline with the ANDI. 10. Added support for Barcode Printing. 11. Added support for 40 character wide printing. 12. Changed to no longer scroll the "Insert Debit Card" prompt on a single line display. 13. Fixed issue with the CRIND occasionally displaying text on top of a graphic. 14. If a MAC request followed very quickly after a key load, in some circumstances the MAC would be sent to the GSM before it loaded the new keys. This would result in an incorrect MAC as the "old" key was used. Also, for long MAC strings, sometimes the key load was sent to the GSM in between "pieces" of the string to be MAC'd, so part of the MAC was done with the "old" key, and part with the "new" key. 15. Fixed "\$99" receipt problem. 16. The logic was changed to print the coupon after the receipt if the coupon (DPT g) was received while the transaction was at end-of-sale (after customer replaces nozzle). The coupon print data is saved and is printed at the next CRIND idle state. 17. Added support for the Gilbarco alphanumeric keypad type 'K.' 18. Added a new field to the Dispenser Configuration (DIS M) message. This is a 3 byte field (values 100-109) after the <i>DptCredit</i> and <i>DptDebit</i> fields. If this field is included, and the referenced DPT DL message has been defined, then that DL message will be used as the Idle message. If the DL message has not been defined, then the default Idle message will be displayed. The default for this field is 100, so current customers who download message 100 but do not fill in this field should see no impact. 19. The "Cancel" softkey has been added to the generic "fuel up to" screen per customer specifications.
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GGA0703S	Never Released to Production	<ol style="list-style-type: none"> 1. Logic was been added to once per hour check the files in the \IMG directory. Additionally after the ANDI receives a DPT Configuration command (DPT J), the ANDI checks the files in the \IMG directory. If the MARK value in the file CNF_FILE.MON or CNF_FILE.CLR changed, the ANDI will automatically initiate a graphics download. 2. Changed logic to make the ANDI code compatible with the QuikTrip graphics. For QuikTrip sites that have CRINDs with monochrome displays and keyboards without softkeys, the <i>Dispenser Model</i> field in the Dispenser Configuration record (DIS 'M') should be set to "3" (no softkeys). Using that setting, the ANDI will now use the desired QuikTrip screens for "Receipt Yes/No" and "Select Credit or Debit". 3. For Irving Oil (<i>company code</i> = I), pressing CLEAR at the PIN prompt will cause a clear of the data and a re-prompt for PIN. This prompt should "fail" after three attempts. 4. Modified Irving Oil's "fuel up to" screen to allow a customer to enter an amount up to \$100. 5. Some single-line French text has been changed for Irving Oil 6. For Graphic/Monochrome/Numeric prompts, the entered text is now centered. 7. A French idle prompt can be programmed via DL Message 110. 8. A MAC request sent while a Key Load is pending will be accepted and will be sent to the GSM after the key load. Previously, a MAC key sent during a key load would be rejected with a Completion Code of 'B' (busy). 9. After a warm start, the ANDI will set the GSM bit rate based on the encryption type, if the encryption type has been set. Previously, the ANDI reverted to the domestic bit rate after a warm start and would only set the Canadian bit rate when a DPT configuration message was received. 10. Changes were made to support keyed entry of account numbers at the CRIND (requested by Flying J). 11. A new <i>Prompt Mode</i> value 'J' was defined for the DPT X command <i>Mode</i> value J (0x4A): display text, get card track data or keyed account. 12. The <i>display text</i> field as used in the DPT M command (Program DPT Display Prompt) was enhanced to support one or more control sequences. <p>Use of special characters embedded in the <i>Display Text</i> field:</p> <ol style="list-style-type: none"> a. CR (Carriage Return - hex value 0xD) Eliminates need for trailing spaces at end of a display line. A CR as the first character of a line will result in a blank line. b. FS (Field Separator - hex value 0x1C) The first FS indicates the end of the standard display text and the beginning of one or more command sequences. The character following the field separator is a Mode command. When the <i>mode</i> is set to "J" (same value as <i>Prompt Mode</i>) the system will allow a card or keyed account. <p>Regarding the 'J' code, the ANDI expects the following control sequence: <FS> <J> <XX> <YY><FS> = Field Separator (0x1C)</p> <p><J> = Letter J (0x4A) <XX> = 2 digits specifying the minimum number of account</p>

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GGA0703S (cont.)	Never Released to Production	<p>digits <YY> = 2 digits specifying the maximum number of account digits.</p> <ol style="list-style-type: none"> 3. Already implemented in an earlier version of the Allied software was support to allow the POS to select different idle prompts per dispenser in the dispenser configuration record. This allows the system to control which dispensers should allow the customer to key-in an account number. 4. When an idle prompt is selected and a customer starts by entering an Account Number, the keyed data will be reported to the POS in the DPT R command (Authorize Card) in the <i>Primary Account Number</i> field (field type Q). The track data fields ('a' and 'b') will be omitted in that case. 5. If the POS wants to prompt the customer to enter a second card (e.g. loyalty card) the POS returns completion code value '?' (0x3F) in the DPT R message. If at that point the same capability is needed (insert card or key account) the POS should include 'J' control sequence in the <i>display text</i> field (field type 'E') along with the text to be displayed for this prompt. This is similar to the sequence in the DPT M command. Regular display text is followed by the optional <i>mode</i> field. If the customer responds by entering an Account Number, the keyed data will be reported in the <i>Primary Account</i> field in the DPT R command. 6. Init debit is now single-threaded. That is, only one CRIND is done at a time. 7. A response to a DPT fA command is held until the GSM responds (or times out).

