

Verifone Petro Software Release Notes

Verifone Commander



Versions and Information

Base Version	54.00.00
Distribution Versions	Verifone EPS 1.07.00 Production Release
Release Date	July 6, 2023
Publication Date	July 6, 2023

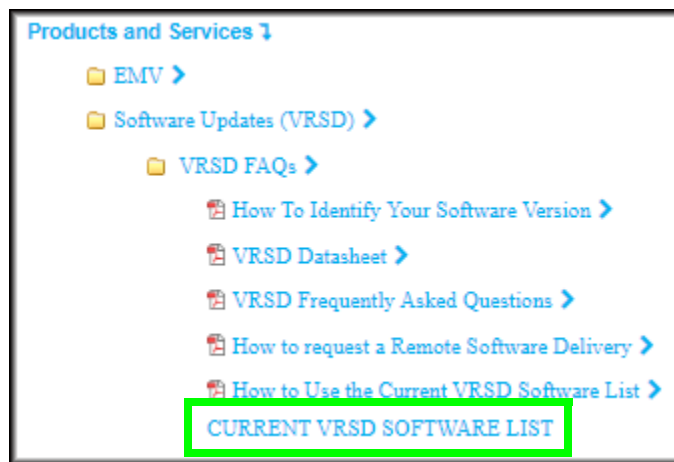
Distribution Components

Base	054.00.00
Verifone Commander OS	1.12.01
EPS	9.04.00
Mobile	1.00.00
RCI	6.00.01
POS OS	5.01.03
WEB	5.05.00

PIN Pad Software Versions

Minimum EVPAY (Engage) Certified Versions

For the EVPAY (Engage) Certified Versions for Verifone M400 and P400, click on [Petro & Convenience](#) and then navigate to Products and Services > Software Updates (VRSD) > VRSD FAQs > Current VRSD Software List. This list is on support.verifone.com at Technical Support > Support Articles > Petro & Convenience > Products and Services > Software Updates (VRSD) > VRSD FAQs.



Minimum EMV Certified Verifone ViperPAY Versions

NOTE: Make sure the minimum OS and any OS Updates are loaded before installing Verifone ViperPAY. See the Verifone ViperPAY release notes.

PIN pad	Version	XPI	Kernel	OS Version
Verifone MX 900 Series	4.07.07	5200w	Velocity L2 7.02I	Minimum - 30140600
				Recommended - 30251000

Viewing the OS version on Verifone MX 900 Series PINpad

1. At any screen, press the numbers 1,5,9 on the keypad at the same time until the password entry screen appears for System Mode.
2. Key in the password.
3. At the Home screen, touch the Information tab.
4. Touch the Basic System tab.
5. Scroll down to "Build" to view the OS version.

Contents

PIN Pad Software Versions -----	3
Important Information-----	5
New In This Version: 1.07.00 -----	7
Enhancements and New Features-----	7
Resolutions -----	8
New In Previous Version: 1.06.43-----	10
Resolutions -----	10
New In Previous Release: 1.06.42 -----	11
Enhancements -----	11
Resolutions -----	11
New In Previous Release: 1.06.41 -----	15
Resolutions -----	15
New In Previous Release: 1.06.40 -----	16
Enhancements -----	16
Resolutions -----	17
New In Previous Release: 1.06.34 -----	23
Resolutions -----	23
New In Previous Release: 1.06.33 -----	24
Enhancements -----	24
Resolutions -----	26
New In Previous Release: 1.16.21 -----	36
Enhancements -----	36
Resolutions -----	39
New In Previous Release: 1.06.07 -----	46
NEW POS -----	46
Installation Options -----	47
Installation Documentation-----	47
Fuel Hardware Peripherals Supported -----	48
Partner and Hardware Options Supported -----	65
Additional Information -----	71

Important Information

Verifone C-Site Management Onboarding Feature

If the Verifone Commander is not onboarded to the Verifone C-Site Management within a certain amount of time, it will not be able to perform merchandise and fuel transactions. See the Verifone C-Site Management User Reference on the Verifone Premier Portal for more information.

APT Support

This Verifone Commander software version requires APT version 1.03.01 software.

Outdoor EMV

Outdoor EMV is only for Trinidad and Tobago locations.

Verifone C18 Self Checkout Application

License

With Base 54.00.00 and higher, each site will need an active license to use the Verifone C18 Self Checkout Application. See your distributor or Verifone sales representative to obtain the license.

Auto Upgrade

The following is important information when setting up Verifone Self Checkout on the Verifone C18 POS.

- If an Auto Upgrade was performed, the Verifone Self Checkout sub-menu will not display under the Configuration Client > Store Operations menu. To enable the Verifone Self Checkout sub-menu, assign the following roles at Configuration Client > Security > Manage Users > User Administration > Configure Roles.
 - uscocategorycfg - Update Verifone Self Checkout Category Configuration
 - uscoglobalcfg - Update Verifone Self Checkout Global Configuration
 - uscoregistercfg - Update Verifone Self Checkout Register Configuration

NOTE: The Verifone Self Checkout sub-menu displays if the Verifone Commander software was installed manually.

Disabling Swipe Ahead on Verifone C18

Sites that do not have a 2D scanner will need to disable swipe ahead in order to process Easy ID or a POP Membership card at the PIN pad. Do the following two steps consecutively:

- On the Verifone C18 POS, disable Swipe Ahead at Maintenance > Device Configuration > PINPAD configuration > EPS PINPAD with Driver License and POP Membership.
- On the Verifone MX 900 Series PIN pad, edit the Config.Usr1 Swipe Ahead value found in System Mode at Home > Administration > Config by entering the Config.Usr1 file. Under the [PERM] section, there will be a Swipe Ahead parameter with a '0' or a '1' value. The value should be set to '0' to disable it. After the change, reboot the PIN pad.

Contact Indoor EMV Certified

This software version supports Contact Indoor EMV.

These Release Notes

These release notes are for both the Verifone Commander and RubyCi.

Wayne and Verifone Secure PumpPAY Keypad Configuration

For the Wayne and Secure PumpPAY DCR configuration, the user is now required to configure the keypad layout located in the Verifone Configuration Client > Forecourt > DCR Key > DCR Keys Configuration. The driver will use the configured keypad instead of using a predefined keypad layout. If an auto upgrade is performed and the DCR key configuration was not present previously, it is expected by the user to configure the keypad for a functional DCR keypad. It can be configured at Forecourt > DCR Key > DCR Keys Configuration and then perform a DCR initialization.

Verifone Remote Software Delivery (VRSD)

The Verifone Commander supports the Verifone Remote Software Download (VRSD) to allow automated software updates from the Verifone servers. See the Verifone Remote Software Delivery Implementation Guide for more information.

FEP Configuration Documentation

See the Verifone Commander Network Configuration Guide.

New In This Version: 1.07.00

ENHANCEMENTS AND NEW FEATURES

Verifone C-Site Management Onboarding Feature

If the Verifone Commander is not onboarded to the Verifone C-Site Management within a certain amount of time, it will not be able to perform merchandise and fuel transactions. See the Verifone C-Site Management User Reference on the Verifone Premier Portal for more information.

Verifone C18 Self Checkout Application

1. Each site will need an active license to use the Verifone C18 Self Checkout Application.
2. The Crane Payment Innovations Cash Recycler is now supported.

Dispensers

1. Bennett Hydrogen Dispensers are now supported.
2. The Veeder-Root TLS-450 is now supported.

EPS System

1. A price tier conflict message is now displayed on the PIN pad when a transaction that has been split with cards mapped to different price levels.
2. Improvements have been made to the EPS Swipe Ahead functionality.
3. The Debit Fee prompt is now displayed before the Remove Card prompt for EMV Debit cards.

FoodService

Paid Mobile Food Orders using VISTA are now supported.

POS System

Tank ID and Nozzle ID were added to the Sales Transaction record of the NAXML Journal Report. It also includes the actual fueling start and stop time/date and the actual fuel meter readings from the dispenser.

Verifone EPS (LAC)

VISA Debit BINs 419167 and 424708 have been added to the First Citizens Bank (FCB) card table.

RESOLUTIONS

Verifone C18 Self Checkout Application

When the customer was using the Verifone C18 Self Checkout Application with a cash recycler, the completed transaction with change given was sent to the POS as a suspended transaction as payment due. This was corrected and now the transaction will not be suspended.

Verifone Configuration Client

The Configuration Client One-Time Password (OTP) generation was not working via EPS Network Functions. This was corrected.

Dispensers

1. The Fueling Position #1 offline notification was missing from the POS terminal. This was corrected and now it displays.
2. Bennett driver initialization failed when the fueling position was a non-Bennett dispenser prior to fuel initialization. This was corrected.

Dispenser Card Readers

1. The "Do Not Honor" message was displayed twice on the DCR screen. This was corrected and will only display once.
2. Pay at pump receipt was missing the discount lines when pump overrun occurred. This was corrected and the discount lines will print.
3. The system was not handling a Bennett abort transaction message correctly. Nothing was displayed on the DCR and then after it timed out, the DCR displayed "Remove Card." This was corrected and now "Remove Card" displays immediately followed by a transaction decline message.
4. PIN bypass prompt was not displaying for American Express on Gilbarco FlexPay IV and II CRINDs. This was corrected and now the prompt displays.
5. In the Asset Data Report for Invenco DCRs, it displayed the Model as unknown and the Firmware was blank. This was corrected and now the fields are populated.
6. Wayne DCR displayed "Not Ready" when PIN entry timed out instead of a prompt to remove card and then a decline message. This was corrected.
7. When attempting to process a fleet card on a Wayne serial alphanumeric DCR, the cancel or help keys were not functioning. This was corrected.

EPS System

1. The Debit Fee prompt was displaying in a refund transaction. This was corrected and the Debit Fee prompt will not display in a refund transaction.
2. The Cashback prompt was displayed after the Remove Card prompt for Debit cards. This was corrected and it will now display before the Remove Card prompt.
3. When a Debit EMV contact transaction with debit fee was sent to the host, it was not successful. This was caused by an incorrect tag. This corrected and now the correct tag is sent.
4. The Debit Fee was displayed twice when rejecting the Debit Fee for an EMV Contactless card. This was corrected.

FoodService

Future Mobile Food Order Report was printing raw HTML text. This was corrected.

Loyalty

Reward cards without a chip were treated as an EMV card. The message "INSERT CARD, SWIPE NOT ALLOWED" displayed on the PIN pad. This was corrected.

POS System

The Verifone Commander and POS became unresponsive at a certain time of the day. A reboot of the Verifone Commander restored operations. This was corrected.

Proprietary Fleet FEP

The "I agree to pay" declaration text was printed on preauthorization Proprietary Fleet transaction receipts. This was removed.

Reports

1. The Fuel Price Change Report displaying zeros for cash total amounts, but there was a transaction count. DCR prompt preset amount was disabled. This was corrected.
2. The Previous and New in the Fuel Street Price Change Report displayed the same value. This was corrected.
3. The age verification sales information was not displaying on the Daily Department Report. This was corrected and now it displays.

Sales

The reference number for Pay-In/Pay-Outs and Safe Drops was not allowing alphanumeric input. This was corrected and now allows alphanumeric input.

New In Previous Version: 1.06.43

RESOLUTIONS

Verifone C18 Self Checkout Application

On the Verifone C18 Self Checkout, the “Returns To Sales” key was not displayed on express panel when a previously rung up item timed out. This was corrected and now the “Returns To Sales” key displays.

Dispensers

1. Fleet dispatch rules were not working. If a merchant had a dispatch rule of three liters per day, the system was ignoring the rule and dispatching more than three liters. This was corrected.
2. The Tokheim driver was failing and was not recovering from the failure. This was corrected.

Dispenser Card Readers

1. There were intermittent issues with the full-service attendant cards not working and DCRs returning to the idle screen after card entry. A reboot of the Verifone Commander resolved the issue temporarily. This was corrected.
2. Driver ID was not masked on the Wayne DCR display. This was corrected and now it is masked.

EPS System

After initiating a Trigger Pull, the POS occasionally would not display the status messages that indicated tables were downloading, validating, and applying. This was corrected and the messages now display.

Sales

Spaces were no longer allowed In-House Charge account numbers. This was corrected and now spaces are allowed.

New In Previous Release: 1.06.42

ENHANCEMENTS

Dispenser Card Readers

1. Invenco was added to the selection of DCR Family types at Tools > Managed Modules > Current Configuration > DCR Channels.
2. Gilbarco M7 firmware will support multiple kernels for versions 42.12.43 and 52.12.43 and higher. Support was added for this option.
3. Debit Encryption Type “None” is now allowed for Wayne DCRs at Verifone Configuration Client > Tools > Managed Modules > Current Configuration > DCR Channels > Advanced Settings.
4. A new configurable option was added for Wayne DCRs at Verifone Configuration Client > Tools > Managed Modules > Current Configuration > DCR Channels > Advanced Settings. The new option is called “Graphic Enhancer”. It contains three levels: LOW, MEDIUM and HIGH. These levels are currently used for font sizes. The LOW level is the default and is the current font size that has been used.

EPS System

The “CAPK Is Going To Expire” message no longer displays to the cashier after the CAPK is expired.

POS System

The application now has the ability to configure and use NACS TruAge online ID verification. Currently, it is used by physically scanning a driver's licenses.

