TO ALL CUSTOMERS – PLEASE READ OVER THESE INSTALLATION NOTES SECTION CAREFULLY BEFORE LOADING SOFTWARE ON YOUR ATM

****** Installation Notes and Tips ******

Before you upgrade a machine with an ACU3-5 mainboard, we recommend that you clear NVRAM and the journal before installing. Login with master password → Customer Setup → Press button in bottom right corner.

Then after Clearing NVRAM – reboot the ATM (with no memory card installed) one time.

Doing this will help prevent any problems upgrading to the newer version. In cases where an earlier mainboard is low on memory, it's possible for the upgrade or install process to lock up the board – requiring you send it back for reflashing.

You can also check for available free memory in the Diagnostics Menu .. under Check Disk there should be at least 10MB of free memory available before loading new software. If not, then clear NVRAM / Journal per above.

There is a document included with this software to help indentifying which mainboard is installed in your ATM if you're unsure.

ACU3 and ACU5 mainboards require a 2GB (or less) SD memory card to load software

ACU6 mainboards can use a USB memory drive (up to 32GB) to load software

Software Types:

- Full Version overwrites everything and restores password and graphics to factory default.

- Update version will not damage any programming, only update the program.

- Recovery software can be used on mainboards stuck at 'Temporarily Out Of Service'

Auto Application Update:

- Customers with ACU6 / ACU7 mainboards with software V05.00.41 or greater can use the Application Update function in the Operator Menu to upgrade to the latest version. If you're unfamiliar with this process see this video: https://youtu.be/_cAe3XJtpOE

Or check the 'Official Genmega' YouTube Channel

*******Changed **V05.00.47a** ********

1. Added VivoPay Kiosk IV serial numbers to allow for some third party devices as approved by Sales.
- These approved serial number will not be restricted from use.

2. Added FIS certificate package (US STD version only)

3. Misc Fixes:
- Fixed display error regarding EPP-B6 F/W version
- Remove '0000' from Popmoney Track 2 data
- Update AWS Domain for Online AP Update: update.genmega.com

*******Changed **V05.00.47** ********

1. Added VivoPay (NFC) Device Serial Number Check Function – software will not support VivoPay modules that were not purchased from Genmega.

2. Applied update to support PCI6.2 keypad

3. Added Receipt Paper Status to Journal (EJ) and RMS.

4. Misc Fixes
- Added Support to Send GenTopper playlist to RMS
- Added Sensor Viewer support for TCDU3
- Fixed issue where buttons were triggering inadvertently in the 'Select Notes' selection screen
- Fixed issue were pressing '3' key during transaction selection screen navigated to invalid page
- Fixed issue where loading setup from USB would freeze

*******Changed **V05.00.46** ********

NOTICE – We are no longer supporting ACU3-5 mainboards with new releases.
Those boards will support TR-31, however they are now considered 'End of Life' and going forward there will not be new releases. V05.00.45c is the last release for those boards.

1) Added Support for GenTopper
- including GenRMS Support (V2.7.9)

2) Nova Screen 'Burn-in' countermeasure
- Welcome screen will alternate left / right at regular intervals

3) Updated Printer Error codes to latest versions

4) Video Ad Function – Remove the 'Welcome Text' display button

5) When multi-language is selected, print / display using Unicode.

6) Apply updates / configuration changes to VivoPay NFC Module

7) Fixed issue where Host Routing ID could not be entered if it matched Liberty-X settings.

*******Changed **V05.00.45c** ********

1. Added EBT AID - a0000000044542

2. Fixed Tag 95 value for NFC MasterCard Transactions

3. Fixed issue with missing TR-31 ('3') in Misc Field '[' – for Health Check Message

4. Support EPP/CDU F/W Download Mode from SD Card (ACU3/5)

5. Fixed issue where EMV Chip Fails in Diagnostics Menu – if CDN01 error is present

6. If RMS Receive is set to Disabled - show 'Proceed (Y/N) message if RMS Test Call is initiated

7. Disable IPV6 in ACU7 board – when AP starts

8. Support for 'Hot Key' combinations during Out of Service conditions.

*******Changed **V05.00.45a** ********

1. TR-31 Support
- This software supports TR-31 which is an enhanced method of encrypting Master Keys.
Your processor may require you to enable this option.

2. TMAC TDES Mode support
- Added support for 'MAC' keys – if your host supports MAC'ing – this will require an extra set of Master Keys to be programmed at the terminal (in addition to the regular keys). This provides a higher level of encryption.

3. Add TCDU2, TCDU3, MCDU1 F/W download (CDU Secure Mode Support)
- Added firmware download for older CDUs – this is both to support 'Secure Mode' but also to upgrade older dispensers with newer firmware updates. TCDU-H1 is still not supported.

4. Security Mode / Full Install & Software Downgrade protection.
- If an ATM is 'Secure Mode' (CDU Secure Mode) – a Full Install or Update of software to a lower version will require Secure Mode to be reset (vault access) before the ATM will go in service – C008A error.

5. ATM will no longer accept changes to Host IP, Host Port, RMS IP and RMS Port via RMS.
- This was changed to prohibit take-over attempts via RMS messages being sent to an ATM.

6. CDU Secure Mode – Operational Checks after setup
- Several checks have been implemented to validate 'CDU Secure Mode'
- CDU Mode (Normal / Secure / Unknown) now appears in the Print All Setup report (System Setup)

7. Added 'F000D' error occurs if RMS password(NULL) is not set after full installation.
- RMS Password cannot be left at default following 'Full Install' of software

8. Remove CheckSum value output for each password entering OP in Print All Setup / Add CDU Mode output
- Print All Setup report no longer contains System Password Checksums.

9. Added Enhanced CDU logging.

10. PopMoney
- Fixed an issue where if an amount greater than the Maximum amount is set to FastCash and the amount is pressed during a transaction, a'PG001' error occurs.
- Fixed an issue in Other Amount where the Maximum Amount would display as $300 unconditionally, regardless of the current balance available for withdrawal.

11. Misc bug fixes:
- Fixed an issue where the Korean language screen for selecting AID when inserting a Multi AID card.
- Fixed OP Menu 'Out of service time setup' spelling.
- Fixed an issue where ERROR CODE '00000' was displayed on the Transaction Result screen for the first normal balance transaction after power-on with PCDU dispensers.
- Fixed an issue that caused an IAE error to occur when the MAC working key was not received properly.
- Fixed an issue where Available Balance / Ledger Balance were incorrectly displayed in Display mode when Print All Balance is Enabled.
- Fixed an issue in Dual Balance (DNS Processor) where Checking / Saving values were displayed as the same value.
- Modified to enable Dual Balance / Check Balance / ApplyPay (Amex card) transactions with NFC.
- If RMS Send is set to 'Disable' (if you turn off RMS) all previously scheduled RMS events will be purged.

*******Changed **V05.00.45** ********
Version V05.00.45 shipped on some new ATMs and was provided for TR-31 testing to some customers and Hosts – however we chose to release this formally as V05.00.45a to include the security update listed above.

Item #5 was added for .45a, along with Bug Fix related to RMS Send disable (purges all scheduled events)

*******Changed **V05.00.44** ********

1. New 'Out Of Service' Function
   - allows you to set a time period where the ATM will show 'Out of Service' with a message
   - Default message is 'ATM IS OUT OF CASH' – however it can be changed
   - Attempted Transactions will not be allowed during this time
   - See page 61 of the ATM AP Manual for more details: **Genmega ATM Software Manual**

2. Support for NFC readers
   - System Setup → Device Setup → Card Reader Setup → NFC (enable / disable)
   - Requires NFC reader

3. Denomination During Dispense
   - For machines with multiple denominations - if unable to dispense (empty / misfeed) the dispenser will complete the transaction with another available denomination.
   - Previously this would result in a reversal.

