

Allied- Unattended ANDI Systems- Release Notes

Allied Versions: WxA0500S or newer
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Submitted by: Jack Dickinson, Allied Electronics, Inc.

Wayne Systems

Version(s)	Status	Release Notes
WWA0500S	Released c.1997	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added the software download feature.
WWA0501S	Released 09/02/1997	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added a change on the receipt for the "change due" field to make it more visible to the customer. 3. Added support for the TLS 350 device.
WWA0502S	Released 07/24/1998	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Modified the default to no longer prompt for Change Due at the dispensers. 3. All texts were changed from "Fuel Due" to "Change Due". 4. Receipt format for change due is now located following the receipt header. 5. Modified the end of sale message. Now it instructs the customer to enter change due codes at the change back machine. 6. 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). 7. Added keypad types A, B, C, D, and E. Please see ANDI keypad document or Generic ANDI Service Manual for layouts.
WWA0503S	Released 11/06/1998	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Changed the wording of the 'help' message to instruct the customer to see the pump topper or the emergency telephone located at the change due machine, per Gary Williams. 3. If customer presses the ENTER key at IDLE prompt, the system will prompt the customer to enter the "change Due" code.

Version(s)	Status	Release Notes
WWA0504S	Released 09/01/1999	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Enhanced the logic to better handle POS systems that monitor all active pumps at the same time. 3. 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. 4. Added support for Preset by Volume in the DIS D (authorize dispenser) and DPT R (authorize card) commands. See these commands for additional details. 5. 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. 6. Added support to create a log event (SSC K) for when a printer returns to normal operation (Printer OK). 7. Added support to display transactional specific text when supplied by the POS during a sale authorization. The provided text will display for 5 seconds.
WWA0505S	Released 07/30/2001	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added support for PPG discounting. See DPT Authorize Card (DPT R) and Authorize Dispenser (DIS D) commands for additional details. Requires PIB version 39000 or newer and CPU version 49.37 or newer in the Wayne Electronic Central. 3. System includes the new boot loader support, which requires the ANDI to be populated with two RAM boards (Expansion/ Normal RAM slots). 4. Logic was changed to only send prices if needed. 5. Enhanced the ANDI 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. 6. Added a new keypad to the ANDI system, value 9. Please see ANDI keypad document or Generic ANDI Service Manual for layouts. 7. Added a new keypad to the ANDI system, value G. 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. 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. 10. 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. 11. Enhanced the PIB interface to allow the ANDI to set mode 18 (product to hose assignment), mode 03 (product to tank assignment), and mode 17/ sub mode 6 (blend configuration for grade 6). This removes the need for a Wayne decade 2400 console during a stations startup. 12. The ANDI code was enhanced to add a checksum to the config. record. When the record is found to be invalid, ANDI requests a copy from the Decade 2400.

Version(s)	Status	Release Notes
WWA0505S (cont.)	Released 07/30/2001	<p>13. Existing ANDI systems reports the dispenser version as 6 characters. These 6 characters are the last 6 characters from the Wayne configuration record. The entire Wayne configuration record consists of 10 characters. The ANDI code was changed to report all 10 characters in the dispenser version field.</p> <p>14. Lab testing revealed that the ANDI would send a 'g' command (write grade at pump positions) to each dispenser that was reported as being offline by the PIB. This may have been introduced by the new 'program PIB values' enhancement mentioned above. This did not cause any problems other than adding unnecessary communication overhead. The logic was changed to no longer repeat the 'g' command under this condition. Repeating this command is not necessary, because the PIB is online and is responsible to forward that information to the dispenser.</p> <p>15. When programming blend-ratios in the PIB the ANDI was using the ratio of the first pure product of a blended product in GWA0609S revision 02. Most existing Wayne blender sites have the system configured with low stock-feed as the first pure product and the high stock-feed as the second pure product. It turns out that the Wayne PIB requires programming to be a percentage of the high stock-feed product. This required the site configuration to be changed to program high stock-feed as first product. To prevent having to change ANDI configuration at existing sites when upgrading ANDI software, the code was changed to program the PIB using the ratio of the second pure product. Please note that because of this change, locations with GWA0609S Rev 2 or Rev 3 and locations with SWN0202S will have to change their configurations back to "standard" Allied programming guidelines after upgrading to the next version Allied code.</p> <p>16. 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>17. 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> <p>18. The CAT/ Cash acceptor interface was enhanced. If the ANDI received an error with regards to the cash acceptor, the system would try to alleviate the problem by reconfiguring the device. This created the possible scenario where the ANDI would continuously try to reconfigure and cause sluggish communications.</p>

