



-  *WinEPS Release Notes*
-  *Version 825.0 SP2*
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WinEPS Release Notes

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Section 1

825.0 SP 2 Information

This section covers changes, bug fixes, and enhancements to the 825.0 SP 2 release of WinEPS. The items listed below are the changes made only since the previous major release. Previous editions of the WinEPS Release Notes are located on the WinEPS installation CD, in the directory Documents/Old Release Notes, or contact WinEPS support for a copy.

Minimum System Requirements

If the minimum requirements for the operating system you are using are higher than what is listed below, use those requirements instead.

Hardware Requirements for WinEPS and OpenEPS

- Pentium III (Intel or compatible) 500 MHz processor (1 GHz or faster recommended)
- 256 MB of RAM (512 MB or more recommended)
- VGA, or higher, resolution monitor set at 800 x 600 or better
- CD-ROM drive for software installation
- Ethernet Card
- Drive Space Requirement for WinEPS server:
 - 600 MB of available hard disk space on the WinEPS server (1.5 Gb of drive space is recommended). WinEPS requires approximately 300 Mb of space to install to; in addition a busy store can generate up to 10 Mb of log files per day. The default of 30 days storage can use up to 300 Mb of extra space resulting in the minimum requirement of 600 Mb of drive space.
 - 30 Days of log retention requires a total of 600 Mb free Hard Drive space.
 - 60 Days of log retention requires a total of 900 Mb free Hard Drive space.
 - 90 Days of log retention requires a total of 1.2 Gb free Hard Drive space.
- Drive Space Requirement for OpenEPS on each POS lane:
 - 100 Mb free drive space for configuration files and logs

Software Requirements for WinEPS

- TCP/IP, FTP and FTPS Protocols
- Any of the following Operating Systems:
 - Microsoft Server 2000/2003 SP 1
 - Microsoft Windows 2000, SP 4
 - Microsoft Windows XP SP2, Professional



WinEPS upgrades require a minimum starting version of 815.3. If you have a currently installed version of WinEPS older than Version 815.3, it must first be upgraded to 815.3 using previously available upgrade installations. Instead of upgrading a version prior to 815.3, it is highly recommended to make a backup of your WinEPS, perform a new installation, and configure your new version from scratch.

Software Requirements for OpenEPS (Front POS Lanes):

- TCP/IP, FTP and FTPS Protocols
- Any of the following Operating Systems:
 - Microsoft Server 2000/2003 SP 1
 - Microsoft Windows 2000, SP 4
 - Microsoft Windows XP SP2, Professional
 - Windows XP Embedded
 - WePOS
 - Linux [These versions only]: Red Hat version 2.4.7-10; Fedora version 2.4.20

PCI Compliance and Operating Systems

PCI requires that the security patches for software in the payments environment be tested and installed in a timely fashion. Several Microsoft operating systems have past their supported security update lifespan, and no additional security patches will be released. These operating systems include Windows NT 4.0 and Windows 95/98.

Due to the vulnerability that a lack of security patches represents, these operating systems are no longer supported for use with the WinEPS/OpenEPS product suite. Only the operating systems listed under the [Software Requirements](#) section above are supported.

Refer to information at <http://support.microsoft.com/> for the most up to date security related articles and end of support dates for all Microsoft operating systems.

Unsupported Systems

The following operating systems and hardware are not supported:

- Windows NT 4.0 is no longer supported (See PCI compliance section above)
- Windows Win95/Win98 is no longer supported (See PCI compliance section above)
- WinEPS will not function on non NT-based Windows versions, such as Windows ME.
- XP Home version is **not** supported due to its limited scope.

- Windows Vista operating system is not currently supported; this operating system is being researched for future support options.
- 64 bit operating systems and processors are not currently supported; these are being researched for future support options.