4. Journal / Setup Copy – Camera Option
   - If the ATM is equipped with a GenCam, if you use the Copy Journal function – you can now choose whether or not to also copy the camera images.
   - Also, when copying the Journal, you'll see 'Please Wait' while the files are being copied.

5. Fast Cash
   - Fast Cash amounts now support 4 digits (if denomination x 40 is = or >$1000)

6. Pocketbook
   - Added support for Pocketbook Cardless Transaction Service

Fixes:
- Visa / MC DCC screens and receipts – support for special characters / accent punctuation.
- Removed ISO track menu from System Setup screen (replaced with Out of Service function)
- For Visa, fixed issue where non-DCC card would not get Select Receipt screen after DCC transaction.
- Changed Reboot Time to always reset during 'Full Install' of software.
- Fixed issue with touch-screens where the 'Hidden Button' (clear NVRAM) would not work in EPP Mode.
- Fixed issue with some Transaction screen button text size, for ADA.
- Fixed issue when entering Denomination amount (when previous and current values are the same)
- Fixed issue with button text being cut off (Nova, GT5000, C6000) using French language.
- Fix for Liberty-X D103 error (recorded to Journal twice)
- Fixed issue with ADA script where 'Take Cash' fails after multi-denomination dispense.
- Fixed issue with ACU5 mainboards – some DCC Transaction resulted in 'Data Error'
- Fixed issue with WCDU dispensers not downloading Firmware.
- Fixed issue Transaction Setup where button text could overlap (Dispense Limit / Dispense Method)
- Fixed issue where Nova does not delete video file when sending through GenRMS.

*******Changed **V05.00.43a** ********

'Hot Fix' for V05.00.43 software:

- To correct a problem where a 'Partial Reversal' transaction could occur if using 'Select # of Notes' function with 3 or more cassettes.

*******Changed **V05.00.43** ********

1. Bill Selection function support
   - 'Select Notes' option is available if dispenser set for multiple denominations
   - Allows customers to select which bills they'll receive on a withdrawal.

2. Corrections made to the Spanish Language Script.

3. Exchange Rate Mark-up added to MasterCard DCC screen and receipt.

4. CDU Firmware download function changes.
   - Improved support for various models CDU control board with different CPUs.
   - New support for PCDU2/HPCDU2

5. Disk Space now automatically shown in the main Diagnostics screen.
   - Previously you'd have to select 'Disc Check'

6. Integrated application of capacitive touch response logic to ACU6 and ACU7.

7. When 'C0019' error occurs, the error code is recorded in the receipt and journal.

8. No longer include or overwrite host certificates or receipt logo graphics during AP Update.

9. Misc Bug Fixes / Updates

- 'C0050' error occurs after CDU secure mode.
- 'CDN01' error occurs after EPP installation.
- EPP key / LibertyX function key is not pressed when the ADA jack is plugged in or cable is disconnected.
- 'PDN01' error is not sent to RMS after 'Health Check'.
- 'TERMINAL NO. NOT SET' error is displayed on the OP main screen even though the terminal number is set.
- 'Screen Mode' is not initialized to default value after NVRAM CLEAR.
- 'Welcome' script was sometimes missing in ACU7 in the IDLE screen ADA.
- 4G SD card space is displayed incorrectly in the ACU7 board.
- Information for each cassette was not recorded in the journal – some CDU types.
- B4U button is not visible when Denomination is over $20 ($50, 100$) in B4U app.
- Not going to the previous menu when pressing 'Cancel' when entering OP RMS JNL SEND, JNL COUNT.
- CDU TYPE 1K, 2K are not correctly displayed with some SCDU3 dispensers (using GD CPU).

*******Changed **V05.00.42** ********

1. Video Advertisement Support (ACU6/7 only)
   - You can now show full motion videos as 'advertisement' screens while the machine is idle.
   - Videos can be uploaded via RMS (V2.5.13) or with USB/SD at the ATM
   - Video files are managed using a 'Video Pack Editor' application available for free.
   - Supported formats are .mp4 - .avi - .wmv - .mov
   - Up to 8 video files can be loaded (maximum of 100mb available for all 8 files combined)

2. Pocketbook service support. (ACU6/7 only)
   - Support new cardless transaction service

3. New CDU Firmware Updates for CDU Binding
   - Includes HCDU, RCDU and PCDU models
   - Fixes issue where previously you could not enable 'Secure Mode'

4. Support for 'capacitive touch' touch-screen hardware
   - Replaces older IR touch screen panels

5. Apply EVM kernel v2.7 Changes
   - These are changes mandated by EMVCo
   - Add "BF0C' - '50' Data Processing
   - Bulletin 2CE.003.14 Acceptance of format errors for Selection – List of AIDs
   - Modify TVR Bit processing for Warning code (6281)
   - Bulletin 2CJ.002.13

6. Add LibertyX Ad screen #2

7. GenRMS
   - Fix the issue that the counter is not cleared in Get Cassette Information.
   - Displays EPP version and CDU Security mode status for each ATM on the GenRMS main screen.

8. Misc Bug Fixes / Updates
   - Cash Pickup - ACU5 certificate replacement.
   - Change DCC screen/receipt text (MC).
   - Modified to always print the result on the receipt for VISA DCC transactions .
   - Fixed an issue if the DCC country's amount was more than 10 digits. (up to 12 digits available)
   - Display the CDU Security mode status on the OP Main screen.
   - Delete all Camera images when Journal Clear
   - Spanish script modified (syntax)
   - Fixed issue where a white background was temporarily displayed during bootup.
   - Fixed issue where transaction was canceled if the ADA jack is unplugged after receiving the Host data during a voice guided transaction.
   - Fixed an issue where the MCR version will not read if the device was connected after powering-on or after a C0050 error occurred.
   - Fixed issue where the pwd #2 input screen was displaying after the Sensor View function.
   - Added delay time in relation to SPL I/F error on ACU7 board.
   - Fixed an issue that would hang while uploading an journal via RMS when an abnormal journal is found.
   - Fixed EPP Non-PIN key disable error (EPP 5.0 only)

*******Changed **V05.00.41** ********

1. Software Updating (ACU6 only)

With this version we've added the ability to update or change software via an internet connection.
- The software will check with our servers to see if the latest version is loaded
- User can choose to update or to change software to current ATM Plus or PAI software

2. Bulk Software load (ACU6 only)

- This allows you to copy a folder (downloaded from Genmega) to a USB drive and with that one USB drive you can update software for any model ATM and any type (US / ATM Plus / PAI)

3. TDR Card Reader Firmware (ACU6 only)

- If you have an older TDR card reader, the software will detect that version and offer a button to update from VT10 (old) to VT11 (new). Once firmware is uploaded, or new is detected, the button will go away.