Version(s)	Status	Release Notes
WWA0506S	Released 02/14/2003	<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 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). 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. 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. 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. 11. 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. 12. 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'. 13. Added support for Citgo's "ENTER CUSTOMER REFERENCE #" prompt. 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 ('<'). 14. 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. 15. Changed logic to reduce duration of "Receipt Ready" message at the end of sale.

Version(s)	Status	Release Notes
WWA0506S (cont.)	02/14/2003	<p>16. 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>17. 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>18. 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>19. 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>20. 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>21. 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>22. Added an enhancement related to the authorize member command and remaining balances. If a DPT 'I' response (authorize member) is approved with a remaining balance, the customer will be prompted to use that balance, irrespective of the setting of the 'Use As Payment' flag in the authorization.</p> <p>23. Added additional customer selection screens with regards to the authorize member message and the value set in the 'Use As Payment' flag. If the member number is entered via a card swipe, the 'Use As Payment' flag is set to YES, and:</p> <ol style="list-style-type: none"> a. There is no remaining balance, OR b. The customer has chosen not to use the remaining balance <p>The customer will be prompted to use the card as payment. If the customer selects YES for payment, a DPT R message is sent to the POS with track data. If NO is selected, the customer is prompted to insert another form of payment (card or cash).</p> <p>24. Addressed issue reported by SmartEcho regarding member cards being denied. The member card gets denied outside but does not prompt the denial message at the CAT. The next customer uses his member card and it is approved, however, the CAT will prompt the denial message from the previous customer.</p> <p>25. Changed logic to try and do a better job for 2-line displays when configuring a system for member ID and/or barcode. Formerly, some words would be truncated.</p>

Tokheim Systems

Version(s)	Status	Release Notes
WTA0500S	Released 08/11/2000	<ol style="list-style-type: none"> 1. Initial Release of Unattended Tokheim ANDI system. Includes all enhancements included in WWA0504S and earlier systems.
WTA0501S	Released 05/16/2001	<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 values if the specified value is unknown for the particular parameter: <ol style="list-style-type: none"> 26. Operation mode= 1 27. Receipt prompt mode= N 28. DPT preset mode= N 29. Report calling as idle= 0 30. Report idle as calling= 1 31. Car wash prompt mode= N 32. Attendant card mode= 0 33. Cash acceptor Pay mode= 0 34. Card type selection mode= 0 6. 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. 7. Added support for PPG discounting. See DPT Authorize Card (DPT R) and Authorize Dispenser (DIS D) commands for additional details. 8. Enhanced the ANDI 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. 9. 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. 10. 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. 11. 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). 12. 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.
		<ol style="list-style-type: none"> 13. 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

