

Allied- ARCO ANDI Systems- Release Notes

Allied Versions: **RxA0632S or newer**
Report Date: March 3, 2006
Submitted by: Bob Danford, Allied Electronics, Inc.

Wayne Systems

Version(s)	Status	Release Notes
RWA0632S	Released 06/26/2000	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Fixed problem with allowing unlimited attempts for PIN code at the PIC. Now the sale will be cancelled after 3 failed attempts. 3. Fixed problem with displaying "Can't Process PIN" if session key changes at the same time the customer is prompted to enter a PIN code. 4. Changed logic to go ahead and use the dispenser max preset volume when the POS specified preset volume exceeds the dispenser max preset volume. Formerly we would return a range error.
RWA0640S	Released 10/24/2000	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added support for Gas Rewards Vouchers at the dispenser.
RWA0650S	Released 06/27/2003	<ol style="list-style-type: none"> 1. Added support for DUKPT encryption. 2. Added support to enable/disable credit and debit by fueling point. 3. Includes all enhancements from previous versions. 4. Change logic to no longer print the Receipt Header lines and Receipt Trailer lines on the Armored Car report. The POS now defines the report in its entirety. 5. Changed logic to no longer show "Insert Card" messages at the dispenser when the card host is down (ARCO doesn't accept any cards when the host is down). This may be overridden by the Card Host Store/Forward setting in the DPT Configuration command and it is also overridden if Attendant Cards are enabled. 6. With debit enabled and credit disabled after entering the pump number, the PIC would display: <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> <p>PUMP # 1 INSERT BILL OR USE ANOTHER TERMINAL FOR CARDS</p> </div> <div style="text-align: center;"> <p>POMPA # 1 INSERTE EN EFECTIVO O USE OTRA TERMINAL PARA TARJETA</p> </div> </div> <p style="margin-top: 10px;">If credit was enabled at the PIC, we would no longer display that screen. The logic was changed to show that screen always if the host is down (same exceptions as under item 5).</p>

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RWA0650S	Released 6/27/2003	<p>7. Added support for the screens below. A "PRESS CANCEL" reminder was added in case customer wants to use another PIC (otherwise the dispenser remains in the RESERVED state).</p> <table border="0" data-bbox="553 338 1396 808"> <tr> <td data-bbox="553 338 901 472"> PUMP # 1 INSERT BILL OR PRESS CANCEL TO USE A CARD AT ANOTHER TERMINAL </td> <td data-bbox="1073 338 1396 472"> POMPA # 1 INSERTE BILLETE O CANCEL PARA USO DETARJETA EN OTRA TERMINAL </td> </tr> <tr> <td data-bbox="553 506 901 640"> PUMP # 1 INSERT CARD OR PRESS CANCEL TO USE CASH AT ANOTHER TERMINAL </td> <td data-bbox="1073 506 1396 640"> POMPA # 1 INSERTE TARJETA O CANCEL PARA USO EFFECTIVO EN OTRA TERMINAL </td> </tr> <tr> <td data-bbox="553 674 901 808"> PUMP # 1 INSERT BILL ATM/DEBIT DOWN CAN'T ACCEPT CARDS </td> <td data-bbox="1073 674 1396 808"> POMPA # 1 INSERTE BILLETE TARJETA DE BANCO FUERA DE SERVICIO </td> </tr> </table> <p>8. Addressed a potential issue with the <i>Program DPT Display Prompt</i> message (group DPT, command M). If the POS programs a Display Text with a Display Text Number that is one larger than the maximum supported in that system, the ANDI would write the data after the end of the file and thus corrupt ANDI memory.</p> <p>9. Added a volume limit to the station-wide (DIS 'O') message. This is a 7 byte field, numeric, with 3 decimal places. Its default is 0.</p> <p>If the limit is programmed, it will limit the maximum volume of ALL transactions.</p>	PUMP # 1 INSERT BILL OR PRESS CANCEL TO USE A CARD AT ANOTHER TERMINAL	POMPA # 1 INSERTE BILLETE O CANCEL PARA USO DETARJETA EN OTRA TERMINAL	PUMP # 1 INSERT CARD OR PRESS CANCEL TO USE CASH AT ANOTHER TERMINAL	POMPA # 1 INSERTE TARJETA O CANCEL PARA USO EFFECTIVO EN OTRA TERMINAL	PUMP # 1 INSERT BILL ATM/DEBIT DOWN CAN'T ACCEPT CARDS	POMPA # 1 INSERTE BILLETE TARJETA DE BANCO FUERA DE SERVICIO
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RWA0651S	Released 08/07/2003	<p>1. 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.</p>						
RWA0660S	Internal QA	<p>1. Includes all enhancements from previous versions.</p> <p>2. Added support to not show Car Wash prices at the PIC if so configured at the MSI Back Office.</p> <p>3. Added support for Transaction Fee prompting at the dispenser (CAT).</p> <p>This is how it was implemented:</p> <p style="text-align: center;">Wayne 2 line display (2 x 16)</p> <p style="text-align: center;">Trans Fee \$0.35 Accept? Yes/No</p>						