4. Diagnostics Screen Updates (ACU6 only)
- Added Vault Door switch and ADA audio-jack tests

5. Liberty-X updates
- Several updates and bug fixes related to the Liberty-X application
    - Changed Buy Bitcoin / Sell Bitcoin button
    - Changed button text 'Dependancy' to 'Single Host'
    - Changed button text 'Stand Alone' to 'Configure Host'
    - Corrected LX Health Check message to not display dispense info if Sell BC transaction is disabled
    - Fixed error displaying LX transaction button on F0001 screen
    - LX CashOut Value Clear added for Day Total

6. EPP LED (flicker)
- Added option to leave the EPP light on all the time

Bug Fixes
- Added C0055 Error Code
- Changed 'Terminal Fee' to 'Access Fee' per Visa DCC
- Changed language on Spanish receipts ('surcharge' to 'tarifa de acceso')
- Fixed ADA script (DCC and Account Type)
- Fixed VG error related to Check Balance script playing at wrong time using MS card
- Changed Spanish 'Reading Chip Card' to 'Lectura de targetas con chip'
- Fixed error resulting in temporary PDN01 when working key is not downloaded from host
- Fixed error incorrectly displaying PG001 instead of PDN01 on working key download
- All dispense / rejects are recorded to journal even if dispense = 0
- Fixed bug causing card reader LED to flicker during out of service condition
- Adjust button size in DCC Offer screen
- Fixed bug causing '00000' (normal) error to appear on DCC Host reversal error

*******Changed **V05.00.40** ********

US Standard V05.00.40

1. User Interface Refresh
   - The screen graphics have been updated to a more modern appearance
   - 3 Screen Modes: 'Standard Mode' 'Dark Mode' 'Light Mode'

2. Camera Option – OP Menu
   - Option for GenCam equipped ATMs to take a photo when someone accesses the OP Menu
   - System Setup → Device Setup → Camera → Photo at Menu Access (enable / disable)

3. Visa / Mastercard DCC Transaction Language Support
   - Disclaimer notifications on screen now support French and Spanish languages
   - Printed Receipt notifications now support French and Spanish Languages.

4. Liberty-X Updates
   - Fixed a problem where the working key was deleted leaving the OP Menu causing D0111 errors.
   - Added 'Learn More' button to the 'BITCOIN OP' Menu (Enter the LibertyX setup menu)

5. GenRMS Support for Sensor View Function
   - Requires GenRMS Pro V2.5.11
   - Sensor View Data (added in V39) can be viewed from GenRMS Pro

6. PopMoney – ADA Script
   - ADA audio script was added for the PopMoney service

Bug Fixes:
- Fixed issue where multiple camera images could be captured inadvertently
- Removed the prompt to press 'Enter' at the Multi-AID selection screen
- Fixed issue where menu could hang up after changing ExtraBin option from Enable to Disable
- Fixed issue with Card Reader Sensor View in Diagnostics

*******Changed **V05.00.39** ********

Includes ATM Plus C05.00.39

1. LibertyX Application
   - Added LibertyX Sell transaction and ADA support
   - If there is no location ID, we will set the value as TID.
   - LibertyX Master Key printing added (to Print All Setup report)

2. Sensor Viewer function added.
   - Diagnostics Menu now shows a 'Sensor' Viewer screen allowing test of CDU + Printer + Card Reader
   - Values will change in real time as sensors are checked / tested
   - Detailed drawing of CDU shows sensor locations and status (blinking Red if blocked)

3. Added option not to send Camera Images when uploading GenRMS and Journal.
   - If ATM is equipped with a GenCam device, you can choose whether or not photos upload to RMS.

4. LeadEx Application
   - Modified LeadEx phone number input screen.
   - Change the address and add the path option
     Address : terminalservices-cp.nanonation.net
     Path : message = /linkrelay/LinkRelayService.svc/Messages
     campaign = /linkrelay/LinkRelayService.svc/Terminal

5. Miscellaneous Changes / Fixes
   - Fixes the problem that EPP turns off when MCR turns off after FLICKER TEST ALL_ON.
   - Fixed a problem where screen selection using EPP in the Check Account Balance screen worked incorrectly
   - Fixed the problem that VSCAN does not work periodically when RMS Schedule, Health Check, LibertyX Health Check is enabled.
   - Fixed a bug - when returning to the Main Menu from the screen that appeared after pressing 'Give a Gift' button in the GivePay Menu, the language changed to English instead of the selected language.
   - Fixed a bug where an Internal Application Error occurred during Tiered Surcharge input.
   - Fixed the problem of displaying abnormal characters when G3000W CDU Test Dispense, C0047 Error.
   - STM B/D CDU f/w download bug fix
   - Visa DCC, change print format : USD 1 = 1.347043 CAD

*******Changed **V05.00.38a** ********

Emergency Fix for connection issues with Columbus Data
US Standard & ATM Plus versions updated.

*******Changed **V05.00.38** ********

1. Added BCD Exchange Option to the Main AP Menu.
   This is a marketing platform for lead generation messages.

To learn more about this service and what it can offer, please contact LEADEX
www.leadexsolutions.com or call them at 704-516-7448

2. Added support for Vscan Keypad Sanitizing Device
   If a Vscan device has been installed on the ATM
   you'll find the config menu in System Setup → Device Setup

3. Added support for ACU7 mainboards
   Will begin shipping at a later date

4. ATMs with PCDU / PCDU-2 dispensers will now support Firmware Download

5. A count of Dispensed / Rejected Notes will now be recorded in the Journal
   A new line in the journal entry shows D# and R# on Withdrawal
   - Example: CST1=D03/R00

6. Changed the number of retry attempts for ADN01 error.
   - Printer Communication Error

7. Liberty-X Transaction
   - RefillingHotWallet error description will be displayed on all error screens.
   - Fixed problem that deletes Custom Ad #1 on Update
   - Fixes problem where Vault door Open' does not appear if door opened after Location not found.

8. Modified the Auto-Reboot feature to work if machine is at Out of Service screen.

9. Misc Bug Fixes
   - Fixed problem where POS entry mode was always set to 05
   - Fixed issue with GivePay where language changed back to English from French / Korean.
   - Fixed issue of not changing status from Out of Service to In Service after Health Check.

ATM Plus C05.00.38
- Added Vscan support per above
- Added support for ACU7 mainboards
- ATMs with PCDU / PCDU-2 dispensers now support firmware download
- Dispensed / Rejected counts added to Journal (see above)

*******Changed **V05.00.37** ********

1. Added support for EPP-B5 keypad (PCI-5.0) – to start shipping with new equipment in the future.

2. Added Credit Surcharge Support (US Standard version)
   - Customer Support → Surcharge Mode → Surcharge Option → Credit Surcharge
     (make sure your processor supports this before enabling)

3. Liberty-X Screen Flow Change
   - Added Anti-Fraud Screens
   - Display Error Description for COM errors
   - Changes to Receipt / Journal entries

4. Bug fixes:
   - Fixed previous bug related to 2080 clock error (Health Check)
   - Fixed problem related to MCCP causing lock ups on reboot due to key loading
   - Fixed a memory error related to images on ACU6 board
   - Health Check on Vault door error will now download working key
   - Fixed issue where Planet logo was displaying on GenDCC transactions.

ATM Plus version updated same as above C05.00.37
- Except #2 which was already supported

*******Changed **V05.00.36** ********

1. Master Card Cash Pickup
   - Added feature to initiate test transaction after a reboot if the terminal does not have the Symmetric Key.
   - Changed the Authentication Host Port from 6125 to 6126.
   - Added service to ATM Plus software

2. Add RMS Certificate

3. LibertyX
   - Replace LOCATION ID with TERMINAL ID.
   - LibertyX AD Image #1, #2 Load feature added.
     OP ->LIBERTYX BITCOIN->ADVERTISE EN/DISABLE
   - Updates for LibertyX certificates. (Godaddy certificate)
   - Apply 'Bitcoin + log' image on the IDLE screen.
   - Added Error code
     DL018=Bitcoin purchases are temporarily unavailable while we refill our bitcoin wallet.
     DL019=The payment amount is too low compared to the bitcoin network fees
   - Support Bitcoin button on 'Out of Service' screen so customers can use even when 'F0001' error occurs.