Code Versions

WinEPS Versions:

Module	Version
EPSEngineSrv.Exe	825.0.0.107
EPSTMenu.Exe	825.0.1.101
Rpt.Exe	825.0.0.107

OpenEPS Versions:

Module	Version	Date
mtx_eps.dll	825.0.0.364	6/6/2008
mtx_pos.dll	825.0.0.1	3/12/2008
libmtx_eps.so	825.0.0.187	3/12/2008
libmtx_pos.so	825.0.1.1	6/4/2008

Terminal Code Versions:

Type	Terminal	Version	Date
SCAT / Script / Terminal Code	C2000	32	1/5/2005
	eN-Crypt 2100	2.40	6/4/2008
	eN-Touch 1000	06.06	1/20/2003
	Everest	48	12/10/2007
	HYP 4100	232	1/25/2007
	HYP 4150	320	2/26/2008
	HYP L4250	320	2/26/2008
	ICE 5500	120	12/10/2007
	ICE 6000	120	12/10/2007
	Mx830/850/870	220N	7/1/2008
	Mx860	220N	7/1/2008
	NCR 5993	13	2/8/2007
	Omni 490	64	12/10/2007
	Omni 7000	50	12/10/2007
	VX670	17	3/12/2008

Stand Beside Code Versions:

Type	Terminal	Version	Date
Stand Beside	Verifone Omni 3750 (No longer PED Compliant)	25	1/31/2008
	VX570 (Replaces the Omni 3750)	25	2/1/2008

Known Issues

485 LAN support discontinued

Support for the 485 LAN Stand Beside systems have been discontinued.

This change affects the following 485 LAN integrations:

- IVI C2000 Protégé
- Verifone Everest
- Verifone Omni 490

The above terminals remain supported for OpenEPS integrations. This change does not affect the Verifone Omni 3750 or Vx570 Stand Beside integrations as they are not 485 LAN based.

Upgrading an older WinEPS version that did support Stand Beside to the latest version will cause the stand beside lanes to no longer function; in addition the upgrade process may abort until the stand beside lanes are undefined.

Enhancements to SCAT code incompatible with previous versions

Due to enhancements with terminal communication encryption, once a terminal automatically upgrades to the SCAT code used with 825, the terminal cannot be used with versions 824 and before, similarly terminals that are prevented from automatically upgrading to the 825 version of SCAT code will not work with 825 until the upgrade occurs.

The following terminals are affected:

- Hypercom ICE5500
- Hypercom ICE6000
- Verifone Everest
- Verifone Omni 490
- Verifone Omni 7000
- VeriFone Vx670

Verifone MX860 Smart WIC

For information on the use of Smart WIC with the MX860 terminal, contact MTX Support.

Verifone MX800 series, issues with Revision A cables

Verifone has discovered an issue with the Revision A version of the MX cables with USB. It is recommended that the cabling with the following part numbers be used instead:

- 23998-05 REV B
- 23998-02 REV B

IBM integration not supported for 825

The 825 version of WinEPS is not compatible with the IBM integration; the last WinEPS release that supported IBM was 823.

Do not use 825 version WinEPS or OpenEPS with the IBM Integration.

Use Latest Redundancy Service

Due to changes in WinEPS and corresponding changes in the redundancy service, **previous versions of the redundancy service are incompatible with the current 825 version of WinEPS.**

If redundancy is in use in a location that upgrades to the latest WinEPS, the redundancy service must also be upgraded to the same version to remain compatible and function properly.

Discover RFID requires update

Discover RFID cards follow a new format that may require you to update your RFID reader firmware. Contact MTX Support for additional information.