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RWA0660S (cont.)	Internal QA	Wayne graphics display (4 x 21) A transaction fee of \$0.35 will be added. Accept: Press YES Cancel: Press NO
RWA0661S	Released 03/01/2005	<ol style="list-style-type: none"> 1. Changed logic to beep once if the MSM goes offline. 2. MSM Menu: Added <i>MSM/DSM Revision Number</i> and <i>MSM/DSM Revision Date</i> to display options. 3. Added support for DSM (translate Wayne DUKPT to ARCO DUKPT). 4. Replaced "Card Read Error Try Again" when a customer first dips a card with "Remove Card Quickly."
RWA0670S	Never Released to Production	<ol style="list-style-type: none"> 1. Added support for "Insight Coupon" via the DPT L message. This coupon can be printed at the card reader as well as the Schlumberger PIC. 2. Added support to allow an '!' at the start of the 'p' field in DPT C and DPT B messages followed by ID: CC SSSS TTTTTT.
RWA0671S	Released 05/19/2006	<ol style="list-style-type: none"> 1. Changed logic to first load all coupon data and receipt data, and then issue a print command in order to prevent the delay between printing the receipt and the coupon. 2. Addressed some field beta issues with the "Insight Coupon" functionality and "cleaned up" internal code. 3. Fixed "card take over" scenario at the CAT. 4. Fixed issue where discounts given by <i>Discount Rule 1</i> and <i>Discount Rule 2</i> print on the DPT receipt but not on the PIC receipt. 5. Fixed issue where a preset sale authorized with <i>Discount Rule 2</i> would not permit the dispenser to fuel the maximum allowed amount. 6. Added support for the PIC to support Discount Rules when authorizing the dispenser.
RWA0680S	Internal QA	<ol style="list-style-type: none"> 1. Added logic to delete old receipt information once a dispenser goes go a "fueling" status. 2. Per Rick Valles, changed the minimum timer values for <i>Timer Await Remove Nozzle</i> and <i>Timer Await Begin Fueling</i> from 30 to 60 seconds. If the POS sends a lesser value for these timers, the ANDI will use 60 seconds. 3. Fixed a problem with the "Transaction Fee" prompt not working for CRIND keyboards that have one physical key for both the ENTER key and the YES key. 4. Fixed issue with PIN retries.

Version(s)	Status	Release Notes
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Tokheim Systems

