



Allied- Generic Tokheim ANDI Systems - Release Notes

Allied Versions: **GTA0600S or newer**
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Version(s)	Status	Release Notes
GTA0600S	Released 12/09/1998	<ol style="list-style-type: none"> Includes all enhancements from previous versions. Added support for the Additech fuel additive system.
GTA0601S	Never Released to Production	<ol style="list-style-type: none"> Includes all enhancements from previous versions. Added support for Control #, Hubometer and Purchase # prompts at the DPT. 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 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). 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). Enhanced the car wash prompt mode and receipt prompt for additional prompting scenarios. See the DPT configuration command (DPT J) for additional details.
GTA0602S	Released 05/13/1999	<ol style="list-style-type: none"> Includes all enhancements from previous versions. 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 for the Tokheim Encryption Device (TED). Supports configuration of the injected prompt table to be used (default Texaco) via the "Dispenser Brand" flag in the Station Configuration command (DIS O). T= default, R= Tosco prompt table.

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GTA0603S	Never Released to Production	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Changed maximum number of digits for Vehicle # prompt from 6 to 11. 3. Added support for Preset by Volume in the DIS (authorize dispenser) and DPT R (authorize card) commands. See these commands for additional details. 4. 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.
GTA0604S	Released 04/06/2001	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Logic was changed to better handle price change failures at the dispenser. 3. Logic was enhanced to only send prices if needed. 4. Added support for new keypad type I. Please see ANDI keypad document or Generic ANDI Service Manual for layouts. 5. The ANDI now sets the following card reader configuration flags to default <ul style="list-style-type: none"> • Operation mode= 1 • 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 6. System includes the new boot loader support, which requires the ANDI to be populated with two RAM boards (Expansion/ Normal RAM slots). 7. 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. 8. Added support for PPG discounting. See DPT Authorize Card (DPT R) and Authorize Dispenser (DIS D) commands for additional details. 9. 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. 10. 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. 11. 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 arbitrary information to the sale. 12. 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). 13. 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

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		<p>allow these dispensers to be used for post-pay sales by other POS devices.</p> <p>14. 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.</p>
<p>GTA0604S (cont).</p>	<p>Released 04/06/2001</p>	<p>15. 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.</p> <p>16. The system was changed to operate as follows (regardless of the value of Card Type Selection Flag in the DPT Configuration command):</p> <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 the DPT C message with completion code set to “N” (no response expected) and Transaction Status set to ‘g’ (host unavailable). <p>17. Added support for new “Car Wash Enhanced Print” flag in the DPT Configuration command (DPT J). See the DPT J command for additional details.</p> <p>18. Added support to allow the POS to configure an individual dispenser’s slow flow volume value. Please refer to the Dispenser configuration Command (DIS M) for additional details.</p> <p>19. Added support to create a log event (SSC K) for when a printer returns to normal operation (Printer OK).</p> <p>20. Added support to display transactional specific text when supplied by the POS during a sale authorization. The provided text will display for 5 seconds.</p> <p>21. Added owning device “TS” to the dispenser status message (DIS A) when a hot authorized dispenser is denied. This allows the POS to recognized a hot authorized denial condition at the POS.</p> <p>22. 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).</p> <p>23. 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.</p>

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GTA0605S	Released 02/25/2002	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. 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.
		<ol style="list-style-type: none"> 3. 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. 4. Added support for new Download Modes F (Forced Idle) and S (Forced Timed). See the Load Program Command (SSC J) for additional details. 5. Added support for wild cards in the Log Event message. See the SSC K command for additional details. 6. Added support for Tokheim 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. 7. Modified the cash deposit prompt on the DPT from "Deposit \$xx" to "Deposit of xx". 8. Changed the prompt of "Pay After Fueling" to "Fueling" for dispensers in full service mode. 9. Added log events for "Cassette Full" and "CA Failure". 10. 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. 11. 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).
GTA0606S	Released 08/09/2002	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added support for the Citgo prompt table. The prompt table is selected by setting the "dispenser brand" flag in the Program Station Configuration command (DIS O or o) to a value of C. 3. 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). This requires that debit modules be injected with the appropriate ZIP Code prompt. 4. 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