4. Added option to change how the Surcharge value is shown to customer (Percentage, Value or Both)
   - OP menu → Customer Setup → Surcharge Mode → Surcharge Option → Show Surcharge
   - Default = both

5. For transactions where the customer responds 'No' at the Surcharge screen
   - 'CANCE' Error Code description has been changed to:
     'Customer declined the surcharge amount and cancelled the transaction'
   - The Journal Title for this transaction is changed from
     'Surcharge Cancel' to 'Surcharge Declined'
   - Added count of 'Surcharge Declined Trans' to Day Total/Trial Day Total

6. Added Version number to 'POWER ON' journal. (V05.00.36 appears in journal entry)

7. Changed transaction flow related to Check Balance / Dual Balance screen to make easier for customer
   - V05.00.36 only

8. Bug Fixes :
   - GenRMS Fast Downloading bug fixed.
   - Modified AP to perform an Auto Recovery for Presenter dispensers.
   - Retry & Log 3 times if negative data packet is received during ICC transaction
   - Fixed the ADA Volume Up/Down, Repeat Key on the WELCOME screen.
   - Fixed problem with sensor image not shown when changing Denomination of TCDU 08.0A F/W Version.
   - Modified AP to turn on the CDU/Tray flicker during a partial dispense.
   - Fixed problem where '20020' error would not clear
   - Fast cash algorithm modified to allow $70 and $90 when the denomination is $20 and $50.
   - Fixed problem with the value of Tiered surcharge percent for PP DCC transaction as default amount value.
   - RMS Remote File Explorer bug fixed.

*******Bug Fix **V05.00.35c** ********

Emergency release to correct the following issues found in V05.00.35

- When loading 'Update' file, would inadvertently overwrite any custom graphic screens with default
- Several models would not work with GenCam
- Fixed issue where INVALID DNS error would appear – requiring re-entering default DNS values
- Fixed issue occurring with TLS certificate verification
- Modified GivePay transaction flow
- LibertyX input amount increased to $100,000
- Update SCDU firmware

*******Changed **V05.00.35** ********

Feature Updates and Changes

1) Added GivePay Service (ACU6 mainboards only)
   - See https://www.givepay.us/ for more details

2) Added Visa DCC function.
   ATM OP -> CUSTOMER SETUP -> CHANGE PROCESSOR -> DCC TRAN OPTION -> VISA DCC

3) Door Open/Close now recorded to Journal (open event / close event)

4) Added Hostname verification function (Default : Disable)
   * OP -> Customer Setup -> Change Processer -> SSL
   * D2651 Error Code : Hostname verification fail
   - Do not enable this unless your host can support

5) CDU Sensor Error check updated
   - When the CDU Sensor is detected, added 3 retries.
   - This will reduce some unnecessary sensor errors.

6) TDR MCR EMV
   - Optimized MCR Power Reset function

7) Added Dual Balance Screen
   - Dual Balance option -> Enable (Default)
   - Check Balance option -> Enable (Default)

8) MasterCard Cash Pickup updates
  - In case of connection error, print date / time / terminal id, sequence number on receipt.
  - In case of an error, send a reversal request to the Pin4 server.
  - Fixed memory leak bug (Occurs if the symkey is not downloaded from Pin4 server.)

9) LibertyX updates
   - If 'Execute Payment' fails, the reversal transaction is performed only if 'Cancel Payment' success
   - Fixed a bug treated as '0.x' in Authorize Payment when a value of less than or equal to '0.1' is entered.
   - Fixed a bug that could not check the checksum of the master key.

10) Screen display performance improvement.

RMS Changes: Requires GenRMS Pro V2.x (update will be available soon)

- Hot Key Sequence Customizing – OP Entry / Config Request / System Reboot
  You can customize each hot-key sequence.

- GenCam can be enabled / disabled

Continued →

Bug Fixes:
- Use proper DNS information when in DHCP mode
- Retry sensor checking in case of '20215/24B15' error.
  - Error code generate by sensor. (20215, 21315, 24B15~18)
- Display the 'Please wait' screen during DCC rate lookup
- Do not connect to 2nd HOST IP/PORT in case of com failure if both HOST IP/POST are the same
- Fixed problem for display buttons without TEXT in rear Service Panel
- Fixed bug where the Cancel key did not work on PIN entry screen.
- Fixed bug in the "least # of Note" option
- Fixed Window popup error during Config Request when keys are not bound to TID.
- Fixed invalid flicker function
    - EPP on after dispensing (G1900)
    - EPP on Multi AID selection screen
- Bug that did not return to the welcome screen after removing ADA jack.
- Spanish language - surcharge warning screen button text (GT5000)
- Bug where '*' character is not fully displayed when entering Master keys.
- For 'WorldPay_' surcharge setting:
- 'Surcharge Paid to' on receipt: print only when surcharge is greater than 0.

*******Changed **V05.00.34** ********

1) Bug Fixes / Improvements for Liberty-X application

2) Bug Fixes / Improvements for Cash Pickup application

3) Added - Test Dispense (diagnostics) will now appear in the Journal

4) ACU3/5 Update package file size has been optimized.
- Update package no longer includes ADA script or screen images to reduce size

5) Modem Reset added to Modem Diagnostic Menu.

*******Changed **V05.00.33** ********

1) Support for Liberty-X Bitcoin Application
- OP Menu → Liberty-X Bitcoin

www.libertyx.com
See website for more details on that service

2) Key Index range = 0 – 9 ATM (10 = LibertyX, 11 = DCC Host)

3) Cash Pickup Transaction
- Fixed Windows Pop-up Error (ACU3/5)
- Changed "204" error = No Order for Phone Number
- Support for Symmetric Key Clear feature
    Cardless OP Menu → Master Card Cash Pickup → Clear Symmetric Key

4) MAC Sync Feature
This option will read the MAC address of an attached wireless device and store that value in the ATM.
If another device is detected at transaction – the ATM will not process and error 25001 MAC Sync Fail.

OP Menu → Host Setup → Host IP Address → MAC ADDR SYNC
- Default = Disabled

To use this – enter MAC ADDR SYNC Screen (wireless box should be attached to ATM) press MAC SYNC and it will be stored. If you need to change wireless device, you'll need to enter this menu and re-sync.

With this setting enabled and Coms encryption is enabled (SSL/TLS) – you can also enable "UDP Send" which will broadcast the Terminal ID number to the wireless box via UDP – (set port) This allows the Wireless box to read the TID number for reporting purposes.

Please note that these options were added to help improve security when using Wireless boxes – Genmega recommends that you work with your wireless box manufacturer to support Encrypted data between ATM and box.

5) Bug Fixes
- Fixed issue with 05.00.32 software where Branding Screen is not displayed properly after updating.
- Fixed issue with AID not displaying correctly in Diagnostics (TDR reader only)
- Fixed issue with RMS calling continuously if ATM date reverts back to 1999 (dead battery on CE)
- Fixed memory leak issue when displaying GIF

*******Changed **V05.00.32** ********

1) Terminal offline (in error) Status send

2) Added Dispense Method (Default -> Balance Cassette).
OP -> TRANSACTION SETUP -> DISPENSE METHOD -> Balance Cassette / Least # of Notes
* Only on multi cassette and if denomination is different.