RESOLUTIONS

Verifone C18 Self Checkout Application

1. The “Invalid Product for Card type” message was not displaying on Verifone C18 Self Checkout for Auth and Capture Product Restriction cards. It displayed a “failure” message on the POS but displayed a quick message “Invalid Product for card type” followed by “declined” message on the PIN pad. This was corrected and now Verifone C18 Self Checkout displays the “Invalid Product for Card type” message.
2. On Verifone C18 Self Checkout, the modifier menu was not hidden after the inactivity timer. This was corrected and now the modifier menu is hidden after the session ends.

3. On Verifone C18 Self Checkout, invalid department message was not prompting when a PLU was added without a department. This was corrected and now an error message displays.

Car Wash

Car wash PayPoint was returning an invalid amount when a wash purchase was attempted. This was corrected.

Verifone Configuration Client

1. The word "Update" was misspelled in the description for the role ufoodserviceplumapcfg - "Upadte" Mobile Food Order PLU Mapping Configuration" located in the Configure Roles tab for user manager at Verifone Configuration Client > Security > Manage User menu. It is now spelled correctly.
2. The word "Default" was misspelled in the Sales Parameter Description for FoodService "Default" PLU at Verifone Configuration Client > Store Configuration > Sales Configuration.

Dispensers

1. The fuel system was not supporting a Bennett transaction abort message properly. The was corrected.
2. Forecourt was not honoring the Remote AID selection flag sent from the EPS. This was corrected.

Dispenser Card Readers

1. Some of the prompts were not displaying as expected on Gilbarco CRINDs. When certain prompts exceeded a length of 20 characters, the prompt was split after the first space and the rest of the prompt was displayed on the next line or not displayed at all. This was corrected.
2. The user was unable to save a selection made for "Debit Encrypt Type" for any DCR Family Type other than Wayne. This was corrected and now the other selections can be saved.
3. During EMV Contact transactions, Wayne Anthem DCRs took longer to respond for commands which resulted in a transaction failure. This was corrected and timeout values were increased for different commands specific to Wayne DCRs to allow more time to respond during the EMV transaction.
4. An American Express Contactless card was receiving a "Switch Interface" error at the Gilbarco FlexPay IV DCR. This was corrected.
5. A Discover Global/Common Contactless card was receiving a "Switch Interface" error at the Wayne DCR. This was corrected.
6. User was unable to configure multiple channels for Wayne iX Pay 1 on Serial. This was corrected.
7. An EMV card was inserted into Wayne iX Pay 1 DCR. When the PIN was incorrectly entered, it prompted for the correct PIN three times, and then the PIN was entered correctly the fourth time. The DCR displayed "Processing, Do Not Remove Card" for more than two minutes and then it displayed "Remove Card, Declined." This was corrected.

8. On Wayne iX Pay 1 DCRs, the Maestro and US Maestro AID related outdoor fuel transactions failed due to card read failure in the DCR. This was corrected and now the card read with AID match will be a successful transaction.
9. When processing the EMV configuration during Update Aid Rules, the Gilbarco IP driver was not considering the Modes (contact/contactless/both) that were sent in the request and was applying all the rules for contactless. This was corrected and the Gilbarco driver will consider the modes and apply the configuration accordingly.

EPS System

1. The EPS was sending an approved message to POS, but when the signature capture prompt displayed on the PIN pad and the user pressed CLEAR, the PIN pad displayed a declined message. This was corrected and now the EPS sends a declined message to the POS so that cashier can re-initiate the transaction to choose the MOP.
2. Non-compliant track two data was sent to the host exceeding the maximum allowed data length. This was corrected and now if the track data length exceeds the maximum amount, it will be rejected locally.
3. When an MOP error occurred, the PIN pad remained on the entry screen. This was corrected and the PIN pad will display the appropriate message.
4. An EPS Network Unavailable error message displayed on the POS when user enabled Loyalty from Configuration Client and did not perform Logout and Login. Sometimes, the message would display after a Day Close. This was corrected and transactions will be processed.
5. Manual entry was not working for Balance Inquiry after a bad card read. This was corrected.

FoodService

1. An HTML schema error displayed when opening the Future Mobile Food Order Report. This was corrected.
2. On Verifone C18, the FoodService Enter Name dialog has red button with OK text. This was corrected and now the red button will have Cancel text and end transaction without processing or it will not exist at all.

Loyalty

1. Loyalty Approvals Terminal Batch Report and Loyalty Detail Terminal Batch Report failed to print when prompted. This was corrected.
2. After the "Use Rewards" loyalty prompt was not answered after 60 seconds, the system was trying again. This was corrected and now it will proceed with successful transaction without loyalty rewards.

Mobile

In a mobile transaction, the POS applied a discount on the merchandise. This was represented as a price adjustment in the mobile authorization request to the MPPA. There was no program ID

in the price adjustment since this was a POS generated promotion. The mobile service was expecting a program ID in the price adjustment and then rejecting it. This was corrected and the Mobile service will not fail an authorization request if it contains a sale item with a price adjustment and no program ID. This is for POS discounts only.

POS System

1. The TMU-950 printer did not restore successfully after an auto upgrade. This was corrected and it restores successfully.
2. The “NO ENUM CONSTANT” error displayed when using cgilink commands to pull Merchandise Code. This was corrected.
3. The following T-Log issues were corrected:
 - A missing T-Log message for Gilbarco quick swipes.
 - For POP membership cards, the track data was displayed in the T-Log.
 - Some T-Log messages were not logging the DCR position in their message.
4. When an alarm line message was displayed on the POS, the message remained until the next message was generated or commander was rebooted. This was corrected and the alarm message disappears after the action is completed.
5. When auto upgrading and there was a DCR graphic screen missing from the configuration, it caused the idle screen restore to report a problem which was reflected in the upgrade summary. This was corrected and the error no longer displays.
6. The existing Verifone Commander TLS server certificate caused a “page is not secure” warning when the Verifone Configuration Client (aka ConfigClient or Configuration Manager) was accessed from recent versions of browsers. This was corrected.
7. The Verifone Configuration Client One Time Password (OTP) generation was not working correctly via the EPS Network Functions. This was corrected.
8. DCR Idle Screen Configuration restored with errors after an auto upgrade. This was corrected.

Proprietary Fleet

On Proprietary Fleet card transactions, the declaration “I agree to pay total amount according to card issuer Agreement Thank You” message was printed on the receipt. This message was removed.

Reports

1. Discounts missing from total line on Department Flash Report. This was corrected and now the discounts are on the totals line of Department Flash Report.
2. When printing the Fuel Street Price Change Report and if the fuel price was set to anything other than three decimals, the report displayed a three decimal number. This was corrected and now the report uses the “PPU Decimal Position” value in Verifone Configuration Client.

Sales

1. POP Discount name was missing from the receipt for a Department discount. This was corrected and the Discount name is now printed on receipt.
2. Check ID configured for PLU was overwritten by the Department Check ID configuration. This was corrected and will not be overwritten.
3. The receipts for a postpay with merchandise, manual fuel sale, and cash advance transaction using a commercial fleet card, did not display correctly. The prepay receipt header with network body was displaying in the receipt. This was corrected and now prepay Receipt header with network body will not be displayed in the receipt.
4. POS Numeric Keypad was not saved at previous location when it was dismissed. This was corrected and now it is displayed at the last location where it was dismissed.
5. Price check option was not displayed when the user tried to deselect the ID check item. This was corrected and in the express panel, price check menu will now be present.
6. The user was unable to select an item with ID check after logging back in when the register timed-out. This was corrected and the ID Check now appears.

New In Previous Release: 1.06.41

RESOLUTIONS

Dispensers

When the pump number was selected, Fill Up was selected, grade was selected, and then Yes or No was selected for Member ID, the PIN pad displayed the instructions to the customer, but it went to failure before using a card.

EPS System

Timeout handling for HTTPS requests was updated for the Cloud solution.

New In Previous Release: 1.06.40

ENHANCEMENTS

Verifone C18 Self Checkout Application

1. The Glory Cash Recyclers are now supported on the C18 Self Checkout to accept cash payments. They can be configured on the Verifone Configuration Client at Devices > Cash Recycler > Cash Recycler Configuration. As many as 32 cash recyclers can be configured. See the Self Checkout User Reference for setting up the cash recyclers. An IP address is required for each cash recycler. The cash recyclers are assigned to the Verifone C18 Self Checkout at Verifone Configuration Client > Store Operation > Self Checkout > Register Configuration.
2. On the C18 Self Checkout welcome screen, the customer Image will now fill most of the whitespace and the company message will be configurable. The customer has option to show actual image or fit to the assigned area. The background color for customer image and message color are configurable. The cash and fuel icons will also display on the welcome screen based on availability of the feature.
3. The following features have been added to the Verifone C18 Self Checkout:
 - The Self Checkout will now send a notification when a transaction is suspended by the customer so that the cashier can clear the pending transaction if required. Also, the Monitoring button on the POS was updated.
 - The Self Checkout will now send a notification when it is in Payment mode so that the cashier will know the customer has moved to a transaction payment. Also, the Monitoring button on the POS was updated.
 - As part of Self Checkout Monitoring, the Transaction Suspend, Payment, and Payment Failure icons were added to the Cashier POS. Also, "Show Item Quantity and Transaction Amount" was added to the Cashier POS.

Dispenser Card Readers

1. Gilbarco drivers have been enhanced to support EMV fleet tag prompting for both Contact and Contactless EMV.
2. When a Commercial Fleet card is used on a fueling position that does not prompt for grades, the dispenser will now prompt which grade(s) will be dispensed before going to the host for approval.
3. Gilbarco non-sensitive log data was masked making it difficult to understand and analyze logs. Now only sensitive data is masked.

EPS System

1. Inside Contact and Inside Contactless are now enabled by default and cannot be changed.
2. Improvements have been made when a PIN is bypassed for EMV contactless transactions.
3. Tag 9F6C based PIN prompting is now performed for Visa only.

POS System

1. Security Enhancements to Validate End-points for connections between Commander and certain remote hosts.
2. The product name in the Petro Suite Installer was changed from “Site Controller” to “Verifone Commander.”
3. The Petro Suite Installer program (PSI) inadvertently allows the user to avoid specifying their choice at the hard drive (HDD) formatting prompt, thus leaving the HDD format state unchanged when the form is submitted. If the HDD was previously unformatted, this will result in the Commander getting stuck at the “A8” state. This enhancement requires that the user make a choice. On the PSI “HDD Information” form, the user will not be allowed to avoid making a choice of whether to format the HDD or not.

Sales

The following enhancements have been made to the Manufacturer Coupon functionality:

- A coupon validity check is now made on the item in the basket.
- Product code based restrictions will be checked when applying a coupon such as for fuel reduction. Fuel reductions should only be performed through a loyalty program.
- The POS now prompts for the entry of an coupon expiration date.

RESOLUTIONS

Verifone C18 Self Checkout Application

1. When the Spanish Locale was enabled on the C18 Self Checkout, the App Selector Icon was displayed on all of the screens. This was corrected and now it only displays on the idle screen.
2. On the C18 Self Checkout, after flipping the display from cashier to customer or customer to cashier, the application selection was unresponsive when the application selector was open.
3. After an Auto Upgrade on C18 Self Checkout, Register Configuration was not taking effect upon logout and login. This was corrected and now the Register Configuration will take effect upon logout and login.
4. When both the Ok and Cancel buttons were configured and max length text was assigned on both, the text was outside extending past the button border. This was corrected and both buttons will now accommodate the 24 character length text within the button borders.

5. When canceling the Order Menu chain on Verifone C18 Self Checkout, the message Press X to Continue displayed. This message was removed because there is no X icon.

Verifone Configuration Client

1. When a site was auto upgraded from Base 51 to Base 53, there were FIS loyalty host download issues. The Verifone Configuration Client was timing out after two minutes when there were more than 4000 cards in the loyalty card tables. This was corrected by extending the timeout for the loyalty cards up to four minutes. Also, the manual entries for hybrid cards are not recreated on loyalty table downloads.
2. The DCR Authorization amount was unable to be changed and saved at the FEP Card Type in Verifone Configuration Client > EPS Configuration. It can now be changed and saved.

Dispensers

1. When pump stop occurred on a failed transaction, the system populated the sale data from the last successful fuel transaction on the failed transaction itself. If the Verifone Commander was rebooted within a three transactions, this particular transaction was perceived as an uncommitted transaction and then committed again, causing incorrect values in Fuel Hose Report. This was corrected and data won't be used from failed transactions.
2. The POS was not sending certain Wayne dispenser information such as firmware, OS version, and model as part of the Site Asset Data to the EPS. This was corrected and now it is sent.
3. PetroVend sales were dropped when dispenser poll errors were present. This was corrected and it allows PetroVend to keep its preauthorization open and accept sale data when there are delays in arming a pump.

Dispenser Card Readers

1. When a Chip Card was inserted by user after selecting the Rewards option from the idle screen or during Loyalty after payment, it caused the termination of the transaction without any message for the user. For the Loyalty after payment, the card was clamped in the Wayne DCR. These two issues were corrected.
2. Verifone Secure PumpPAY CRIND remained at "Remove Card" after the EMV payment card was removed. This was corrected.
3. The DCR was displaying "Cannot" instead of the "Cannot buy product on pump" message when none of the fuel grades were allowed to be purchased with a WEX card. The DCR now displays the "Cannot buy product on pump" message.
4. The DCR was not prompting for POP Discount for pay inside transactions. This was corrected.
5. There were looping issues with Wayne DCRs when trying to display secure prompts for data entry. These issues were corrected.
6. Occasionally, the DCR would lock up usually in the morning hours and display the BIOS screen. It would also happen if the DCR was restarted by power cycle or DCR Driver

initialization. This was corrected and now the DCR will not lock up with the BIOS screen displayed.