WinEPS Fixed Issues and Enhancements

Enhancement	Description
1. Add 3DES support	<ul style="list-style-type: none"> • Certification • Triple DES encryption for terminals is supported. • Functionality has been certified with the Concord EPC host interface.
2. Fixed memory leak	<ul style="list-style-type: none"> • Fixed • Corrected a memory leak issue where the WinEPS service would not release all allocated memory when it was no longer in use.
3. ServerEPS Configuration Management GUI	<ul style="list-style-type: none"> • ServerEPS Enhancement • A new Configuration Management GUI has been released. This web interface allows the remote configuration of stores via the online service. • For additional information about the Configuration Management GUI and ServerEPS, refer to the <i>ServerEPS User's Guide</i>.
4. Tax Amount uses setting in CPP	<ul style="list-style-type: none"> • Enhancement • The K - Tax Amount TAC has been enhanced to be configurable per card type by including a new checkbox on the Card Processing Profiles screen. • When the Tax Amount TAC is placed into the sequence, it will only prompt on those cards with the Tax Amount properly checked in the Card Processing Profiles screen. • Upgrades and fresh installations default to the Tax Amount option checked on in the Card Processing Profiles to maintain existing functionality.
5. Send Status Message when POS application launches	<ul style="list-style-type: none"> • Enhancement • OpenEPS has been enhanced to send a status message as soon as the POS application is launched. • Since the status message is sent prior to sign on, OpenEPS will use the lane journal file with the most recent date and time stamp to determine the lane number for use with the new status message. If no journal files are present, a status message will not be immediately sent. • If OpenEPS determines that offline files with data need to be transmitted, OpenEPS will use the lane number stored in the offline transaction to generate a status message before sending the offline.
6. TOR Logic Change	<ul style="list-style-type: none"> • Enhancement • Time Out Reversal transactions are not valid after and End of Day completes. Previously, TORs were sent up until they received a reply from the host or until they were attempted 999 times. New logic changes this so that TORs are cleared during the end of day procedures, or if the TOR is 24 hours old. • TORs are still removed immediately if they receive a reply from the host (approval or decline).

Enhancement	Description
7. Last BIN update time/date stamp	<ul style="list-style-type: none"> • Enhancement • A new tag has been added to the WinEPS status information that notes the timestamp of last time the debit BIN file was updated. Each time the BIN file is updated the timestamp is updated. • This new information is displayed on the Inquiry Status Server Info Tab in the WinEPS viewer.
8. Cashier Summary report not reporting check totals correctly	<ul style="list-style-type: none"> • Fixed • In the Cashier Summary report, the paper check and the ECC (Electronically Converted) check totals were being combined. This has been corrected so that each section displays only the relevant totals.
9. Update XML Tag for 'allow cash back' setting	<ul style="list-style-type: none"> • Enhancement • The text for the 'cash back on manual entry' was recently change from "No cash back on manual" to "Allow cash back on manual" to clarify the setting on the card processing profiles screen. • The XML Tag has been similarly updated to reflect this change and the WinEPS Engine has been updated to accept the new tag.
10. Enhance OpenEPS Direct	<ul style="list-style-type: none"> • Enhancement • OpenEPS has been updated to take over some functionality that was already present in WinEPS for implementation with the OpenEPS Direct solution. • Gift cards with a Program ID of IDT will allow only activations and not allow purchases. No voids of activations or TORs of activations will be allowed. • The IDT program ID is for use with the Concord H&C host.
11. Offline Forward checking to remove transaction anytime after expiration	<ul style="list-style-type: none"> • Fixed • There was an error with deleting offline transactions that had passed their life expectancy. Previously, if an offline transaction was marked to be deleted on a certain date, it would be deleted only on that date; this has been modified so that expired offline transactions will be deleted on the date they expire and any date after that if they are still present. • This fix was primarily to catch expired offlines that remained on a WinEPS system that was not active on the date of deletion.
12. Socket issue corrected	<ul style="list-style-type: none"> • Fixed • The WinEPS GUI had a socket issue that showed up when the GUI was open while the engine shut down. This issue has been corrected.