Version(s)	Status	Release Notes
RTA0632S	Released 06/26/2000	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Fixed problem with allowing unlimited attempts for PIN code at the PIC. Now the sale will be cancelled after 3 failed attempts. 3. Fixed problem with displaying "Can't Process PIN" if session key changes at the same time the customer is prompted to enter a PIN code. 4. Changed logic to go ahead and use the dispenser max preset volume when the POS specified preset volume exceeds the dispenser max preset volume. Formerly we would return a range error. 5. Built using latest version of the boot-loader (V4.4).
RTA0650S	Released 06/27/2003	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Fixed an issue with hot-auth where the CRIND could get stuck at the "one moment please" display while the customer would be able to fuel. 3. Added support for Change Due and Cash Back Machines. ARCO's requirement was to simply print the Change Due code on the customer receipt. No support is provided to allow the customer to enter a code at the CRIND. 4. Added logic to ignore card data from the PIC if we already have track data. Trace files from the field seemed to indicate that sometimes the PIC will report track data twice. 5. Added support for new "Car Wash Enhanced Print" flag in the DPT Configuration message (DPT J). 6. Added support for DUKPT encryption. 7. Added support to Enable/Disable Credit and Debit by Fueling Point 8. Added support for a second DPT channel (CH-8). This works around Tokheim TED problems on sites with lots of fueling points. The TED gets into trouble if too many DPTs are connected to one TED. 9. Change logic to no longer print the Receipt Header lines and Receipt Trailer lines on the Armored Car report. The POS now defines the report in its entirety. 10. Changed logic to no longer show "Insert Card" messages at the dispenser when the card host is down (ARCO doesn't accept any cards when the host is down). This may be overridden by the Card Host Store/Forward setting in the DPT Configuration command and it is also overridden if Attendant Cards are enabled. 11. With debit enabled and credit disabled after entering the pump number, the PIC would display: <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: left;"> <p>PUMP # 1 INSERT BILL OR USE ANOTHER TERMINAL FOR CARDS</p> </div> <div style="text-align: left;"> <p>POMPA # 1 INSERTE EN EFECTIVO O USE OTRA TERMINAL PARA TARJETA</p> </div> </div> <p style="margin-top: 10px;">If credit was enabled at the PIC, we would no longer display that screen. The logic was changed to show that screen always if the host is down (same exceptions as under item 10).</p> 12. Added support for the screens below. A "PRESS CANCEL" reminder was added in case customer wants to use another PIC (otherwise the dispenser

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RTA0650S (cont.)	Released 06/27/2003	<p>remains in the RESERVED state).</p> <table border="0" data-bbox="553 243 1393 709"> <tr> <td data-bbox="553 243 899 373"> PUMP # 1 INSERT BILL OR PRESS CANCEL TO USE A CARD AT ANOTHER TERMINAL </td> <td data-bbox="1073 243 1393 373"> POMPA # 1 INSERTE BILLETE O CANCEL PARA USO DETARJETA EN OTRA TERMINAL </td> </tr> <tr> <td data-bbox="553 411 899 541"> PUMP # 1 INSERT CARD OR PRESS CANCEL TO USE CASH AT ANOTHER TERMINAL </td> <td data-bbox="1073 411 1393 541"> POMPA # 1 INSERTE TARJETA O CANCEL PARA USO EFFECTIVO EN OTRA TERMINAL </td> </tr> <tr> <td data-bbox="553 579 899 709"> PUMP # 1 INSERT BILL ATM/DEBIT DOWN CAN'T ACCEPT CARDS </td> <td data-bbox="1073 579 1393 709"> POMPA # 1 INSERTE BILLETE TARJETA DE BANCO FUERA DE SERVICIO </td> </tr> </table> <p>13. Addressed a potential issue with the <i>Program DPT Display Prompt</i> message (group DPT, command M). If the POS programs a Display Text with a Display Text Number that is one larger than the maximum supported in that system, the ANDI would write the data after the end of the file and thus corrupt ANDI memory.</p> <p>12. Added a volume limit to the station-wide (DIS 'O') message. This is a 7 byte field, numeric, with 3 decimal places. Its default is 0.</p> <p>If the limit is programmed, it will limit the maximum volume of ALL transactions.</p>	PUMP # 1 INSERT BILL OR PRESS CANCEL TO USE A CARD AT ANOTHER TERMINAL	POMPA # 1 INSERTE BILLETE O CANCEL PARA USO DETARJETA EN OTRA TERMINAL	PUMP # 1 INSERT CARD OR PRESS CANCEL TO USE CASH AT ANOTHER TERMINAL	POMPA # 1 INSERTE TARJETA O CANCEL PARA USO EFFECTIVO EN OTRA TERMINAL	PUMP # 1 INSERT BILL ATM/DEBIT DOWN CAN'T ACCEPT CARDS	POMPA # 1 INSERTE BILLETE TARJETA DE BANCO FUERA DE SERVICIO
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RTA0651S	Released 10/14/2003	<p>1. Addressed an issue with Tokheim 262 A model dispensers. Sometimes when reading totals after a legitimate sale, the dollar total amount would not increase (dispenser bug?). This would cause the ANDI to ignore the sale and re-authorize the dispenser. Logic was changed to recognize the sale as a valid sale if the dollar total amount increases or if the volume total increases by at least 0.005 Gallons.</p>						
RTA0660S	Released 02/15/2005	<p>1. Added support to not show Car Wash prices at the PIC if so configured at the MSI Back Office.</p> <p>2. Changed logic to not continually check for graphics files if we get a fatal error from RFA. Receiving a DPT J message will cause the ANDI to retry the graphics.</p> <p>3. Added support for Transaction Fee prompting at the dispenser (DPT).</p> <p style="text-align: center;">This is how it was implemented: Tokheim 2 line display (2 x 20)</p> <p style="text-align: center;">Trans Fee \$0.35 Accept? Yes or No</p>						