3) Added MS transaction En/Disable (Default -> Enable).
OP -> CUSTOMER SETUP -> OPTIONAL FUNCTION -> EMV -> TRANSACTION OPTION -> MAG-STRIPE TRANSACTION

4) Added Balance fee notice (Default -> Disable).
OP -> CUSTOMER SETUP -> SURCHARGE MODE -> SURCHARGE OPTION -> BALANCE FEE NOTICE

5) Added ATM APP Verification (Default -> Disable).
OP -> HOST SETUP -> REMOTE MONITOR -> RMS HOST -> ATM APP Verification

6) RMS Security Updates
- Supported SSL.
- Added 'hash key check' when downloading files via RMS.
- When changing RMS Password via RMS, supports alphabet and special character.

7) RMS HOST IP input field: 20 -> 30.

8) Added RMS SEND En/Disable (Default -> Disable), RMS SEND INTERVAL (Default -> 01:00).
OP -> HOST SETUP -> REMOTE MONITOR -> RMS SEND(ERR)

9) Added RMS SSL En/Disable (Default->Disable) , RMS SSL HOST PORT (Default->18450), RMS SSL VERIFY CERT. (Default->Disable), LOAD CERT. FROM USB.
OP -> HOST SETUP -> REMOTE MONITOR -> RMS HOST

10) Cash Pickup (Cardless OP Menu)
- Added the transaction error journal.
- Added error codes.
- Fixed bug that do not use a new SYMKEY immediately when a new SYMKEY is downloaded.
- Print receipt when CashPickup transaction is failed.
- Display "The ATM cannot process this order at this time. Please~~~try again later" if requested amount is greater than note amount in ATM.
- Fixed bug that do not partial reversal.

11) Changed Planet DCC logo

12) Removed Event Notification function.
OP -> CUSTOMER SETUP -> OPTIONAL FUNCTION

13) Added Error Screen.
- If Transaction Error occurred,
Error Screen 'Transaction Was Declined' -> Take your receipt screen -> Transaction Results screen

14) Changed Reversal Text.
- AN ERROR OCCURRED WHILE DISPENSING.
YOUR ACCOUNT WILL BE UPDATED.

PLEASE CHECK YOUR BALANCE.
- Changed the screen timeout from 30 seconds to 10 seconds.

15) Added CDU F/W Download Model.
- HCDU2, HSCDU F/W

16) Display detailed error description if error happens on Day Total/Trial Day Total/CST Total/Trial CST Total.

17) Supported Single/Multi Coupon Mode.

18) Define 'D0EXX' error description.

19) Supported '&' character on SPL. Display only 16 Lines on SPL View Journal.

20) Changed Accept/Decline button position (GenDCC offer screen).

21) Display Nation Flag on Accept/Decline button (GenDCC offer screen).

22) Changed Yes/No button position (Surcharge notice screen).

23) Bug fixed.
- Fixed IAE ERROR during View Journal on SPL.
- Fixed MCR read bug on TDR Card reader.
- Fixed 'memory overflow' during displaying Advertisement Image in OP (Only ACU3/5).
- Fixed Fast Journal Upload Bug.
- Fixed "Unknown JNL ID" Bug.
- Fixed small FONT is displayed if Print Header on Receipt is enabled.
- Fixed bug that displays abnormal input range at tiered surcharge set menu (Multi Denomination only).
- Fixed 20020 error during OP -> DIAGNOSTICS -> CDU Initialize.
- Fixed abnormal denomination value is sent to GenRMS (at 3, 4 CST CDU)

*******Bug Fix **V05.00.31a** ********

Emergency release to correct the following issues found in V05.00.31
- Condensed Print Journal could cause lock up
- Performance issue with search Journal by Date
- Machines with SDD-1700 dispensers showing C000F error

*******Changed **V05.00.31** ********

See list below for features / updates and fixes included in this version:

1) BIN entry now accepts numbers up to 12 digits in length

2) Increased number of BIN that can be entered in OP menu to 60 (not including ExtraBIN)

3) Support ability to extract individual journals by date / seq # / card # via RMS

4) If ATM fails to connect via RMS – event will be recorded to journal

5) Support 'Set Setup' job when ATM connects via RMS Test Call

6) In case of Unknown AID or Candidate List Empty – PEM code 9F39 is included in message.

7) 'Host Not Approved' transactions will always print receipt and display on screen regardless of print option.

8) Changed receipt text for Balance from 'Transaction not approved' to 'Balance Unavailable'

9) Added PopMoney application to Cardless OP Menu

10) When cassette feed error occurs on Multi-Cassette dispensers, cassette will be disabled until error can be addressed. Code 20020 = No Available Cassette added if all cassettes are down.

11) Added new dispenser error codes:
- C003E = RJT Sensor detects a note before dispensing or after initializing
- C000F = Note count mismatch

12) '&' character is now supported in Text Entry screens

13) Camera Images now stored for 60 days then deleted.

14) Support for UnionPay AID

15) Support for older printer firmware (RPU 30 column)

16) 'Print All Balances' option in OP Menu when enabled will show Account & Ledger balances

NOTE: This will be the last version of software for C4000 with ACU1 mainboard. If a critical issue comes up we can address with a supplemental version, however future feature updates / additions will no longer support C4000 with ACU1 boards.

*******Changed **V05.00.30** ********

1) Added - Dual Balance Option (default = Disabled)
- This gives an option for customers to check 'All Available Balances' (checking/savings) in addition the normal options for just the single accounts. If the customer selects, the two balance transactions will appear on one receipt.

OP Menu => Customer Setup => Optional Function => Balance Option => Dual Balance

2) Added – GenDCC / DCC Host
The AP now offers two ways to support DCC transactions – please check with your processor to know which should be used. DCC = Dynamic Currency Conversion, for foreign currencies.

- GenDCC is the method being used on previous versions (processor supported DCC)
- DCC Host allows separate connection to a DCC Host

OP Menu => Customer Setup => Change Processor => DCC Tran Option => DCC Type
- If you enable DCC Host, when you enter Host Setup screen, you'll have an option for a DCC Host along with ATM Host

3) Added – Support for new SCDU-E Dispensers

4) Fix – When cash is low - customer will now be shown maximum amount they can withdrawal if customer selects 'other' amount at Fast Cash screen – previously they would see the dispense limit value as the maximum even though that amount may not be available.

RMS Changes
- Added support for Day Total / Trial Day Total directly from RMS (also requires RMS update)
- Added support to change RMS Host Port (send / receive)

*******Changed **V05.00.29** ********

Primary issue for this release is to remove the EMV Card 'Application List' which had been introduced with V05.00.28 – installing this update will remove the menu when customers attempt transactions

Additional Bug Fixes
1) Can no longer inadvertently initiate an EMV transaction from Out of Service Screen
2) C4000 %-Surcharge value was running off right side of screen
3) PCDU Dispenser – Aging Test fix / Improved case where shutter did not close after money removed

Added Menu Option:

OP → Customer Setup → Optional Function → EMV → Transaction Option
POS Entry Mode =
- PEM92 (default) – sends response of 0x92 for all cases
- Standard (optional) – sends VISA 0x91 / MC – 0x80 / Dis – 0x85 / Default 0x92

(note – you do not need to modify this value unless your processor advises)

*******Changed **V05.00.28** ********

1) Added Support for Pin4 Cardless transactions
When accessing the Operator Menu, there will [ATM OP] (standard programming menu) and also [Cardless OP] – this menu will allow you to enable PIN4 transactions.

2) System Reboot – Press ENTER-CLEAR-CANCEL-3-6-9 will cause ATM to reboot.
- Can Enable / Disable function in System Setup → Set Reboot
This function allows you to reboot the ATM without unplugging or having a key. Press the key combination above and you'll have a menu to 'Reboot ATM' (yes/no) function can be disabled.