<p>GTA0606S (cont.)</p>	<p>Released 08/09/2002</p>	<p>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).</p> <ol style="list-style-type: none"> 5. The system will now do a better job of displaying "Barcode Approved" for card-sales if barcode comes after the card-swipe. 6. Fixed support of the DPT Print command for allowing the POS to print a generic receipt at the DPT. 7. 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.
		<ol style="list-style-type: none"> 8. 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. 9. 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. 10. In an effort to prevent the problems with the DPT ignoring receipt messages, the DPT print interface was enhanced. Specifically, the number of retries for the load print buffer command was incremented from 3 to 9. In addition, to allow the DPT more time, another DPT is polled after each 3 attempts. 11. Added logic to ignore multiple scans of the same barcode within one transaction. This was done to work around the Tokheim bar code problem, where they often report the same barcode multiple times. 12. Added "Remaining Balance Disables Cash" parameter in the DPT Configuration command (DPT J). Please refer to the ANDI POS Interface Specification for additional details. This feature allows for the POS to disable or enable combined bar code with prepaid balance and cash sales. 13. Added values 3 and 4 to the attendant card mode flag in the DPT Configuration command (DPT J). Please refer to the ANDI POS Interface Specification for additional details. When set to these values, dispenser status messages, as reported by the ANDI for attendant card sales, will use owning device value 'AT'. 14. Added support for YES and NO soft keys in the "Remaining Balance Use Now?" prompt. 15. Added support for Citgo's "ENTER CUSTOMER REFERENCE #" prompt. This requires the use of a Citgo TED and the dispenser brand field to be set to "C" (Citgo). To request this prompt, the POS returns completion code 0x7B (ASCII value '{'). The ANDI will report the data in the driver field, which uses field type 0x3C ('<'). 16. 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. 17. In order to properly support all Tokheim model DPTs with 2 or 4 line displays, logic was added to force the ANDI to use the 2 line format by programming the Dispenser Model field in the Dispenser Configuration record to value '2'. 18. Addressed some misleading prompting at the end of a sale for graphic displays. In some configurations the Receipt Prompt message would redisplay briefly after answering the Receipt Prompt. This has been modified to display "One Moment Please" while waiting for the POS to return receipt data. 19. Changed logic to reduce duration of "Receipt Ready" message at the end of sale.

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		<p>20. 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>21. 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>
GTA0606S (cont.)	Released 08/09/2002	<p>22. Rebel Oil/Phillips 66 requested a change 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>23. 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>24. 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>25. 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>26. Added support to allow a POS to print a receipt or coupon at any time. Please see the DPT Print command (DPT g) for additional details.</p>
GTA0607S	Released 04/03/2003	<p>1. Program a premier dispenser to "2P" in Mode 23. Run an inside cash sale and cash out the sale. Raise the handle, press start and insert a credit card. Frequently the dispenser would not fuel. This was a side effect in systems with added discount support and has been addressed.</p> <p>2. The system was changed to work-around a Tokheim bug when doing car wash on a system where the TED is connected to a Premier-B with a 4x20 display. Upon selecting "YES" at the car wash prompt, the DPT would then display the receipt prompt, skipping over the list of car wash types. This has been fixed. The system works fine when using a TDS+ system.</p> <p>3. Enhanced logic to better deal with DPT software versions MT.QD. The MT.QD versions do not support cash, causing the system to respond with errors and the DPT to behave defectively. Changed logic so that the system will start to behave as if the dispenser configuration parameter "DPT Cash Acceptor" was set to "NO."</p> <p>4. Added support for the "Fuel Flow Halted" timer.</p> <p>5. Added support for a second DPT channel (ANDI channel 8). This was done to work around a Tokheim TED problem where the TED starts NAK'ing all messages sent by the ANDI if too many DPT's are connected to the same TED.</p> <p>6. When using certain "Car Wash Prompt Mode" values, there was a problem where the ANDI did not subtract the car wash price from the authorized amount to determine the dispenser preset amount. The dispenser would be authorized for the entire amount. This has been changed.</p> <p>7. When determining the dispenser preset amount after selecting a car wash, we</p>