Version(s)	Status	Release Notes
RTA0660S (cont.)	Released 02/15/2005	<p style="text-align: center;">Tokheim 4 line display (4 x 20)</p> <p style="text-align: center;">A transaction fee of \$0.35 will be added. Accept: Press YES Cancel: Press NO</p> <p style="text-align: center;">Tokheim : Graphics display</p> <p style="text-align: center;">A transaction fee of \$0.35 will be added.</p> <p style="text-align: center;">< Accept < Cancel</p> <p>4. Includes all enhancements from previous versions.</p>
RTA0670S	Never Released to Production	<ol style="list-style-type: none"> 1. Added support for "Insight Coupon" via the DPT L message. This coupon can be printed at the card reader as well as the Schlumberger PIC. 2. Added support to allow an '!' at the start of the 'p' field in DPT C and DPT B messages followed by ID: CC SSSS TTTTTT.
RTA0671S	Released 05/19/2006	<ol style="list-style-type: none"> 1. Changed logic to first load all coupon data and receipt data, and then issue a print command in order to prevent the delay between printing the receipt and the coupon. 2. Addressed some field beta issues with the "Insight Coupon" functionality and "cleaned up" internal code. 3. Fixed issue where discounts given by <i>Discount Rule 1</i> and <i>Discount Rule 2</i> print on the DPT receipt but not on the PIC receipt. 4. Fixed issue where a preset sale authorized with <i>Discount Rule 2</i> would not permit the dispenser to fuel the maximum allowed amount. 5. Added support for the PIC to support Discount Rules when authorizing the dispenser.
RTA0680S	Internal QA	<ol style="list-style-type: none"> 1. Added logic to delete old receipt information once a dispenser goes go a "fueling" status. 2. Per Rick Valles, changed the minimum timer values for <i>Timer Await Remove Nozzle</i> and <i>Timer Await Begin Fueling</i> from 30 to 60 seconds. If the POS sends a lesser value for these timers, the ANDI will use 60 seconds. 3. Fixed a problem with the Transaction Fee prompt not working for CRIND keyboards that have one physical key for both the ENTER key and the YES key. 4. Fixed issue with PIN retries.