7. For Contactless PIN Bypass DCR transactions, the Enter key was not mapped to a correct key press event and the transaction was declined. This was corrected and is now mapped correctly.
8. When a Contactless VISA US DEBIT PIN was bypassed on a Gilbarco M5 DCR, the transaction was declined. The transaction is no longer declined.
9. After performing a Petro Suite Installation (PSI) or Auto Upgrade, occasionally, the Gilbarco DCR locked up at the Loading Secure Prompts message. The DCR did not recover after performing a DCR Driver initialization. the Gilbarco DCR no longer locks up after a Petro Suite Installation (PSI) or Auto Upgrade.
10. If the EMV card was inserted when the Wayne DCR synchronization was in progress immediately after loading the idle screen, the card was clamped until it timed out. This was corrected and it will now be handled correctly.
11. The EPS was sending multiple "Remove Card" prompts in a single transaction and the Wayne DCR driver was unable to handle it in some certain scenarios. This was corrected.
12. When a chip card was inserted after selecting the rewards option at the idle screen or during loyalty after payment, the Gilbarco DCR locked up on a blank blue screen. The system now handles the transaction correctly.
13. If the EMV card was inserted when the Wayne DCR synchronization was in progress immediately after loading the idle screen, the card was clamped until it timed out. This was corrected and it will now be handled correctly.
14. DCR transactions were finalizing full preauthorization amounts and they were displayed as being negative in the Network Summary Report. This was corrected and they will now finalize for the pumped amount as positive in the report.
15. With multiple grades or products, the transaction was completed with an amount more than the specified limit under Unattended Dispenser Card Reader. This was corrected and now the transaction will complete within the specified limit.
16. When the Wayne DCR entered diagnostic mode and then attempted to back out of diagnostic mode, the DCR locked up and then a DCR initialization unlocked it. This was corrected.
17. On Wayne Anthem DCRs, its card reader was not locking the card and allowed the customer to remove card (quick swipe), so therefore it caused flow issues. The Anthem displayed "Transaction Canceled" message and required DCR initialization to return back to the idle screen. This was corrected and now the DCR will display "Please Read Your Card Has A Security Chip Do Not Remove Until Prompted Wait To Reinsert Card."
18. The following possible issues were occurring on the Verifone Commander due to the system running low on memory.
 - Initially, the POS acted slow when cashier was ringing up fuel prepay or just viewing a pump to see what was happening.
 - DCR transactions took longer progressively.
 - Gradually, system reached a threshold where the DCR transactions came to halt (declined even after card approval) one pump after another.

- POS no longer was able to ring up fuel prepays and alarm line indicated “Error communicating with fuel server”.

These were corrected and now the available memory on Verifone Commander remains stable and adequate.

19. When Debit Encryption Type was set to “None”, it caused the DCR to lock up during a MSR Debit transaction and then displayed the prompt “Enter Data”. When encryption type was set to anything else (DUKPT or GSM) everything worked correctly. This was corrected and it will now work when “None” is selected.
20. Offline PIN transactions were not working on Invenco DCRs. This was corrected.
21. The response time was more than two minutes when the PIN was entered incorrectly more than three times and then the correct PIN was entered the fourth time. This was corrected and the response time has been reduced.
22. When the DCR was configured for multi-grade selection feature, multi-grade fuel selection was not prompted to insert any EMV chip cards. This was corrected.

EPS System

1. When the Verifone Commander was connected to a Third Party POS and had the correct time with NTP server time, the POS time was off by two minutes even though NTP was enabled and the time sync was set to POS. This was corrected and now the Verifone Commander will sync the time with the POS.
2. When a common global MasterCard was inserted, the DCR prompted for Debit MasterCard and US Debit instead of PIN bypass. This was corrected.
3. When swipe ahead was disabled and EMV initialization was completed on login, the PIN pad displayed a blank screen or “EMV configuration in progress” message displayed based on some EMV configurations. These were corrected.
4. Trigger pull functionality was failing. Trigger Pull is now successful.
5. Contactless Visa was not prompting for PIN on 9F6C tag and the transaction went to the host. The card now prompt for PIN.
6. The PIN pad displayed “Show card to the cashier” message after the approval message for a credit transaction. This was corrected and now the “Show card to the cashier” message will not display.
7. On core EPS, the MID, TID, and CAIDs (Card Acceptor Identification) were printing on all indoor and outdoor receipts. They are now all masked on the receipts.
8. When the EPS restarted, the PIN pad was taking approximately five minutes to get into the swipe ready mode due to the PIN pad update process at startup. This was corrected and only the MX 900 Series PINpad will be updated.
9. Loyalty Alternate ID was not populating on the PIN pad after an auto upgrade.
10. Mastercard Fleet cards were not prompting and declining on M400 and P400 PINpads.
11. Online PIN was prompted for Visa contactless card even though transaction amount was below CVM limit. This was corrected.

12. Proprietary Fleet cards that start with 7211 and 7104 were not processing. The PIN pad displayed “Swipe card” prompt again or “Swipe not allowed.” This was corrected.
13. EPS Network Report was out of balance. When the chip card was declined with AAC, the system added it to the local totals. This was corrected.
14. American Express Contactless indoors and outdoors stopped working after an EPDL download. Contact is working correctly. This was corrected.
15. The Auto Upgrade was not preserving the Time Sync settings and reverting to old values when set to POS-NTP prior to the upgrade. This was corrected.

Incomm FEP

Incomm refund transactions were declined with “E03 SALE DECLINED” error message. This was corrected.

Loyalty

1. Loyalty transactions were failing to send a finalized request. This was corrected and the finalized request is now sent.
2. Split tender with Cash and an EMV Card was not working when the “Prompt for rewards only on fuel” was enabled. This was corrected and now the split tender with Cash and an EMV card works as expected.

POS System

1. The site asset data was incorrectly handled even though the device details were mentioned correctly. This was corrected and now the site asset data is handled correctly.
2. When a Free POP transaction was selected from the Reprint Window, the receipt was blank in the preview section. This was corrected.
3. Momentarily, the Verifone Commander configured for fuel displayed the “Call HD X-##” error message along with other various characters. After a short period of time, the error was replaced by “System OK”. The error is no longer displayed.
4. After Auto Upgrade was completed, there was a pairing error prompt on the POS display. This was corrected and now the Auto Upgrade will complete without errors.
5. T-Logs were not displaying loyalty information for Barcode and Alternate ID cards. This was corrected and now the T-Logs display the information.
6. Intermittently, the POS and PIN pad locked up when approving a pump. The POS displayed “Error approving pump” message. The PIN pad displayed “Approved” message. This was corrected and both no longer lock up when approving fuel.
7. When auto upgrading via USB, it failed with the message “Transfer Failed! Internal Error.” This was corrected.
8. There was an inability to connect to the VIPER EPS page. This was corrected.
9. The “taxForgivenAgainst” object was missing from the T-Log when loyalty discount was applied. This was corrected.

10. When the Electronic Fuel Sign device went offline, the device status changed between Busy and Offline. This was corrected.

Sales

1. On Refund transactions with manual EBT MOP, the POS auto-fills the MOP amount to the full refund amount including tax. On the receipt, it displays the Tax Credit as "change due." This was corrected and the Tax Credit will now display correctly.
2. Topaz locked up when Rest In Gas amount was keyed in using the physical keyboard. The Topaz will no longer lock up.
3. A Verifone Commander on Base 53.03 using the EF Variant was unable to tender a prepay overrun. This was corrected and site is now able to tender prepay overruns.
4. The CSR Function was displayed instead of Error Correct when a claim was made using the Fuel Pump key. This was corrected and the Error Correct key will be displayed.
5. When Rest in Gas was pressed and any amount lesser than the price of the PLU was entered, insufficient amount error was not displayed on the POS, instead of accepting the value which was entered. This was corrected and now Insufficient amount error displays on the POS.
6. POS Reprint was printing the receipt incorrectly when a Free POP Award or AutoGen POP Code was involved. It now prints correctly.
7. When a multiple manual percent discounts were applied on sub-items, they were not calculated correctly. This was corrected.
8. The following Manufacturer Coupon Feature issues were corrected:
 - "Tax credit" line was missing from the receipt when coupon and loyalty discounts were applied.
 - Coupon error messages were missing when loyalty was enabled.
 - Incorrect taxable amount was displayed when non-taxable qualified and taxable qualified item was sold together.
 - Incorrect taxable amount was displayed when non-taxable and taxable item was sold together.
 - Incorrect taxable amount was displayed when qualified (taxable) and non-qualified (taxable) item was sold together.
9. The POS was overcharging the card when there was a loyalty reward and a negative PLU item in the transaction. This was corrected.

New In Previous Release: 1.06.34

RESOLUTIONS

Verifone C18 Self Checkout Application

When using the Order Screen Lookup on Verifone C18 Self Checkout, the button text was missing and other configurations were not displayed. Also, when selecting Order Screen Lookup, and IO exception error was displayed. These were corrected.

Dispensers

When money in a fuel prepay was sent to a pump, the customer did not get fuel and the fuel prepay disappeared from the POS. The cashier had to perform another fuel prepay for the customer but the sequence of events caused the cashier to come up short on the reports. This was corrected.

Dispenser Card Readers

Occasionally, the DCRs lost communication with the POS and displayed poll errors. The customer was able prepay inside, but the sale came due after pumping gas. The cashier needed to press the pump number for it to complete. The DCRs no longer lose communication.

EPS System

1. Sites were having issues with batches being out of balance. The POS was sending up an additional completion with the batch that the host was not capturing, on both the initial and retransmitted batches and therefore causing out of balance batches. This was corrected and now they are not out of balance.
2. After performing a cash transaction, the PIN pad displayed waiting for cashier message and then the next transaction failed. This was corrected and the next transaction will proceed as expected.

FoodService

On a Mobile Food Order, the POS locked up and required a reboot to clear when an unassigned key was pressed along with input. This was corrected.

POS System

1. Occasionally, if a site with Base 52.16 and higher software that wasn't upgraded frequently to newer versions, the Auto Upgrade would sometimes fail due to large amounts of data on the

system during the backing up process. This was corrected and additional time has been added to the back up process.

2. When trying to enter a name, the space bar was not enabled on the keyboard. It prevented inserting spaces between words. This was corrected and the space bar is now enabled.
3. When Electronic Fuel Price Sign communications were first established, they would stop communicating shortly afterwards. They will now continue to communicate after being established.

New In Previous Release: 1.06.33

ENHANCEMENTS

Verifone C18 Self Checkout Application

1. The “Loyalty Customer Y/N?” prompt has been added to the transaction flow on Verifone C18 Self Checkout.
2. A system configuration property “allow.sco.prepay” has been added for Verifone C18 Self Checkout Fuel Prepay and will default to “no”. When changing property value, the update can be applied at Verifone Configuration Client > Tools > Refresh Configuration or by logging out and in without reboot.
3. Fuel prepay transactions are now supported in the C18 Self Checkout. The customer will press the Fuel Prepay button. They will be prompted for a pump number and then the dollar amount or volume. The fuel panel on the POS register will be updated according to fuel prepay. The fuel prepay can't be suspended. The “Pay at counter” button will not be displayed when prepay item is in the transaction and cashier help is requested.
4. The App Selector is now supported on the Verifone C18 POS. This feature allows the POS to switch from Cashier Mode to Self Checkout by pressing the blue icon on the idle page. After pressing the icon, the POS displays Point of Sales mode or Self Checkout mode. After selecting Verifone Self Checkout and the application transitions, the C18 screen can be rotated to the Customer side. Also, the cashier can flip the screen and self checkout application will start automatically. There is no need to use app selector blue icon.
5. Whenever the customer clicks Call Cashier on the Verifone C18 Self Checkout, the event will be journaled.
6. The Verifone C18 Self Checkout “?” Help icon has been changed to “Help” in the upper right-hand corner of the screen.

Verifone Configuration Client

The parameter name “SSL” has been changed “TLS” throughout Verifone Configuration Client.

Dispensers

1. A Minimum PPG setting called “Minimum Street Price” has been added at Verifone Configuration Client > Forecourt > Fuel Configuration > Fuel Products for fuel so that fuel prices cannot be set below this amount. A security level was added in order to restrict the changing of the fuel price. The user can enter a minimum street price for each grade and it prevents from forgetting the 0.9 cent. Discounts from POP and Loyalty can reduce the customer's price per gallon below this value.
2. Performance improvements have been made to the Fuel Drivers.

Dispenser Card Readers

1. All available Wayne version and status information will now be logged for tracking and analysis.
2. Charitable Donations is now supported at the DCR.
3. DCR soft keys are now shaded and aligned in a way so that the user knows that it is a touchscreen for input.
4. The PIN Bypass option requirement has been added on PIN entry screens for EMV Contactless.
5. NFC Mode will default to MSD contactless for sites previously having RFID enabled set to true regardless of the EMV enabled.

