

# Verifone Commander

## Release Notes



## Versions and Information

<b>Release Version</b>	56.03.00
<b>Release Date</b>	January 7, 2026
<b>Publication Date</b>	January 7, 2026

## Distribution Component Versions

<b>Release</b>	056.03.00
<b>OS</b>	6.02.00
<b>EPS</b>	9.09.00
<b>RCI</b>	6.00.01
<b>WEB</b>	5.05.00

<b>FEP</b>	<b>Suite</b>	<b>FEP</b>	<b>EVPAY</b>	<b>ViperPAY</b>	<b>Network</b>
<b>Chevron</b>	56.03.00	08.56.03.00	2.04.04 r01	4.07.11	N/A
<b>Phillips 66</b>	56.03.00	56.03.00	2.08.00 r09	4.07.11	47
<b>Verifone EPS (LAC)</b>	56.03.00	56.03.00	2.04.04 r01	4.07.11	N/A

**NOTE**

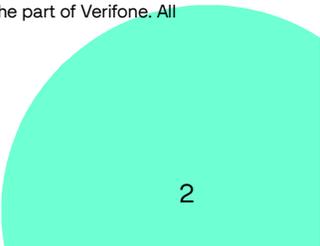


The EVPAY and ViperPAY versions listed above are bundled with the software. They do not convey their release status/state.

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# PIN Pad Software Versions

## Minimum EVPAY (Engage) Certified Versions

For the EVPAY (Engage) Certified Versions for Verifone M400 and P400, click on [Current VRSD Production Software List](#).

### NOTE



If VCL (TAVE key) is used, the PIN pad must have the EVPAY 2.08.00 R09 version.

## Attendant Payment Terminal (APT) Version

This Verifone EPS (LAC) Commander software requires APT version 1.03.08.

## Minimum EMV Certified Verifone ViperPAY Versions

### NOTE

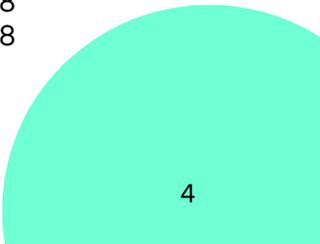


For the ViperPAY Certified Versions for Verifone MX PIN pads, click on [Current VRSD Production Software List](#).  
Make sure the minimum OS and any OS Updates are loaded before installing Verifone ViperPAY. See the Verifone ViperPAY release notes.

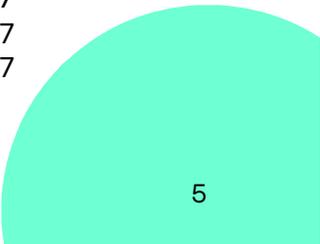
PIN pad	Version	XPI	Kernel	OS Version
Verifone MX 900 Series	4.07.11	5300w	Velocity L2 7.02	Minimum - 30140200
				Recommended - 30251000

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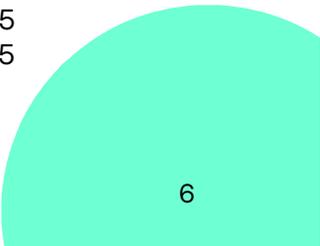
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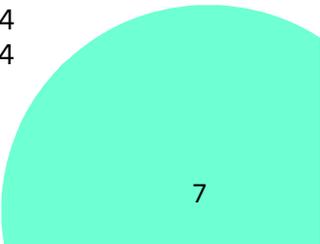
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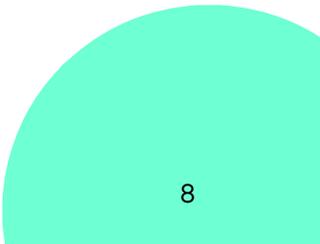
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## Important Information

### White-Labeled Printer

<b>NOTE</b> 	White-label firmware is required for the RP-700 printer. For more information on the Verifone RP-700 printer, see the Verifone RP-700 Printer Installation Guide at the Verifone Premier Portal > Manage > Petro Downloads > Fuel and Hardware Peripherals > Printers.
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### Verifone RP-700 Printer

Details specific to the white-labeled Verifone RP-700 receipt printer are provided below:

- **Part Number (PN):** 930001L13A018
- **White-Label Firmware Versions:**
  - Boot Firmware: FV1.010
  - Main Firmware: FV1.101.02

To verify the firmware, use the following steps:

1. Turn off the printer.
2. Hold the **Feed** button and power the printer on.
3. A self-test printout will be generated.
4. The firmware version should appear near the top of the printout.

### Fuel Initialization

Fuel initialization must be initiated when all dispensers are idle. Site should use an appropriate method, such as Site Pause, bagging handles, or placing cones, to prevent authorization attempts while fuel initialization is in progress. Otherwise, unintended consequences may occur.

### Verifone Commander Registration

If a site is auto upgrading using a USB flash drive or the autoupgrade.jar process, the Verifone Commander will need to be re-registered. Only auto upgrades sent through the VRSD request will maintain registration.

## M400 PINpad Automatic Software Updates

M400 PINpads connected on the Verifone Commander system loaded with EVPAY 2.03.03 r04 or higher will automatically upgrade to the version listed on page 2 in the Distribution Component Versions section. Also, the Shell FEP will not automatically upgrade to any EVPAY version.

## Upgrading From Release 53.26 or Lower to Release 55.02 and Higher

If a site is upgrading from release 53.26 or lower to release 55.02 and higher, it is recommended to use the following instructions instead of the Package Sender (Auto\_Upgrade.jar):

- a. Back up the site data using the SMS Import/Export Utility.
- b. Perform a manual reload using the Petro Suite Installer.
- c. Restore the site data using the SMS Import/Export Utility.

The alternative software loading methods are VRSD and USB. See the Verifone Commander and POS Software Installation Guides for more information.

## Verifone Expired Site Solution (ASM) and Onboarding Messages

Starting with Release 53.41.00, expired Site Solution (ASM) and C-Site Management Onboarding requirement messages and alarms will display on the POS. The messages briefly explain the appropriate actions that the site needs to take for the messages to stop.

## Base Release, Suite, and FEP Version Alignment

Starting with Release 55.00.00, the Distribution Suite and FEP version have been updated to align and, in most cases, have the same version as the Base version.

## OS Update

Starting with Release 55.00.00, the Verifone Commander and POS Workstations will now share one common OS with SELinux (Security-Enhanced Linux).

## Downgrading from Release 55 to a Lower Version

If a site needs to downgrade their Verifone Commander or POS from Release 55.00.00, follow the procedures in the downgrade document located at:

- Premier Portal > Manage > Petro Downloads > Commander & RubyCi > Commander Tools, User References, and Other Documentation > Documentation
- Premier Portal > Manage > Petro Downloads > Commander & RubyCi > POS > C18, Ruby2, or Topaz Documentation areas.

## Release 55.00.00 and POS Pairing

The POS Pairing process may take up to two additional minutes to complete while “Processing, please wait...” is displayed on the POS workstation screen. Do not reboot the POS while this message is displayed.

## Lab, Beta, or Production Software Status

See the Lab, Beta, or Production software sections on the Premier Portal for the release status of each FEP’s software at Manage > Petro Downloads > Commander and RubyCi > Commander Software Suites, Release Notes and Documentation. These release notes contain all the information for all release statuses.

## 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 Cashier Functions (CSR Func) > 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.

See the Commander User Reference for Release 55.02 for more information on scanners.

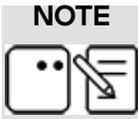
## EMV Certified

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



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

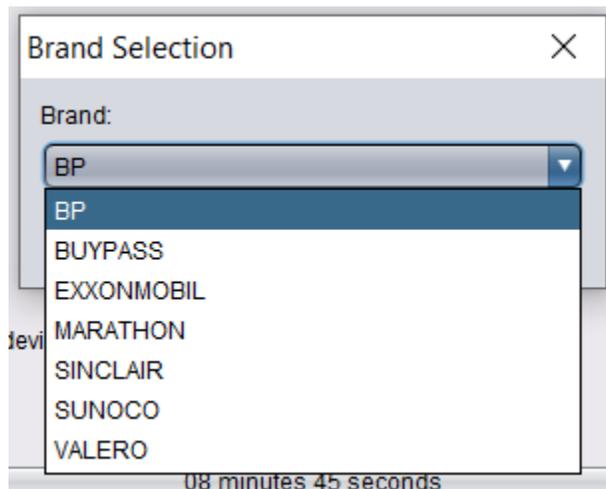
To set up TLS and if this is a manual software installation, follow these steps:

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

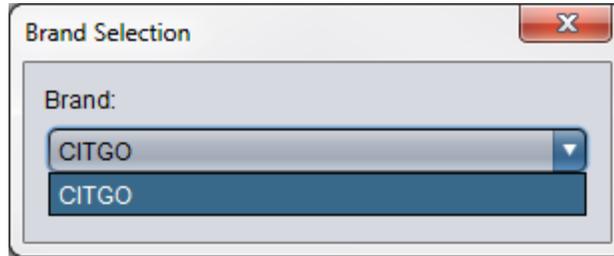
During the software installation, the system prompts for Brand Selection. Choose from the drop-down menu and then click OK.



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 Release Version: 56.03.00

### ENHANCEMENTS AND NEW FEATURES

#### Verifone Self Checkout

##### Pay at the Counter

The Verifone Self-Checkout display option to Pay at the Counter can now be hidden for certain scenarios. This is for sites that do not want their customers to pay at the counter. It can be enable or disabled in System Properties.

#### Reports

##### Stylesheet-Based Reports

By optimizing certain aspects of memory usage, improvements were made to Verifone Commander Stylesheet-Based Reports.

#### POS System

##### Cash Rounding Feature

With the discontinuation of the U.S. penny, all cash transactions can be rounded to the nearest five cent increment. Our POS system, billing, and reporting systems will properly handle rounding, eliminate penny references, and remain compliant with the new standards. The following System Properties can be configured:

- `cash.rounding.enabled=true` or `false`
- `cash.rounding.strategy=NEAREST, UP, or DOWN`
- `cash.rounding.adjustment=0.05, 0.10, or 1.00`

If incorrect values are entered, the system will use the default values (`false`, `NEAREST`, and `0.05`).

##### Site Management Suite (SMS) Import and Export Utility

The Site Management Suite (SMS) was updated to version 3.00.15 and the Import and Export Utility was updated to version 3.00.11 with this release.

## RESOLUTIONS

### Verifone Configuration Client

1. The DNS values displayed in Verifone Configuration Client were determined by the sequence of elements in the incoming XML rather than their unique IDs. As a result, DNS3 was populating on DNS1. If there were no DNS entries configured on DNS1 and DNS2, the remaining values shifted upward and appeared in the wrong fields. This issue was limited to the information viewed in Verifone Configuration Client. The XML payload had the correct IDs. This was corrected by binding each DNS to their respective configuration IDs.
2. The Security Log Servers Configuration was displaying an internal error when trying to add or update a log server IP in Verifone Configuration Client. This was corrected.
3. There was a potential issue that could result in the system getting stuck causing the POS to lock up. This was corrected.

### Verifone Self Checkout

1. The “OK” button on the Verifone Self Checkout displayed with a red background. It was causing confusion. This was corrected and now it displays with a green background.
2. When an order was placed on the Verifone K350 or Online Ordering Portal, the Verifone KDS received a ticket with a specific order number. If the ticket was recalled or scanned from the customer bar code and then paid the ticket on the Verifone C18, the Order status was updated to “Paid.” However, a new duplicate ticket was also created with a Verifone C18 order number. This was corrected and now there are no duplicate tickets.

### Dispensers

There was a possible intermittent issue with dispensers not allowing a preset due to pump stopped. This was corrected by making an internal update to improve handling.