		<p>DPT J command for additional details.</p> <ol style="list-style-type: none"> 14. 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. 15. The system was changed to operate as follows (regardless of the value of Card Type Selection Flag in the DPT Configuration command): <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). 16. Added support for new “Car Wash Enhanced Print” flag in the DPT Configuration command (DPT J). See the DPT J command for additional details. 17. 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. 18. Added support to create a log event (SSC K) for when a printer returns to normal operation (Printer OK). 19. Added support to display transactional specific text when supplied by the POS during a sale authorization. The provided text will display for 5 seconds. 20. 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. 21. 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). 22. 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.
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Version(s)	Status	Release Notes
WTA0600S	Released 02/08/2002	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added support for member mode/ card lock operation. Please refer to the DPT Configuration (DPT J) and DPT Authorize Customer (DPT I) commands for additional details. Also reference Allied Unattended Operation specification addendum for additional details. 3. 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. 4. 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: <ol style="list-style-type: none"> 3. @= Hot authorization. 4. W= Keep waiting for authorization. 5. >= Accepted, POS will authorize dispenser. 6. A= Accepted/ authorized. 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. Modified the cash deposit prompt on the DPT from "Deposit \$xx" to "Deposit of xx". 9. Added log events for "Cassette Full" and "CA Failure". 10. Added "Msg Not Processed" log event messages for Barcode Authorization messages (DPT d) which are not applied. (e.g. ANDI not waiting for Barcode Auth response message).
WTA0601S	Released 5/03/2002	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. 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. 3. 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. 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 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.
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Version(s)	Status	Release Notes
WTA0601S (cont.)	Released 5/3/2002	<ol style="list-style-type: none"> 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). this requires that debit modules be injected with the appropriate ZIP Code prompt. 8. 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). 9. The system will now do a better job of displaying "Barcode Approved" for card-sales if barcode comes after the card-swipe. 10. Fixed support of the DPT Print command for allowing the POS to print a generic receipt at the DPT. 11. 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.
WTA0602S	Internal QA	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added an enhancement related to the authorize member command and remaining balances. If a DPT 'I' response (authorize member) is approved with a remaining balance, the customer will be prompted to use that balance, irrespective of the setting of the ‘Use As Payment’ flag in the authorization. 3. Added additional customer selection screens with regards to the authorize member message and the value set in the ‘Use As Payment’ flag. If the member number is entered via a card swipe, the ‘Use As Payment’ flag is set to YES, and: <ol style="list-style-type: none"> a. There is no remaining balance, OR b. The customer has chosen not to use the remaining balance <p>The customer will be prompted to use the card as payment. If the customer selects YES for payment, a DPT R message is sent to the POS with track data. If NO is selected, the customer is prompted to insert another form of payment (card or cash).</p>

Gilbarco Systems

Version(s)	Status	Release Notes
WGA0500S	Never Released to Production	<ol style="list-style-type: none"> 1. Initial Release of Unattended Gilbarco ANDI system. Includes all enhancements included in WWA0501S and earlier systems.
WGA0501S	Never Released to Production	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. 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).

Wayne Direct Systems

Version(s)	Status	Release Notes
WDA0500S	Internal QA	<ol style="list-style-type: none"> 1. Initial version of the Unattended software with support for the Wayne Direct Interface. 2. Changed the logic as follows: For a Gary Williams system, if keyboard type "8" is selected (the Gary Williams keyboard), the CAT displays "Press Enter To Fuel." For all other keyboards the CAT now displays "Press Yes To Fuel." For all keyboards, both the YES and ENTER keys are accepted at this prompt and processed the same way. This system was built using the latest v1.14 Wayne Direct updates (same as GDA0100S Rev 19). 3. Added support for up to 30 dispensers. 4. For non-DUKPT systems, CAT 30 is not usable. It is reserved for the MSM. 5. After a transaction is run at the non-default price, the default prices are redisplayed at the dispenser upon completion of the transaction. However, the sales display is NOT cleared. 6. Added a volume limit to the station-wide (DIS 'O') message. This is a 7 byte field, numeric, with 3 decimal places. It's default is 0. 7. Added a volume preset field to the Barcode (DPT 'd') response. It uses the same field code and format as the volume preset in other DPT response messages such as the DPT 'R'. 8. Fixed a Wayne Dispenser bug. If a dispenser has cash/credit select buttons (and therefore separate cash/credit windows per product), only the default prices would be displayed after a sale. 9. Slowed down the dispenser poll rate. 10. Enhanced log event message for blend ratio errors so that the log event contains the actual blend ratio. 11. If a sale is stopped with the handle up and a pulse has not been detected, a status of "3" (calling) will be reported as opposed to a status of "7" (suspended) until the nozzle is replaced. 12. Added keypad type "J" to the Generic Wayne interface. 13. Fixed issue with tiered pricing (different cash/credit prices) where it was possible to lose track of the MOP at the dispenser and cause the ANDI to misreport the correct MOP, prices, and amounts to the POS. 14. Fixed issue with debit not working when using the master key/session key method of encryption. The pin code was being rejected by the host due to the ANDI passing invalid PIN data. This was a byproduct of the MSM II (Canadian Debit) implementation.