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Gilbarco Systems

Version(s)	Status	Release Notes
RGA0632S	Released 06/12/2000	<p>Includes all enhancements from previous versions.</p> <p>Fixed problem with allowing unlimited attempts for PIN code at the PIC. The sale will now be cancelled after 3 failed attempts.</p> <p>Fixed problem with displaying "Can't Process PIN" if session key changes at the same time the customer is prompted to enter a PIN code.</p> <p>Changed logic to go ahead and use the dispenser max preset volume when the POS specified preset volume exceeds the dispenser maximum preset volume. Formerly, the ANDI would return a range error.</p> <p>Built using latest version of the boot-loader (V4.4).</p>
RGA0640S	Released 10/26/2000	<p>Includes all enhancements from previous versions.</p> <p>A minor issue was fixed with Gas Rewards Voucher prompts on a Gilbarco single line display.</p> <p>Added support for Gas Rewards prompts at the CRIND (Voucher # and Key Code #).</p> <p>Display car-wash prices at CRIND display.</p> <p>Uses latest graphics files, where the wording on a few graphics were enhanced (Debit/ATM instead of Debit).</p> <p>Enhanced graphics to add "Welcome To ARCO" to some opening screens.</p> <p>Per ARCO's request, the wording at the CRIND was changed from "Do you have a voucher?" to "Gas Rewards Voucher?".</p> <p>A change was made to support ARCO's requirement of having "debit only" screens at the CRIND. This is done by turning off credit in the MSI back-office (DPT configuration – DPT Credit flag). Formerly this was accomplished by have two sets of graphics files (one for no-credit and one for credit-debit). We now use one set of graphics files, the SSC software selects a proper screen based on the DPT configuration.</p> <p>Enhanced the card reader interface to use the improved CRIND polling scheme.</p>
RGA0650S	Released 06/27/2003	<p>1. Includes all enhancements from previous versions.</p> <p>Added support for a DPT Configuration parameter to allow credit cards to be accepted at the PIC, at the CRIND, both at PIC and CRIND or to disable outside credit. A similar parameter exists for debit cards.</p> <p>Added support for Change Due and Cash Back Machines. Per ARCO's requirement, this was implemented the same way as our Gary Williams systems with the MSI system controlling the Cash Back Machine. ARCO's requirement was to print the Change Due code on the customer receipt. No support is provided to allow the customer to enter a code at the CRIND.</p> <p>Added logic to ignore card data from the PIC if we already have track data. Trace files from the field seemed to indicate that sometimes the PIC will report track data twice.</p> <p>Added support for DUKPT encryption for both PIC and DPT. To support DUKPT at the PIC, one has to set switch # 2 of SW1 in the SAM to ON ("Enable DUKPT Encryption").</p> <p>Added support to enable/disable credit and debit by fueling point.</p> <p>Change logic to no longer print the Receipt Header lines and Receipt Trailer lines on the Armored Car report. The POS now defines the report in its entirety.</p> <p>Changed logic to no longer show "Insert Card" messages at the dispenser when the card host is down (ARCO doesn't accept any cards when the host is down). This may be overridden by the Card Host Store/Forward setting in the DPT</p>