### Dispenser Card Readers

1. Since the required Gilbarco Veeder-Root (GVR) M7 firmware has not been released to production for the support of the GVR Offline Plain Text PIN, the DCRs were rebooting when a chip card was used. This was corrected by backing out the changes for the support of the GVR Sunset Offline Plain Text PIN.
2. On Verifone Commander version 55.02.04, occasionally when a user entered a correct Driver ID at the DCR prompt quickly, the intended numeric value changed to an alphanumeric causing a decline with error “Invalid PIN Entered” message. If the customer tried the same card again, unknowingly a little slower, the transaction completed as expected. This was corrected and now the alphanumeric characters will only be sent if the Alphanumeric check box is enabled in DCR Keys Configuration.
3. When a car wash was selected after fueling, the DCR went to the idle screen, no receipt printed, the completion was not sent to the host, and the sale came due inside. This was corrected and now the transaction will complete as expected.

## EPS System

1. POS was sending an EMV initialization to the PIN pad via the EPS when the cashier switched between CSR and return options and then initiated a transaction. It also caused the PIN pad to “Processing please wait” stage. This was corrected and now the EMV initialization is not sent.
2. Comdata limits were handled incorrectly if more than one limit was sent. Quantity limit was compared without addressing the decimal points. This was corrected by setting the decimal points towards the left two positions for comparison.
3. Comdata product mapping table was missing entries for #1 Diesel and premium off-road diesel. This was corrected and the entries were added.
4. The user had to perform multiple day closes to apply the network tables. This was corrected and now only one day close has to be performed to apply the tables.

## Loyalty

1. When the user selected loyalty outside and payment inside, loyalty was prompted again inside. The loyalty information was not retained for the postpay sale. This was corrected and now the loyalty ticket references are retained for settling the postpay fuel transaction.
2. The PIN pad was displaying “Account Not Found” when the customer manually entered their loyalty number and the prompt “PCATS7 ISO ERROR” was displayed on the POS. This was corrected.
3. When the Cancel button was pressed on the POS numeric keypad at the Use Loyalty Option screen, the transaction was declined and the “E17 REVERSE ERROR” message displayed on the POS. This was corrected and now the transaction completes successfully.

## POS System

1. In Verifone Configuration Client > Managed Modules, when scanner and printer device types were changed from serial to USB and the POS was rebooted to engage the device, the printer module “Printer Type” changed to “VFIPrinter.submodule.” This was corrected and now it displays correctly.
2. The following charity donation expected prompt messages were not displayed on the POS screen:
  - Charity In Progress
  - Please acknowledge the charity prompt on the PIN pad or POSThis was corrected and now the prompt messages will display after entering values from the keyboard.
3. Occasionally, the Auto Upgrade was not completing. The POS was stuck at the A8 stage during the upgrade. This was corrected and now the Auto Upgrade completes as expected.
4. The error message “Unknown Communication Issue [1006]. Please wait. Trying to reconnect to server” displayed on the POS and then it rebooted. This was corrected.
5. Multiple logouts and logins were needed in order for POS configuration changes to be reflected on the C18 workstation. This was corrected.

6. When the Menu description was not available, the menu was displaying with a blank name. This was corrected.
7. Occasionally, some workstations failed to renew POS Pairing prior to auto upgrade, resulting in a failure and need to manually reload the device. This was corrected and now the auto upgrade will detect this situation and prompt the operator to correct the condition before retrying the auto upgrade.
8. Verifone serial printers (RP-300/310/320/330 and TM-88) without white labeling firmware were displaying “Receipt Printer Unavailable” or “Receipt Printer Unsupported” alarm messages. This was corrected and now the messages no longer display.

## Sales

1. Tax was not applied on a PLU item from the second menu in an Order Menu transaction. This was corrected.
2. Occasionally, the cashier mistakenly entered a value for the charity amount via the virtual keyboard causing an issue with the charitable donation. This was corrected and now the cashier can only cancel the charity prompt using the keyboard or the on-screen CANCEL button, ensuring the donation is only entered on the PIN pad.
3. For blue law transactions, the system was only looking at the PLU record and not inheriting from the department record. This was corrected by ensuring PLUs inherit Department restrictions and prevents restricted items from being sold outside designated hours.

## FEP Specific Changes

### Chevron FEP

#### Enhancement

##### Business Date and End-of-Day Sequence Number (EODSN) Support

The Business Date (BD) and the End-of-Day Sequence Number (EODSN) are now included in certain messages sent to the Chevron host. The Terminal Batch Summary Report and the EPS Network Report now display the correct BD and EODSN, and both values update at the end of each day.

When the system starts for the first time after installation, it sends an Offline Sign-On message that includes start values of Business Date, Start Time of Business Date, Start of EODSN and End of EODSN. If the system does not receive a response to this message, it will try again every 10 seconds up to 15 times. During this time (about 5 minutes), transactions are paused. If all retries fail, the system will allow transactions to continue normally, but it will not send the message again unless triggered later by the Store and Forward process. The follow-up message will not include the extra starting information. If the system does receive a successful response from the host, it will update the Business Date and end-of-day values accordingly. If no response is ever received, those values will not be updated.

#### Resolutions

1. When performing an indoor or outdoor transaction with three loyalty programs configured, sequence of loyalty prompts was incorrect. The order of prompting was corrected.
2. When an item with Open PLU and ID Check was enabled and the customer was under age, the error message “Customer Cannot Purchase This Item” was not displaying unless a second item was added to the transaction. This was corrected and now the error message displays immediately on the first item.
3. Debit Host Total information captured under the heading “ELECTRONICALLY CLOSED DEBIT BATCH” of the Network Batch Detail Report was incorrect, because the POS was referring to the Credit Total (instead of Debit Total) value sent in the response message received from the Chevron Host when POS Debit Total value was '0' and vice versa. This was corrected.
4. After a customer received a loyalty discount, the points were not removed from the loyalty account. This was due to specific timeout values being '999'. The POS/FCC timed-out after four minutes on any card service request and drop the connection. When the prompt eventually timed out, the EPS detected that the connection no longer existed to POS/FCC and triggered its reversal logic. This was corrected by changing the timeout value if it is '999'.
5. Cashback prompt was not displayed for both Discover Credit and Debit cards while performing a Prepay only Fuel or Prepay Fuel with Merchandise transactions when the switch panel settings were configured to prompt cashback. This was corrected.
6. When performing a Gift Card balance inquiry using an MSR card, the receipt was generated successfully and reflects the correct gift card balance. However, the entry method (Swiped)

was missing in the receipt. This was corrected and now the entry method (Swiped) is displayed along with the card details and balance.

7. Decline and pre-authorization transactions were populating the Unconfirmed Log. This was corrected and now they are not added to the Unconfirmed Log.

## HPS FEP

### Resolution

WEX and Mastercard Fleet transactions were failing with exception errors due to prompt lengths and product codes.

## Phillips 66 FEP

### Enhancement

Bluefin is now supported. Bluefin is a payment and data security company that provides Point-to-Point Encryption (P2PE) solution to protect sensitive payment information. Its service provides secure transactions both in-store and online, reducing the risk and simplifying compliance with Payment Card Industry (PCI) standards.

### Resolutions

1. POS was displaying “EPS is busy” message when processing a network transaction. This was corrected and now the network transaction continues as expected.
2. WEX and Mastercard Fleet transactions were failing with exception errors due to prompt lengths and product codes.
3. WEX EMV transactions were declined with a format error due to an extra space in the EMV data. This was corrected by removing the extra space.
4. The Network Configuration for Phillips 66 were not preserved after an auto upgrade from 56.00.00 to 56.02.01. This was corrected and now it is preserved.

## Rapid Connect FEP

### Resolutions

1. Sites using Datawire for Fiserv connectivity were displaying the echo test admin message. This was corrected and the echo admin message no longer displays for Datawire configured sites.
2. When the parameter “Allow without sale” was enabled for Credit or Debit MOP and cashback or cash advance was selected, the host declined due to a missing Service Level. This was corrected and now the service level is included.
3. The POS was displaying an E16 ISO format error when a sale transaction was performed by selecting a PLU linked with tax for all WEX OTR cards. This was corrected and now the transaction processes through the primary host if any merchandise PLU or fuel product is linked with tax.
4. Site was processing on TID 002, but reporting totals on TID 001. This original MID and TID were not being reset to null after Close Daily. This was corrected and now the original MID and TID are reset to null after response received for the host totals.
5. Changes have been made to comply with the latest Datawire protocol.

## Shell FEP

### Resolution

When the POS-to-EPS cable was disconnected during fueling and then reconnected more than three minutes after fueling was completed, the EPS failed to send the Card Financial Advice CSR message. This was corrected and now it sends the Card Financial Advice CSR message.

## VAPS FEP

### Resolutions

1. WEX and Mastercard Fleet transactions were failing with exception errors due to prompt lengths and product codes.
2. WEX EMV transactions were declined with a format error due to an extra space in the EMV data. This was corrected by removing the extra space.

## Verifone EPS FEP

### Enhancements

#### Visa and Mastercard Contactless EMV

Visa and Mastercard contactless EMV cards are now supported for the FCB FEP at the Gilbarco M7 DCR.

## What's New In Release Version: 56.02.01

### RESOLUTIONS

#### Verifone Configuration Client

1. The Security Log Servers Configuration was displaying an internal error when trying to add or update a log server IP in Verifone Configuration Client. This was corrected.
2. The DNS values displayed in Verifone Configuration Client were determined by the sequence of elements in the incoming XML rather than their unique IDs. As a result, DNS3 was populating on DNS1. If there were no DNS entries configured on DNS1 and DNS2, the remaining values shifted upward and appeared in the wrong fields. This issue was limited to the information viewed in Verifone Configuration Client. The XML payload had the correct IDs. This was corrected by binding each DNS to their respective configuration IDs.

#### EPS System

The user had to perform multiple day closes to apply the network tables. This was corrected and now only one day close has to be performed to apply the tables.

#### POS System

1. Verifone serial printers (RP-300/310/320/330 and TM-88) without white labeling firmware were displaying “Receipt Printer Unavailable” or “Receipt Printer Unsupported” alarm messages. This was corrected and now the messages no longer display.
2. After configuring Security Log Servers in Configuration Client, the POS started to lock up on the “Sales Functions Initializing” screen. This was corrected.
3. In Verifone Configuration Client > Managed Modules, when scanner and printer device types were changed from serial to USB and the POS was rebooted to engage the device, the printer module “Printer Type” changed to “VFIPrinter.submodule.” This was corrected and now it displays correctly.
4. The following charity donation expected prompt messages were not displayed on the POS screen:
  - Charity In Progress
  - Please acknowledge the charity prompt on the PIN pad or POSThis was corrected and now the prompt messages will display after entering values from the keyboard.
5. POS was locking up on the “Sales Functions initializing” message when navigating through different screens. A system reboot was required to recover. This was corrected and now the user can navigate through the POS screens as expected.

## Dispensers

There was a possible intermittent issue with dispensers not allowing a preset due to pump stopped. This was corrected by making an internal update to improve handling.

## Loyalty

When the user selected loyalty outside and payment inside, loyalty was prompted again inside. The loyalty information was not retained for the postpay sale. This was corrected and now the loyalty ticket references are retained for settling the postpay fuel transaction.

## FEP Specific Changes

### Phillips 66 FEP

#### Resolution

The Network Configuration for Phillips 66 were not preserved after an auto upgrade from 56.00.00 to 56.02.01. This was corrected and now it is preserved.

## Rapid Connect FEP

### Resolutions

1. Site was processing on TID 002, but reporting totals on TID 001. The original MID and TID were not being reset to null after Close Daily. This was corrected and now the original MID and TID are reset to null after response received for the host totals.
2. Changes have been made to comply with the latest Datawire protocol.

## Shell FEP

### Resolution

When the POS-to-EPS cable was disconnected during fueling and then reconnected more than three minutes after fueling was completed, the EPS failed to send the Card Financial Advice CSR message. This was corrected and now it sends the Card Financial Advice CSR message.

