

Verifone Petro Software Release Notes

Verifone Commander



Versions and Information

| | |
|------------------|------------------------|
| Base Version | 54.01.00 |
| Release Date | July 14, 2023 |
| Publication Date | May 17, 2024 (Updated) |

Distribution Components

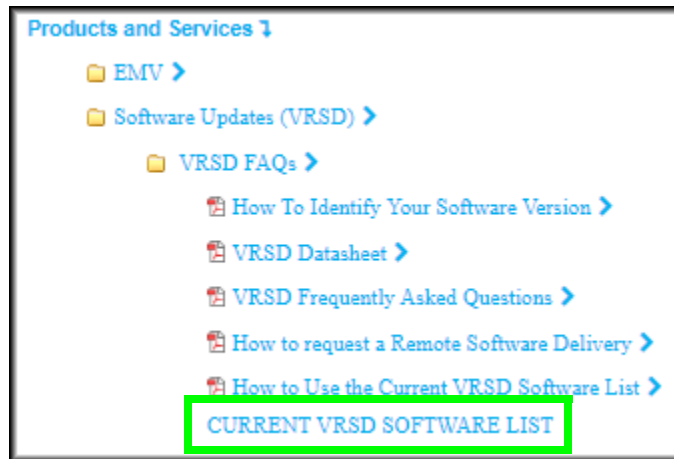
| | |
|-----------------------|-----------|
| Base | 054.01.00 |
| POS OS | 5.01.03 |
| Verifone Commander OS | 1.12.01 |
| EPS | 9.04.00 |
| Mobile | 1.00.00 |
| RCI | 6.00.01 |
| WEB | 5.05.00 |

| FEP | Suite Version | FEP Version | Network Version |
|--------------------|---------------|-------------|-----------------|
| Buypass | 3.13.02 | UMF 3.13.02 | TTPID: RVE077 |
| Chase | 1.02.02 | 1.02.02 | — |
| Chevron | 1.17.02 | 08.54.01.02 | — |
| HPS | 1.16.02 | 6.07.02 | — |
| NBS | 2.04.02 | 2.04.02 | — |
| Phillips 66 | 1.17.02 | 3.06.02 | 38 |
| Shell | 2.12.02 | 2.12.02 | — |
| VAPS | 1.13.02 | 9.07.02 | 99 |
| Verifone EPS (LAC) | 1.07.02 | 1.07.02 | — |
| WorldPay | 1.17.02 | 1.17.02 | — |

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.



Attendant Payment Terminal (APT) Version

This Verifone EPS (LAC) Commander software requires APT version 1.03.01.

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 | 4.07.10 | 5300w | Velocity L2 7.02 | Minimum - 30140200 |
| | | | | Recommended - 30251000 |

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Important Information

Lab, Beta, or Production Software Status

See the software title on the Premier Portal for the status of each FEP's software release such as Lab, Beta, or Production. These release notes contain all the information for all release statuses.

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

Auto Upgrade

The following is important information when setting up Verifone Self Checkout on the Verifone C18 POS for the first time. The following configuration is not needed after the next Auto Upgrade.

- 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.
 - usccategorycfg - 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.

Configuring the Verifone C18 when using a Legacy Scanner

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.

EMV Certified

This software version supports Contact and Contactless Indoor. See the Dispenser Card Reader section towards the back of these release notes for EMV Contact and Contactless certifications for each dispenser manufacturer.

Verifone EPS (LAC) Outdoor EMV

Outdoor EMV is only for Trinidad and Tobago locations.

TLS Support

NOTE: The steps below are only required for a manual software installation. The Auto Upgrade automatically sets the TLS settings.