EPS System

1. Sites can now configure their active loyalty programs to support Apple Pay VAS (Value Added Services) for loyalty entry. Customers can take advantage of the site's loyalty programs when paying with an Apple Pay device that has been configured with loyalty passes. Also, the site can send configured Loyalty program Pass IDs to the Apple Pay enabled PIN Pad. This will allow the PIN pad to accept loyalty entered via the customer's mobile wallet. This benefits the customer of not having to carry separate loyalty cards or enter Alternate IDs to access their loyalty awards.
2. Apple VAS (Value Added Services) will now have Spanish translation support.
3. The system was generating inconsistent messages when an EMV card was inserted at a DCR that contained soft keys for Debit or Credit on the DCR screen. The customer was selecting one option and then doing something else. The transaction flows have been enhanced to eliminate the inconsistent messages sent to the host.

Loyalty

When the loyalty host sends a message, the system displays them sequentially. Now, they will be displayed at the same time if the target device of these messages are different so that the wait time is limited.

POS System

1. A feature is being introduced called Verifone POS Workstation Pairing. It pairs each Verifone POS Workstation with the Verifone Commander. The Pairing process establishes a trust relationship between the Verifone Commander and each Verifone POS Workstation and creates secure communication links.
2. The Verifone RubyCi startup performance was improved.
3. POS performance has been improved when performing ID checks and other prompts.
4. Performance improvements have been made on the POS Express Panel.
5. There were performance improvements on the Daily Message functionality.
6. Verifone Self Checkout Monitoring is an enhancement that includes an integrated monitoring mechanism between POS and Verifone C-18 SCO at the store in order to offer assistance to customers when required.
7. System Information will now be sent in the Site Assets for Verifone Commander and POS.

Sales

1. On the Cashier POS display, the DCR Calling Icon was modified from a “Car with Credit Cards” to just “Credit Cards” displayed on the icon.
2. Performance improvements have been made to fuel transactions when reserving a dispenser.
3. Performance improvements were made to the input and message overlays on the POS and Verifone Self Checkout.
4. The system now has the ability for cashiers to enter a partial amount for network cards instead of letting the payment network response reduce to zero and move to next the MOP.
5. The Cashier Login ID can now be changed to an Employee Number by enabling it at Configuration Client > Store Operations > Sales Configuration > Sales Parameters > Employee Number Login. The feature does not allow duplicates. If attempted, a message “Employee number already used: [1234]” displays.
6. The ID Check Required prompt has been changed to “Must be born on or before MM/DD/YY.”

RESOLUTIONS

Verifone C18 Self Checkout Application

1. On Verifone C18 Self Checkout, during a fuel prepay transaction with loyalty, the POS was displaying “Loyalty Price Per Gallon Request.” This has been changed to “Follow PINpad instructions” similar to loyalty in a merchandise transaction.
2. After the customer selected “Choose PINPAD” from the “Scan Loyalty Barcode or Enter ALT ID” prompt, the Verifone C18 Self Checkout was not displaying the follow PINPAD instructions text. Instead, it displayed the Credit payment message. It was not directing the

customer that the loyalty card should be swiped on the PIN pad before payment. It now displays the "Follow PINpad instructions" message.

3. On Verifone Self Checkout and in Cashier Mode, when entering data for ID Check items and pressing OK, cancelling PIN pad session message overlay was displayed. The cancelling PIN pad session message overlay should not be displayed for providing data to ID check.
4. The Verifone C18 Self Checkout application was not retained after an Auto Upgrade. The Verifone C18 Self Checkout application will now be retained after an Auto Upgrade.
5. The following Verifone C18 Self Checkout issues were corrected:
 - Movable Numeric Keypad was not retaining its last location after being canceled.
 - When performing a Price Check with ID Check, the screen was locking up on the age restricted message overlay.
 - Numeric Keypad was hidden or dismissed upon ringing up a PLU from the Welcome Screen.
6. The Operator Display was not clearing the detail after a void ticket transaction on the Verifone C18 Self Checkout. It will now clear the detail.
7. On Verifone C18 Self Checkout and in Cashier Mode, Trigger Pull Failure overlay message was not displayed. The message now displays.
8. On Verifone C18 Self Checkout, after the cashier was called by the customer for an age restricted item and when the cashier logged into Cashier Mode, the Age restricted item category screen was not displayed for the cashier or the system will block access to the CSR Functions. These issues were corrected.
9. On Verifone C18 Self Check Out, the Screen Configuration was not backed up and restored after an Auto Upgrade. it will now be backed up and restored after an Auto Upgrade.
10. On Verifone C18 Self Checkout, the Cashier, Register, and Drawer details were printed in receipt footer for declined EMV transactions. These details are no longer printed.
11. On Verifone C18 Self Checkout, Exit (X) icon on the Express Panel was enabled and functional when the ID Check prompt was present. The Exit (X) icon will now be disabled at the ID Check prompt.
12. On Verifone C18 Self Checkout, Numeric Keypad keys were grayed out after Inactivity Timer ended when there was no response to the ID Check prompt. Number keys will be enabled and allowed to key in any numbers.
13. On Verifone C18 Self Checkout, when the customer answered Yes to the Reward Customer prompt, selected Alt ID option and then entered the Loyalty PAN number on the PIN pad, an error message was not displayed. Manual entry of the Loyalty PAN number is not allowed. An error message will now display.
14. On the Verifone C18 Self Checkout Reprint panel, the fuel amount was displayed incorrectly when a fuel tax was added to the sale along with a POP Discount. The fuel amount will now display correctly.

Verifone Configuration Client

1. When the user switched the locale property from English to Spanish, they were unable to access Verifone Configuration Client. This was corrected.
2. After an auto upgrade, the Fuel Products and Fuel Positions may have been unavailable in Verifone Configuration Client. This was corrected and now they are available after an auto upgrade.
3. In Verifone Configuration Client, the message displayed OTP (One-Time Password) was generated but it did not display on the Verifone Commander. The message will not display if the OTP is not generated on the Verifone Commander.
4. Item Selection values for Function Type were not displayed correctly at Configuration Client > Touch screen > Panel Configuration > Click on Add button and then choose any key choose Type as Function. Item selection values for Function Type will now load properly.

Dispensers

1. Commercial fleet cards were allowed on a non-commercial regular fuel dispenser when indoor prepay sale with amount was tendered. This was corrected and now they will only be allowed on commercial dispensers.
2. Commercial Fleet Prepay option was enabled on the POS Fuel Panel View even though it was disabled in Fuel Position Configuration. It will now be disabled on the POS Fuel Panel View when disabled in Fuel Position Configuration.

Dispenser Card Readers

1. When a site auto upgraded to Base 53.27.00, serial connected Gilbarco DCRs were not loading. This was corrected.
2. Wayne Anthem DCRs were locking up during an EMV Quick Swipe. This was corrected.
3. On a Wayne DCR, while performing chip card transaction, if the card was removed the moment EMV processing was complete and before the remove card was displayed, The Verifone Commander Fuel system was unable to clear the remove card prompt after it was displayed. This was corrected.
4. The following Commercial Fleet card issues were corrected:
 - Refunds were not printing a signature line on the receipt.
 - When the host was down, a failure message was not displayed to the cashier during Fleetcheck MOP transaction.
 - Commercial Fleet card transactions were not printing a signature line.
5. When the product restriction was enabled for car wash and the EPS was not sending it to the POS in card preauthorization, the DCR still prompted for car wash for Visa Fleet cards. This was corrected and the DCR will not prompt for car wash when restricted.
6. Dispensers were not coming out of pump stop in the morning when the site opened for business. When the dispensers were re-authorized at the POS, they appeared to be ready, but the DCR displayed "Pump Stopped". This was corrected and now the dispensers will be ready to fuel.

7. On Wayne DCRs, after a transaction completion, the idle screen refreshed twice and if a card was inserted during the refresh, it remained clamped until a DCR Initialization or reboot was performed. This was corrected and now the card will not remain clamped if inserted during DCR screen refreshes.
8. "Chip Read Failed, Pay Inside" displayed for one second and then "Declined" was displayed. The failure message will now display for three seconds.
9. Intermittently on Wayne DCRs, there was a long delay after the remove card prompt on EMV contact transactions. This was corrected.
10. Intermittently on Wayne DCRs, when the card was inserted to begin an EMV transaction, it remained clamped until a DCR initialization was performed. The DCR will now release the card when the read process is complete.
11. Intermittently on Wayne DCRs, there were card clamping issues when handling Quick Swipe transactions. These issues were corrected.
12. After the dispensers were at the idle screen, an initial EMV Initialization caused the Wayne ixPay dispensers to reboot. When they returned to the idle screens and a second EMV Initialization was performed, the dispensers worked as expected. This was corrected.
13. When a DCR card transaction was rejected by the host, the next mobile transaction failed. This was corrected.
14. After a DCR Initialization, the Gilbarco M5 and M7 DCRs displayed "Loading Secure Prompts" in an endless loop.
15. In some cases, fuel and DCRs were out of sync if a prepay was in progress and there was an EMV Initialization at the same time. This was corrected and now the prepay will complete first before the EMV Initialization starts.
16. The DCR was allowing two retries for the customer when an invalid membership ID was used. However, the message "Invalid POP member ID. Please Re-try" was displayed on the third attempt too. The Member ID accepted or rejected message was not displayed to customer, but the POP Member ID discount was applied and details were printed on the receipt. A message has been added that notifies the customer that maximum retry limit was reached/exceeded after third invalid attempt of membership ID.
17. When a chip card was inserted in the DCR following a loyalty card mag-stripe read and before the CRIND displayed the "PAY HERE Y/N?" prompt, it appeared that there was an attempt to read the chip card, but then it failed and then the DCR displayed "Please See Cashier". The transaction proceeds as normal operation.
18. The following Commercial Fleet issues were corrected:
 - Gilbarco M7 10" DCR displayed as "Enter License Number." This was changed to "Enter License Plate Number."
 - Store and Forward transactions were not printing prompts. The prompts will now print on the receipts.
 - If authorization amount was greater than Stand-In limit, the transaction failed. The lower of the two amounts will now be used as the authorization amount.
 - After prepaying for fuel inside with an EMV card and then completing the sale outside, the final receipt printed at the pump had a signature line on the bottom. The signature line is now removed.

- If the transaction had only merchandise and no fuel, the DCR was not displaying “See Cashier.” It went back to the idle screen. The DCR now displays “See Cashier.”
 - Duplicate records displayed in the Receipt Reprint Transaction List when more than one transaction has the same Transaction Time value. This was corrected.
 - When the cashier entered amounts for purchase or refund, only asterisks displayed. Amounts are now displayed.
 - Commercial transactions were not deleted after a Period Close. They are now deleted.
 - “Enter Vehicle Number was displayed instead of “Enter License Number” on the DCR. This was corrected.
19. After tapping on the contactless reader, the DCR returned to the idle screen without completing the transaction even though it sent EMV contactless data. The DCR will now complete the transaction.
 20. When a chip card was inserted in the card reader following a loyalty card mag-stripe read and before the DCR displayed the “PAY HERE Y/N?” screen, it appeared there was an attempt to read the chip card, but then it failed and displayed “Please See Cashier”. The transaction will now complete.
 21. When cancelling chip card transactions at the PIN Prompt Screen, the DCR displayed “Transaction Declined” instead of “Transaction Cancelled”. When cancelling MSR transactions at the PIN Prompt Screen, the DCR displayed “Transaction Cancelled”, but then 2-3 seconds after, it displayed “Required Input was not entered” instead of going to idle screen. These transactions will now display the correct messages.
 22. The Gilbarco M7 DCR locked up with the “Remove Card” prompt until it timed out. The DCR will no longer lock up.
 23. DCR soft keys were not shaded in boxes and it made the customer unaware to press the button. The DCR soft keys are now shaded.
 24. DCR transaction Receipt was not printing after fueling when the POS lost communication with the EPS. The receipt will now print when the POS to EPS is offline.
 25. A card was clamped and the customer was unable to remove if they inserted the card during the reward program's “Pay Now” screen without selecting any options. The customer will be able to remove the card.
 26. When a Wayne iX Pay 1 DCR did not fully clamp the EMV card as expected, it allowed the customer to remove card (quick swipe) and caused flow issues. The system will now detect quick swipe when the customer removes the chip card during the “Please Do not remove card” prompt. The DCR will display a warning message “Please Read! Your card has a security chip, Do not remove until prompted, Wait to reinsert” and it will also prompt for “Please Remove Card” with beeper sound if card is detected in the Reader while warning message is displayed.
 27. For MSD Contactless transactions, the DCR reader made an audible beep but the idle screen remained. The transaction will now proceed.
 28. When the MSD configuration was sent as part of the DCR Initialization, the reader did not apply the configuration sent in the first attempt. This will now be applied.
 29. When the POS terminals were shutdown when the site closed and then powered up in the morning, the POS locked up with the “Starting up, Please Wait” message. This was caused

by the DCRs in a looping state. The POS will now launch successfully and the login page will display.