## What's New In Release Version: 56.02.00

### NEW FEATURES AND ENHANCEMENTS

#### Verifone C-Site Management

##### Branded Oil Policies

After successfully logging into Configuration Client or the Import/Export tool, a disclaimer message "C-Site Branded Oil Policies may control forms. If there is a violation, C-Site will revert the data." displays to the user. For Spanish-based locales, an equivalent translation of the above message will display to the user.

##### NOTE



Only certain field(s) will be controlled in a form corresponding to a policy.

#### Verifone Self Checkout

##### Background Screen Customization

The background screen on the home and lookup pages on the Verifone Self Checkout can now be customized by uploading an image for each screen orientation. The image will automatically load when rotated between landscape and portrait. A tool tip was added to the background image texts that will display the screen ratios for portrait and landscape. It also displays a note that the banner will overlay these images. Background images are not required for configuration. The default parameters will load white background and white background with gif) when not used.

##### Bypass ID Check

Bypass ID Check is now supported in Verifone Self Checkout Monitoring. Bypass ID allows cashiers to easily bypass age verification when prompted.

## Light Pole Enhancement

The Verifone Self Checkout light pole now flashes a slow yellow color when the “Are you still there?” inactivity prompt is displayed. Also, the Verifone Self Checkout Monitoring button changes to yellow to display inactivity updates.

## Reprompting for Age Verification

When an item is added to the cart with a higher age verification requirement, the POS, Verifone Self Checkout, and the Verifone Self Checkout monitoring function will reprompt for age verification.

## Transaction Timer Message

A transaction timer message to cancel the transaction has been added to Verifone Self Checkout if a customer walks away from the sale.

## POS Online Help

POS online help instructions were updated for Verifone Self Checkout Monitoring.

## Dispensers

### Host-Based Grade Restrictions

Improvements have been made to enforcing a host-based grade restriction at the dispenser. If the EPS or the host does not authorize all the grades, but more than one grade is on the dispenser, the DCR will display the grade selection prompt. Under any circumstances, customer will not be able to dispense an ineligible grade.

## EPS System

### WEX and Comdata Direct Connection

A Verifone direct connection to WEX and Comdata has been implemented. It allows the Verifone Commander to process Commercial Fleet transactions directly to WEX and Comdata. It will enable customers who do not use an acquirer, but supports commercial fleet transactions, to accept WEX and Comdata commercial fleet cards. It will be configured in Verifone C-Site Management only.

## Loyalty

### Loyalty Prompt Change

The loyalty prompt “Use Loyalty Options” was changed to “Present Loyalty ID/Card” when displaying soft keys for Alternate ID and barcode.

### QR Code Prompt

A loyalty program enrollment QR Code prompt is now supported on the Verifone M400 PIN pad.



## Mobile Payments

### Fuel Grade Restrictions

Mobile Payments now supports Fuel Grade Restrictions on Verifone Commander.

## POS System

### DNS Configuration

The DNS Configuration in Network Configuration is now sent from the Verifone Commander to the PIN pads.

### Import and Export Utility

Site Management Suite (SMS) Import and Export Utility was updated to version 3.00.10 with this release.

### Memory Usage

By optimizing certain aspects of memory usage, improvements were made to the Verifone Commander performance.

### Verifone RP-700 Printer

The Verifone RP-700 Printer is now supported. It prints receipts from the front or top, QR codes, bar codes, and logos. It is Verifone white-labeled and secured. It has USB plug-and-play support.

**NOTE**



The customer display should be disconnected when any USB peripherals are connected.

White-label firmware is required for the Verifone RP-700 printer. See the Important Information section, for white-labeling details.

## VISTA

### Bar Code Scans

The Vista framework was enhanced to allow barcode scans for mobile payments as part of the payments flow. Currently, Vista only supports the PIN pad QR code scan from the mobile application.

### Menu IDs

Menu IDs will now be sent from the Verifone Commander to the Vista Partner Food Service.

### Reporting

Vista device information is now available on the Verifone Commander to confirm partners are properly reporting their devices. It will also be available on Verifone C-Site Management Site Assets.

## RESOLUTIONS

### Verifone Self Checkout

1. Verifone Self Checkout locked up when the inactivity timer reached its limit during charity or tipping. This was corrected and now the user will be able to access the Verifone Self Checkout after the register time out.
2. If a customer answered 'No' to the loyalty prompt on the Verifone Self Checkout, it displayed a dynamic loyalty prompt after hybrid payment. This was corrected and now the Verifone Self Checkout will skip the dynamic loyalty prompt after a hybrid loyalty card is used.

### Dispenser Card Readers

1. Since the required Gilbarco Veeder-Root (GVR) M7 firmware has not been released to production for the support of the GVR Offline Plain Text PIN, the DCRs were rebooting when a chip card was used. This was corrected by backing out the changes for the support of the GVR Sunset Offline Plain Text PIN.
2. When the customer finished answering loyalty prompts and then raised the fuel handle at the payment screen, the DCR was calling inside even though Handle Up Calling and Preset Postpay were disabled. This was corrected and now the DCR will not call inside.
3. After an auto upgrade, the DCR was only displaying "Press Payment Key" and no other buttons or graphics. This was corrected and now the DCR displays the correct configuration after an auto upgrade.
4. There were intermittent issues with cards clamping on Wayne DCRs for an extended period of time and then they were declined. If the cards were re-inserted, the sale went through successfully. This was due to an occasional event message received from Wayne during chip card processing that was not processed before the next event message was received. This was corrected by adding time improvements for only event messages received from Wayne.

### EPS System

1. The "Invalid Product" message was displayed twice when attempting to purchase lottery with a fleet card. This was corrected and now it only displays once.
2. A generic declined message displayed on the PIN pad and DCR in a Verifone Commander EF environment when there was no matching card data found during the initial payment processing. This was corrected and now the track data from the unsuccessful transaction is sent back to the POS/OPT system. This allows the system to initiate a secondary (AUX) payment processing method, potentially leading to a successful transaction without displaying the initial decline message to the user.
3. Credit cards were processed after a decline at the DCR. The DCR displayed Decline, quickly displayed "Enter Data" prompt followed by a car wash prompt and then the customer was able to fuel. This was corrected and now the card will be prevented from being processed after a decline.
4. Null Pointer Exception was observed in the T-Log as part of a successful card transaction. This was corrected and now Null Pointer Exception are no longer observed.

5. Cashback option was not prompted when the transaction included PLUs with Tax and the customer was using Discover card for payment. This was corrected and now the cashback prompt displays.
6. Intermittently, a network transaction was not journaled in the T-Log or Network Journal. This was corrected and now it is journaled.
7. Transactions were getting declined when using the loyalty QR code on the PIN pad. An error message “Credit Timeout” displayed on the POS. This was corrected and now the transaction is approved.
8. The AID was missing from only the outdoor EMV contactless transaction receipts. This was corrected and now it is printed.
9. POS was sending an EMV initialization to the PIN pad via the EPS when the cashier switched between CSR and return options and then initiated a transaction. It also caused the PIN pad to “Processing please wait” stage. This was corrected and now the EMV initialization is not sent.

## Loyalty

1. When a gift card was swiped during a balance inquiry, the PIN pad displayed the “Rewards Customer Yes/No?” prompt. This was corrected and now the “Reward customer Yes/No” prompt will not display for the Balance Inquiry.
2. When an invalid loyalty ID was scanned using a bar code, the system continued to loop infinitely. This was corrected and now after scanning an invalid loyalty ID barcode for three times, the system will skip that particular loyalty program and continue with payment or with next available loyalty program.
3. On the MX 900 Series PIN pad, the loyalty program name was not displayed on the “Use Loyalty ID/Card” screen when Alternate ID was disabled. This was corrected and now the program name is displayed.
4. On Verifone Commander distributions with no primary FEP, EPS loyalty transactions were failing. This was corrected and now loyalty transactions will complete successfully without failure.
5. After applying the loyalty discount and a NAXML discount added, the item line price was going into the negative due to the loyalty discount. As a result, the tax was calculated on a negative price causing the overall transaction amount to become negative. This was corrected to ensure that the line item price never falls below zero.

## POS System

1. For POP PPG discount, the discount amount was set as the applied discount. This caused incorrect fuel totals in the Product Systems Product Code Movement Report, because the POP PPG discount amount was added to the totals of the fuel products. This was corrected and now the PPG applied discounts are prevented from getting added to the fuel totals in Payment Systems Product Code Movement Report. It also ensures that the POP post fueling

discounts continue to get added to the fuel product totals in the Payment Systems Product Code Movement Report as expected.

2. On Releases 55.02 and higher, PLUs or departments could not be imported from a backup with Auto Upgrade if a PLU or department number had zero(s). The workaround was to open the XML and delete the invalid “zero” entry and then save it. This was corrected. However, restoration of this data will not be allowed, and the process will continue with the remaining PLUs and departments.

## Reports

1. There was an inconsistency in the calculation of the per product total sales for cash and credit transactions for the product codes in the NAXML Movement Report. This was corrected and now the totals are calculated correctly.
2. There were inconsistencies in the NAXML Payment Systems Product Code Report for transactions with line item discounts and different number of special product codes (tax, split tender, etc.). This was corrected.
3. The Full Station Data NAXML report displayed equal values for the Station Net Grand Total and Station Grand Total even though transactions in that period had loyalty line item discounts and loyalty ticket level discounts. This was corrected and now Station Grand Total and Station Net Grand Total will differ by the total discount amount.
4. On the Payment Systems Product Code Report, when a manual discount was applied on all items in the menu order item, the product total for the first item part of the order item displayed a gross total and then for the rest, it displayed a net total (a total subtracted by discount amount). Also, the discount product code displayed only the amount equal to the discount applied on the first item of the order item. This was corrected and now the totals will be calculated consistently for all the item lines within the composite item line.

## Sales

1. When the minimum PPU was set as one dollar at the POS and the street price was less than the discounted price, the discount was displayed on the receipt, but the discount was not fully applied due to a rounding issue. This was corrected and now the full discount is applied.
2. When a tip was applied to a transaction and there was a network payment failure, the tip was not removed. This was corrected and now the tip is removed.
3. When charity was selected and added to a Fleet Card transaction, the message “Invalid Products” was displayed on the POS screen. The cashier had to void the transaction and begin a new transaction. If charity was added to a Fleet Card transaction and the cashier selected the line item and chose the “VOID LINE” option, the system did not perform the intended operation and the line item was not marked as voided. This was corrected and now the charity item line can be voided by the cashier and sent to the network host for approval.
4. “Age restricted” menu key items were not allowing the quantity to be greater than ‘1’ during the first scan. This was corrected and now the correct quantity is now allowed.
5. Occasionally, the cashier mistakenly entered a value for the charity amount via the virtual keyboard causing an issue with the charitable donation. This was corrected and now the

cashier can only cancel the charity prompt using the keyboard or the on-screen CANCEL button, ensuring the donation is only entered on the PIN pad.

## FEP Specific Changes

### Chase FEP

#### Resolution

The Chase card table included manual entries for PCI-compliant card types. This was corrected and those entries have been removed.

## Chevron FEP

### Resolutions

1. When a car wash was added to a loyalty transaction, there was an additional carriage return. This was corrected.
2. The “PIN USED” text in the receipt table had incorrect validation. As a result, the text was printed on all receipts where debit cards were used, regardless of whether a PIN was actually entered. The validation was corrected.
3. Cashback prompt was not displayed for both Discover Credit and Debit cards while performing a Prepay only Fuel or Prepay Fuel with Merchandise transactions when the switch panel settings were configured to prompt cashback. This was corrected and now the cashback prompt is displayed.