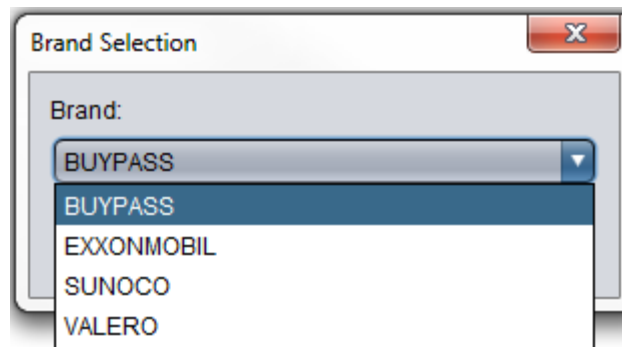
To set up TLS and if this is a manual software installation, follow these steps:

1. On the Verifone MX PINpad, the Port needs to be set to '5000' at Configuration > Network Settings.
2. On the Verifone Commander, the POP has to be configured to "Connect with SSL" and Secure Port '5000' at Configuration Client > Payment Controller > EPS Global Configuration > POP.

See the latest Verifone ViperPAY User Guide and Commander documentation for more details on accessing these areas.

Buypass Software Installation

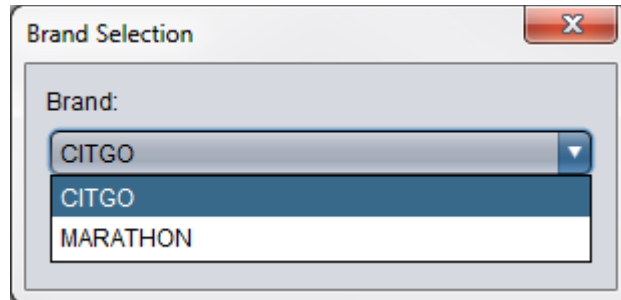
During the software installation, the system prompts for Brand Selection. Choose from the drop-down menu and then click OK.



After installation, see the Help menu and the About to check the Brand selection.

VAPS Software Installation

During the software installation, the system prompts for Brand Selection. Choose from the drop-down menu and then click OK.



After installation, see the Help menu and the About to check the Brand selection.

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.

What's New In Base Version: 54.01.00

BASE ENHANCEMENTS AND NEW FEATURES

Verifone C18 Self Checkout Application and POS

An employee can now generate a bar code to log into the C18 Verifone Self Checkout Application and the POS. It can also be used for performing override functions. The bar code is valid until a Close Daily is performed or the employee generates a new bar code. The option is located under the Maintenance menu.

Verifone Configuration Client

The number of POP Discounts have increased from 25 to 50 on the Verifone Configuration Client > Promos and Discounts > POP Discount Configuration > POP Discounts tab.

Dispensers

1. Kilograms is now supported as the unit of measure only for fueling positions that have a hydrogen-based fuel configured. Currently, the product codes for hydrogen fuel is 331 and 332. If any fueling position that has a fuel product with product code 331 or 332, then that fueling position will be considered Hydrogen-based and will use kilograms as the unit of measure. DCR receipts, POS displays, and reporting to the EPS will reflect kilograms.
2. The ability to gather Bennett Hydrogen Dispenser Blending Reports and Site Asset Data are now supported.

FoodService

FoodService Paid Order over and under amounts are now displayed in the MOP Totals Report.

POS System

1. The number of menus that can be configured on Verifone Commander has increased from 200 to 500.
2. Support was added for the new GenTouch touch panel on Ruby2 and Topaz-410 POS workstations.

Sales

A new receipt section was added to print a consolidated view of all PPG discounts on inside and outside receipts. The "Receipt Print PPG Discount Table" parameter can be enabled or disabled at Verifone Configuration Client > Sales Configuration menu.

BASE RESOLUTIONS

Verifone C18 Self Checkout Application

1. When the cashier logged into the Verifone Self Checkout Application to perform a sales transaction with Credit and then canceled it, it locked up on the transaction canceled overlay message. The cashier had to reboot the C18 to clear it. This was corrected and now the overlay message will disappear after a few seconds.
2. On the Verifone C18 Self Checkout application, occasionally, the cash recycler was giving too much change in the transaction. This was corrected.
3. If the first cash recycler was configured and saved and then a second cash recycler was configured but not saved, the first cash recycler obtained the configuration from the second one. This was corrected.
4. Charity has been removed from the Verifone Self Checkout Application for Cash transactions.
5. When the cash recycler was empty or had less change than cash inserted, an error was displayed instead of prompting the cashier to insert more currency. This was corrected and the cash recycler will now prompt the cashier for more currency.
6. The Verifone C18 Self Checkout Application “Feature Disabled” message was displayed when the POS was in Self Checkout Application mode. This was corrected.