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<p>RGA0650S (cont.)</p>	<p>Released 06/27/2003</p>	<p>Configuration command and it is also overridden if Attendant Cards are enabled.</p> <p>9. With debit enabled and credit disabled after entering the pump number, the PIC would display:</p> <table data-bbox="511 346 1356 472"> <tr> <td>PUMP # 1</td> <td>POMPA # 1</td> </tr> <tr> <td>INSERT BILL</td> <td>INSERTE EN EFECTIVO</td> </tr> <tr> <td>OR USE ANOTHER</td> <td>O USE OTRA TERMINAL</td> </tr> <tr> <td>TERMINAL FOR CARDS</td> <td>PARA TARJETA</td> </tr> </table> <p>If credit was enabled at the PIC, we would no longer display that screen. The logic was changed to show that screen always if the host is down (same exceptions as under item 8).</p> <p>10. Added support for the screens below. A "PRESS CANCEL" reminder was added in case customer wants to use another PIC (otherwise the dispenser remains in the RESERVED state).</p> <table data-bbox="552 777 1396 913"> <tr> <td>PUMP # 1</td> <td>POMPA # 1</td> </tr> <tr> <td>INSERT BILL OR PRESS</td> <td>INSERTE</td> </tr> <tr> <td>CANCEL TO USE A CARD</td> <td>BILLETE O CANCEL</td> </tr> <tr> <td>AT ANOTHER TERMINAL</td> <td>PARA USO DETARJETA</td> </tr> <tr> <td></td> <td>EN OTRA TERMINAL</td> </tr> </table> <table data-bbox="552 945 1388 1081"> <tr> <td>PUMP # 1</td> <td>POMPA # 1</td> </tr> <tr> <td>INSERT CARD OR PRESS</td> <td>INSERTE</td> </tr> <tr> <td>CANCEL TO USE CASH</td> <td>TARJETA O CANCEL</td> </tr> <tr> <td>AT ANOTHER TERMINAL</td> <td>PARA USO EFECTIVO</td> </tr> <tr> <td></td> <td>EN OTRA TERMINAL</td> </tr> </table> <table data-bbox="568 1113 1388 1249"> <tr> <td>PUMP # 1</td> <td>POMPA # 1</td> </tr> <tr> <td>INSERT BILL</td> <td>INSERTE BILLETE</td> </tr> <tr> <td>ATM/DEBIT DOWN</td> <td>TARJETA DE BANCO</td> </tr> <tr> <td>CAN'T ACCEPT CARDS</td> <td>FUERA DE SERVICIO</td> </tr> </table> <p>Addressed a potential issue with the <i>Program DPT Display Prompt</i> message (group DPT, command M). If the POS programs a Display Text with a Display Text Number that is one larger than the maximum supported in that system, the ANDI would write the data after the end of the file and thus corrupt ANDI memory.</p> <p>Added new values for the "Dispenser Model" field in the dispenser configuration record (group DIS, command code M).</p> <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> <p>Added full support for softkeys for certain keypad types when interfacing to a graphics capable CRIND.</p> <p>14. Added a volume limit to the station-wide (DIS 'O') message. This is a 7 byte field, numeric, with 3 decimal places. Its default is 0.</p> <p>If the limit is programmed, it will limit the maximum volume of ALL</p>	PUMP # 1	POMPA # 1	INSERT BILL	INSERTE EN EFECTIVO	OR USE ANOTHER	O USE OTRA TERMINAL	TERMINAL FOR CARDS	PARA TARJETA	PUMP # 1	POMPA # 1	INSERT BILL OR PRESS	INSERTE	CANCEL TO USE A CARD	BILLETE O CANCEL	AT ANOTHER TERMINAL	PARA USO DETARJETA		EN OTRA TERMINAL	PUMP # 1	POMPA # 1	INSERT CARD OR PRESS	INSERTE	CANCEL TO USE CASH	TARJETA O CANCEL	AT ANOTHER TERMINAL	PARA USO EFECTIVO		EN OTRA TERMINAL	PUMP # 1	POMPA # 1	INSERT BILL	INSERTE BILLETE	ATM/DEBIT DOWN	TARJETA DE BANCO	CAN'T ACCEPT CARDS	FUERA DE SERVICIO
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Version(s)	Status	Release Notes
		transactions.
RGA0651S	Released 07/10/2003	This system fixes the problem with not properly handling softkeys after the ANDI receives a dispenser configuration message (DIS M) that is identical to the last received dispenser configuration message. This will happen if somebody selects F2-4 (Send Pump Config) on the MSI POS. This only affects Gilbarco sites that have CRINDS equipped with graphics displays.
RGA0660S	Released 02/15/2005	<p>Includes all enhancements from previous versions. Added support to not show Car Wash prices at the PIC if so configured at the MSI Back Office. 3. Added support for Transaction Fee prompting at the dispenser (CRIND).</p> <p>This is how it was implemented:</p> <p style="padding-left: 40px;">Gilbarco: Single line display (up to 80 characters scrolling)</p> <p style="padding-left: 40px;">A transaction fee of \$0.35 will be added. Accept? Yes/No.</p> <p>Gilbarco: Monochrome display (requires using new set of graphics: AMON0109.ZIP).</p> <p style="padding-left: 40px;">A transaction fee of \$0.35 will be added.</p> <p style="padding-left: 80px;">< Accept < Cancel</p> <p>4. Transaction Fee prompting on Gilbarco CRINDs with single line displays. Fixed problem with not properly displaying this prompt on a single line display. In order to display the full text, the prompt was changed to be a scrolling prompt.</p>
RGA0670S	Never Released to Production	<ol style="list-style-type: none"> 1. Added support for "Insight Coupon" via the DPT L message. This coupon can be printed at the card reader as well as the Schlumberger PIC. 2. Added support to allow an '!' at the start of the 'p' field in DPT C and DPT B messages followed by ID: CC SSSS TTTTTT.
RGA0671S	Released 05/19/2006	<ol style="list-style-type: none"> 1. Addressed some field beta issues with the "Insight Coupon" functionality and 'cleaned up' internal code. 2. Fixed issue where discounts given by <i>Discount Rule 1</i> and <i>Discount Rule 2</i> print on the DPT receipt but not on the PIC receipt. 3. Fixed issue where a preset sale authorized with <i>Discount Rule 2</i> would not permit the dispenser to fuel the maximum allowed amount. 4. Added support for the PIC to support Discount Rules when authorizing the dispenser.
RGA0680S	Internal QA	<ol style="list-style-type: none"> 1. Added logic to delete old receipt information once a dispenser goes go a "fueling" status. 2. Per Rick Valles, changed the minimum timer values for <i>Timer Await Remove Nozzle</i> and <i>Timer Await Begin Fueling</i> from 30 to 60 seconds. If the POS sends a lesser value for these timers, the ANDI will use 60 seconds.