EPS System

1. When the POS or Verifone Self Checkout logged into the EPS with swipe ahead disabled, it appeared the PIN pad diagnostics was not starting as part of the POS login. This diagnostics happened only as part of the first transaction from the Verifone Self Checkout. This caused an EMV initialization issue before running any transaction on Verifone Self Checkout after cashier logged into it.
2. The system was not restricting certain product codes when a Fleetcor card was used. This was corrected and now these product codes will not be allowed.
3. When the customer swiped the card and the system read the MSR data, the PIN pad was not prompting to insert the EMV card. The system now prompts to insert the EMV card.
4. On Verifone Self Checkout, when selecting and scanning the barcode secondary loyalty on Verifone ViperPAY, it resulted in an error and the discount was not applied. Upon scanning the loyalty barcode, card will now be accepted and discount will be applied.
5. The card price tier settings were not saved after an auto upgrade. This was corrected and now they are saved after an auto upgrade.
6. There was an issue where the system was experiencing high CPU usage for a long period of time. This issue was corrected with FEP State Indexing.
7. Dealer Information was not sent in the POS Configuration Update, because it was not saved after the Auto Upgrade. It is now saved.
8. WEX DCR prompt for data was not updated after an Auto Upgrade from an older base. Prompt for data is now updated.
9. The EPS processed Contactless ICC cards even though the EMV Configuration was set to Contact after an Auto Upgrade. The PMC will now process cards as Contact if configured after an Auto Upgrade.
10. WEX outside transactions were not prompting for data. They now prompt for data.
11. Verifone RCI scheduler stopped checking in to the host hourly. Verifone RCI scheduler now checks in.
12. The payment system has been optimized to process the Day Close when a site has a large number of fueling positions so that they can operate business as usual.
13. When Authorization on Total and Loyalty were enabled, EBT swipe ahead transaction was performed, "No" was pressed at the Rewards Y/N prompt, and then Total with Credit MOP were pressed, it resulted in an "Invalid PIN Block" error message. The error message will no longer display.
14. The PIN pad was displaying declined messages for approved transactions. This was an intermittent issue during the first few transactions after an Auto Upgrade. The messages will no longer display as declined.
15. When AUX network transactions failed, they were not sent back to the POS for handling, but instead the VIPER was returning a declined message resulting in a failure/inability to handle

as an AUX network transaction. The AUX network transactions will now be sent back to the POS for handling.

InComm FEP

Incomm Gift Card Activate was prompting to swipe the card on the POS. It should be prompting at the PIN pad. This was corrected and now it prompts at the PIN pad.

Loyalty

1. Swipe ahead was not prompting for Loyalty ID. The PIN pad continued to display the Welcome Screen. The PIN pad now prompts for the Loyalty ID.
2. With loyalty outside and payment inside, the transaction was declined at the DCR. This was corrected.
3. If a user added a loyalty card to the Loyalty Card Configuration with a Card Table index longer than eight characters and configured only the manual entry parameter, the entry created had an '_M' appended to the name in the Loyalty Card Configuration list. When attempting to edit or remove the card, it resulted in an error that the field was too long due to the '_M' value. The maximum length has been changed to allow for the '_M' value.
4. When Alternate ID was enabled, the MX 915 PIN pad displayed the Loyalty ID prompt at the top of the screen and Loyalty button was missing, but instead "Label1" was displayed. Also, the "Welcome to Our Store" message was missing. These issues were corrected and the button and message are now displayed.
5. When there was an invalid manual entry for loyalty, the customer had to press the cancel button several times to exit the loyalty prompt. This was corrected.
6. With multiple loyalty programs configured, the second loyalty card was failing after swiping the payment card and the first loyalty card. The second loyalty card no longer fails.
7. There was a Ticket Level Discount mismatch in the Loyalty Approval Report. Ticket Level Discount values will now be updated correctly as per the transactions.
8. At the loyalty card swipe prompt and if the user swiped an invalid loyalty card, the card swipe prompt on the PIN pad was displayed indefinitely.
9. Swipe Loyalty card prompt was not displayed if there was a card read error. Swipe Loyalty card prompt now displays.
10. There were frequent "EPS IS BUSY" messages following the prompt to swipe loyalty card giving the impression of a PIN pad lockup. This was corrected.
11. The Loyalty PPU Totals by Grade Report was double counting the Count and Volume. This report was including both entries for patron and VCMG in the counts and counting the volume twice. the counts are now correct.
12. Loyalty was not processed for a hybrid card for which entries were created in Configuration Client > Loyalty Card Type Configuration. It will now process.

Mobile

1. A Back Office update to the Verifone Commander was corrupting the Mobile Configuration file. This was corrected.
2. In a Mobile loyalty transaction, the Loyalty Reward ID was zero for the POS ticket discount items. This was happening only when the system was using Verifone EPS as secondary EPS. Mobile will now pass Loyalty Reward ID whether loyalty discount is delivered from secondary EPS or primary.
3. During an outdoor mobile transaction, car wash was not prompted. It is now prompted in the transaction.

POS System

1. On the POS, the Pair Device screen was not restarting the browser and the white screen with Verifone logo remained on the display. The application will now start automatically after the white screen.
2. An email with the One-Time Password (OTP) was not received after it was generated in Verifone Configuration Client. This was correct and now the user is receiving the email.
3. The On-Screen Numeric Keypad back button was clearing all the entered digits instead of last digit alone. It will now only clear the last digit.
4. After logging into Verifone Configuration Client and viewing Site Asset Data at Reports > Site Asset Data, the "POS Terminals" tab was not populated with any data or items. This was corrected.
5. Period sequence numbers were inconsistent in tranSet entries. This was causing confusion for back office software.
6. The cashier was not logged out on inactivity timeout and it caused the POS to lock up. The cashier will now be logged out when the inactivity timeout timer expires.
7. During a refund transaction, the year "YY" was displayed on the next line in the "Enter Original Transaction Date MM/DD/YY" overlay. The MM/DD/YY will now fit onto a single line.
8. Verifone Journal Browser drop down menu was not filtering when asked to sort. The Verifone Journal Browser is now filtering the sort request.
9. The following POS issues were corrected:
 - Invalid department error message on accessing Gift Card Activation functional Key.
 - Gift card activation overlay was not dismissing after activating the card.
 - Unable to activate Gift Cards.
 - All Fields and labels were not displayed in Spanish on the Touch Screen Configuration page.
10. Fuel Grade Sales Volume Total was incorrect in the T-Log when there was a Manual Fuel Department Refund. This was corrected.
11. There was an issue with the Verifone CDM Agent that was causing dispensers to go offline a few times during the day. These issues were corrected.

12. When inputting values the EMV Configuration at Verifone Configuration Client > Payment Controller > EPS Configuration > EPS Global Configuration, the screen input keyboard did not display on the POS. The screen input keyboard now displays.
13. When the cashier scanned a merchandise item with age verification followed with fuel to the transaction, and then added another merchandise item with age verification, it failed and displayed "Customer Cannot Purchase This Item E1141: Purch. Not Allowed". The second age verification item can now be added without failure.
14. An incorrect Workstation ID for Car Wash was sent in the Card Service Request from the Verifone Commander. The correct Workstation ID is now sent.

Reports

1. Mobile Settlement Report was not being sent to the host for the Close Monthly and Close Yearly Reports. It is now sent with those reports.
2. There was a reporting discrepancy in the Fueling Point Hose Report when there was a fuel sequence number rollover. It will now increment correctly.
3. Decimal point was disappearing when entering drawer amounts in Print Cashier Reports. This was corrected.
4. The POP Discount Definition Report and the POP Discount Program Report totals were incorrect when they included multi-grade or multiple product transactions. The totals are now correct.
5. Total Sales value under Combo Deals was missing the second decimal value and the Mix & Match Deals section Total Sales value was not rounded properly. The totals in the Deal report now display correctly.

Sales

1. When there was a prepay transaction in progress at the same time as a EMV initialization, it caused the prepay limit to be the same as the previous transaction. The current preset amount will now be honored for the pay inside transaction.
2. For the Manual Fuel department transaction, the word "Sale" was missing from the message overlay and receipt. The word "Sale" will now be included.
3. The partial DOB entry was processed as amount due for payment when customer scanned their Driver's License and cashier was in the middle of DOB entry. The amount due will now be processed correctly.
4. The signature capture verification overlay message was incorrectly displayed on the POS screen for the cashier to verify and confirm the signature. A complete progress bar was covering up the signature. This was corrected and now the captured signature from the PIN pad with the confirm and cancel buttons displays for the cashier to confirm it.
5. The following POS issues were corrected:
 - Intermittently, "Reprint not possible" message overlay displayed upon selecting Reprint
 - When navigating through the <Ticket Print> keyboard from last item, the reprint window was dismissed

- Numeric keypad icon was enabled on the express panel when reprint window was displayed
 - When using Reprint, the index numbers were inconsistent
 - Intermittently, the user was unable to select the reprint line item upon touch
 - Keyboard navigation was not working on select till window
 - During Receipt Reprint, there was a mismatch between selected receipt and the previewed receipt while scrolling
 - Receipt Preview was empty for suspended transactions
6. When the In-House MOP was used in a prepay, the user was unable to clear an underrun using it. The the In-House MOP key would only beep. This was corrected.
 7. POP Discount Stacking on a single or multiple multi grade fuel item line when item based, payment based, membership based, or POP Discount stacked on same prepay or post pay fuel Indoor and outdoor, it was not working. It is now working correctly.
 8. Cashier was unable to approve the fuel transaction using detailed view on utility panel. The fuel detailed view prompt now displays and the cashier is able to approve the dispenser.
 9. The following Commercial Fleet Card issues were corrected:
 - On the POS, the unit price and network code were not populating in Preauthorization T-Log during prepay with PLU and/or department including a POP discount transaction
 - DCR receipt alignment issues for outdoor transactions
 - Enabling commercial setting at dispenser also enabled multi-grade prompting
 - Cashier Verify Signature was not allowing cashier to answer prompt when prompting for zero dollar sale
 - Gilbarco secure prompt LICN displayed Enter License Number instead of License Plate Number
 - No refund was received when clicking the “Help” button in case of prepay underrun
 - Display Prompts alignment and timeout were out of order
 10. When POS Configuration > Multiple Loyalty Discounts in Same Transaction was disabled and the customer swiped an invalid card, the customer Rewards prompt displayed more than once in some transactions. The prompt will now only display one time.
 11. The POS locked up while performing Till operations if the “Maximum Till Transaction Amount” value was set to “0.00”. The POS no longer locks up.
 12. The POS ticket window and receipt widget displayed incorrect amounts for the subitems after the discounts were applied. The POS ticket window and receipt widget will now display the correct amounts.
 13. On Commercial Fleet card transactions, the prompt data was not printed on the receipts. The prompt data will now print on the receipts.
 14. On Commercial Fleet card transactions, the outside AID standin limits were not restored after an Auto Upgrade. They are now restored.

15. The system was automatically selecting an unused fuel grade and assigning an incorrect product code for outdoor and prepay fuel transactions. The system will now select the correct configured fuel grade and product code.
16. When an item is present in multiple combos and then adding it to a sales ticket, there was a noticeable delay for the item addition. Now, the item will get added immediately without delay.
17. If a Price Per Gallon discount and a line item discount and then fueling was completed, the Price Per Gallon discount was doubled when checking if the new discount could be applied. This could cause some valid discounts to be rejected. The Price Per Gallon discount will no longer be doubled.
18. Cashier was unable to approve the fuel transaction on Show Fuel panel. The fuel detailed view prompt now displays and the cashier is able to approve the pump using Approve or Restart button.

Verifone EPS

1. The system was sending incorrect PIN and KSN data to the FCB Host. The correct PIN and KSN data will now be sent.
2. The system was not correctly formatting the transaction amount and then sending it to the FCB Host. The transaction amount will now be formatted correctly.

New In Previous Release: 1.16.21

ENHANCEMENTS

Verifone C18 Self Checkout Application

1. Verifone Self Checkout is now supported on the Verifone C18 POS.
2. Verifone C18 Self Checkout item buttons now display prices on the screen if “Display Lookup Item prices” are set on Verifone Self Checkout global configuration.
3. Cashiers can now access express panel via Employee Functions when transaction is in progress so that they can help customer to complete their transaction on Verifone C18 Self Checkout.
4. Images are now allowed to be assigned to Menu items in Menu Key Configuration on Verifone C18 Self Checkout.
5. Customer can ask for help at anytime during the transaction on Verifone C18 Self Checkout.
6. Only Network MOPs are allowed to be configured for Verifone C18 Self Checkout.
7. The Verifone Self Checkout application will now go back to the welcome screen if there is no interaction from the customer and there is no item in the ticket.
8. Quantity is now displayed on the item line in Cashier Mode on Verifone C18 Self Checkout.

9. The Verifone C18 screen saver will be disabled when the Verifone Self Checkout is in operation.
10. Swipe Ahead will now be disabled when the Verifone C18 is in Self Checkout Mode and enabled in Cashier Mode. Also, the “Pay Now” button has been renamed to “Checkout.”
11. Verifone C18 Self Checkout performance has been improved when retrieving images from the Verifone Commander.
12. Age restricted items are now supported on Verifone C18 Self Checkout. If an item is flagged for age restriction, the Verifone C18 Self Checkout will display “Age Restricted Item. You can call the cashier or get the receipt and finish with a cashier at the counter.” Below the message, the buttons “Pay at Counter” and “Call Cashier” are displayed below the message.
13. Menu items can be added from configured Expanded, Multi-Select, Ruby, or Parked menus for Verifone C18 Self Checkout.
14. Configured MOP buttons can be chosen by the customer when they press “Pay Now” on the order screen for Verifone C18 Self Checkout.
15. Support has been added for Menu Chain and Order Menu on Verifone C18 Self Checkout.
16. The customer will be directed to use payment terminal to complete transaction on Verifone C18 Self Checkout.
17. Support has been added to Verifone Configuration Client for assigning images to Menu Items in Menu Key Configuration.

Dispensers

The fuel system controller was interpreting ‘00’ length for EMV tag (5F34) as value and sending it to the EPS. It will no longer send the tag to the EPS.