Verifone Configuration Client

1. When trying to log into Verifone Commander Configuration Client from the POS on first login, it displayed the “This site can't be reached” error message. On any login attempts after the first try, the user was able to reach the Verifone Commander Configuration Client. This was corrected.
2. When the Pricecheck overlay was displayed, the option to add the PLU after PLU entry, was not present. This was corrected and now the option to add a PLU is displayed.
3. When the Verifone Configuration Client price was configured to the same price as the PetroVend price, an error occurred causing the real time sales data on the PetroVend device not be reported. This was corrected.

Dispensers

1. When back-to-back fuel or price initializations are made within a certain time interval, the price change was updated for the first initialization, but subsequent initializations were rejected with an error message. This was corrected and now a pop-up message will display the “Another Fuel Initialization In Progress. Please Try Again Later” message.
2. If a pump was fueling before a Verifone Commander reboot, the sale came due even though the auto collect was enabled. This was corrected and the sale transaction will be collected.

3. After Bennett Hydrogen Dispenser implementation, the system was not associating configured fueling positions to fuel channels. It caused Price Change Data errors in the Fuel Grade Movement Report. This was corrected.

Dispenser Card Readers

1. The Connexus DCR driver was not setting the fueling attribute of the prompt message to true while fueling was in progress. This was corrected and now it insures that the DCR display works as expected when media is enabled.
2. Gilbarco FlexPay 4 (M7) was returning an incorrect Tag value for the transaction entry mode of a contact card. This was corrected and now it will return the correct value.

EPS System

1. Dual Contactless cards were declining inside after displaying the "Transaction Type Mismatch, Please Select Debit" message. When Debit was used, the "Transaction Type Mismatch, Please Select Credit" message displayed. This was corrected.
2. StandIn limits were not handled correctly for EMV. This was corrected.
3. The Verifone EPS web page displayed PIN Pad serial number as "N/A" and the Mobile VAS field displayed serial number instead. This was corrected and now the PIN pad displays the serial number.
4. An update was included to remove redundant Get Diagnostic Commands which may improve handling and alleviate the symptoms for several recent issues being observed with the loss of communications on the PIN pad, PIN pad lockups, and line item display issues. Some additional internal logging updates were also added.
5. The system was not sending the ISO prefix and card type for MPPA transactions to the loyalty host. This was corrected.
6. On a postpay fuel transaction, the APT terminal was prompting the customer to swipe a card without displaying other MOP options. This was corrected.
7. The cashier was unable to activate CHS proprietary cards on the PIN pad. This was corrected.
8. When Contactless EMV was enabled outside through Verifone Configuration Client, the DCR was allowing MSR MSD transactions. This was corrected and MSR MSD transactions are no longer accepted.

POS System

1. Charity has been removed from prompting at VISTA devices such as APT and Food Service.
2. The following licensing issues were corrected:
 - Both Verifone ASM and Self Checkout Application alarm messages were displayed on the seventh day after extending the license.

- Both Verifone ASM and Self Checkout Application alarm messages were displayed only on the POS, but no alarm messages on the Self Checkout Application when the license expired.
 - DCR display loads after fuel restart when Fuel Site Pause was active.
 - The invalid statement “Failed” instead of “Due to ASM expired - Fuel site can't be disabled” while performing “Fuel Site Pause” disable when License was expired.
 - When selecting to disable Fuel Site Pause with a valid Verifone Self Checkout Application license, the POS displayed “Fuel Site Pause Enabled” instead of the “Fuel Site Disabled” message.
 - When the Verifone ASM and Self Checkout Application license was expired and grace period was over and if the Cloud connection was dropped, there was no alarm message for the “Disconnection” on the POS.
 - System and alarm messages disappeared when navigated back to sales screen from the CSR function.
3. Excessive tender failures with a single loyalty transaction on Commander or Commander E configured system led to an out of memory condition. This was corrected.
 4. Occasionally, the POS register would start to operate very slowly and then eventually lock up. After rebooting the register, it would not recover. This was corrected.
 5. Occasionally, the line item display was not clearing on the PIN pad at the end of transaction. This was corrected.