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RGA0680S (cont.)	Internal QA	<p>3. Fixed a problem with the Transaction Fee prompt not working for CRIND keyboards that have one physical key for both the ENTER key and the YES key.</p> <p>4. Fixed issue with PIN retries.</p>

Version(s)	Status	Release Notes
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Schlumberger Systems

Version(s)	Status	Release Notes								
RSA0632S	Released 06/26/2000	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Fixed problem with allowing unlimited attempts for PIN code at the PIC. Now the sale will be cancelled after 3 failed attempts. 3. Fixed problem with displaying "Can't Process PIN" if session key changes at the same time the customer is prompted to enter a PIN code. 4. Changed logic to go ahead and use the dispenser max preset volume when the POS specified preset volume exceeds the dispenser max preset volume. Formerly we would return a range error. 5. Built using latest version of the boot-loader (V4.4). 								
RSA0650S	Released 06/27/2003	<ol style="list-style-type: none"> 1. Added support for DUKPT encryption. 2. Added support to enable/disable credit and debit by fueling point. 3. Includes all enhancements from previous versions. 4. Change logic to no longer print the Receipt Header lines and Receipt Trailer lines on the Armored Car report. The POS now defines the report in its entirety. 5. Changed logic to no longer show "Insert Card" messages at the dispenser when the card host is down (ARCO doesn't accept any cards when the host is down). This may be overridden by the Card Host Store/Forward setting in the DPT Configuration command and it is also overridden if Attendant Cards are enabled. 6. With debit enabled and credit disabled after entering the pump number, the PIC would display: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;"> PUMP # 1 INSERT BILL OR USE ANOTHER TERMINAL FOR CARDS </td> <td style="width: 50%; text-align: center;"> POMPA # 1 INSERTE EN EFECTIVO O USE OTRA TERMINAL PARA TARJETA </td> </tr> </table> <p style="margin-left: 40px;">If credit was enabled at the PIC, we would no longer display that screen. The logic was changed to show that screen always if the host is down (same exceptions as under item 5).</p> 7. Added support for the screens below. A "PRESS CANCEL" reminder was added in case customer wants to use another PIC (otherwise the dispenser remains in the RESERVED state). <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;"> PUMP # 1 INSERT BILL OR PRESS CANCEL TO USE A CARD AT ANOTHER TERMINAL </td> <td style="width: 50%; text-align: center;"> POMPA # 1 INSERTE BILLETE O CANCEL PARA USO DETARJETA EN OTRA TERMINAL </td> </tr> <tr> <td style="width: 50%; text-align: center;"> PUMP # 1 INSERT CARD OR PRESS CANCEL TO USE CASH AT ANOTHER TERMINAL </td> <td style="width: 50%; text-align: center;"> POMPA # 1 INSERTE TARJETA O CANCEL PARA USO EFECTIVO EN OTRA TERMINAL </td> </tr> <tr> <td style="width: 50%; text-align: center;"> PUMP # 1 INSERT BILL ATM/DEBIT DOWN </td> <td style="width: 50%; text-align: center;"> POMPA # 1 INSERTE BILLETE TARJETA DE BANCO </td> </tr> </table> 	PUMP # 1 INSERT BILL OR USE ANOTHER TERMINAL FOR CARDS	POMPA # 1 INSERTE EN EFECTIVO O USE OTRA TERMINAL PARA TARJETA	PUMP # 1 INSERT BILL OR PRESS CANCEL TO USE A CARD AT ANOTHER TERMINAL	POMPA # 1 INSERTE BILLETE O CANCEL PARA USO DETARJETA EN OTRA TERMINAL	PUMP # 1 INSERT CARD OR PRESS CANCEL TO USE CASH AT ANOTHER TERMINAL	POMPA # 1 INSERTE TARJETA O CANCEL PARA USO EFECTIVO EN OTRA TERMINAL	PUMP # 1 INSERT BILL ATM/DEBIT DOWN	POMPA # 1 INSERTE BILLETE TARJETA DE BANCO
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Version(s)	Status	Release Notes
RSA0670S	Never Released to Production	<ol style="list-style-type: none"> 1. Added support for “Insight Coupon” via the DPT L message. This coupon can be printed at the card reader as well as the Schlumberger PIC. 2. Added support to allow an ‘!’ at the start of the ‘p’ field in DPT C and DPT B messages followed by ID: CC SSSS TTTTTT.
RSA0671S	Released 05/19/2006	<ol style="list-style-type: none"> 1. Addressed some field beta issues with the “Insight Coupon” functionality and ‘cleaned up’ internal code. 2. Printing will work in 2 stages: first, the original receipt and then the optional coupon. On the Centurion, this causes about 15 blank lines between the original receipt and the coupon. On the 4000 series, there is a cut between the original receipt and the coupon. 3. Fixed issue where discounts given by <i>Discount Rule 1</i> and <i>Discount Rule 2</i> print on the DPT receipt but not on the PIC receipt. 4. Fixed issue where a preset sale authorized with <i>Discount Rule 2</i> would not permit the dispenser to fuel the maximum allowed amount. 5. Added support for the PIC to support Discount Rules when authorizing the dispenser.