Dispenser Card Readers

1. The display font on Wayne 5-inch DCR screens has been changed from standard weight Arial font to Tahoma Bold.
2. A periodic beeper will now sound when the prompt to remove card is displayed on Wayne DCRs.
3. Bennett and Invenco DCRs display sizes are now supported. DCR Position Parameters have been updated in Verifone Configuration Client for display size options.
4. The Verifone Commander now has the ability to sell multiple grades of fuel in a single DCR or prepay transaction.
5. The user now has the ability to log into Verifone Configuration Client > Forecourt > DCR Configuration and change DCR Position. Also, various RFID Modes such as Contactless, Contactless MSD, and Contactless EMV can be configured.

EPS System

1. The EPS will now indicate it has received the loyalty RFID read from ApplePay VAS so that the PIN pad can proceed with the transaction.
2. EMV Chip card transaction will complete even if there is no response from the PIN pad for card removal.
3. For sites accepting EMV contactless transactions, the EPS now supports PIN Bypass for Contactless EMV transactions that have the Online PIN as the CVM.
4. When accepting Visa and Mastercard Fleet cards, the EPS will manage fleet prompting and product restrictions consistently and accurately based on the fleet specifications.
5. Previously, Product restriction Prompt was not displayed in Fleet card transactions. This was corrected.
6. The prompt text "Enter Vehicle #" was changed to "Enter Vehicle Number" for Fleet card prompting.
7. Table downloads can now be performed at a specified time and are not affected by any other table updates in Update Manager.
8. In Core EPS, if there is a card table match with a FEP that is disabled, the card will be declined.

FoodService

Delivery Fees and Tips has been added to FoodService Mobile Ordering.

Loyalty

The site is now able to control what loyalty programs display inside, outside, or both. This enhancement is configurable for each PCATS FEP at Verifone Configuration Client > Payment Controller > EPS Configuration.

Mobile

Transaction Date and Time will now be added to the Mobile Terminal Batch Detail Report.

POS System

1. The user of the Petro Suite Installer (PSI) will now always have the ability to format the Hard Drive (HDD) even when it is found to be marked as in-use but not formatted.
2. The system performance was improved when the user presses the Total and MOP keys back-to-back on the PIN pad in a loyalty transaction. This eliminates the need for the cashier to press the MOP again.
3. The Integrated Customer Display is now supported on the Verifone C18.
4. "EPS PINPAD with Driver License/Membership" option has been added for Verifone Ruby2 and Topaz. With this configuration, POS sends a deactivate at the end of the transaction and

will not enable it until the POS explicitly initiates loyalty or payment. The additional advantage is line item display will be available on the PINPAD even when a loyalty ALT ID is used.

5. The application performance speed has been enhanced.

Reports

House Sub Account transactions are now listed in the Reports.

Sales

Processing improvements have been made to the NAXML Deal transactions.

Verifone EPS FEP

1. VISA EMV Debit is now supported for First Citizens Bank in the Verifone EPS Distribution for specific BIN ranges.
2. The user is now allowed to define multiple fiscal receipts of type "Fiscal Sale" and add them to Verifone Commander.
3. Full Service sites with high volume of cash sales and using APT terminals will now have the Verifone Commander Auto Collect to Cash MOP on the first stacked transaction when the customer starts the third transaction on the same dispenser.
4. The First Citizens Bank (FCB) Store and Forward processing has been enhanced.

RESOLUTIONS

Verifone Configuration Client

1. Previously, when a user password had expired in Configuration Manager, it caused large T-Logs. This was corrected.
2. Previously, a user was unable to change the password in Configuration Manager. This was corrected.
3. Previously, in Verifone Configuration Client, status texts were not highlighted with appropriate colors in HelpDesk diagnostics. This was corrected.

Dispenser Card Readers

1. Previously, a DE55 Tag Format error caused Host Denied at the DCR. This was corrected.
2. Previously, when the user exited the Maintenance Mode on the Wayne DCR, the screen locked up. This was corrected.
3. Previously, with EMV disabled at the DCR, the Mag-Stripe Reader was enabled during fueling. This was corrected.
4. Previously, Wayne ixPay DCR was unlocking card reader, but the DCR screen displayed "Do Not remove Card" until it timed out. This was corrected.

5. Previously, POP Membership was not validated for outdoor transaction when a card with single track was swiped as a membership card. This was corrected.
6. Previously, "Enter POP Code/ Member ID" was prompted at the DCR for an Unsuccessful Preauthorization transaction. This was corrected.
7. Previously, the Wayne 5-inch DCR screen was cutting off the right side entry. This was corrected.
8. Previously, the Verifone Commander fuel system was not waiting for the Bennett DCRs to apply the EMV Configuration. This was corrected.
9. Previously, the system was not auto-selecting application for US common debit cards if Enable Remote AID Selection was set to zero. It was causing duplicate AIDs. This was corrected.
10. Previously, the system was not sending AID to EPS when Enable Remote AID Selection was set to '1'. This was corrected.
11. PPU discounts were applied to the grades, but the Loyalty PPU Transaction Detail Report printed no data. Loyalty PPU Transaction Detail Report now prints the correct data.
12. At the DCR, the Preset amount was not being honored in a multi-grade transaction. The Preset amount is now honored.
13. On a Wayne DCR, the card would get stuck if it was inserted at the same time of a DCR initialization. The card remained clamped in the reader, but it was released after the DCR initialization was completed. The card will no longer get stuck.
14. On a Wayne DCR, the card would get stuck if it was inserted at the same time of a DCR initialization. The card remained clamped in the reader, but it was released after the DCR initialization was completed. The card will no longer get stuck.
15. DCR was not displaying any message after the card was tapped and before the transaction was approved. The DCR will now display that the transaction is processing.
16. At the Wayne DCRs, Hybrid loyalty cards were not being processed for loyalty rewards. They are now processed.
17. Commercial Fleet transactions were not prompting correctly. They now prompt correctly.
18. After prepaying for Commercial Fleet fuel transaction inside with a Mastercard EMV card and completing the sale outside, the final receipt printed at the DCR had a signature line on the bottom. The signature line will not print on the DCR receipt.
19. When performing a Commercial Fleet transaction at the DCR, the display prompts "Enter Data." The DCR will now prompt "Enter Vehicle Number."
20. Fuel Only Fleet cards were prompting for car wash. These card are now restricted to fuel only.
21. There were intermittent clamping issues observed in Wayne DCRs. These issues were corrected.

EPS System

1. Previously, the POS displayed “EMV CONFIGURATION IN PROGRESS” even though EMV was disabled inside. This was corrected.
2. Previously, when the user swipes the payment card on the PIN pad after selecting No for Reward Customer Y/N and before the MOP press, PLEASE WAIT message displayed on the PIN pad and became unresponsive. This was corrected.
3. Previously, outdoor prepay was not working when EMV was disabled. This was corrected.
4. Previously, when the Parameter Download was delayed, it caused the system time to be three hours or more into the past. This was corrected.
5. Previously, the user was unable to access the EPS Global Configuration page. This was corrected.
6. Previously during the EMV Initialization, the system was sending Tag 9F66 for Mastercard AIDs. This was corrected.
7. Previously, “Waiting For Cashier” was not displayed on PIN pad for Pay Inside sale and Swipe Ahead sale with Auth on Total enabled. This was corrected.
8. Previously, Cashback was not allowed with Debit EMV and Cashback enabled on a prepay transaction. This was corrected.
9. Previously, non-primary FEP cards such as InComm that require swipe, but the system was prompting for insert. This was corrected.
10. Previously, the EPS was not requesting Tag 9F33 when marked as an “Input Output” tag type. This was corrected.
11. Previously, the Force Debit payment option at the DCR was not working correctly. This was corrected.
12. Previously, Credit was incorrectly processed in Time-out Reversal when the completion was routed as Debit. This was corrected.
13. When a Mag-Stripe Data Contactless card was tapped, it processed and was approved by the host. EPS will now decline the transactions and display “RFID Not Allowed” when EMV contactless is enabled.
14. Outdoor EMV Debit Contactless transactions were not prompted for Online PIN but the DCR displayed “Debit selection requires PIN” error message and then declined offline immediately. DCR will now display Online PIN prompt.
15. Mastercard Fleet and Visa Fleet Mag-Stripe transactions were getting declined. These card transactions are no longer declined.
16. Job ID displayed instead of Job Number for outside local and hybrid loyalty prompting. The Job Number prompt now displays.
17. The refund process to deactivate an InComm card was not working as the “Swipe to Deactivate” prompt was not displayed on the PIN pad. The Refund process to deactivate an InComm card is now working correctly by displaying “Swipe to Deactivate” prompt on the PIN pad.
18. Previously, Product restriction Prompt was not displayed in Fleet card transactions. It was causing prepay transactions not to complete. This was corrected.

19. An error occurred when processing Proprietary Fleet card transactions, because the Clerk ID was missing. The Proprietary Fleet card transactions will now process correctly without errors.
20. On Automated Fuel Dispenser EMV Contactless transactions, No CVM will be supported on all Mastercard AIDs for transactions above the CVM Limit.
21. Mastercard Fleet was not prompting with the matched track data instead of preferring Track 2 data. The system will now prompt with the matched track data.
22. After an EMV PDL was performed, the outside EMV became disabled. Outside EMV now remains enabled after EMV PDL.

FoodService

Previously, an error occurred when processing Mobile Food Orders if the tax line had a zero dollar amount. This was corrected.

InComm FEP

Previously, when trying to activate an Incomm card, the POS prompted for the customer to swipe card, but after a few seconds, the transaction disappeared from the screen. This was corrected.

Loyalty

1. When an optional discount was declined, the system tried to send a Cancel Redemption Message to the loyalty host. It waited 15 seconds for a response. The system no longer waits for a response.
2. When purchasing an invalid product using a Credit EMV card, the PIN pad cycled between processing and waiting on cashier. The PIN pad did not advance to the Loyalty I'm Done screen. The transaction will now continue to the Loyalty I'm Done screen.
3. Previously, a hybrid loyalty card was authorizing payment but not processing the loyalty. This was corrected.
4. Previously, Loyalty Reports displayed double amounts after the transaction transitioned out of Store and Forward. This was corrected.
5. Previously, when using payment card with mag-stripe in a loyalty transaction, the PIN pad was returning back to the tender screen. This was corrected.
6. The Terminal Batch Loyalty Detail Report was reporting the incorrect account numbers on some multiple loyalty transactions. It now reports the correct account numbers.
7. Alternate ID Loyalty was discarding Hybrid VCMG inside and outside. The Hybrid VCMG will now be included.
8. Loyalty and Payment in the transaction unexpectedly failed after fueling. The transaction will now complete successfully.
9. When attempting to use a loyalty provider, the site could not connect after configuring the loyalty for TLS. Additional Entrust and Digitrust certificates were added so that the site can now connect to the loyalty provider.

10. When the loyalty host applied a discount on an order menu item, the POS did not send individual sub-items to the EPS and loyalty host. There was only one sale item with the parent item and the summary net amount of the composite item. This caused negative tax amounts and/or unit price issues. POS now sends the individual sub-items to the EPS and loyalty host.
11. When the loyalty card was scanned followed by the Total key, and then Credit key, the transactions resulted in a Partial Failure. The loyalty transaction will now complete successfully.
12. When the loyalty card was scanned followed by the Total key, and then Credit key, the transactions resulted in a Partial Failure. The loyalty transaction will now complete successfully.
13. Ticket Total displayed under Loyalty Programs in the Line Item Discount Detail Report was not calculated correctly, but the Ticket Total displayed under Summary Discounts for all Loyalty Hosts was calculated correctly. Ticket Total displayed under Loyalty Programs in the Line Item Discount Detail Report is now calculating correctly.

POS System

1. Previously, when the EPS was sending 9F53 tag value as part of EMV Configuration, the FCC was not sending the same to the terminal. This was corrected.
2. Previously, after Verifone Commander software installation, "Call HD K-01" remained on the alarm line on the Verifone Commander display. This was corrected.
3. Previously, the system would sometimes get stuck on "Auto Upgrade in Progress." This was corrected.
4. Previously, Verifone Topaz Screen was stuck at "Initializing Sales" stage during the manual installation. This was corrected.
5. Previously, the sub house account number was always the same for each customer house account transaction. The repeated number was the number of the first house account entered into the system. This was corrected.
6. Petro Suite Installer (PSI) failed to load Base 53 software on Verifone Commander or RubyCi running factory 1.04.00 OS image. The Base 53 Petro Suite Installer (PSI) program (Petro_Suite_Installer.jar) now responds correctly when the "Minimum OS Version" field is not available from the device as occurs with older OS versions such as 1.04.xx and 1.05.xx. Prior bases are not affected.
7. POS was not sending certain Wayne dispenser information such as firmware and OS versions and model as part of the Site Asset Data to EPS. The information is now sent.
8. The user was unable to start pending forced auto upgrade remotely. The Auto Upgrade will now start remotely.
9. The Verifone Topaz was not displaying the fuel prices at CSR Func > Fuel Manager Menu > Fuel Price Configuration > Product > Prices. The Verifone Topaz now displays the fuel prices.
10. Previously, a transaction that included quantity was not displayed in the Transaction Manager. This was corrected.

11. On the Receipt Preview List, occasionally, the user was unable to preview the second page of transactions or if the user was able to view and selected a transaction, the previous page of transactions were removed. The user is now able to preview the second page and the previous page will remain when a transaction is selected from the second page.