Reports

1. MOPs were not displayed on the End Of Day Report in Report Navigator. This was corrected.
2. The Prev (Previous) and New field values were reversed in the Report Navigator Fuel Street Price Change Report. This was corrected.
3. The Hourly Report by Register Report displayed sales without removing the NAXML discounts present in the transaction. This was corrected and now the correct total net sales of the transactions are listed.
4. There was an XML Validation error in the Fuel Grade Movement Report data when the Daily Report was performed. This was corrected.
5. The All DCRs section of the Hourly Report by Register were not counting for all the customers that purchased fuel at the DCR. The system was not retaining previous hours of data. This was corrected and now each customer is accounted for the hour of DCR transactions.

Sales

A fuel sale was not removed from the Autocollect Report after it was recalled and tendered at the POS. It caused a double fuel transaction as an autocollect and an inside transaction. This was corrected.

FEP Specific Changes

Chase FEP

Resolution

The partially approved confirmation message with Yes/No button was not clearing from the PIN pad screen. This was corrected.

Chevron FEP

Enhancement

The following changes have been made to the indoor and outdoor receipts:

- Street Price /G was changed to Original Price /G
- Total Dis/G was changed to Total Discount/G
- Paid Price/G was changed to Total Price/G

Resolutions

1. The EPS was allowing the dispenser to fuel the balance of the gift card instead of the approved limit from the Host. This was corrected.
2. Offline MSR prepay fuel transactions were initially approved followed by a declined message. This was corrected and now offline MSR prepay transactions are approved if allowed by the Chevron PDL.

HPS FEP

Enhancement

The capability to enable or disable the PIN Bypass for all Contactless AIDs via table was added when PIN Bypass value was not sent by the host in the EMV PDL.

Resolution

When performing a transaction with an EMV Contact credit card and then part or all of it was refunded with STAN, the POS declined with a system failure message. This was corrected.

Phillips 66 FEP

Enhancement

The capability to enable or disable the PIN Bypass for all Contactless AIDs via table was added when PIN Bypass value was not sent by the host in the EMV PDL.

Rapid Connect FEP

Enhancements

1. Within the Bypass Configuration, the PTPE Enabled box is now grayed out for the FEP Card Type.
2. Updates have been made to the Sunoco Default Configurations.

Resolution

Voyager Fleet Cards when configured for a DCR Authorization Amount of \$400 dollars, it will only authorize for \$100 dollars. If configured for a DCR Authorization Amount of \$300 dollars, it will authorize for \$300 dollars This was corrected.

VAPS FEP

Enhancement

The capability to enable or disable the PIN Bypass for all Contactless AIDs via table was added when PIN Bypass value was not sent by the host in the EMV PDL.

Resolution

Occasionally, the system lost the connection with the host and went into Fallback mode. When the Verifone Commander was rebooted, the connection was restored. This was corrected.

Verifone EPS

Resolutions

1. When performing a transaction at the DCR with a Fleet card, it requested the Driver ID and then it sent a “Declined” message. It occurred only at the DCR. It worked inside. This was corrected.
2. The Verifone Commander was processing very slowly when multiple APT terminals were in use. This was corrected.

WorldPay FEP

Enhancement

The maximum cut-off limit is now allowed up to \$9999.99 in Verifone Commander Configuration Client > Payment Controller > EPS Configuration > WorldPay Configuration.

Resolutions

1. A DCR completion was sent with a PIN Block and then the transaction was declined. This was corrected and now the completion will be sent without a PIN Block and the transaction will be approved.
2. The system was not checking for a Consumer Device Cardholder Verification Method (CDCVM) transaction before printing the text "Cardholder verified by PIN" on the receipt. This was corrected and the system now validates the transaction.
3. When the Certificate Authority expired, the Communication between the Verifone Commander POS System and Cullinan host failed. This was corrected by updating the certificate.

What's New In Base Version: 54.00.00

BASE 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 Systems 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.

BASE 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.