<u>Version(s)</u>	<u>Status</u>	<p>did not properly account for the car wash discount. If the full amount is dispensed and the customer is eligible for a car wash discount, we should subtract the discounted car wash price instead of the full car wash price.</p> <p style="text-align: center;">Release Notes</p>
GTA0607S (cont.)	Released 04/03/2003	<p>8. Added “DPT xx Link Up” and “DPT xx Link Down” log event messages. Logic was also changed to use the proper values for the “Event Nature” field (w = DPT Link Down, x = DPT Link Up).</p> <p>9. 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.</p> <p>10. The DPT “DN” (Display Now) command allows up to 80 characters of display data. For a Premier C with graphics screen, the ANDI was always prefixing the display text with a blank line. When the original text exceeds 60 characters, this would put us over the maximum of 80 characters. The DPT would return command error code “erdn602” and leave us with a blank screen. This problem happened when the POS issued a DPT “X” command with a 4-line prompt message. The logic was changed to prevent exceeding the 80 character limit and only add a blank line if there is room within the 80 character limit to add a blank line.</p> <p>11. A scenario was identified where breaking the dispenser com link (ANDI channel 5) after the dispenser was authorized and then pressing CANCEL at the DPT would cause a looping condition. The DPT display would toggle between “One Moment Please” and “Insert Card.” The logic was changed so that the DPT will now move on to display the “Dispenser Unavailable” screen.</p> <p>12. It was felt that a “Display Field” (field type E) returned with the DPT “g” message was not displayed long enough. When printing on a Tokheim device, the ANDI programs 3 display screens (print header – print body – print trailer). The code before was putting the POS message in screens 1 and 2. The logic was changed to display the POS message for all 3 screens. This should extend the timer. The timers are enforced by the Tokheim DPT and cannot be altered by the ANDI.</p> <p>13. Fixed a problem where an old print display returned on the display for the next transaction. Logic was added to delete the POS message after it is loaded into the “Print Display” buffers.</p> <p>14. Fixed a problem in the car wash logic if the carwash menu screen exceeds 79 characters. Some DPT/IPT versions will reject commands that exceed 79 characters of display text. The code was changed to truncate the display text to 79 characters if it is too long (both for DPT and IPT).</p>
GTA0608S	Released 06/27/2003	<p>1. Fixed issue with Tokheim keypad types 4 and 5 where the logic would define a double wide “0” key and no “ENTER” key.</p> <p>2. Fixed issue with the Tokheim dispenser waiting for the DPT to respond to a “Hard Reset” request. The response never came and the DPT was out of commission. The ANDI was trying to recover after a time-out expired, it would however only try once after the response timer expired. If that attempt failed we would not retry again and it would take an ANDI cold-start to clear that condition. The code was restructured to continually retry after the original “Hard Reset” timer expires.</p> <p>3. Fixed issue of sometimes displaying the "Remove Card" prompt when not appropriate. Apparently, this happened most frequently if a card was dipped at the "Thank You Receipt Ready" prompt.</p> <p>4. Added logic to check for an increase in totals before reporting a sale. This fixes a problem that occurred with a faulty handle switch on a Krause head. The</p>

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		<p>switch would go through a series of state transitions which made the ANDI think a sale had occurred.</p> <p>5. Added a station-wide volume limit flag to the Station Wide Configuration (DIS "O") command.</p>
GTA0609S	Released 01/18/2005	<p>1. This version includes the NTEP rules, which are as follows:</p> <p>a. If a dispenser with an active credit sale (inside or out) goes off-line for more than 10 seconds, back on-line the sale is stopped when the dispenser comes back on-line.</p> <p>b. 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.</p> <p>2. Added support for the DIS "X" (Return Transaction) command.</p> <p>3. Fixed cash acceptor warm start issue.</p>
GTA0610S	Released 07/21/2006	<p>1. Addressed the \$.01 under-run experienced on ARCO Tokheim systems.</p>
GTA0700S	Never Released to Production	<p>1. Fixed issue where unexpected low level protocol handling by the POS could result in an ANDI warmstart.</p>
GTA0701S	Released 11/21/2006	<p>1. Made a change to allow the CANCEL key to cancel the prompt response in all conditions and not just when MIN Keys = 0. A DPT X response is returned.</p> <p>2. Addressed a timing issue that was causing errors if the DPT did not reset the keypad before another keypad command was issued.</p> <p>3. Fixed issue where the CANCEL response would be reported twice at the "Get PIN or No" prompt.</p> <p>4. Fixed issue that caused the SSC 'I' (request config) message to be sent after a warm start even if configuration had been programmed.</p>
GTA0702S Rev 1	Released 11/16/2007	<p>1. Fixed an issue that occurred using "Enter PIN or Press NO." The symptom is that the NO key sometimes reports as CANCEL for prompts (such as Receipt Yes/No) after an "Enter PIN or Press NO" prompt. This issue was originally fixed in February 2002 and restored in April 2006.</p> <p>2. Added support for the FMD price sign on ANDI channel 12.</p>
GTA0702S Rev 2	N/A	<p>1. Added support for the aggregation of five (5) discounts.</p> <p>2. Added support for the CPT (Ryko car wash using ANDI interface)</p>
GTA0703S	N/A	<p>1. Addressed issue with malformed DPT R messages sent to the EPT by the SSC.</p> <p>2. Fixed issue where DPT #32 was not supported.</p> <p>3. Fixed issue where a price change would be sent to a reserved dispenser followed by a DPT authorization with a PPG discount. The PPG discount would be applied against the new PPG as opposed to the original PPG.</p>