Proprietary Fleet FEP

1. For Proprietary Fleet cards, the authorization will allow decimal amounts instead of whole dollar amounts.
2. For Proprietary Fleet cards, the reference number will now be sent by the EPS to POS in the IFSF response.

Reports

Previously, when a transaction was paid using two or more network payments, the Network Card Report was not updated correctly. This was corrected.

Sales

1. Previously, an EMV declined transaction receipt printed a five-digit "DR#" number instead of a single digit. This was corrected.
2. Previously, there were some contactless reader transactions that did not contain the 9F02 tag. This was corrected.
3. Previously, parameters in the Sales Configuration were not honored on the POS. This was corrected.
4. Previously, there was a Loyalty swipe ahead issue which forced the customer to swipe the card twice for payment. This was corrected.
5. Previously, Swipe ahead was still enabled for the first transaction when the PIN pad was configured with Driver license/Membership swipe. This was corrected.
6. Previously, when repeating last item on POS, loyalty discount was duplicated. This was corrected.
7. Previously, when repeating last item on POS, car wash codes were duplicated. This was corrected.
8. Previously, the POS displayed "Decline" when lotto payout was completed. This was corrected.
9. PLU Transactions that included Mix & Match Discounts had negative Rebate taxes. They will now be positive.
10. The Commercial Fleet attribute was present in the authorization for non-commercial fleet transactions. The Commercial Fleet attribute will not be present in non-commercial fleet transactions.
11. Stacked due sale disappeared on the POS after three transactions. Stacked due sales will not disappear.

12. Verifone M400 PIN pads were intermittently not displaying line items. It required a POS reboot before the line items were correctly displayed on the Verifone M400. The line items are now displayed without having to do a POS reboot.
13. Transactions were declined at the site where a transaction containing an item with fees was voided. Transactions are no longer declined if a transaction containing an item with fees is voided.
14. The POS locked up after pressing "OK" on the Safe Drop overlay for a zero amount. The safe drop input overlay will now stay until a valid input is provided and then complete the transaction.
15. On Commercial Fleet transactions, advanced options filters were not working after selecting transaction from preview list. These advanced options filters are now working correctly.
16. On Commercial Fleet transactions, there was a prepay quantity limit rounding error in the T-Log. The transaction now rounds correctly.
17. On Commercial Fleet transactions, there was a host based discount issue with postpay mobile transactions. The host based discount issue was corrected.
18. At Item Level Loyalty Discount, the POS was adding the taxes for EBT Food Stamp in the amount to be paid with the second MOP for Non-Food Stamp items. The transaction went through for both EBT Food Stamp and second MOP, but the taxes were charged. Taxes will not be charged.
19. At Item Level Loyalty Discount, the POS was adding the taxes for EBT Food Stamp in the amount to be paid with the second MOP for Non-Food Stamp items. The transaction went through for both EBT Food Stamp and second MOP, but the taxes were charged. Taxes will not be charged.
20. With Authorization on Total disabled, the sale was declined when the customer selected "No" at the Reward Customer Y/N prompt both inside and outside. The sale will not be canceled when declining Rewards.
21. On the POS User Panel, Parked menu panel was not swiping on the sales screen and on the utility panel, the fuel button touch actions were not working. The Parked menu and fuel buttons are now working correctly.

Verifone EPS FEP

Previously, the overlay for the Fiscal prompt was not allowing the entry of alphabetical characters with Bematech. This was corrected.

VISTA

1. Previously, the user was unable to upload images that were less than one kilobyte. This was corrected.
2. Previously, VISTA was not closing the active websocket connection when session was ended by the Close Day or inactivity. This was corrected.

New In Previous Release: 1.06.07

NEW POS

Verifone C18 Workstation

The Verifone® C18 workstation is a high-performance, reliable, point-of-sale terminal that supports peripherals such as scanners, cash drawers, PIN pads, and an integrated customer display. The Verifone C18, with the Verifone Commander™ Site Controller, supports payment network access, fueling dispenser control, car wash control, and fast food transactions. The Verifone C18 accepts and processes all payment options, including cash, checks, credit and debit cards, coupons, and various prepaid cards.

Some features of the Verifone C18 system may or may not be utilized by all versions of the software.

The Verifone C18 has a 18.5-inch color touchscreen with a 16:9 aspect ratio. The screen can be tilted up or down. The screen can be adjusted to a portrait or landscape position. The screen can also be flipped over to the customer side for self-service mode, where available. The screen includes a cashier facing camera. The Verifone C18 user interface employs industry-leading touch technology to enable effortless operation.

Online help is available to support the user and promote quick responses. The Verifone C18, including the touch screen, is configured through the Verifone Commander™ Configuration Manager.

The Verifone C18 operates in a single- or multiple-workstation environment. It uses the Verifone Commander as a controller for optimum speed and efficiency, a thermal receipt printer, and a thermal journal printer to track sales. An on-screen receipt allows easy viewing of current transactions.

In the absence of an intranet infrastructure, the Verifone C18 requires an Ethernet router or network switch to connect to the Verifone Commander to:

- Connect to peripherals, such as fuel dispensers, dispenser card readers (DCRs), and car wash controllers.
- Perform on-site maintenance operations such as backups, upgrades, restores, and reversions to previous software versions.
- Connect with the Verifone Technical Support Center for software downloads and diagnostics.
- Configure remotely using available Internet protocols, including a Web browser interface.

Installation Options

Supported POS Terminals
Verifone C18, Ruby2 and Topaz XL (410)

Installation Documentation

See the following documents when installing the Verifone Commander or RubyCi.

Verifone Commander

- Verifone Commander Implementation Guide
- Verifone Commander Hardware Installation Guide

Verifone RubyCi

- Verifone RubyCi Hardware Installation Guide
- Verifone RubyCi Implementation Guide

Verifone Commander or RubyCi

- Verifone Commander Software Installation Guide
- Verifone Commander Network Configuration Guide

Fuel Hardware Peripherals Supported

Verifone advises using the “Minimum Recommended Version” as shown in these sections. Also, check with the dispenser’s manufacturer if there is a newer recommended version.

Dispensers Supported

Gilbarco Dispensers		
Dispenser	Description	Version
Encore 700	Pump Control Node	2.9.42
Encore 500	Pump Control Node	1.8.30
Encore 300	Digital Valve	20.1.10
Encore 300	Digital Valve with Enhanced Security	20.2.24
Encore 300	Proportional Valve	10.1.10
Encore 300	Proportional Valve with Enhanced Security	10.2.23
MPD	Legacy	70.9.92
MPD	Modular Advantage	70.9.92
MPD-3	LCDs	54.3.10
MPD-3	SIDs	53.7
Selectable Blender	Modular Advantage	75.6.10
Notes		
<p>Note: Gilbarco Pre-modular dispensers must be on a separate board and as such are not supported with Verifone RubyCi, as there is only one connection out for fuel.</p>		

Dispensers Supported (Continued)

Wayne Dispensers		
Dispenser	Description	Version
Ovation	iGem	49
iX	iGem	49
Vista 3V	iGem	49
Vista 2V	Dispenser	14
Vista 1V (See first note below)	Dispenser	49
Vista	Dispenser	See second note below
SC-82	Dispenser	See second note below
Notes		
<p>Note: For Model V490D1/U (Vista 1V), the version must be 47.</p> <p>Note: The dispenser must be programmed as one of the following types: Type 1, 2, 30 or 40. Verifone Commander will not support the dispenser programmed as any other type, including Types 3 through 29.</p>		

Dispenser Interfaces

NOTE: The Commander Site Controller Forecourt Interface Box communicates directly with Wayne, Tokheim, and Gilbarco dispensers.

Dispenser/Interface	Supported: Yes/No	Recommended Version	Notation
Bennett			
DOSPIB	No		
515	Yes	v6.20	
Horizon 1	Yes	v6.27	Supports PPU Discounting with Bennett 515 interface box, firmware v.507
Horizon 2	Yes	v2.15	Supports PPU Discounting with Bennett 515 interface box, firmware v.507
Pacific	Yes	v2.11	Supports Bennett SPM with Bennett 515 interface box with version v.6.20 Supports PPU Discounting Note: <i>SPMs are not supported with EMV.</i>
Tokheim			
DHC	Yes	v6.17	Supports PPU Discounting
VXDHC	Yes	v4200.03.09	Supports PPU Discounting
Dresser/Wayne			
CPU	No		Uses the Commander Site Controller Forecourt Interface
PIB	No		
Fusion	No		
HyperPIB	No		
Arbitration Board	No		

Gilbarco			
Legacy PAM 1000	No		Uses the Commander Site Controller Forecourt Interface
PAM 1000	No		
PAM 5000	No		
SMART Connect	No		

Dispenser Card Readers – Supported Options

Verifone advises using the “Recommended Version” shown below.

Bennett

NOTE: MSD Contactless is no longer supported in Base 53.41.00 and higher.

Bennett: DCA	
Supported Options	Recommended Minimum Version
Non-debit	N/A
Debit	
Non-debit	N/A
Notes	
Note: Cash Acceptors, Debit, Graphics, SDES, TDES, and Master Session are not supported.	

Bennett: DCT (Verifone Everest Card Reader)	
Supported Options	Recommended Minimum Version
Debit	
Non-debit	1.02.02
SDES (DUKPT)	1.02.02
Notes	
Note: Cash Acceptors, Graphics, TDES, and Master Session are not supported.	

Dresser/Wayne

NOTE: MSD Contactless is no longer supported in Base 53.41.00 and higher.

NOTE: When connecting the Commander Ethernet cable to a DCR Serial Converter for Outdoor EMV, the wires routed from the converter to the DCR must be twisted pair.

iX Pay 2	
EMV Certification	
EMV Contact	Certified
EMV Contactless	Not Certified
Supported Options	Recommended Minimum Version
Serial	N/A (IP Only)
EMV - IP	3.1.203.1260
Contactless	26100 A 02
Cash Acceptors	N/A
Graphics	3.1.203.1260
Scanner	2D Zebra DS45
Debit	
Non-Debit	3.1.203.1260
TDES	3.1.203.1260
Notes	
<p>Note: Cash Acceptors are not supported with EMV.</p> <p>Note: Prior to upgrade to Wayne EMV software, please check the minimum version with Wayne.</p> <p>Note: Master Session is supported in Canada only, not in the United States.</p> <p>Note: DSM, Secure CAT, SDES, and Master Session are not supported.</p>	

Dresser/Wayne (continued)

iX Pay 1		
EMV Certification		
EMV Contact	Certified	
EMV Contactless	Not Certified	
Supported Options		
Recommended Minimum Version		
Serial	2.8.102.80	
EMV - IP > NFC Mode	EMV Contactless or MSD Contactless	2.8.203.9
	Contactless Disabled	2.8.105.109
Contactless Reader	26100 A 02	
Cash Acceptors	2.5.15.0	
Graphics	2.5.15.0	
Scanner	2.5.15.0	
Debit		
Non-Debit	2.5.15.0	
TDES	2.5.15.0	
Notes		
<p>Note: Jade board is recommended for outdoor EMV. Red board can be used if non-media site.</p> <p>Note: Cash Acceptors are not supported with EMV.</p> <p>Note: Prior to upgrade to Wayne EMV software, please check the minimum version with Wayne.</p> <p>Note: DSM, Secure CAT, SDES, and Master Session are not supported.</p>		

Dresser/Wayne (continued)

Dresser/Wayne: Anthem	
EMV Certification	
EMV Contact	Certified
EMV Contactless	Not Certified
Supported Options	Recommended Minimum Version
EMV	3.1.207.430
ANTX	1.18.2.687
Notes	
<p>Note: Cash Acceptors are not supported with EMV.</p> <p>Note: Prior to upgrade to Wayne EMV software, please check the minimum version with Wayne.</p>	

Dresser/Wayne: iX — Blue Board	
Supported Options	Recommended Minimum Version
Cash Acceptors	1.3.8.0
Graphics	1.3.8.0
Scanner	1.3.8.0
Debit	
Non-Debit	1.3.8.0
TDES	1.3.8.0
Notes	
<p>Note: DSM, Secure CAT, SDES, and Master Session are not supported.</p>	

Dresser/Wayne (continued)

Dresser/Wayne: Ovation and Ovation 2 with qCAT	
Supported Options	Recommended Minimum Version
Graphics	206.00
Scanner	206.00
Debit	
Non-Debit	206.00
SDES (DUKPT)	206.00
Notes	
Note: Cash Acceptors, DSM, Secure CAT, TDES, and Master Session are not supported.	

Dresser/Wayne: Vista3V	
Supported Options	Recommended Minimum Version
Cash Acceptors	103.00
Graphics	103.00
Scanner	103.00
BCB	5.1
Debit	
Non-Debit	103.00
SDES (DUKPT)	103.00
Notes	
Note: DSM, Secure CAT, TDES, and Master Session are not supported.	

Dresser/Wayne (continued)

Dresser/Wayne: Dual CAT	
Supported Options	Recommended Minimum Version
Cash Acceptors	103.00
Graphics	103.00
Scanner	103.00
BCB	5.1
Debit	
Non-Debit	103.00
SDES (DUKPT)	103.00
Notes	
Note: DSM, Secure CAT, TDES, and Master Session are not supported.	