FEP Specific Changes

Chase FEP

Enhancements

1. The new VISA Fleet EMV BIN is now supported in order to process all EMV VISA Fleet cards.
2. The ability to enable MSD Contactless outside has been removed so that the site is always processing EMV Contact and Contactless at the DCR.

Resolutions

1. Cashier could not prepay fuel with a credit card if the product code was set to 300. This was corrected and all fuel related product codes are now added.
2. Four EMV Contactless Visa Fleet BIN ranges were not correct in the card table. These were corrected.

Chevron FEP

Enhancements

1. Improvements been made to reduce offline authorizations by always attempting to get an online authorization.
2. The ability to enable MSD Contactless outside has been removed so that the site is always processing EMV Contact and Contactless at the DCR.
3. The “Rollback at Pump” feature is now enabled as default.

Resolution

When performing partial authorization transaction on the POS with a Fleet One card, the PIN pad prompted with the “Use balance of \$9.00 Yes/No” message. The customer pressed “Cancel,” but the PIN pad locked up. This was corrected and the PIN pad will now complete successfully.

HPS FEP

Resolutions

1. System was prompting for ZIP code when the PIN was entered for contact and contactless transactions. This was corrected and the system will no longer prompt for the ZIP code.
2. Cashier could not prepay fuel with a credit card if the product code was set to 300. This was corrected and all fuel related product codes are now added.

NBS FEP

Enhancement

The ability to enable MSD Contactless outside has been removed so that the site is always processing EMV Contact and Contactless at the DCR.

Rapid Connect FEP

TransArmor Verifone Edition (TAVE) Feature

Beginning with Base 54, a TAVE Configuration was implemented, but until the TAVE Feature has been certified for each Buypass customer, it cannot be enabled. Also, the feature requires separate configuration files to be loaded onto a device to “TAVE” it. After the device is TAVE ready, it will no longer run in a non-TAVE Verifone Commander environment.

Contact your sales representative if you want to discuss the implementation of an End-to-End Encryption (E2EE) solution.

Resolutions

1. After any fuel price change or if both Fuel price and Fuel was initialized within a brief time interval, sometimes the price changes were not detected and uploaded with terminal mail to Fiserv. This was corrected and price changes are now detected and sent.
2. The alarm message “Transaction Stops at:mm/dd/yyyy” displayed when the host totals were rejected, but after a valid and successful Day Close the following evening, the message did not clear. This was corrected.
3. When a site was in Store and Forward, the system was exceeding the card table transaction limit. This was corrected and now the system will decline transactions when the limit is reached.
4. For Valero sites, contactless transactions were prompting for cashback. This was corrected and contactless will not prompt for cashback.
5. Within the Buypass Configuration, the PTPE Enabled box is now grayed out for the FEP Card Type.

VAPS FEP

Resolution

The Close Batch function and/or messaging was not working correctly after an EMV PDL. This was corrected and the Close Batch processes correctly with the correct messaging.

Verifone EPS (LAC) FEP

Enhancement

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

WorldPay FEP

Enhancement

The new VISA Fleet EMV BIN is now supported in order to process all EMV VISA Fleet cards.

Resolution

Cashier could not prepay fuel with a credit card if the product code was set to 300. This was corrected and all fuel related product codes are now added.

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

Dispenser Manufacturers Supported by Processor/Brand

These are the dispenser manufacturers supported by Processor or Brand,

| Processor/Brand | Bennett | Gilbarco | Invenco | Tokheim | Wayne |
|--------------------|---------|----------|-----------|---------|-------|
| BP | Yes | Yes | Yes | Yes | Yes |
| Buypass | Yes | Yes | Yes | Yes | Yes |
| Chase | No | Yes | No | Yes | Yes |
| Chevron | No | Yes | No | Yes | Yes |
| CITGO | Yes | Yes | Yes | Yes | Yes |
| ExxonMobil | Yes | Yes | Yes | Yes | Yes |
| Gulf | Yes | Yes | Yes | Yes | Yes |
| HPS | Yes | Yes | Yes | Yes | Yes |
| Marathon | Yes | Yes | Yes | Yes | Yes |
| NBS | No | Yes | Yes | Yes | Yes |
| Phillips 66 | Yes | Yes | Yes | Yes | Yes |
| Shell | No | Yes | No (Beta) | Yes | Yes |
| Sunoco | Yes | Yes | Yes | Yes | Yes |
| Valero | Yes | Yes | Yes | Yes | Yes |
| Verifone EPS (LAC) | Yes | Yes | Yes | Yes | Yes |
| WorldPay | Yes | Yes | Yes | Yes | Yes |