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GGA0800S	Released 11/01/2004	<ol style="list-style-type: none"> 1. Adds support for a 3rd dispenser channel on ANDI channel 9. 48 fueling points maximum, 16 fueling points per channel. Maximum of 32 CRINDs on fueling points 1-32. 2. Implemented MLKH (Canadian debit) changes. They include: <ol style="list-style-type: none"> a. Removed “single-threading” to the GSM. b. Keys sent during CRIND/GSM debit init will be accepted. c. Fixed scenario that could have caused a ‘T’ response to a key load. 3. Assume the ANDI is running in the new “Flying J” mode (prompt for account number at idle prompt). The CLEAR key did not clear the input keyed. This has been fixed. 4. Assume the ANDI is running in the new “Flying J” mode (prompt for account number at idle prompt). Enter a number of digits but do not complete the entry. The display would never be cleared. In a Gilbarco system, the ANDI does not know if the customer is entering data, so there is no good way to handle this. Per Flying J, the logic was changed to restart the account number prompt every 5 minutes (the standard idle refresh time out). 5. If prompt masking is used during the sale, then the next idle prompt also does masking. This has been fixed. 6. If POS returns the <i>Formatted Account Number</i> before approving the transaction, the ANDI would report a <i>Formatted Account Number</i> in the next DPT R message. The code was changed to use the <i>Primary Account Number</i> instead. 7. If ENTER is pressed (no keyed data) in response to an “Account” prompt, the ANDI would report the <i>DPT Transaction Status</i> value "A." This was changed to report status value "X" instead. 8. Changed logic to center the numeric input prompts on the CRIND display. 9. Added logic to not print a transaction/date time if the POS never initialized the ANDI date/time. 10. Fixed problem with ALL STOP not working correctly on pump channel 3 (ANDI channel 12). 11. The code was changed to provide a bit more information in the SSC trace file when the ANDI internally issues a STOP command. There can be several reasons why this would happen. When this happens, the ANDI will now use a different owning device value for each condition. Each internal STOP command will have an owning device of 'xx.' The second character will vary depending on the reason the stop is issued. 12. Fixed problem with preset volume authorizations if the specified price level is ‘0’ (default). This caused the ANDI to omit the mandatory <i>Price Level</i> field. The logic was changed to the <i>Price Level Default</i> value from the dispenser configuration. 13. The DIS M (dispenser configuration) message was enhanced to include a <i>DPT Preset Mode</i> per fueling position. If one omits the <i>DPT Preset Mode</i> from the DIS M command, the system behaves as it currently does (use <i>DPT Preset Mode</i> field from DPT J message). 14. Changed GSM protocol driver to better handle the low level communication between the GSM and the ANDI in situations where the GSM needs to be reset. 15. Lengthened timer used during PIN initialization. This was done to better handle a situation where a power fail of a system with more than 8 Smart Pads causes a debit re-initialization to hang up.