## HPS FEP

### Resolutions

1. Terminal Transaction Qualifiers (TTQ) values for VISA and Union Pay were incorrect in the Application Identifier (AID) table. These were corrected.
2. Voyager EMV and MSR reversals were not being sent to the host. This was corrected and now Voyager reversals are sent.

## NBS FEP

### Resolution

The “PIN USED” text in the receipt table had incorrect validation. As a result, the text was printed on all receipts where debit cards were used, regardless of whether a PIN was actually entered. The validation was corrected.

## Phillips 66 FEP

### Resolutions

1. Terminal Transaction Qualifiers (TTQ) values for VISA and Union Pay were incorrect in the Application Identifier (AID) table. These were corrected.
2. Voyager EMV and MSR reversals were not being sent to the host. This was corrected and now Voyager reversals are sent.
3. “Account Type” and “Network Name” fields were blank on the Visa and Mastercard Fallback receipts. This was corrected and now the “Account Type” and “Network Name” fields are populated.
4. The last two digits in the Verifone Commander Software release version were getting cut off in the Phillips 66 Salesforce Reporting. This was corrected and they are no longer cut off.
5. The Phillips 66 Configuration was not being retained after an Auto Upgrade if the site was on Verifone Commander 55.02.00, 55.02.01, 55.02.02, 55.02.03 and 56.00.00 versions. This was corrected and now the configuration is retained.
6. Credit and Debit refunds were failing due to high STAN numbers created by the EPS. This was corrected.

## Rapid Connect FEP

### Enhancement

#### Fiserv PTPE Cloud BIN Service (CBS)

The Verifone Commander now supports the Fiserv Cloud BIN Service (CBS). The Cloud BIN Service is also known BIN Exclusion. It does not encrypt certain BIN ranges that are not required to be processed by Fiserv. They have introduced a new cloud BIN management service in their commerce hub that can manage BIN exclusions without updating any configuration files. The Cloud BIN Service objective is to implement a P2PE (Point-to-Point Encryption) methodology where the BIN exclusion is centralized in the cloud, reducing the need for implementation on individual devices at each site. This approach enhances efficiency and ensures consistent, scalable management of BIN exclusions across the entire network.

### Resolutions

1. Visa Fleet prompt entries, such as Vehicle Number and Driver ID, were not printing on the preauthorization merchant receipt. This was corrected and now are printing on the merchant receipt.
2. When an electronic void transaction was initiated for an approved manual fuel transaction, Comdata cards with BIN range 560017 were getting declined locally. The decline was due to a parameter reversal allowed in Buypass Parameters set to false. This value came from the PDL. This was corrected by adding a null check.
3. EBT was not added to the dual-use indicator, so the EBT prompt was not displayed on the PIN pad. The transaction was declined as "CARD NOT ALLOWED." This was corrected. EBT was added to the dual-use indicator. The PIN pad will now prompt for Credit, Debit and EBT. The customer will select EBT and then the transaction will process as EBT.

## Test FEP

### Enhancement

#### Contactless Payment

Contactless payment for inside and outside transactions was enabled in the Verifone Test FEP distribution.

## VAPS FEP

### Resolutions

1. Terminal Transaction Qualifiers (TTQ) values for VISA and Union Pay were incorrect in the Application Identifier (AID) table. These were corrected.
2. When refunding a Visa Fleet transaction, the POS was displaying “Invalid Reference Number” even though the correct reference number was entered at the prompt. This was corrected.

## What's New In Release Version: 56.01.00

### NEW FEATURES AND ENHANCEMENTS

#### Verifone Configuration Client

##### Brand Updates

The Verifone Configuration Client was updated with the new Verifone brand updates.

#### Verifone Self Checkout

##### Keypad

The Self Checkout (Customer Mode) keypad will now match the PIN pad keypad layout.

##### Print Inactivity Ticket

The “Print Inactivity Ticket” parameter was added to a new section called “Inactivity Parameters” under Verifone Configuration Client > Self Checkout Global Configuration. This new parameter enabled by default will print a receipt if the customer abandons the transaction before the payment.

##### Print Pay At Counter Ticket

The “Print Pay At Counter Ticket” parameter was added to enable or disable the suspend print function for Pay at Counter on the Verifone Self Checkout functionality. It is located at Sales Parameters > Self Checkout > Global Configuration. After Pay at Counter is selected, a momentary message notifies the customer that their transaction was suspended.

##### Void Line

On Verifone Self Checkout Monitoring, the cashier can perform a Void Line to correct a transaction when a customer accidentally scans an item more than once or decides they do not want an item. The cashier can perform this action on Verifone Self Checkout without having to leave their POS workstation.

#### Dispensers

##### Forecourt Log Messages

The following changes were made to the Forecourt Log Messages:

- Clarifications were added to the information in fuel price log messages
- Corrections to the EMV Transaction Time log message for both Gilbarco and Wayne contactless transactions
- Corrections to the method names for a few Gilbarco driver log messages

## Dispenser Card Readers

### Long Text Prompting

Support for long text prompting for outdoor optional loyalty reward messages has been implemented.

## Loyalty

### Cancel Key

A cancel key was added to the loyalty prompt flow for the cashier to abort the PIN pad prompting if the customer leaves without responding.

## Mobile Payment

### Single Credit MOP

Single Credit MOP implementation was enhanced to include support for additional QR code types (beyond 204 or 205) for Mobile payment.

## POS System

### Verifone Commander Software Management Suite (SMS)

The Verifone Commander Software Management Suite (SMS) 3.00.14 and Import/Export Utility version 3.00.09 will be included in the Verifone Commander 56.01.00 software release.

### Age Verification

When a site disables the age verification service, the Verifone Commander will not attempt to contact the service. It will retain the store and forward transactions until service is enabled or deleted. When service is enabled, it will check for connectivity and then send the store and forward transactions, as well as get a list of trusted issuers.

### Auto Upgrade Backup and Restore

The POP Configuration has been added to the Auto Upgrade Backup and Restore functionality.

### Cash Recyclers

Cashiers and managers now have access to Crane's cash recyclers management system in order to perform one or more of the following functions:

- Understand how to clear a jam
- See current cash/coin inventory
- Perform settlement/audit
- Dispense or fill cash/coin inventory
- Review errors or other information

This access will be available through a browser on the POS and/or Self-Checkout to avoid needing to connect another device.

### Plug-and-Play Functionality

Plug-and-Play functionality has been added for USB-connected devices such as the Zebra Scanner and Verifone Self Checkout Light Pole. With this feature, supported devices will work without requiring a reboot when disconnected and reconnected, ensuring no disruption to business operations.

### POS Pairing

Improvements were made to the POS Pairing Logging.

### System Optimization

By optimizing certain aspects of memory usage, improvements were made to the Verifone Commander performance.

### Tunnel IP

The Tunnel IP will now be included in the Verifone Commander site asset data sent to the Verifone C-Site Management.

## Sales

### Tipping

The Verifone Commander now provides flexible tipping options for sites that sell prepared items. The tipping prompt will be displayed on the PIN pad. There will be configurable preset amounts or percentages for customer selection. The “Prompt for Tip” will be enabled in the department and will apply to all PLUs within that department. Customers will have the option to enter a custom amount. The prompt is customizable.

## VISTA

### Car Wash Code

In previous releases, the Verifone Commander generated a car wash code for a Vista device even though the device generated the code without the Verifone Commander. When the Vista device is able to generate its own code, the Verifone Commander will not generate an additional code, as long the device sends the code to Verifone Commander.

### PLU Not Found

PLU Not Found functionality is now supported on Vista devices. For example, if a customer scans an item that was not added to the price book, the Vista self-checkout device in cashier mode will be able to perform a “PLU Not Found” sale.

## Select All

The “Select All” functionality for departments has been added in Vista Devices > Groups. When clicking “Select All” for the Enable Departments settings in Vista Devices > Group, it selects both the check box for sticky label and departments.

# RESOLUTIONS

## Verifone C-Site Management

1. There were several issues involving special characters displaying incorrectly across many different configurations including the Loyalty and Mobile Configurations. These were corrected.
2. When a user deleted a department from the Fee Tab list box, instead of clearing the selection or displaying a blank entry, it defaulted to selecting the zero index element, which was not the desired behavior. This was corrected and now the list box displays a blank entry when an item is deleted.
3. For Brand transitions, Loyalty Configurations were not received in the Cloud from the Verifone Commander after onboarding for the first time. This was corrected and now the Loyalty Configurations are received.
4. The C-Site Management Menu Configuration was updated with a new PLU structure. This will also support the older PLU structure to be backwards compatible.
5. A large amount of sites had their Mobile Configuration erased simultaneously without a C-Site Management push. An exception occurred because two threads were picking up the same configuration message simultaneously. Both threads attempted to write to the same file leading to conflicts. This was corrected and now only one thread will write to the file at a time avoiding conflicts.
6. Error 503 was displayed in the logs when uploading images from the Verifone Commander to the Verifone C-Site Management. This was corrected.
7. If an onboarded Verifone Commander with configurations was on Verifone C-Site Management and then it was deleted and assigned a new Service ID, the configurations were not sent to Verifone C-Site Management after onboarding again. This was corrected and now the configurations will be sent.

## Verifone Configuration Client

After performing an Auto Upgrade, duplicate items were displayed in the panel configurations within Verifone Configuration Client. This was corrected.

## Verifone Self Checkout

1. On Verifone Self Checkout Monitoring, the payment failure symbol was displayed on the monitoring button at the same time the Charity prompt was displayed on the PIN pad. This was corrected and the payment failure will not be displayed.
2. On Device Monitoring, the MQTT button color was incorrect when canceling the order menu which had the ID Check as a sub-item. This was corrected and now the MQTT button will display as green when canceling the order.
3. After an Auto Upgrade and if the Verifone C18 was in POS Portrait Mode and then the cashier tried to switch the mode from POS to Self Checkout, the “Sorry, no application is currently supported.” message displayed. This was corrected and now the Verifone C18 can be switched from POS to Self Checkout mode after an Auto Upgrade.
4. On Verifone Self Checkout, the POS was locking up on a prepay transaction on the commercial fuel dispenser after enabling the “Allow Multiple Products” option in the Fuel Configuration. The cashier was unable to void the transaction. The POS had to be rebooted before exiting the ticket. Since the multi-select is not supported on Verifone Self Checkout User Interface, the transaction flow will now skip the multi-grade prompt on Verifone Self Checkout for prepays.
5. Verifone Self Checkout became unresponsive after inactivity time on the Activation/Recharge screen. This was corrected and the Activation/Recharge screen will now be dismissed, and the Verifone Self Checkout will return to the welcome screen.
6. The Screen Configuration on Verifone Self Checkout was not retained after an Auto Upgrade. This was corrected and now all Verifone Self Checkout configurations will be restored after a backup and restore with the Verifone Petro Suite Installer (PSI).
7. On Verifone Self Checkout, the receipt was printed even though the customer selected ‘No’ to print receipt. This was corrected.
8. On Verifone Self Checkout, the inactivity timer was displayed one minute after selecting Checkout and MOP. This was corrected and the inactivity timer displays after five minutes.
9. Receipt was not printing if “Done” was not selected during Suspend and Pay at Counter. This was corrected and the now the receipt prints.

## Dispensers

The fuel driver was not displaying the discounted the cash and credit prices for Bennett direct interface for single price windows. This was corrected to display the cash or credit prices.

## Dispenser Card Readers

1. Transaction was not completely terminated for a payment failure after loyalty scenario. It was occurring when a payment card was inserted while payment prompt after loyalty was displayed. The customer was prompted to remove card that gave the impression the payment had completed normally. If customer lifted the handle and cashier authorized a postpay, customer would likely to fuel and not follow prompt to pay inside since the card was

already presented to the DCR. This was corrected and the transaction will terminate if a payment failure occurs after loyalty.