MSD Contactless No Longer Supported by Base

These are the distributions that no longer support MSD Contactless at a specific base level and higher..

| Distribution | MSD Contactless Not Supported |
|--------------------|-------------------------------|
| Bypass | Base 53.41.00 and Higher |
| Chase | Base 54.00.00 and Higher |
| Chevron | Base 54.00.00 and Higher |
| HPS | Base 53.41.00 and Higher |
| NBS | Base 54.00.00 and Higher |
| Phillips 66 | Base 53.41.00 and Higher |
| Shell | Base 53.41.00 and Higher |
| VAPS | Base 53.41.00 and Higher |
| Verifone EPS (LAC) | Base 53.41.00 and Higher |
| WorldPay | Base 53.41.00 and Higher |

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: <i>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.</i></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 Verifone Commander 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 |
| Tokheim | | | |
| DHC | Yes | v6.17 | Supports PPU Discounting |
| VXDHC | Yes | v4200.03.09 | Supports PPU Discounting |
| Dresser/Wayne | | | |
| CPU | No | | Uses the Verifone Commander Forecourt Interface |
| PIB | No | | |
| Fusion | No | | |
| HyperPIB | No | | |
| Arbitration Board | No | | |

| Gilbarco | | | |
|-----------------|----|--|---|
| Legacy PAM 1000 | No | | Uses the Verifone Commander 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: See <https://www.vfne.co/verifone-petro-emv-updates> for Outdoor EMV Implementation Status updates.

| Bennett: SSP (Simply Secure Payment) | |
|--|-----------------------------|
| EMV Certification | |
| EMV Contact | Certified |
| EMV Contactless | Certified |
| Supported Options | Recommended Minimum Version |
| EMV | XXXXXX.10.10.07 |
| Notes | |
| <p>Note: The "XXXXXX" number is based on hardware revision.</p> <p>Note: Upgrade to EMV version XXXXXX.10.10.09, if the site is experiencing “Remove Card” message remaining on the display after the card has been removed until timeout.</p> | |

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

Bennett (Continued)

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

Dresser/Wayne

NOTE: See <https://www.vfne.co/verifone-petro-emv-updates> for Outdoor EMV Implementation Status updates.

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.

| Dresser/Wayne: iX Pay 2, 3.1 Series | | | | |
|---|--------------|--------------------|----------------------------|-----------------------------|
| EMV Certification | | | | |
| EMV Contact | | | | Certified |
| EMV Contactless | | | | Certified |
| EMV Status | Firmware | Contactless Reader | ContactlessReader Firmware | Contactless Build Revision |
| NFC Mode > Contactless | 3.1.203.1260 | C150S | 26100A02 | 21031801 |
| NFC Mode > Contactless Disabled | 3.1.203.1260 | C150S | 26100A02 | 21031801 |
| Supported Options | | | | Recommended Minimum Version |
| 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 | | | | |
| Note: Jade board is recommended for outdoor EMV. Red board can be used if non-media site. | | | | |
| Note: Cash Acceptors are not supported with EMV. | | | | |
| Note: Prior to upgrade to Wayne EMV software, please check the minimum version with Wayne. | | | | |
| Note: DSM, Secure CAT, SDES, and Master Session are not supported. | | | | |