Version(s)	Status	Release Notes
GGA0800S	Released 11/01/2004	<p>16. Flying J. Program the system to use a DPT idle prompt such that the customer is allowed to key-in a card account number at the DPT idle prompt. If while at the idle prompt the operator authorizes the dispenser, the DPT display would remain stuck on the idle prompt. The logic was changed to terminate the idle prompt and move on to the "Remove Nozzle" prompt.</p> <p>17. Flying J and QuikTrip. Both reported the problem of being unable to cancel a 6 digit carwash code. The ANDI incorrectly truncated the 6th digit in both the "CK" (check code) and "US" (Use Code) commands. This has been fixed.</p> <p>18. The system also includes the change made regarding the Gilbarco alphanumeric keypad. The ANDI accidentally wrote a keyboard record consisting of 50 keys into a record that was sized for a maximum of 48 keys, thus corrupting the data following the end of that record. This has been fixed.</p> <p>19. Flying J. Program the system to use a DPT idle prompt such that the customer is allowed to key-in a card account number at the DPT idle prompt. If while at the idle prompt the operator authorizes the dispenser, the DPT display moves to the "Remove Nozzle" prompt. Flying J reports that in their lab part of that prompt is erased (the echo area of the original idle prompt). The logic was changed to first terminate the numeric input command and then send the new screen to be displayed.</p> <p>20. Changed logic to always use the <i>Terminate Alpha Input</i> command when an alpha command was active. Formerly, the ANDI would terminate all input commands (numeric and alpha) with the <i>Terminate Buffered Input</i> command.</p> <p>21. Barcode support for inside sales.</p> <p>When the <i>Barcode Mode</i> in the DPT J message is set to '1,' the ANDI assumes that a barcode scan initiates an outside sale.</p> <p>When the <i>Barcode Mode</i> in the DPT J message is set to '2,' a barcode scan may be used at the start of the transaction to get a fuel discount. This may be used for either inside sales or outside sales. It already worked this way in the previous version but a few minor changes were made.</p> <ol style="list-style-type: none"> a. With <i>Barcode Mode</i> '2,' the ANDI no longer "reserves" the dispenser after a barcode scan (don't know if it will be inside sale or outside sale). b. Single line display - removed "Scan Barcode" from the CRIND prompt after the barcode scan (already worked that way for monochrome display). <p>22. Added support for <i>NTEP Rules</i> parameter in the DIS O command. This does the following:</p> <ol style="list-style-type: none"> i. If a dispenser with an active credit sale (inside or out) goes off-line for more than 10 seconds, when it comes back on-line the sale is stopped. ii. For an outside card sale, if a sale is approved and then the nozzle is removed and returned, and another nozzle isn't removed within 15 seconds, the sale is terminated.

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GGA0800S	11/01/2004	<p>23. DIS D command (Authorize Dispenser):</p> <p>When using <i>Transaction Types</i> 2 (preset), 3 (prepay), or 7 (prepay, don't show amount at DPT), added a check to ensure a valid <i>Preset Amount</i> or <i>Preset Volume</i> has been specified. <i>Completion Code</i> "V" (value error) is returned if no valid value is found.</p> <p>24. Issue reported by Husky. Swipe a card and send the DPT R message. The POS responds with <i>Completion Code</i> "?" to prompt for a loyalty card. At this prompt, dip a card with the mag-stripe oriented the wrong way. The DPT will display "Re-Insert Card" and get stuck on this prompt. The logic was changed to redisplay the original message after the error message times out.</p> <p>25. Changed logic to set the <i>Card Swipe Count</i> to zero each time we receive a new completion code "?" in the DPT R message. This allows each card the full 3 attempts before the ANDI displays the "CARD READ ERROR" message.</p> <p>26. Added support to allow the POS to deny the DPT C command. Any <i>Completion Code</i> other than 'A' or 'W' is considered a denial. If fuel was dispensed and the <i>CardReaderPayMode</i> (DPT J command) is set to '2,' the ANDI will turn the fuel sale into a post-pay sale.</p> <p>27. This system fixes the problem with the DPT X command as reported by Flying J. This problem was introduced in GGA0800S Rev 6 and was an unintended side-effect of the fix for the problem where the CRIND would get stuck on the "Re-Insert Card" message after inserting a card incorrectly at the loyalty card prompt (second card).</p> <p>28. Assume the POS programmed the car wash options using the enhanced DPT F command that includes <i>Tax</i>, <i>Discounted Price</i> and <i>Discounted Tax</i> fields for each car wash.</p> <ol style="list-style-type: none"> a. Car Wash discount is enabled in DPT J command. b. The customer selects a carwash before fueling. c. The authorized amount is large enough for the customer to qualify for the car wash discount. <p>At this point, the dispenser should be authorized for "Authorized Amount - Discounted Price - Discounted Tax." Instead, it was authorized for "Authorized Amount - Discounted Price – Tax."</p> <p>For most sales, this does not matter; however, for prepaid card transactions, this may result in the customer not being allowed to use the full balance of the card. This has been corrected.</p> <p>29. Added support to update sale information from the dispenser each time the POS issues a DIS I command. This is done only if the POS did not issue a "Monitor Dispenser" command (DIS H) for this dispenser. It allows the POS to poll for transaction data updates.</p> <p>30. Assume following scenario:</p> <ol style="list-style-type: none"> a. Insert card b. POS responds with completion code "?" (prompt for 2nd card) c. Customer inserts 2nd card incorrectly d. CRIND displays "Re-insert Card" e. Customer inserts 2nd card correctly f. CRIND would stay at the "re-insert card" prompt until the "Timer Error Display" expired