2. When a second cashier approved the same dispenser from a different POS terminal within roughly five seconds of the first approval, the first approval armed the pump and the second caused an error that removed the receipt number. This caused a sale from the second approval to come due inside. This was corrected and now the receipt number is retained if an error occurs during the approval of a calling pump. This will prevent the sale from coming due inside in cases where pump is armed and an error occurs.
3. The Verifone Commander was sending blank prompts to Wayne DCRs for loyalty transactions, it displayed “WPF,999” on Anthems and blank displays for more than five seconds on Ovations. This was corrected and now the loyalty transaction completes as normal.
4. WEX cards include alphanumeric prompts even when the expected response is numeric only. The system was rejecting alphanumeric prompts when the DCR keypad was not configured as alphanumeric. This was preventing certain WEX cards from being approved. This was corrected and now the format error generated for alphanumeric prompts sent to DCR with a numeric keypad will be bypassed.
5. On Wayne DCRs, “WPF:999” displayed followed by a blank prompt just before the Loyalty Optional prompt. This was corrected and the “WPF;999” message is no longer displayed.
6. Legacy JCB cards were supported for contactless payment on Wayne DCRS. This was corrected and they are no longer supported.
7. The Forecourt Controller (FCC) list of 9F33 terminal capability values did not include 6058C8 for disabling the offline plain text PIN CVM. This configuration is supported by Gilbarco Veeder-Root starting with M7 firmware version 04/05.13.13. This was corrected by adding 6058C8 to the FCC list of supported 9F33 terminal capability values for Gilbarco Veeder-Root DCRs. It allows the disabling of the offline plain text PIN CVM with M7 firmware versions of 04/05.13.13 or higher.
8. On Wayne Anthem DCRs, the prompt “WPF:999: displayed immediately before “Transaction canceled” due to a card being declined. This was corrected and now the DCR displays “Authorizing”, “Transaction canceled”, and then “Declined.”

## EPS System

1. The EPS was not handling the terminal batch close as expected. This was corrected and improvements have been made to the terminal batch close process.
2. Fuelman cards were not prompting for Driver ID or Odometer. This was corrected.
3. After performing an EMV transaction, the EMV transaction data was not displayed in the EMV Transaction Report. This was corrected.
4. When an EMV EBT ECL fallback card was swiped, the PIN pad displayed the “INSERT OR TAP CARD” prompt. If the card was inserted, it displayed “Unsupported Card Try again”, followed by “Remove Card”. It was repeated three times and then it proceeded to the correct prompts and processes the transaction. This was corrected and if the card is inserted, it proceeds to the please swipe card prompt and the processes the transaction.

## FoodService

Future mobile food order report was printing raw HTML instead of the correct report. This was corrected.

## Loyalty

1. After the initial loyalty prompting, a loyalty failure and then the customer continued to payment with a failed hybrid card, the terminal repeated the loyalty prompting again. This was corrected and the transaction will continue as expected without repeating the loyalty prompting.
2. When a multiple loyalty transaction was performed and if the first loyalty program host responded with a “Rewards Not Available” message, then the POS would display the same message for the second loyalty program. This was corrected and the message will only display if it is in the second host response.
3. The ampersand symbol (&) was not displayed between loyalty program names on the indoor PIN pads. This was corrected and now it displays.
4. The Loyalty element was being created with the FEP name as the program name for hybrid cards and it was causing an “E33 Error” during a loyalty transaction. This was corrected and now the Card Type Label will be used to create the loyalty element for hybrid cards.
5. When send reward prompt to the cashier was enabled in a loyalty transaction, the “Use Loyalty Options” screen displayed the program name as “true” on the PIN pad instead of the configured program name. This was corrected and the configured program name will display on the PIN pad.
6. When the “Display PINpad Prompts To Cashier” parameter was enabled, the “&” symbol displayed on the POS as “& amp” within the loyalty program name. It was correctly displayed on the PIN pad. This was corrected and now it displays as “&” on the POS.

## Mobile Payment

1. The receipt printed for a mobile ASA transaction did not contain “Merchant Copy” and “Acct/ Card #” label. This was corrected and now the labels will print.
2. The EPS was blocking mobile receipt text from printing on all receipts that were not completions. This was corrected and now the EPS no longer blocks receipt texts, but the POS does not send receipt text on prepay receipts.

## POS System

1. After an Auto Upgrade completed, the Restore Stage 1 displayed errors and the site was unable to initialize fuel and perform fuel transactions. This was corrected and now the Auto Upgrade will complete successfully without errors and perform fuel transactions.
2. The USB Scanner ID and Model Configuration were not retained after an Auto Upgrade. This was corrected and now they will be retained.
3. When using the DataLogic Gryphon GD4500 Series scanner for an ID Check, it was always returning the date of birth as January 2, 2001. This was corrected.

4. When a user chose not to restore backup data after a PSI installation, the confirmation prompt displayed the message “! The backup data will be deleted. Are you sure?”. This was corrected and now the exclamation mark before the sentence is displayed as an icon inside of a yellow circle.
5. After one year of either upgrading or installing the Verifone Commander software, the POS displayed the “SEC Alert Pairing Invalid: To avoid data loss, immediately go to the Maintenance Menu and select Perform POS Pairing” message. This was corrected and now the automatic pairing renewal process will be performed as expected.
6. When performing an Auto Upgrade from Release 55.xx.xx to 56.xx.xx, booting to Diagnostic Kernel (DK) failed after a successful Auto Upgrade on the Verifone Commander side. The POS DK worked fine. This resulted in the Verifone Commander was unable to downgrade to lower bases. This was corrected and now booting into the DK is successful.

## Reports

1. The “All DCRs” section of the Department By Register, Category By Register and Tax By Register reports contained the totals from only one department in spite of having purchased products from two separate departments. This was corrected and now the “All DCRs” section displays two departments.
2. The indoor and outdoor mobile transactions were displayed incorrectly in the Report Navigator End Of Day Report. Also, the food stamp transaction count and amount were displayed incorrectly in the Report Navigator End Of Day Report.

## Sales

When a site sold an age-restricted item on a prepay fuel sale and there was an underrun, the POS prompted to check the ID again when giving the change back for the underrun transaction. This was corrected and the ID will not be prompted again.

## VISTA

VISTA was not allowing loyalty rewards when using a partner self checkout. This was corrected and now loyalty rewards can be used.

## FEP Specific Changes

### Chevron FEP

#### Enhancement

##### EMS Batch Report

Additional sales transaction information such as Product Code, Price Per Gallon, Odometer, Driver ID, etc., were added to the EMS Batch Report for Reconciliation on Verifone Commander.

#### Resolutions

1. When multiple loyalty programs were configured and used during a transaction, the terminal prompted to “Insert or Swipe the Payment Card” instead of “Insert or Tap Payment card.” This was corrected.
2. When the customer entered an invalid loyalty ID, the POS allowed them to retry three times. This was corrected and now the POS will only allow two retry attempts.
3. The POS was displaying “Card has two fuel product” message and then declining the sale when using some cards. It was caused by the system checking for 900 series product codes and passing them as fuel. It incremented the fuel purchased count that went beyond the fuel limit allowed by Chevron. This was corrected and now the system will use NACS product codes to filter out 900 series product codes.
4. During an Automatic End of Day, there was a multiple thread access that was causing the batch not to close. The End of Day Report closed as expected without the batch totals. This was corrected.

## HPS FEP

### Enhancement

#### Brand Selection

ARCO/Tesoro was removed from the Brand selection in the HPS distribution when using the Verifone Petro Suite Installer and Verifone Configuration Client.

#### Gilbarco Kernel Version

A Verifone Commander property file did not contain the needed instruction to point to the required Gilbarco M7 3.12 kernel version. This was corrected and the file was edited to contain the required Gilbarco M7 3.12 kernel version needed.

### Resolutions

1. Entry Mode was printed as “Swipe” on the receipt for Fallback transactions instead of “FSwipe.” This was corrected.
2. When a contactless Visa Fleet card was used in a prepay or at the DCR and then canceled successfully with zero dollar receipt, the EPS sent incorrect values to the payment host. This was corrected and the correct values are sent.
3. In a Fallback transaction, the Customer Copy receipt was missing the label “Auth#” in the network body for the Authnet#. Also, in a Fallback transaction, there was an extra space between Auth# and Resp Code for an Indoor Sale in Merchant Copy. These were corrected.
4. A VISA Fleet Mag-Stripe transaction was getting declined with a format error (Response Code - 904) when a Driver ID or ID number prompt was entered. This issue was occurring on indoor and outdoor transactions. This was corrected.

## NBS FEP

### Resolutions

1. When selecting EBT PLU with credit MOP, the PIN pad bypassed payment options and processed the transaction as a debit, resulting in a declined transaction with a “Bad Test Card” error. This was corrected and the PIN pad will prompt for Debit, Credit, and EBT options and approve the transaction.
2. Fallback entries have been added for the EMV WEX, Fuelman, and Voyager cards. An additional card, Maverik Fleet has been added to the card table.

## Phillips 66 FEP

### Enhancements

#### Gilbarco Kernel Version

A Verifone Commander property file did not contain the needed instruction to point to the required Gilbarco M7 3.12 kernel version. This was corrected and the file was edited to contain the required Gilbarco M7 3.12 kernel version needed.

### Resolutions

1. Entry Mode was printed as “Swipe” on the receipt for Fallback transactions instead of “FSwipe.” This was corrected.
2. Two System Trace Audit Numbers (STAN) were printed on PIN Debit receipts. One STAN had the invoice number and the other had the reference number. This was corrected. The STAN that had the Invoice Number was removed, because it already had a separate field on the receipt. Also, the Account type and Network Number were moved one below the other instead of printing it on a single line.
3. WEX Dual AID prompting was not working as expected. This was corrected by adding the custom tables for the Phillips 66 Distribution.

## Rapid Connect FEP

### Enhancements

#### Comdata Commercial Fleet

For merchants that process Comdata commercial fleet transactions, the POS and EPS have been modified to calculate the sale prices such that non-fuel items in the sale include the tax amount in the item price so that the host can process the transaction.

#### Fuelman AID

Fuelman AID(s) will now be enabled or disabled based on the card status in the Card Table PDL.

#### Gilbarco Kernel Version

A Verifone Commander property file did not contain the needed instruction to point to the required Gilbarco M7 3.12 kernel version. This was corrected and the file was edited to contain the required Gilbarco M7 3.12 kernel version needed.

#### US Common Aid

Currently, for Fiserv distributions, US Common AID has a non-zero CVM limit. Cardholders below the limit are not prompted for a PIN, resulting in the transactions being processed as credit without opportunity to process as debit. The CVM limits were updated to \$0 as per requirement.

### Resolutions

1. The Fiserv AID Rules Table for inside and outside was incorrect for Fuelman cards. This was corrected and now the Issuer Identification Number (IIN) must be set to 'NO'.
2. When an offline transaction was performed with an EMV card, it was declining with a "E03 Sale Declined" message. This was corrected and now the transaction will be successful with a local authorization confirmation.
3. The host was returning an unknown tag 'VS' in the host totals response and therefore causing an error. This was corrected by adding checks for newer tags included in the interface to prevent the unknown tag error that was causing the host totals to fail.
4. Expired Discover cards were being approved when the PDL indicated expiration date should be checked for this card type. This was corrected and now they will be declined.
5. Cards were declined when a restricted item, such as charity, was offered at the DCR. The card was immediately declined due to outside charity or donations enabled at the site. The decline happened immediately after inserting the card and before any charity prompt was presented or fuel was dispensed. If charity outside was disabled at the location, the card works as expected. This was corrected and the card with restrictions will process as expected even if the restriction is enabled at the site.
6. Datawire was sending an invalid Accept property due to Java. This was corrected.
7. After upgrading to release 55.02.01, the diesel product (code 20) became restricted. This was corrected by making a change to the product table.