Dresser/Wayne (continued)

| Dresser/Wayne: iX Pay 1, 2.8 Series | | | | |
|--|-------------|--------------------|----------------------------|-----------------------------|
| EMV Certification | | | | |
| EMV Contact | | | | Certified |
| EMV Contactless | | | | Certified |
| EMV Status | Firmware | Contactless Reader | ContactlessReader Firmware | Contactless Build Revision |
| NFC Mode > Contactless | 2.8.203.9 | C150 | 2610EA02 | 21032201 |
| | 2.8.203.9 | C150S_NP | 2610FA02 | 21031901 |
| NFC Mode > Contactless Disabled | 2.8.105.109 | C150 | 2610EA02 | 18050901 |
| | 2.8.105.109 | C150S_NP | 2610FA02 | 19020101 |
| Supported Options | | | | Recommended Minimum Version |
| 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 | Certified |
| Supported Options | Recommended Minimum Version |
| Contact/Contactless EMV | 3.1.207.430 |
| ANTX | 1.18.2.687 |
| Notes | |
| Note: <i>Cash Acceptors are not supported with EMV.</i> | |
| Note: <i>Prior to upgrade to Wayne EMV software, please check the minimum version with Wayne.</i> | |

| 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 | |
| Note: <i>DSM, Secure CAT, SDES, and Master Session are not supported.</i> | |

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: <i>Cash Acceptors, DSM, Secure CAT, TDES, and Master Session are not supported.</i> | |

| 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: <i>DSM, Secure CAT, TDES, and Master Session are not supported.</i> | |

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: <i>DSM, Secure CAT, TDES, and Master Session are not supported.</i> | |

| 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: <i>DSM, TDES, and Master Session are not supported.</i> | |

Gilbarco

NOTE: See <https://www.vfne.co/verifone-petro-emv-updates> for Outdoor EMV Implementation Status updates.

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.

| Gilbarco: FlexPay IV (M7) | |
|--|---------------------------------------|
| EMV Certification | |
| EMV Contact | Certified |
| EMV Contactless | 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: <i>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.</i></p> <p>Note: <i>Cash Acceptors are not supported with EMV.</i></p> <p>Note: <i>GSM, SDES, and Master Session are not supported.</i></p> | |

Gilbarco (continued)

| Gilbarco: FlexPay II (M5) | |
|--|------------------------------------|
| EMV Certification | |
| EMV Contact | Certified |
| EMV Contactless | 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: <i>Cash Acceptors are not supported with EMV.</i> | |
| Note: <i>Contactless (RFID), GSM, SDES, and Master Session are not supported.</i> | |

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

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: <i>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.</i></p> <p>Note: <i>Master Session and Cash Acceptors are not supported.</i></p> <p>Note: <i>Please contact your Gilbarco servicer for the correct setup of the EPP and the mapping of the keypad.</i></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 | |
| Note: <i>InfoScreen graphics are supported only in single-line mode.</i> | |
| Note: <i>Version 60.7.30 is NOT supported for any mode.</i> | |
| Note: <i>TDES and Master Session are not supported.</i> | |

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: <i>InfoScreen graphics are supported only in single-line mode.</i></p> <p>Note: <i>Version 60.7.30 is NOT supported for any mode.</i></p> <p>Note: <i>TDES and Master Session are not supported.</i></p> | |

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

Invenco

NOTE: See <https://www.vfne.co/verifone-petro-emv-updates> for Outdoor EMV Implementation Status updates.

| Invenco: FlexPay 6 All-In-One 5" A1-05 (AKA, G6-300) | |
|--|-----------------------------|
| EMV Certification | |
| EMV Contact | Certified |
| EMV Contactless | Certified |
| Supported Options | Recommended Minimum Version |
| EMV Firmware | 3.2.21 |
| EMV Adapter | 1.06.0159 |

| Invenco: FlexPay 6 Modular 15" M1-15 (AKA, G7-100) | |
|--|-----------------------------|
| EMV Certification | |
| EMV Contact | Certified |
| EMV Contactless | Certified |
| Supported Options | Recommended Minimum Version |
| EMV Firmware | 3.2.21 |
| EMV Adapter | 1.06.0159 |


Tokheim




| 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: <i>Scanner, TDES, Debit TED (4-line display) Master Session, Debit TDS Plus (4-line display) and Master Session are not supported.</i></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: <i>Scanner, TDES, and Debit TED (4-line display) Master Session are not supported.</i> | |

Verifone and Partner 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> | 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> | 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 M400, P400, 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 https://www.verifone.com/en/us/petro-partners-program . | |

| 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.