Wayne Direct Systems

Version(s)	Status	Release Notes
RDA0650S	Released 06/20/2003	<p>Initial version of ARCO software with support for the Wayne Direct interface. When blenders are used, products 4 and 5 are no longer required to be the base products and product 6 is no longer required to be the blended product. Any combination of product codes may be used.</p> <ol style="list-style-type: none"> 3. Added a volume limit to the station-wide (DIS 'O') message. This is a 7 byte field, numeric, with 3 decimal places. Its default is 0. <p>If the limit is programmed, it will limit the maximum volume of ALL transactions.</p>
RDA0651S	Never Released to Production	<p>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.</p> <p>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.</p> <p>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.</p> <p>Fixed issue where volumes of 65.535 gallons or greater would be reported incorrectly. This was specific to Ovation style dispensers.</p> <p>If an Ovation style dispenser was authorized at one price, and then stopped and authorized for a discount (e.g. as a result of a “takeover” by an outside card insertion), the dispenser would fuel at one price but report another. This has been fixed.</p>

Version(s)	Status	Release Notes
RDA0660S	Internal QA	<ol style="list-style-type: none"> 1. Includes all enhancements from previous versions. 2. Added support to not show Car Wash prices at the PIC if so configured at the MSI Back Office. 3. Added support for Transaction Fee prompting at the dispenser (CAT). <p>This is how it was implemented:</p> <p style="text-align: center;">Wayne 2 line display (2 x 16)</p> <p style="text-align: center;">Trans Fee \$0.35 Accept? Yes/No</p> <p style="text-align: center;">Wayne graphics display (4 x 21)</p> <p style="text-align: center;">A transaction fee of \$0.35 will be added. Accept: Press YES Cancel: Press NO</p>
RDA0661S	Internal QA	<ol style="list-style-type: none"> 1. Changed logic to beep once if the MSM goes offline. 2. MSM Menu: Added <i>MSM/DSM Revision Number</i> and <i>MSM/DSM Revision Date</i> to display options. 3. Added support for DSM (translate Wayne DUKPT to ARCO DUKPT). 4. Replaced “Card Read Error Try Again” when a customer first dips a card with “Remove Card Quickly.”