8. The swipe ahead prompt was set to 'three' retries. This was corrected and now the swipe ahead retry is set to 'one'.
9. The Card Type Prompt Code was set to zero for some entries while performing DCT download. This was corrected and Card Type Prompt Code as per RVE106 was added.

## Verifone EPS FEP

### Enhancements

#### Gilbarco Kernel Version

A Verifone Commander property file did not contain the needed instruction to point to the required Gilbarco M7 3.12 kernel version. This was corrected and the file was edited to contain the required Gilbarco M7 3.12 kernel version needed.

## VAPS FEP

### Enhancements

#### Gilbarco Kernel Version

A Verifone Commander property file did not contain the needed instruction to point to the required Gilbarco M7 3.12 kernel version. This was corrected and the file was edited to contain the required Gilbarco M7 3.12 kernel version needed.

#### Marathon Brand

Marathon was removed from the Brand selection in the VAPS distribution when using the Verifone Petro Suite Installer and Verifone Configuration Client.

### Resolutions

1. Entry Mode was printed as “Swipe” on the receipt for Fallback transactions instead of “FSwipe.” This was corrected.
2. The network body of the receipt printed twice for Visa Fleet 2.0 sales transactions. This was corrected and now it only prints one time.

## What's New In Release Version: 56.00.00

### NEW FEATURES AND ENHANCEMENTS

#### Verifone OS Update

The Common OS for the Verifone Commander and POS Workstations was upgraded to 6.02.00 version.

#### Verifone C-Site Management

##### Menu Configuration

The Menu Configuration is now sent from the Verifone Commander to the Verifone C-Site Management.

##### T-Log Purge

If the Verifone Commander is disconnected for more than 32 days, the T-Logs will begin to purge from Verifone C-Site Management. After the connection is restored, the deleted data will not be sent to Verifone C-Site Management.

##### Touchscreen Configuration

The user experience was enhanced when using the Touchscreen Configuration. One enhancement is the use of Dragging and Dropping items on the Touchscreen.

#### Verifone Self Checkout

##### Decimal Places

Improvements have been made to the handling of decimal places to be more consistent on the Verifone C18.

##### Hot Items renamed to Popular Items

On Verifone Self Checkout, "Hot Items" was renamed to "Popular Items" in Category Configuration. The number of "Popular Items" displayed on the home screen was increased to 16 items. The Look up function was moved to the top right-hand corner of the receipt widget. Fuel Prepay will display on the first home page button when enabled.

##### Look Up Button

The Look Up button was updated to follow the Pay at Counter button that appears on the checkout screen. When the Pay at Counter screen updates, the text will display white or black so that it is in contrast with the background color that displays. Additionally, the Check Out button was also updated to follow the same appearance as the Look Up button and the Pay at Counter button.

## Void Ticket

The remote cashier action “Void Ticket” has been implemented into Verifone Self Checkout Monitoring Detailed View. A cashier logged into a POS that has the appropriate security can see this option available between the time an item is added to the Verifone Self Checkout basket up until the customer is ready to checkout and pay. If the cashier voids the ticket, the Verifone Self Checkout will void the transaction and return to the Welcome screen. The detail view on the POS will return to idle.

## Dispenser Card Readers

### Serial DCR Support Removed

Serial DCR support has been removed as Verifone Commander mandates DCRs be configured using Ethernet for EMV implementation. This will affect Verifone Commander Configuration Client and the Backoffice SMS import and export utility. The DCR manufacturers impacted are Gilbarco, Wayne, Tokheim and Bennett. Invenco has always been over Ethernet. Our Latin America Customers (LAC) using the serial DCR interface will switch to IP.

### Manual Loyalty ID Modification

The Manual Loyalty ID soft key (or Cancel key press) behavior has been modified to behave similarly to the Reward soft key on the DCR. The customer can select “Pay Inside” after loyalty if post-pay is allowed.

## EPS System

### VIPER (EPS) Diagnostic page

The VIPER (EPS) Diagnostic page will now display memory available instead of memory free.

### FID (Field Identifier) table

The values in the FID (Field Identifier) table will now be retained after an auto upgrade. These values are the location, location address, location city, location state, and location ZIP code.

## Loyalty

### Invalid Loyalty IDs

The following has been implemented when handling invalid loyalty IDs:

- Hybrid Card - No retries will be allowed for an invalid ID from a Hybrid card.
- Regular Loyalty Card - No retries will be allowed for an invalid ID from a regular loyalty card.
- Manual Loyalty - Allow the customer up to three retries to enter the loyalty ID if entered incorrectly.

## Multiple Loyalty Programs

The following enhancements have been made when the customer uses more than one loyalty in a transaction:

- The POS will now display the respective PCAT Loyalty Program Name or Program ID while processing the PCAT loyalty on indoor and outdoor terminal.
- Reward confirmation prompting before moving to the next loyalty program.
- Process the one loyalty program at a time rather than asking to enter all the loyalty information and then ask to burn the rewards one after other.
- The “Swipe” prompt was updated to “Use Loyalty Options” on the loyalty screen.
- The loyalty transaction flow will be the same for all MOPs.

## POS System

### 2D Bar Code Support

Scanners can now successfully scan 2D bar codes in the form of a GS1 QR Code, GS1 Data Matrix, and GS1 Digital URI Link. After scanning the bar codes of the products, the POS is able to display the products along with simultaneously storing the additional information that is packed in the 2D bar codes regarding the products.

### End-Of-Life (EOL) Legacy Devices

<b>NOTE</b> 	<p>Topaz XL 410, Ruby2, RubyCi and Ruby2 iOrder will continue to be supported in the Latin America Verifone EPS distribution.</p>
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Petro Suite Installer and Auto Upgrade will no longer install software on End-Of-Life (EOL) Legacy Devices (Topaz XL 410, Ruby2, RubyCi and Ruby2 iOrder). See the VASC Bulletin 1123\_001 for more details on End-Of-Life (EOL) Legacy Devices.

### New Escape Character for RsysLog

RsysLog (Rocket-fast SYSTEM for LOG processing) has changed the escape character. With this change, all remote log servers that parse logging events submitted by the Verifone Commander or POS systems must now account for the new escape character. Originally, the escape character was the backslash (“\”) and now it has been replaced with the **hash (#)** character. Here is an example:

- Before — message string \012New line
- **New — message string #012New line**

### VISTA Enhancements

1. Vista has been enhanced to remove the fuel grade prompt requirement for prepaids.
2. The VISTA Refresh Configuration has been enhanced to send additional details about Departments and PLUs.

## Reports

### Close Day Messages

The following messages are now included in the Close Day if the condition is present:

- AEOD failure reason message
- AEOD successful message
- Close period host unavailable message
- Close period successful message

## Sales

### Line Item Tax Exempt and Quantity

Sales Functions Security settings have been added for Line Item Tax Exempt and Quantity input functions to limit access.

## RESOLUTIONS

### Verifone Configuration Client

1. When accessing the Verifone Commander Configuration Client > Self Checkout > Category Configuration screen from the C18 or Topaz POS, it was not allowing the user to look up a PLU when adding an item. There was no keyboard overlay to enter PLU number and the user was unable to close the Category Configuration screen. Also, in another instance, the PLU Look Up screen was not closing in Verifone Commander Configuration Client. These were corrected.
2. When the time-out overlay displayed prompting to continue or cancel the session while in Configuration Client on the POS and “I’m here, continue” was selected, the POS displayed a keyboard information message. This was corrected and now the continue prompt overlay is dismissed without the keyboard message displaying.

### Verifone C-Site Management

1. Intermittently, a “JAXB Object error” message displayed when updating the Mobile Configuration from C-Site Management to the Verifone Commander. This was corrected.
2. When there were four or more hosts configured in Mobile Configuration and one was disabled in Verifone Configuration Client, it was not updated in C-Site Management. This was corrected.
3. When a loyalty program with cards was added first in C-Site Management and then another second loyalty program with cards was added in Verifone Commander Configuration Client, the second one was not being sent to C-Site Management. This was corrected.

## Verifone Self Checkout

1. On Verifone Self Checkout, when age restricted items were present in the transaction and checkout was pressed, an age restricted prompt displayed. The prompt was not being dismissed after the cashier logged in using a bar code. This was corrected and now it will dismiss.
2. When the numeric keypad was used and then dragged and dropped into a new screen location in Portrait Mode, it became unusable when the orientation was switched to Landscape Mode. This was corrected.
3. In Verifone C18 Self Checkout Portrait Mode, the cashier options icon was hidden when trying to log in with the cashier bar code on the payment screen and/or other overlay screens. This was corrected and the cashier's options are now visible in both Portrait and Landscape.
4. On Verifone Self Checkout, when a main item was added from the expanded order menu and then a sub-item with ID Check was added and age was verified, the user was unable to edit the food order. This was corrected and now the user can edit the order.
5. On Verifone Self Checkout, an age verification item was allowed to be suspended when it was added as a sub-item in a food order menu. This was corrected and it will not be allowed to be suspended.
6. The Verifone Self Checkout was limiting the entry for the Alt Loyalty prompt to 12-digits. This was corrected and increased to 14-digits.
7. The following occurred when using Device Monitoring for Verifone Self Checkout. When there was a prepay including a quantity item and Error Correct was performed, the prepay did not clear from the Detail View. When the next transaction was initiated on Verifone Self Checkout, the Device Monitoring button cart quantity was negative and detail view was not updated with respective items until transaction was completed. This was corrected.
8. When purchasing a car wash code on Verifone Self Checkout, it prompted the customer if they wanted to print a receipt. This was corrected and now it will print automatically since the car wash code is printed on the receipt.
9. Prepay fuel icon remained on the Verifone Self Checkout screen after being disabled in System Properties. This was corrected.
10. When a TruAge QR Code was scanned on Verifone Self Checkout, it locked up. This was corrected and now the transaction will complete.

## Dispensers

The Price Sign Controller (PSC) was going offline during a price initialization. Multiple retries of price changes were being done automatically which eventually allowed prices to be updated. This was corrected and now the PSC will not go offline during a price initialization.

## Dispenser Card Readers

1. DCR locked up when the prompt to remove the card displayed and a DCR initialization was sent at the same time.
2. When a transaction level discount was applied for a purchase, the discount was displayed, but there was an extra “Rewards 0.00” on the DCR receipt. This was corrected and now only the actual rewards amount will display on the DCR receipt.
3. After upgrading to Verifone Commander 55.02 release and then performing an EMV outdoor transaction, the Start ICC (Integrated Circuit Card) Transaction timed out resulting in a transaction failure. This was an intermittent issue that could be resolved by initializing the DCR and hard rebooting the Verifone Commander. However, the issue reappeared after performing a few transactions. This was corrected.
4. When the customer selected ‘Yes’ or ‘No’ at the DCR “Scan Loyalty ID” prompt, nothing happened unless the customer went ahead and presented the bar code, and then the transaction proceeded. This was corrected.

## EPS System

1. When there was a fuel prepay with loyalty alternate ID in a Verifone Commander E configuration and then paid with a VISA card, the PIN pad was stuck on “Processing Please Wait” message and the POS workstation displayed the “EPS Not Responding” message. This was corrected.
2. PIN pad was displaying “INSERT OR OR SWIPE PAYMENT CARD” instead of “Insert Tap or Swipe the payment card” after selecting ‘Yes’ and swiping loyalty card. Loyalty and Auth on Total were enabled. This was corrected.
3. When the customer selected the Cancel button at the cashback prompt for a Debit EMV card transaction, transaction was declined. This was corrected and now the transaction will be approved.
4. Mastercard refund transactions were failing. The card was returning an ACC response with decline. This was corrected.
5. “Tap Card” was missing in the “Insert or Swipe Payment” prompt displayed on the DCR screen when a loyalty card was swiped first. This was corrected and now “Tap Card” will be displayed.
6. Fuelman, Fleetone and Fleetwide fleet card transactions were approved for Lottery PLU. This was corrected and now they will decline for lottery purchases.
7. When the Enter key was pressed for Vehicle ID without entering a value, the fleet card receipt printed “null” for “Veh #.” This was corrected and now nothing will print if value is not entered.