3) RMS Journal Send – Program RMS Send to include Journal Upload at check interval
This feature allows you to program RMS Send function to upload the journal each time it connects to your RMS server. You can set number of journals to upload at each connection.

4) Support for Host Mismatch Error
- Customer Setup → Change Processor → Processor Option → Host Mismatch Error
This option will compare TID / Sequence number and TR Code with host response message and error out if they do not match: D0096 / D0093 / D009A.

Bug Fixes / Modifications:

1) POS ENTRY MODE code = '92'.
2) If MCR Type is Standard or Message is not STD3 in RMS setup data, then disable EMV
3) If MCR Type is EMV, then enable EMV transactions by default.
4) Changed Print All Setup Text (SCHEDULED TOTAL): 'GET' -> 'MODE'.
6) Factory default value of "REVERSAL ON HOST ERROR" is now Enabled.
7) Fixed Window pop-up error for 'Print All Setup' report.
8) Fixed 'D0E' error caused by missing EMV TAG '8A' from host.
9) Fixed: If UPLOAD ONCE/24HR (RMS SCHEDULE)
- sometimes caused ATM to send RMS data more than one time.
10) If 'C0050' error occurs, record Dispensed amount & Requested amount on journal.
11) Leave HOST SEND/RESPONSE trace in Logging Data.
12) Changed Journal logging data for EMV Transaction; ARPC, ARQC -> ARC, IAD, CID.
13) Factory default value is changed.
COMMUNICATION = SSL PASS THROUGH, MESSAGE FORMAT = STANDARD 3.

ATM PLUS Only – C05.00.28

1) Maximum host send data length = 2K(Re. D2516 error during Journal upload).
2) Allow modem connection in ATM PLUS version without supporting Dynamic Surcharge/GenDCC.
3) If % Surcharge or Tiered Surcharge is enabled, then disable Dynamic Surcharge.
4) Added Dynamic Surcharge Enable/Disable option: CUSTOMER SETUP>>SURCHARGE MODE>>SURCHARGE OPTION>>DYNAMIC SURCHARGE.
5) Added Host ENQ data auto detection logic.
6) 1200 BPS Modem is not allowed when 'EJ Upload' is enabled.

*******Changed **V05.00.27** ********

Fixed 'illegal operation' pop-up error (Journal upload, ATM PLUS)
Fixed window pop-up error in Set Clock -> Set Day when no value (day) is entered

Changed DISCOVERY TAC Denial value: 00 00 00 00 00 -> 00 10 00 00 00.
Fixed: Request Type = '70' is sent to host in STANDARD1 protocol.
(Disable GenDCC if STANDARD1 is selected)
Don't record POS ENTRY MODE on journal if EMV is disabled.

*******Changed **V05.00.26** ********
Boot Menu – Full Install versions include an update to our Boot Menu.

Standard ATM software
Proprietary
ATM Plus

Only select the Proprietary or ATM Plus software if your Distributor or Processor has instructed you to do so.
Otherwise select Standard ATM Software

- Update versions do not include a boot menu and will load the Standard version.

1) Fixed issue from previous version where Serial (non-EMV) card readers would not work correctly.
2) Fixed issue causing balances reported to host to be incorrect (negative or endlessly accumulating)
3) Fixed wrong spanish language on Surcharge Warning screen(Curgo -> Cargo).
4) Adjusted JNL view screen font size(EMV Transaction Comm. error).
5) Master password required to use LOAD SETUP menu.
6) EMV: Set DISCOVER AID Application Version Number = 0001.
7) Update to Voice Guidance (ADA) scripts
8) Record "POS ENTRY MODE" on JNL for Fall Back transactions.
9) Alert customer to re-insert the card on Chip Card read failure.

*******Changed **V05.00.25** ********
- Increased time for 'Card Will Remain Locked During Transaction' screen
- Added 'DO NOT REMOVE CARD' text to all transaction screens (flashing red text at top of screen)

- Some options / parameters from OP menu were added to the Print All Setup report:
Reboot time / Receipt Header on Receipt / Surcharge USE / Surcharge % / Common AID Select
Select Receipt / Comm Error on Receipt / Transfer to Credit / Check Balance

- Multiple changes related to EMV Certification test cases (processor certification)

*******Changed **V05.00.24** ********
- Corrected issue where EMCER error would incorrectly report
- Added 'Download Key' in Host IP Menu (this button forces Working Key Download – same as config)
- Added Extra BIN (enable / disable) to Print All Setup Report
- Force receipt print / display on D0085 error
- Bug fix for ACU6 (modem) and GenRMS
- Bug fix for GenCam (remove cursor pointer)

*******Changed **V05.00.23** ********

- Added ATM Boot Menu (Standard ATM Software & Proprietary)
- Proprietary is for PAI / FIS customers only – Once selected, can be reset within 24 hours by going to Customer Setup → Clear NVRAM Menu and select 'Factory Reset'
- Added updates to improve EMV Transactions

*******Changed **V05.00.22** ********

- New certified ADA script (V2.1).
- CDU Security feature is supported (SCDU / MCDU / HCDU)
- 'Tiered Surcharge' is supported. (requires processor support)
- Display 'Please insert your card completely' if Chip card is not fully inserted.
- Support for Chip Card test(Card Reader Diagnostics) regardless of EMV Enable/Disable, STD1/STD3, CDU non-connection status.

- If EMV cannot be enabled(OP), a reason will be displayed.
- Support Camera Capture for C4000.
- Support uploading of Camera captured image to GenRMS.
- Supported G4000(Onyx Touch) Model.
- If error happens during transaction, error code field is enclosed with '*' rectangle.
- Changed button text for 'COPY SETUP TO SD/USB' -> 'COPY JNL/SETUP TO SD/USB' .
- Default value of SSL version -> TLS1.2
- AP now creates a back up file of Configuration file (If configuration file is corrupted, then it can be recovered with back up file)

- Enhanced GenRMS -> ATM file downloading speed (TCPIP connection only).
This requires update to GenRMS Pro V0.12.17

- Auto Config. request after waiting 3 times, only on dial up connection (D0103, D0104).
- Surcharge 'Master Access Only' is supported.
- Updates to Error Code List
- EMV related fields are supported on journal record.
- Store Log File for Max 30 Days -> 14 Days.
- Display 'Select card type and press Enter to continue' on Multi AID selection screen.
- Delete ACU6 related files on ACU5 board during booting.

* Bug Fixes.
- Fixed Internal Application Error. Supported Auto Rebooting in case of IAE error.
- INTERAC AID compare logic is modified.
- Adjusting screen text font size according to the number of text line at View Journal Screen.
- Modified OP menu button text; COM ERROR RECEIPT -> COMM. ERROR RECEIPT.
- Fixed bug of RMS -> ATM Cash Management function.
- Fixed bug of RMS -> ATM Remote File Explorer function.

- Fixed abnormal AID name printing on receipt.
- Fixed not compressing Log File.

Recovery Software has been updated to now delete any incorrectly loaded files or large logs.

*******Changed **V05.00.21** ********

Features / Updates:

- Added support for bezel alarm LED – 1700W

- Changes to Common AID Support (EMV Transactions Only) if Common AID is enabled, and customers card is supported by a Common AID (MC, VISA, etc) then common will automatically be chosen. If Common AID is disabled, then customer will choose during transaction.

- EMV Chip card test – OP → Diagnostics → Card Reader

Bug Fixes:

- When Com Error on Receipt is enabled, if transaction fails due to com error, customer will receive a receipt regardless of whether or not they requested receipt for transaction.