Dresser/Wayne: Legacy CAT	
Supported Options	Recommended Minimum Version
Cash Acceptors	64.00
Graphics	64.00
Scanner	64.00
Secure CAT	2.01
Debit	
Non-debit (not enhanced)	58.00
SDES (DUKPT)	64.00
Notes	
Note: DSM, TDES, and Master Session are not supported.	

Gilbarco

NOTE: MSD Contactless is no longer supported in Base 53.41.00 and higher.

NOTE: When connecting the Verifone Commander Ethernet cable to a DCR Serial Converter for Outdoor EMV, the wires routed from the converter to the DCR must be twisted pair.

FlexPay IV	
EMV Certification	
EMV Contact	Certified
EMV Contactless	Not Certified
Supported Options	Recommended Minimum UPM Bundle
EMV (PCI DSS 5.0)	52.12.45
EMV (PCI DSS 4.0)	42.12.45
Graphics	42.05.11 - P609
Applause (Graphics)	42.05.11 - P609
Cash Acceptors	42.05.11 - P609
Scanner	
Contactless (RFID) with UX 400	42.05.11 - P609
Debit	
Non-Debit	42.05.11 - P609
TDES	42.05.11 - P609
Notes	
<p>Note: If the site has FlexPay IV v42.11.47 or v52.11.47 and debit transactions are receiving an “INVALID PIN” response from the host, Gilbarco has corrected this with the v42.11.53 and v52.11.53 software releases.</p> <p>Note: Cash Acceptors are not supported with EMV.</p> <p>Note: GSM, SDES, and Master Session are not supported.</p>	

Gilbarco (continued)

FlexPay II	
EMV Certification	
EMV Contact	Not Certified
EMV Contactless	Not Certified
Supported Options	Recommended Minimum Version
EMV	3.6.06
Graphics	30.3.03
Cash Acceptors	30.3.03
Scanner	
Non-Debit	30.3.03
TDES	30.3.03
Notes	
Note: Cash Acceptors are not supported with EMV.	
Note: Contactless (RFID), GSM, SDES, and Master Session are not supported.	

Z80 Logic Board	
Supported Options	Recommended Minimum Version
Debit	
Non-debit	50.2.4
Notes	
Note: Cash Acceptors, GSM, Graphics, Scanner, Contactless (RFID), SDES, TDES, and Master Session are not supported.	

Gilbarco (continued)

Encrypting PIN Pad (EPP) with Advanced GSM	
Supported Options	Recommended Minimum Version
Advanced GSM	See CRIND versions below.
Graphics	
Scanner	
Contactless (RFID)	
Debit	
SDES (DUKPT)	See CRIND versions below.
TDES	
CRINDs	
Advantage	62.6.10
Encore 300	62.6.10
Encore 500	3.1.50
Eclipse	3.1.50
Notes	
<p>Note: An Advanced GSM is not required if EPP is injected with the correct debit key. However, it can be used until the EPPs are injected with the correct debit key.</p> <p>Note: Master Session and Cash Acceptors are not supported.</p> <p>Note: Please contact your Gilbarco servicer for the correct setup of the EPP and the mapping of the keypad.</p>	

Gilbarco (Continued)

Advantage CRIND (Z180 Logic Board)	
Supported Options	Recommended Minimum Version
Cash Acceptors	60.9.40
GSM	
Graphics: Monochrome	60.9.40
Graphics: InfoScreen	60.9.40
Scanner	60.9.40
Contactless (RFID)	60.9.40
Debit	
Non-debit	60.9.40
SDES (DUKPT)	60.9.40
Notes	
<p>Note: InfoScreen graphics are supported only in single-line mode.</p> <p>Note: Version 60.7.30 is NOT supported for any mode.</p> <p>Note: TDES and Master Session are not supported.</p>	

Gilbarco (continued)

Encore 300	
Supported Options	Recommended Minimum Version
Cash Acceptors	60.9.40
GSM	
Graphics: Monochrome	60.9.40
Graphics: InfoScreen	60.9.40
Scanner	60.9.40
Contactless (RFID)	60.9.40
Debit	
Non-debit	60.9.40
SDES (DUKPT)	60.9.40
Notes	
<p>Note: InfoScreen graphics are supported only in single-line mode.</p> <p>Note: Version 60.7.30 is NOT supported for any mode.</p> <p>Note: TDES and Master Session are not supported.</p>	

Encore 500/Eclipse	
Supported Options	Recommended Minimum Version
Cash Acceptors	
GSM	
Graphics: Monochrome	
Debit	
Non-debit	
SDES (DUKPT)	
Notes	
<p>Note: Contactless (RFID), TDES and M/S are not supported.</p>	

Tokheim


NOTE: MSD Contactless is no longer supported in Base 53.41.00 and higher.




Premier B	
Supported Options	Recommended Minimum Version
Cash Acceptors	N/A
TED	v300 or v400
Debit	
Non-debit (4-line display)	JP02.18.00
Debit TDS Plus (4-line display) SDES (DUKPT)	MT0301.00
Debit TED (4-line display) SDES (DUKPT)	MTQD02.00
Insight Graphics Non-debit	MTPQ06.03
Insight Graphics SDES (DUKPT)	MTPQ06.03
Notes	
<p>Note: Scanner, TDES, Debit TED (4-line display) Master Session, Debit TDS Plus (4-line display) and Master Session are not supported.</p>	

Tokheim (continued)

Premier C	
Supported Options	Recommended Minimum Version
Cash Acceptors	N/A
TED	v300 or v400
Debit	
Non-debit (4-line display)	JP02.18.00
Debit TED (4-line display) SDES (DUKPT)	MTQD02.00
Insight Graphics Non-debit	MTPQ06.03
Insight Graphics SDES (DUKPT)	MTPQ06.03
Notes	
Note: Scanner, TDES, and Debit TED (4-line display) Master Session are not supported.	

Partner and Hardware Options Supported

Backup Power Supply (UPS)	
UPS, Conditioned, 250VA Note: <i>One per POS terminal and one for the Verifone Commander.</i>	VFI P/N P040-07-050
Car Wash	
Ryko Code-A-Wash III	Version 15554-009, Rev. E
Ryko Code-A-Wash IV	19574-006 Rev. N
Unitec POS4000	Firmware version 6.67
Unitec Carwash Select II / Enterlink Super Interface	Version 2. Firmware version 5.43
	

Car Wash Paypoint	
<p>Unitec Portal Ti (Touchscreen)</p> 	<p>Core Version: 3.60 Sierra Version: 1.63 Version: 4.30</p>
<p>Unitec C-Start (Cashless)</p> 	<p>Core Version: 3.60 Sierra Version: 1.63 Version: 1.40</p>
<p>Unitec Sentinel (Dual Bill Dispenser)</p> 	<p>Core Version: 3.60 Sierra Version: 1.63 Version: 1.40</p>

Cash Drawer	
Verifone Topaz/Ruby2	VFI P/N P050-01-200 Note: <i>Must have adapter: VFI P/N 22839-01 Rev 3 or Rev C. Do NOT use adapters marked with Rev 1 or Rev A. These adapters can be damaged if plugged into a powered-up POS. In addition, the adapter MUST ONLY be plugged into one of the POS CASH DWR ports.</i>
Cash Recyclers	
Glory	Models: CI-10 and CI-5
Crane Payment Innovations	Model: Paypod™ Embedded Note: <i>Currently, the Verifone Commander Charity option needs to be disabled in Configuration Client.</i>
Coin Dispenser	
Transact2	VFI P/N P040-08-023
Displays	
Customer Display	VFI P/N P040-08-300
EASY ID™	
Easy ID is supported for ALL states as long as the Mag Stripe/2D codes use the AAMVA standard format. Please contact your local Department of Motor Vehicles for details about your state.	

Electronic Fuel Price Signs				
<p>Supported with tested interface:</p> <ul style="list-style-type: none"> • Able Applied Technologies: AAT Live Hub (AAT-LH-V1) • DakTronics: DM-100 PSC (0A-1196-0133) • FutureMedia Displays Inc.: PriceVision LED Model FMD9-GSX. • Guru Digital Media: Guru Price Sign. • WatchFire: Price Watcher Sign. <p>Supported:</p> <ul style="list-style-type: none"> • Everbrite • Skyline • NOVYC Electronics Inc. • PWM <p>Note: <i>Contact manufacturer for details.</i></p>	<p>The Price Sign Controller (<i>PSC</i>) and an RS-232 connector is supplied by the sign manufacturer.</p>			
Laser Scanners (POS Ready)				
<p>Use the following URL to access a list of laser scanners that have been approved by Verifone. See https://www.verifone.com/en/us/petro-partners-program.</p>				
Money Order				
<p>MoneyGram: Delta Network Terminal 780T Version 3.5</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">P/N 11-0021-001</td> </tr> <tr> <td style="padding: 2px;">Printer model: 1600</td> </tr> <tr> <td style="padding: 2px;">VFI cable: VFI P/N 55296-03</td> </tr> </table>	P/N 11-0021-001	Printer model: 1600	VFI cable: VFI P/N 55296-03
P/N 11-0021-001				
Printer model: 1600				
VFI cable: VFI P/N 55296-03				
<p>Western Union Money Order Dispenser System: Version 3.5</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">P/N FDX-400 (Version 7534 and above)</td> </tr> <tr> <td style="padding: 2px;">Adaptor: DB-9M to RJ-45 (VFI P/N 13641-01) Requires an RS-232 cable (P/N 13836-XX)</td> </tr> <tr> <td style="padding: 2px;">Interface: FIP11 Interface Module (P/N 010064-02)</td> </tr> </table>	P/N FDX-400 (Version 7534 and above)	Adaptor: DB-9M to RJ-45 (VFI P/N 13641-01) Requires an RS-232 cable (P/N 13836-XX)	Interface: FIP11 Interface Module (P/N 010064-02)
P/N FDX-400 (Version 7534 and above)				
Adaptor: DB-9M to RJ-45 (VFI P/N 13641-01) Requires an RS-232 cable (P/N 13836-XX)				
Interface: FIP11 Interface Module (P/N 010064-02)				

Western Union Money Order Dispenser System: ICE6000 Terminal (Ethernet)	Requires an Ethernet cable.
Western Union Money Order Dispenser System: TAIO Terminal (Ethernet)	Requires an Ethernet cable. Config. Version: 6114 and 6120
PIN pads	
Verifone MX 915, MX 925 Multimedia	See the Sales Representative for part numbers.
Note: <i>For debit, PIN pads must be injected with the appropriate key for the application.</i>	
Printers (Point of Sale)	
Verifone Topaz XL, Ruby2	Verifone Thermal receipt only printer (May be used to replace EPSON TM-T88) VFI P/N P040-02-020 Paper Width: 79.5 mm ±.5 mm (3.15 ±.02") EPSON P/N (Paper) NTP080-80
	EPSON TM-T88III Thermal receipt only printer VFI P/N P040-02-008 Paper Width: 79.5 mm ±.5 mm (3.15 ±.02") EPSON P/N (Paper) NTP080-80 Note: <i>For installation information and DIP switch settings, refer to the "VASC Field Service Bulletin No. 0706.001".</i>
Secondary Network	
Use the following URL to access a list of secondary networks that have been approved by Verifone. See www.verifone.com > Company > partners for more information.	

Tank Level Sensor	
EBW: Auto/Stik	Firmware version AMOCO4
	Requires an RS-232 cable (P/N 13836-XX)
	Requires an adapter DB-9M, standard (black) (VFI P/N 13641-01)
Emco: EECO System 1500	Firmware version 023E
	Requires an RS-232 cable (VFI P/N 13836-XX)
	Requires an adapter DB-9F, null modem (red) (VFI P/N 13638)
Emco: EECO System 2000	Firmware version 004L
	Requires an RS-232 cable (VFI P/N 13836-XX)
	Requires an adapter DB-9F, null modem (red) (VFI P/N 13638)
Emco: EECO System 3000	Firmware version 005I
	Requires an RS-232 cable (VFI P/N 13836-XX)
	Requires an adapter DB-9F, null modem (red) (VFI P/N 13638)
Veeder Root: TLS 250	Requires an RS-232 cable (VFI P/N 13836-XX)
	Requires an adapter DB-25M, null modem (red) (VFI P/N 13581-01)
Veeder Root: TLS 350	Requires an RS-232 cable (VFI P/N 13836-XX)
	Requires an adapter DB-25M, null modem (red) (VFI P/N 13581-01)

Additional Information

Weights and Measures

Support for cash and credit pricing at the dispenser requires explicit cash and credit selections on the dispenser. This is in compliance with the *Weights and Measures Guidelines for Selectable Unit Price Capability*, section G-S.5.1.

Notice: This software supports a POP Discount feature, which allows a point-of-purchase discount on fuel based on the purchase meeting certain pre-defined transaction criteria. It is possible that the Weights and Measures department in your state may consider this POP Discount feature, when used in a post-pay scenario, to be in violation of state regulations.

YOUR IMPLEMENTATION OF THE POP DISCOUNT FEATURE IS DONE AT YOUR OWN RISK. Verifone EXPRESSLY DISCLAIMS ANY LIABILITY FOR CLAIMS, FINES OR DAMAGES RESULTING FROM IMPLEMENTATION OF THE POP DISCOUNT FEATURE IN A LOCALE WHERE IT IS DEEMED A VIOLATION OF LOCAL OR STATE REGULATIONS. YOU SHOULD CONSULT YOUR LOCAL WEIGHTS AND MEASURES ENFORCEMENT GROUP BEFORE IMPLEMENTING THE POP DISCOUNT FEATURE.