## Loyalty

1. The “Scan The Loyalty Token” message was not displaying on the PIN pad after selecting the bar code option for the second loyalty prompt. This was corrected and now the message will display.
2. After selecting ‘NO’ to the loyalty Prompt on the Verifone C18 Self Checkout, it displayed again on the PIN pad. This was corrected and the loyalty prompt will not display again on the PIN pad.
3. In a loyalty transaction, there was a second Get Rewards Request that should have been transmitted with two loyalty IDs, but only contained one. This was corrected.
4. When a customer used a loyalty card to purchase fuel at a site with multiple loyalty programs configured, they received a discount message and the discount on purchase, however in some cases the transaction was never sent to the loyalty host resulting in a shortage on loyalty sales. This was corrected and now the system will ensure that the transaction completion will be sent to the valid loyalty host in all cases.
5. The dispenser was rolling back the price even though the customer selected ‘No’ at the loyalty prompt in a multiple prepay fuel rewards transaction. This was corrected and now multiple prepay fuel rewards handling will validate and apply each rewards individually.
6. When the “Send Rewards Prompt to Cashier” was enabled, the prompt to wait was not being displayed on the MX 915 PIN pad. The PIN pad had a blank screen. This was corrected and now the PIN pad displays “Waiting for Cashier”.
7. The “Use Loyalty Options” header was missing from the top of the PIN pad screen for the second loyalty program when four loyalty programs were configured. The header was also missing if the bar code was enabled and the transaction was on an MX 800 Series PIN pad. These were corrected.
8. The POS screen was stuck at sending “Loyalty Authorization Request” when an invalid loyalty ID was entered at the DCR and cash MOP was used for “Pay Inside.”
9. Site was receiving “PCATS ISO FORMAT ERROR” on an inside loyalty discount immediately pressing Total. This was caused when the loyalty receipt text provided by LFEP as description text (either short or long) was used as a label and it was blank. This was corrected and now the system check to see if the value is blank.

## Mobile

When there was a POP Discount for fuel in a mobile transaction using a proprietary card, only a portion of the discount was applied locally. This was corrected.

## POS System

1. In POS Detail View, when any full screen overlay was opened on top of the detail view and then the Help button was pressed, the Help screen was hidden behind the overlay. This was corrected and now the Help screen will display on top of the full screen overlay.
2. When the Verifone Commander was offline, an item was voided because customer did not meet age requirement, and then the connection was restored, the Store and Forward (SAF)

sent the voided item as zero quantity to TruAge host. This was corrected and now the system will not send the product quantity as zero to TruAge host.

3. After the completion of Auto Upgrade, the Verifone Commander instructed the Topaz 410 to display Upgrade Completed message with an OK button, but after pressing the button, it became unresponsive. This was corrected.
4. When the sales minimum amount was set to zero value and then pressing Total > Price Override after adding the last item, the price of last item in the transaction was immediately set to zero value and there was no "Price Override" prompt for cashier input. This was corrected and now it will prompt the cashier for price override input.
5. USB Scanner ID and Model Configuration were not retained after auto upgrade. This was corrected.

## Reports

1. Taxes were not displaying in the Tax Reports when the tax name size was more than 10 character and included a special character. This was corrected and the tax name will be truncated in the report if it has more than 10 characters.
2. A PLU Promo was double reporting the amount of the reduction on the item price. This was corrected.
3. Current period reports are displaying an incorrect business date, but after the report is closed, it has the correct open and close date. This was corrected and now the current period report will display the correct date.

## FEP Specific Changes

### Chevron FEP

#### Enhancements

##### Fleet Card Certification and Support

<p><b>NOTE</b></p> 	<p>Fleet cards are currently certified for M400, P400, Gilbarco and Wayne devices (See the DCR firmware section for minimum versions). These release notes will be updated when Invenco, GPA and Bennett have been certified.</p> <p>The parameter <b>Prompt Restriction Outside</b> must be enabled to support Visa Fleet 2.0/Wex Fleet Host Based Product Restriction for specific fuel grades. It must be enabled at Forecourt &gt; Fuel Configuration &gt; Site Parameters tab.</p>
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Card support has been added to the Chevron distribution for EMV WEX Fleet 4.1, EMV Visa Fleet 2.0, additional prompts, and host-based product restrictions.

##### Lottery Purchase

A Lottery purchase is now allowed for all Credit cards and WEX cards. Lottery purchase is restricted for all other fleet cards including Visa Fleet and Mastercard Fleet. In Verifone Configuration Client > Payment Management, there is an additional field with a check box called “Allow Lottery Purchase.” It is disabled by default.

#### Resolutions

The loyalty prompt after payment on the Gilbarco FlexPay 2 and 4 DCR was attempting to add the word “Reward” after the program name that was resulting in the text being displayed as “CHEVRON AND SAFEWAY REYES/NO” instead of “CHEVRON AND SAFEWAY REWARD YES/NO”. This was corrected.

## NBS FEP

### Enhancement

#### EMV EBT Cards

EMV EBT cards were declining due to the unavailability of EBT Fallback entries in the card table. Support was added process EMV EBT cards as Fallback to mag-stripe.

## Rapid Connect FEP

### Enhancements

#### EMV EBT Cards

EMV EBT cards were declining due to the unavailability of EBT Fallback entries in the card table. Support was added process EMV EBT cards as Fallback to mag-stripe.

#### BP NTP Server IP Address

The default NTP Server IP address was updated to '149.196.96.120' for Brand BP for the Bypass distribution.

### Resolutions

1. A TAVE PIN pad was stuck on "Approved" after a host based restriction. This was corrected.
2. When a Time Out Reversal (TOR) was performed on a postpay with a Host Based Discount (HBD) with any card, the transaction amounts should be the same for both the sale and TOR sales, but the EPS was sending the non-discounted amount in the TOR message. The host responded with a 902 error code. This was corrected and now it will send the discounted amount.
3. Gift Card transactions were displaying the "Invalid Card" message when trying to sell or activate them. This was corrected.
4. Comdata DCR transactions came due inside with a 911 error message. A 911 error is a temporary and intermittent error that occasionally occurs on the host when they get a timeout on their end. This was corrected and now if the host response is a 911 error, the live completion will be moved to Store and Forward.
5. Comdata Mastercard transactions were failing with an "Invalid Product" message. This was corrected.
6. For TransCard and Fuelman cards, the customer was able to fuel and complete the transaction. The system received a "Network Unavailable" response with response code "911" from the host, but the transaction was locally approved. This was corrected.
7. When the merchant was performing a transaction with Express Code and Comchek, the transaction was declined with E16 ISO Format Error. This was corrected.

## Shell FEP

### Resolution

The default DCR idle screen contained a Debit softkey. The Debit softkey was removed.

## Verifone EPS FEP

### Enhancement

#### Maximum Value For Pump Authorization

The Verifone Configuration Client > Payment Controller > EPS Configuration > (FEP) Configuration > FEP Card > Card Limits > Maximum Value For Pump Authorization was changed to allow up to '999999' or 6-digits.

### Resolution

When configuring the printer, Fiscal or Standard, the user was unable to bring it online and the logs and Verifone Configuration Client were displaying errors. This was corrected.

## WorldPay FEP

### Enhancement

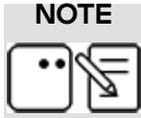
#### EMV EBT Cards

EMV EBT cards were declining due to the unavailability of EBT Fallback entries in the card table. Support was added process EMV EBT cards as Fallback to mag-stripe.

### Resolutions

1. The Electronic Benefits Transfer (EBT) Food Stamps (FS) receipt was not printing a value for the EBT Cashback Balance. This was corrected.
2. When using a card with a PIN in a transaction, the customer receipt was missing the fields “Approved by Issuer” and “Cardholder verified by PIN”. These fields were present in the merchant receipt. This was corrected and now the customer receipt will have these fields.

## Installation Options



**NOTE**

Topaz XL 410, Ruby2, RubyCi and Ruby2 iOrder will continue to be supported in the Latin America Verifone EPS distribution.

### Supported Verifone POS Terminals

- Verifone C18

### Installation Documentation

See the following documents when installing the Verifone Commander.

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

### Customer Provided Documentation

When installing or configuring the Verifone Commander and POS systems, see the customer provided documentation on the Premier Portal at [Manage > Petro Downloads > Commander & RubyCi > Commander Software Suites, Release Notes and Documentation > Customer Documentation](#) areas.

## 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	Yes	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 Release

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

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

## Fuel Hardware Peripherals Supported

Verifone requires use of at least the “Minimum Version” below. Customers must consult with the Dispenser manufacturer to determine optimal version as they may recommend or require a higher version.

### Dispensers Supported

Gilbarco Dispensers		
Dispenser	Description	Minimum 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><b>NOTE</b></p> 	<p>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	Minimum Version
Ovation	iGem	85
iX	iGem	85
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**

**NOTE** For Model V490D1/U (Vista 1V), the version must be 47.

 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.

## Dispenser Interfaces

**NOTE**



The Verifone Commander Forecourt Interface Box communicates directly with Wayne, Tokheim, and Gilbarco dispensers.

Dispenser/Interface	Supported: Yes/No	Minimum Version	Notation
<b>Bennett</b>			
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
<b>Tokheim</b>			
DHC	Yes	v6.17	Supports PPU Discounting
VXDHC	Yes	v4200.03.09	Supports PPU Discounting
<b>Dresser/Wayne</b>			
CPU	No		Uses the Verifone Commander Forecourt Interface
PIB	No		
Fusion	No		
HyperPIB	No		
Arbitration Board	No		
<b>Gilbarco</b>			
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 requires use of at least the “Minimum Version” below. Customers must consult with the Dispenser Card Reader manufacturer to determine optimal version as they may recommend or require a higher version.

### Bennett

Bennett: SSP (Simply Secure Payment)	
EMV Support	
EMV Contact	Certified
EMV Contactless	Certified
Supported Options	Minimum Version
Visa Fleet 2.0 / WEX 4.1 Support	XXXXXX.10.10.11
EMV	XXXXXX.10.10.07
Notes	
<b>NOTE</b>	The "XXXXXX" number is based on hardware revision.
	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.

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

## Bennett (continued)

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

## Dresser/Wayne

**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 Support

EMV Contact				Certified
EMV Contactless				Certified
EMV Status	Firmware	Contactless Reader	Contactless Reader 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
Visa Fleet 2.0 / WEX 4.1 Support	Firmware	Contactless Reader	Contactless Reader Firmware	Contactless Build Revision
NFC Mode > Contactless	3.1.207.430	C150S	26100A02	21122402
NFC Mode > Contactless Disabled	3.1.207.430	C150S	26100A02	21122402

#### Supported Options

#### 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.  
 Cash Acceptors are not supported with EMV.  
 Prior to upgrade to Wayne EMV software, please check the minimum version with Wayne.  
 DSM, Secure CAT, SDES, and Master Session are not supported.

### Dresser/Wayne (continued)

Dresser/Wayne: iX Pay 1, 2.8 Series				
<b>EMV Support</b>				
EMV Contact				Certified
EMV Contactless				Certified
EMV Status	Firmware	Contactless Reader	Contactless Reader 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	21032201
	2.8.105.109	C150S_NP	2610FA02	19020101
Visa Fleet 2.0 / WEX 4.1 Support	Firmware	Contactless Reader	Contactless Reader Firmware	Contactless Build Revision
NFC Mode > Contactless	2.8.205.9	C150	261EA02	21032201
	2.8.205.9	C150S_NP	2610FA02	21110301
NFC Mode > Contactless Disabled	2.8.205.9	C150	261EA02	21032201
	2.8.205.9	C150S_NP	2610FA02	21110301
Supported Options			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				
	<b>NOTE</b> Jade board is recommended for outdoor EMV. Red board can be used if non-media site.			
	Cash Acceptors are not supported with EMV.			
	Prior to upgrade to Wayne EMV software, please check the minimum version with Wayne.			
	DSM, Secure CAT, SDES, and Master Session are not supported.			