- BIN List check for EMV Card data

- Default passwords for Service 222222 and Operator 111111 - was previously Service 1's and Operator 2's

- Changes to improve DHCP reconnect

*******Changed **V05.00.20** ********

Feature updates:

- Support or GenCam device on G2500 - G3500 - GT3000 - GT5000 - T4000 - C6000

- Master Keys
No longer requires you to verify keys when entering (EPP-B3 only)

Button Layout is now shown on key entry screen – you can enter all 32 digits of the key on one screen.

Older EPP (B1/B2) will use existing key entry screens
If an error occurs while entering keys or key management mode – a 30 second timer will appear on the screen to count down.

- Extra BIN
New features include an Extra BIN viewer, a BIN count and Print All Setup now shows ExtraBin Count.

Bug Fixes:

- This version contains fixes to correct problems related to EMV / DCC transactions.
ATM will no longer send 9F39 tag when EMV is disabled
Several DCC fixed (RateLookup Response and ApplicationTransactionCounter)

- RMS Send bug fix to correct condition where RMS would try to reconnect every 15 seconds

- Advertising images have been removed from Update file

*******Changed **V05.00.19a** ********

- This version added some changed to improve a problem where non-EMV card readers stopped reading and required reboot to correct.
- Correction / bug fix related to Key Sync Errors
- D0300 error was incorrectly being reported - D3633 (related to Genlink)

This was to be a beta release, however after positive feedback we're releasing ahead of V05.00.20 so customers can apply where needed.

*******Changed **V05.00.19** ********

- Added support for GenCam camera option on Onyx ATM (only)
- Added support for TLS1.1 and TLS1.2 (auto detecting)
- Improved reliability for EMV readers - more time to read / increaded time outs
- Branding Text (enble / disable)
- MAC address is now displayed in OP Menu (TCPIP Setup) and Print All Setup
- CDU type (Genmega CDUs) is auto-detected based on Firmware version

Bug Fixes
Presenter CDU (GT5000 / C4000 / G2500 / Onyx) bug fixed where reversals and rejects are not counted
Fixed bug for AID list (displaying incorrectly)
Fixed bug for multi-cassette CDUs (Set Cassette)
EMV - Select 34 test case bug

*******Changed **V05.00.18** ********
- Support for Genmega DCC Software ('generic' version)
- Added support for GenLink (3G) modem

EMV
- SUpport Common US DEBIT AID(DNA), Common US DEBIT AID (Discover), Japan Credit Bureau AID
- Support for Custom AID (max 10 characters)
- Interac AID removed from US version
- AID Selection order has been changed
- Bug fix for tag 5F24(expiration date) in EMV data field
- Model names change to show Presenter CDU - ie G2500P (P = Presenter)

SSL
- SSL / TLS now auto-detects (no need to set in menu)

MISC
- Surcharge Cancel is now shown in Journal
- Fixed bug where bottom line was obscured in Transaction Result Screen
- Fixed bug where reversal was not sending properly at D2511 error

*******Changed **V05.00.17** ********
- Not publicly released - tested GenLink cellular device - EVM changes / updates

*******Changed **V05.00.16** ********

EMV Changes

- US Maestro, US VISA Common and Discover AIDs are now supported.
- For EMV transactions, the AID Selection screen is now skipped for single AID Chip Cards.
- 'Unpredicted Number' generation algorithm is corrected for EMV transaction.

Host Communications

- Added 'Reversal on HOST error' (OP Menu > Change Processor).
- Added support for SSL V3 and TLS 1.0 (OP Menu > Change Processor > SSL > SSL Version)
- Changed auto configuration request to allow for 3 consecutive host error before triggering ('D0103', 'D0104' error only) D0111 and D0115 will still trigger auto config in each instance.

RMS Support

- Log file upload to GenRMS feature is supported.
- Branding/Advertisement Image and related parameters can be downloaded at one command from GenRMS.
- 'Add Bill Count' from GenRMS is logged in 'CASH LOG'.
- Corrected bug - MCR Alive Check Logic was not working if RMS schedule check interval is 10 minute.

Card Reading / Reliability

- Logic is modified to improve card reading (both Mag Stripe & EMV), This corrects and improves reading reliability over problems found in V05.00.13~15 versions

Misc Bug Fixes

- For security HTTP(Port80 and 443), FTP(Port21), SNMP(Port161) are now protected.
- Corrected probem resulting in random freezing - RPU communication control logic is enhanced in case of No Response from RPU.
- TCP/IP Time out value changed from 20 -> 60.
- Corrected bug with Secure Mode Password.

*******Changed **V05.00.15** ********

Note: This version was also released on some production machines as V05.00.14a2, however we have incremented to V05.00.15

There are a lot of changes in this version, so this broken up into topics. Please read carefully !!

EMV

- This new vesion is capable of doing actual EMV transactions (reading the chip) for processors that are ready to support this.
- EMV (transactions) can now be enabled via Customer Setup --> Optional Functions --> EMV (Enable / Disable)
  *** PLEASE DO NOT ENABLE THESE SETTINGS UNLESS YOUR PROCESSOR TELLS YOU ITS OK TO DO SO ***
- AID List - This will be processor specific, so again do not change these until your processor is ready to support EMV
- AID Name will now appear on the customer receipt (EMV transaction only)

Passwords

- There are now 3 Service Password Accounts Available (Service 1 / Service 2 / Service 3)
  Default service password remains the same (111111)
  If you change only Service password 1, then the other 2 service accounts will change also. For example if you set Service 1 to 123456, then Service 2 and Service 3 will change also.
  This allows you to have several managers each have their own service password and not share one.
  The journal will record which password was used to enter the menu.

WRG Style Cash Loading

- In order to support customers who are accustom to loading cash on WRG machines, we have modfied some cash loading menus to make the transition to our machines a bit easier.
- 'WRG Style' Cash Menu Options are now supported - including:
  - Set Cassette - entering value here changed number of bills in settlement
  - Add Cassette - adds note to the current bill count
  - Subtract Cassette - removes note from current bill count

- Cash Log = log of additions / subtractions to bill count

Receipt Handling

- Customers are now prompted with a new menu for selecting their receipt -> PRINTED - DISPLAY - NO
  - Printed give a printed receipt
  - Display will display the customers receipt (can press Cancel to exit)
  - No - customer will not recieve any receipt notification.
  - 'No' option is not available for Balance Inquiry (or else customer won't see balance) or Transfer transaction (same reason)
  - Receipts will now show more details for Partial / Full Reversal including Code and Message from Host.