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GGA0800S	Released 11/01/2004	<p>This problem was introduced on 9/3/04 and was a side effect of a Husky code change. The problem has been corrected. The ANDI now terminates the temporary error display immediately when a good card swipe is detected.</p> <p>31. Consider following scenario:</p> <ul style="list-style-type: none"> a. POS responds to DPT R message with a denial code (e.g. code 6 - see attendant). The DPT R message also contains a <i>Display Message</i> field (field type E). This message is displayed at the CRIND. b. POS follows up with DPT g (POS print message). The print message also contains a <i>Display Message</i> field (field type E). c. If the previous display message is still on the CRIND display when the ANDI receives the DPT g command, the 2nd display message will not be displayed. This has been corrected. <p>32. Added support for the DIS "X" (Return Transaction) command.</p>
GGA0801S	Released 01/18/ 2005	<ol style="list-style-type: none"> 1. Replaced Milwaukee Price Sign interface with the ABLE interface. 2. Added support for Price Sign Rules as defined by Wawa. 3. Fixed issue where the "Remove Nozzle" screen would appear when the "Awaiting Approval" screen should have appeared. This is tied to the <i>Operation Mode</i> field of the DPT J command (value 2). 4. Assume Able Price Sign controller is hooked up to Channel 12. When the contents of <i>Price Sign Product 9</i> (DIS O command) is set to a value other than zero, the WAWA Price Sign rules are implemented. When set to a value of zero, the Able Price Sign was disabled. The logic was changed to use the Able Price Sign like any other price sign when that value is set to zero.
GGA0802S	Released 09/06/2005	<ol style="list-style-type: none"> 1. Added support to the DIS M command for new RFID card reader values. 2. Added support for the POS to determine the origin of track data (magnetic stripe or RFID reader) by looking at the <i>Transaction Type</i> field in the DPT R and/or DPT C commands. 3. Added support to display a message at the CRIND if returned in the DPT C command (field type C). 4. Fixed cash acceptor warm start issue.
GGA0803S	Released 12/08/2005	<ol style="list-style-type: none"> 1. Added a work-around for the reported totals problems with dispenser version 70.8.9. This version was reporting illegal values in unused total records. Logic was added to skip all bad totals records.
GGA0900S	Never Released to Production	<ol style="list-style-type: none"> 1. Added support for the car wash IPT's on ANDI channel 16. 2. Updated a customer's specific graphic set to reflect new IPT monochrome prompts. 3. Removed support for the LTI Price Sign on ANDI channel 15. 4. Added support for the "E" (<i>Display</i>) field for DPT "R" messages that are approved (A) or denied (6, D, etc). The "E" field was already supported for completion codes that ask for more customer input (e.g. ?). 5. Added the Discount Rule field to the "Program Product Information" (DPT F) and "Read Product Information" (DPT G) messages. 6. Added a 15 minute timer to the Wawa price sign rules.

Version(s)	Status	Release Notes
GGA1000S	Released 09/19/2006	<ol style="list-style-type: none"> 1. Added support for an additional POS channel (ANDI channel 15). 2. Fixed issue where unexpected low level protocol handling by the POS could result in an ANDI warmstart.
GGA1001S	Released 06/12/2007	<ol style="list-style-type: none"> 1. Added support to prevent drive-off scenarios from occurring at certain points during a card reader transaction. 2. Added support for attendant cards with magnetic stripe data that contains either 5 or 8-digit attendant ID fields. 3. Added support for allowing discount rules as part of the DPT Q (DPT Authorize Card) message. 4. Fixed issue where the SSC I message (request configuration) would be sent after a warmstart. 5. Fixed issue with <i>POS Formats Receipt</i> flag that caused the printing of mixed SSC/POS receipts if the POS provided receipt text with carriage returns. 6. Fixed issue where receipt printing was not suppressed if both <i>POS Formats Receipt</i> and <i>POS Receipt Only</i> are set to 'Y' AND the POS supplied some receipt text, but less than minimum required. 7. Fixed problem that prevented the downloading of image files to FP's 25 and 26.
GGA1002S	Never Released to Production	<ol style="list-style-type: none"> 1. Rev 1: Added support for the FMD price sign. 2. Rev 1: Fixed an issue with the postpay timeout code. 3. Rev 2: Fixed a recent issue involving the FMD price sign and price changes after a warmstart.
GGA1003S	Internal QA	<ol style="list-style-type: none"> 1. Rev 1: Added support for the aggregation of five (5) discounts. 2. Rev 1: Added support for the CPT (Ryko car wash using ANDI interface).