## Dresser/Wayne (continued)

Dresser/Wayne: Anthem	
<b>EMV Support</b>	
EMV Contact	Certified
EMV Contactless	Certified
EMV	
Supported Options	Minimum Version
Contact/Contactless EMV	3.1.207.430
ANTX	1.20.4.130
Visa Fleet 2.0 / WEX 4.1 Support	
Supported Options	Minimum Version
Visa Fleet 2.0 / WEX 4.1	3.1.212.1130
ANTX	1.22.5.326
Notes	
<p><b>NOTE</b></p> 	<p>Cash Acceptors, Graphics, TDES, and Master Session are not supported.</p> <p>Prior to upgrade to Wayne EMV software, please check the minimum version with Wayne.</p>

## Dresser/Wayne (continued)

Dresser/Wayne: Anthem (AX12, AX27)	
<b>EMV Support</b>	
EMV Contact	Certified
EMV Contactless	Certified
Debit	
Supported Options	Minimum Version
Contact/Contactless EMV	3.1.207.430
ANTX	1.20.4.130
Visa Fleet 2.0 / WEX 4.1 Support	
Supported Options	Minimum Version
Visa Fleet 2.0 / WEX 4.1	3.1.212.1130
ANTX	1.22.5.326
Notes	
<p><b>NOTE</b></p> 	<p>Cash Acceptors, Graphics, TDES, and Master Session are not supported.</p> <p>Prior to upgrade to Wayne EMV software, please check the minimum version with Wayne.</p>

### Dresser/Wayne (continued)

Dresser/Wayne: iX — Blue Board	
Supported Options	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	
<b>NOTE</b> 	DSM, Secure CAT, SDES, and Master Session are not supported.

Dresser/Wayne: Ovation and Ovation 2 with qCAT	
Supported Options	Minimum Version
Graphics	206.00
Scanner	206.00
Debit	
Non-Debit	206.00
TDES	206.00
Notes	
<b>NOTE</b> 	Cash Acceptors, DSM, Secure CAT, TDES, and Master Session are not supported.

### Dresser/Wayne (continued)

Dresser/Wayne: Vista3V	
Supported Options	Minimum Version
Cash Acceptors	103.00
Graphics	103.00
Scanner	103.00
BCB	5.1
Debit	
Non-Debit	103.00
TDES	103.00
Notes	
<b>NOTE</b>	DSM, Secure CAT, TDES, and Master Session are not supported.

Dresser/Wayne: Dual CAT	
Supported Options	Minimum Version
Cash Acceptors	103.00
Graphics	103.00
Scanner	103.00
BCB	5.1
Debit	
Non-Debit	103.00
TDES	103.00
Notes	
<b>NOTE</b>	DSM, Secure CAT, TDES, and Master Session are not supported.

### Dresser/Wayne (continued)

Dresser/Wayne: Legacy CAT	
Supported Options	Minimum Version
Cash Acceptors	64.00
Graphics	64.00
Scanner	64.00
Secure CAT	2.01
Debit	
Non-Debit (not enhanced)	58.00
TDES	54.00
Notes	
<b>NOTE</b> 	DSM, TDES, and Master Session are not supported.

## Gilbarco

**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.

### Gilbarco: FlexPay IV (M7)

#### EMV Support

EMV Contact	Certified
EMV Contactless	Certified
<b>Supported Options</b>	<b>Minimum Version</b>
EMV (PCI DSS 5.0) Non-Fleet 2.0	52.12.45
EMV (PCI DSS 4.0) Non-Fleet 2.0	42.12.45
Fleet 2.0 Version (PCI DSS 5.0)	FPIVOPT_V05.13.10_US00.07
Fleet 2.0 Version (PCI DSS 4.0)	FPIVOPT_V04.13.10_US00.07
Fleet 2.0 VIPA	6.8.2.32 (For Chevron sites, see note below.)
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

**NOTE**



For Chevron sites, they should use 6.8.2.25-x VIPA. Chevron is not certified for 6.8.2.32. The version to load would be xx.13.10\_US00.05. (xx - being the PCI of the dispenser > PCI 4 being 04 and PCI 5 would be 05. For the version to load, PCI 4.0 would be 42 and PCI 5.0 would be 52.)

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.

Cash Acceptors are not supported with EMV.

GSM, SDES, and Master Session are not supported.

## Gilbarco (continued)

Gilbarco: FlexPay II (M5)	
<b>EMV Support</b>	
EMV Contact	Certified
EMV Contactless	Certified
<b>Supported Options</b>	<b>Minimum Version</b>
EMV	3.6.06
Graphics	30.3.03
Cash Acceptors	30.3.03
Scanner	
<b>Debit</b>	
Non-Debit	30.3.03
TDES	30.3.03
<b>Notes</b>	
<b>NOTE</b> 	Cash Acceptors are not supported with EMV. GSM, SDES, and Master Session are not supported.

Z80 Logic Board	
<b>Supported Options</b>	<b>Minimum Version</b>
<b>Debit</b>	
Non-Debit	50.2.4
<b>Notes</b>	
<b>NOTE</b> 	Cash Acceptors, GSM, Graphics, Scanner, SDES, TDES, and Master Session are not supported.

## Gilbarco (continued)

Encrypting PIN Pad (EPP) with Advanced GSM	
Supported Options	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
Ecilpse	3.1.50
Notes	
<p><b>NOTE</b></p> 	<p>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>Master Session and Cash Acceptors are not supported.</p> <p>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	Minimum Version
Cash Acceptors	60.9.40
GSM	
Graphics: Monochrome	609.40
Graphics: InfoScreen	609.40
Scanner	609.40
Contactless (RFID)	609.40
Debit	
Non-Debit	60.9.40
TDES	60.9.40
Notes	
<p><b>NOTE</b></p> 	<p>InfoScreen graphics are supported only in single-line mode.</p> <p>Version 60.7.30 is NOT supported for any mode.</p> <p>TDES and Master Session are not supported.</p>

## Gilbarco (continued)

Encore 300	
Supported Options	Minimum Version
Cash Acceptors	60.9.40
GSM	
Graphics: Monochrome	609.40
Graphics: InfoScreen	609.40
Scanner	609.40
Contactless (RFID)	609.40
Debit	
Non-Debit	60.9.40
TDES	60.9.40
Notes	
<b>NOTE</b>	InfoScreen graphics are supported only in single-line mode.
	Version 60.7.30 is NOT supported for any mode.
	TDES and Master Session are not supported.

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

## Invenco

**NOTE**



Invenco / GVR DCR products have been rebranded as FlexPay 6. FlexPay 6 is not supported in all applications.

### Invenco by GVR

#### FlexPay 6 Outdoor Payment Terminals

Model Number	Description	Name
G6-300	5" All-In-One	FlexPay 6 A1-05
G7-100	15" Modular	FlexPay 6 M1-15
G6-400	9" All-In-One Next Generation	FlexPay 6 A2-09
G6-500	5" Compact All-In-One	FlexPay 6 A2-05
G6-500 15D	15" Modular Next Generation	FlexPay 6 M2-15

#### EMV Support

EMV Contact	Certified
EMV Contactless	Certified

#### Supported Options

#### Minimum Version

EMV Firmware (Non-Fleet 2.0)	3.2.21
EMV Adapter (Non-Fleet 2.0)	1.06.0159
EMV Firmware (Supports Visa Fleet 2.0 Support)	R3.2.28c
EMV Adapter (Supports Visa Fleet 2.0 Support)	01.08.0132

### Notes

**NOTE**



None.

## Tokheim

Premier B	
Supported Options	Minimum Version
Cash Acceptors	N/A
TED	v300 or v400
Debit	
Non-debit (4-line display)	JP02.18.00
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><b>NOTE</b></p> 	<p>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	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	
<p><b>NOTE</b></p> 	<p>Scanner, TDES, Debit TED (4-line display) Master Session, Debit TDS Plus (4-line display) and Master Session are not supported.</p>

## Verifone and Partner Options Supported

### Backup Power Supply (UPS)

UPS, Conditioned, 250VA

VFI P/N P040-07-050

#### Notes

**NOTE**

One per POS terminal and one for the Verifone Commander.



### 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

Unitec Portal Ti  
(Touchscreen)

Core Version: 3.60  
Sierra Version: 1.63  
Version: 4.30



<p>Unitec C-Start (Cashless)</p> 	<p>Core Version: 3.60 Sierra Version: 1.63 Version: 1.40</p>
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<p>Unitec Sentinel (Dual Bill Dispenser)</p> 	<p>Core Version: 3.60 Sierra Version: 1.63 Version: 1.40</p>
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**Cash Drawer**

Verifone POS	VFI P/N P050-01-200
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**Notes**

<p><b>NOTE</b></p> 	<p>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.</p>
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**Cash Recyclers**

Glory	Models: CI-10 and CI-5
Crane Payment Innovations	Model: Paypod™ Embedded

**Notes**

<p><b>NOTE</b></p> 	<p>Currently, for Crane Cash Recyclers, the Verifone Commander Charity option needs to be disabled in Configuration Client.</p>
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**Coin Dispenser**

Transact2	VFI P/N P040-08-023
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## Displays

Customer Display	VFI P/N P040-08-300
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## 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"> <li>• Able Applied Technologies: AAT Live Hub (AAT-LH-V1)</li> <li>• DakTronics: DM-100 PSC (0A-1196-0133)</li> <li>• FutureMedia Displays Inc.: PriceVision LED Model FMD9-GSX.</li> <li>• Guru Digital Media: Guru Price Sign.</li> <li>• WatchFire: Price Watcher Sign.</li> </ul> <p>Supported:</p> <ul style="list-style-type: none"> <li>• Everbrite</li> <li>• Skyline</li> <li>• NOVYC Electronics Inc.</li> <li>• PWM</li> </ul>	<p>The Price Sign Controller (<i>PSC</i>) and an RS-232 connector is supplied by the sign manufacturer.</p>
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## Notes

**NOTE** Contact the manufacturer for details.



## Laser Scanners (POS Ready)

Use the following URL to access a list of laser scanners that have been approved by Verifone. See <https://www.verifone.com>.

## Money Order

MoneyGram: Delta Network Terminal 780T Version 3.5	P/N 11-0021-001
	Printer model: 1600
	VFI cable: VFI P/N 55296-03
Western Union Money Order Dispenser System: Version 3.5	P/N FDX-400 (Version 7534 and above)
	Adapter: 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
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### PIN pads

Verifone M400, P400, MX 915, MX 925 Multimedia	See the Sales Representative for part numbers.
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### Notes

<b>NOTE</b> 	For debit, PIN pads must be injected with the appropriate key for the application.
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### Verifone POS Printers (Point of Sale)

Verifone Thermal <b>receipt only</b> 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
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EPSON TM-T88III Thermal <b>receipt only</b> printer VFI P/N P040-02-008 Paper Width: 79.5 mm ±.5 mm (3.15 ±.02") EPSON P/N (Paper) NTP080-80
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### Notes

<b>NOTE</b> 	For EPSON TM-T88III Thermal installation information and DIP switch settings, refer to the "VASC Field Service Bulletin No. 0706.001".
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### Secondary Network

Use the following URL to access a list of secondary networks that have been approved by Verifone.  
See <https://www.verifone.com>.

### 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.

<p><b>NOTE</b></p> 	<p>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.</p> <p><b>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.</b></p>
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