Journal
- You can now search Journals by Date and Sequence number.
  - You can choose a 'start' and 'end' dates and print that range.
  - You can also select a 'start' and 'end' sequence number to seach from and print as well

MISC
- Mini-Mech CDU is now supported (With S/M)
- Change to Flicker (LED) blinking speed names - 400=Fast, 800=Medium, 1200=Slow, Solid
- All images being loaded via SD / USB now have properties changed to 'read/write' to avoid problems overwriting images set to read-only
- Location Name has now been removed from the OP menu Main Screen

RMS
- GenRMS Pro is being updated to support many of these features. Release should be V0.9.x

*******Changed **V05.00.13a1** ********
- Corrected problem where EPP could lose sync with mainboard and cause constant D0111 error

****** Changed **V05.00.13** ********
- Changing denomination no longer will wipe out keypad. You must open vault door and remove cassette (or block sensor on TCDU) as instructed in menu.
- Surcharge value cannot be set to "Lesser" or 'Worldpay_Lesser' if surcharge percentage is set to 0%
- Key Management button (for EPP Operation / Maintenance mode) is now supported on rear service panels (T4/GT)
- Changes to Presenter logic (retract note left at shutter)
- Bug fix for changing CDU type (SDD)
- Bug fix for EMV MCR (ACU6)
- Change to default value - Dispense Limit ($400 --> $200)
- Change to default value - MCR Type now = EMV
- Added support for new GenRMS parameters (EMV / AID enable / disable)

****** Changes **V05.00.12** ********

- Print All Setup now shows the Standard 3 Option settings
- GenRMS Pro V0.7.22 also supports Standard 3 Option settings with this version of AP.
- You can adjust how fast the 'flicker' lights above the card reader / printer flash.
  Diagnostics --> Flicker --> you can set the value to 400ms, 800ms, 1200ms and solid (on all the time) you can also test the flicker LED lights in this menu
- Keypad will respond with PDN01 error if Key Mode value in keypad does not match value stored in AP software

****** Changes **V05.00.11** ********

- Change to support additional functions in GenRMSPro (addition items available for modification via setup)

****** Changes **V05.00.10** ********

- V05.00.10 skipped to 11 (only changes to support GenRMSPro)

****** Changes **V05.00.09** ********

- Using the 'blank' key on the keypad during text entry screens will cause the previous character to be repeated.

- Added the ability to copy setup from one ATM to another via SD / USB (for cloning machines). See Journal Menu --> Copy Setup / Load Setup
  - Using this feature will not copy over ATM Serial number or Master Password, but will allow most ATM setup parameters to be pre-programmed.

- Following setup parameters are allowed to be changed from GenRMSPro;
  Master Password, Reboot Time, Dispense Limit, Fast Cash, SSL Certification Enable/Disable

****** Changes **V05.00.08** ********

- Support for SSL Certificate Verification
  Customer Setup --> Change Processor --> If SSL Pass Through is set for "Communications" you'll now have another menu item.

  SSL VERIFY CERTIFICATION (Enable / Disable)
  - If the option is Disabled, then the ATM will not attempt to verify the SSL certificate with the host.
    This is the default setting and will work for most customers.

  - If this option is Enabled, then the ATM will verify the available SSL certificates in attempt to verify the host.
    With this version of software we are loading both a generic SSL certificate and the new Trustwave (TNS) certificate.

  - When this option is enabled, you'll also get a new button for 'Load Cert from USB' which will allow you to load any new certificate as needed in the future.

  For most customers, leaving these settings at default will work.

Two new error codes have been added for this feature:
D2600 - SSL Certification Read Error (cannot read the file being loaded)
D2601 - SSL Certicication Verify Error (file is not matching host)

- RMS Version 10 protocol is supported
New parameter; HOST IP #2, HOST PORT #2, DNS IP #1, #2, LCD SIZE, Memory Information, ACU Information,
Service Version, Welcome MSG Color, Receipt Header En/Disable, Location Name, Coupon Text #2 ~ #4

- CDU Firmware check feature is supported. If wrong firmware detected, machine will not go in service.

- Decimal point is added in percentage surcharge

- C0056 error script is supported

- Beep sound is removed when card is inserted in out of service status

- Bug fixed: When abnormal character is entered in Host IP address

- Bug fixed: Host IP #2 doesn't work if abnormal character is entered in Host IP #1(STANDARD TCP/IP mode)

- Coupon #2 ~ #4 is supported

- Device connection sequence is changed.
(CDU -> SPR -> EPP) => (EPP -> CDU -> SPR)

- Cassette Total/Add Cash by RMS is supported

- MCR type change by RMS is supported

- Journal is logged if setup parameter is changed by RMS

- Surcharge Use parameter for WorldPay is supported(WorldPay Greater/WorldPay Lesser)

- Ignore Surcharge Amount and Config. Request Initiator from HOST when WorldPay option is enabled

- ExtraBin file detailed information is displayed on OP Menu -> Customer Setup -> BIN LIST screen.

- LCD size information is incorrect after updating AP, if AP of different LCD size is pre-installed.

****** Changes **V05.00.07** ********

- Trial Cassette Total is added as a final step of Quick Settlement

- Service Version Code added to Software Report

- 2nd HOST IP & 2nd HOST PORT is supported

- DNS Server IP can be set in OP Menu -> System Setup -> Device Setup -> ATM TCPIP Setup -> CHANGE DNS SERVER.

- CANCE error code is supported when customer presses NO at Surcharge Warning screen

- MCR communication error reset and recovery logic is supported

- Welcome text is adjusted with screen width

- "Thank you" screen waiting time is shortened 5 Sec -> 3 Sec

- Journal compression feature is supported

- Screen Font is changed (ACU5 board only)

- French language is printed on Receipt if French language is selected

****** Changes **V05.00.06** ********

- Added: 'Quick Settlement' this option is in the settlement menu. Pressing this will perform a Day Total, Cassette Total, Ask for number of bills and then print a Trial Day total.

- Added: Manual Config Request: If customer presses ENTER-CLEAR-CANCEL-7-8-6 from the keypad, then the ATM will automatically perform a config request.

- Added: MCR (card reader) test for KYTronics Chip reader - Diagnostic Menu

- Changed: Eject rules for KYTronics EMV card reader, changed to prevent customers card from locking when rubber plug is removed (non-EMV transaction).

- Fixed: Surcharge-change journal entries now report correctly in GenRMS

- Fixed: ATM will now automatically perform config request on the following errors: D0111, D0115, D0103

- Changed: TCPIP connection settings to improve performance
All TCPIP and SSL connection settings / time outs have been adjusted to provide best performance even with high latency.
All customers using wireless TCPIP should see improvements in reliability and transaction com failures / reversals.

- Added the following error code descriptions:

ERR_DESC,D0011=Unauthorized
ERR_DESC,D0015=Transaction not accepted
ERR_DESC,D0030=Invalid transaction
ERR_DESC,D0031=Invalid amount
ERR_DESC,D0042=No Further Withdrawals
ERR_DESC,D0050=Incorrect PIN
ERR_DESC,D2516=Socket error while receiving data
ERR_DESC,D3203=Failure to connect (modem)
ERR_DESC,F0030=PINPAD TK not set
ERR_DESC,F0031=PINPAD NPK not set
ERR_DESC,F0032=PINPAD moving status
ERR_DESC,F0033=PINPAD TK checksum mismatching
ERR_DESC,M0100=CARD READER: Lock sensor Error - Do not try to latch card

****** Changes **V05.00.04** ********

The new software looks different not only to the customer, but the look of the Operator Menus has changed as well. However the menus and sub menus still have everything where you'd expect it to be.

New Features of this software:

- You can now change the color of the Welcome Screen Text - Customer Setup --> Change Message

- RMS will do a 'Test' connection to your RMS PC
In future releases of RMS, this will self-register your ATM within RMS, perfect for TCPIP machines behind routers.

- Read the enclosed guide for how this software works with custom graphics

- The light above the keypad will now turn on when you enter the Operator Menu (for programming in dark locations)

- Health Check will now trigger on Vault Door open (for all machines)

- Any changes you make to the surcharge settings will now show up in the journal

- Our Error Code list has now been updated with more accurate descriptions and resolutions

- If a key-sync error occurs at the machine (D0111 or D0115) the ATM will automatically do a Config Request with the host and fix the problem.

- For Modem communications, you can now select "Modem" or "Modem with EOT Reversal" which requires EOT (End of Transaction) message from host.