Enhancement	Description
13. PO # uses setting in CPP	<ul style="list-style-type: none"> • Enhancement • The 4 – PO Number TAC has been enhanced to be configurable per card type by including a new checkbox on the Card Processing Profiles screen. • When the Purchase Order Number TAC is placed into the sequence, it will only prompt on those cards with the PO # properly checked in the Card Processing Profiles screen. • Upgrades and fresh installations default to the PO # option checked on in the Card Processing Profiles to maintain existing functionality.
14. Gift Card Activations displayed as Positive amount	<ul style="list-style-type: none"> • Fixed • Gift card Activations were displayed as a negative value on the approved transaction report; this has been corrected to be displayed as a positive number.
15. Module versions no longer reported at EOD	<ul style="list-style-type: none"> • Fixed • Due to changes in the End of Day logic, the file versions were no longer being reported in the Spool file. The end of day procedures have been corrected so they survey the modules in use and write their version numbers to the spool file.
16. Remove Journal Service settings from Process.xml	<ul style="list-style-type: none"> • Enhancement • Previous versions of WinEPS left remaining settings for the discontinued Journaling Service in the process.xml. These settings are now automatically removed upon update.
17. Add 'WY' WIC state code	<ul style="list-style-type: none"> • Enhancement • The new WIC state of WY (Wyoming) is available on the Configuration Terminal Configuration Miscellaneous Tab. • This new state code functions identically to the other two state codes, and can be toggled independently.
18. Extended Cashier Prompts not displaying after a cancel	<ul style="list-style-type: none"> • Fixed • The Extended Cashier Prompts were not correctly being set after a transaction that had been tendered was canceled. This has been corrected so that the prompts are set correctly to the initial message after a reset.
19. Allow GC redemptions with Non-Blackhawk Program ID	<ul style="list-style-type: none"> • Enhancement • The following Gift Card Program IDs have been added: <ul style="list-style-type: none"> SVS Stored Value Systems VAL ValuLink • Gift Card prefixes set with these program IDs can be used to process purchases as well as activations.

Enhancement	Description
20. Corrected issues with PendingSocket Array error	<ul style="list-style-type: none"> • Fixed • When WinEPS received the PendingSocket Array error, it would no longer perform end of day procedures properly. This issue has been corrected.
21. Update Processing Options Edit message	<ul style="list-style-type: none"> • Update • The message displayed to the user when they save and exit the Processing options screen has been updated to inform the user they should stop and restart the engine. Previously it listed stopping and starting the lanes only.
22. Update user notice messages	<ul style="list-style-type: none"> • Update • WinEPS message boxes have been updated to correctly reflect that users must stop and restart the WinEPS engine to implement configuration changes. • Previous messages referenced stopping and starting the lanes only; the latest version of WinEPS no longer relies on stopping the lanes to implement configuration changes and no longer stops the lanes during the end of day procedure.
23. Load Host Response XML When Engine Starts	<ul style="list-style-type: none"> • Enhancement • The Host Response Code XML file for each defined host is now loaded into memory when the host starts as part of the WinEPS Engine start up procedure.
24. Disable Scanmaster path in processing options when not in use	<ul style="list-style-type: none"> • Fixed • When no Scanmaster lanes are defined, the Scanmaster path in processing options will be disabled (grayed out).
25. Remote desktop status not being update properly	<ul style="list-style-type: none"> • Fixed • When viewing the menu through a remote desktop connection, the UP and DOWN indicators in the main menu were not being updated correctly compared to the actual status on the physical PC. Then engine and menu have been updated to display the correct status across a remote connection.
26. Private Debit declines	<ul style="list-style-type: none"> • Fixed • Private Debit was being incorrectly declined at WinEPS; this has been corrected so that Private Debit transactions are processed correctly.

OpenEPS Changes

Enhancement	Description
1. Status Message Functionality on Linux	<ul style="list-style-type: none"> • Enhancement • The status message has been implemented on Linux. • The status message transmits current status information from the OpenEPS lane to the server, such as the number of offline transactions present and the hard drive space remaining.
2. Store Pin Pad serial number	<ul style="list-style-type: none"> • Enhancement • OpenEPS and the terminal code have been enhanced to record, and pass along to WinEPS, the terminal serial number. • The serial number is required and recorded each transaction. • The following Terminals have updated code to support passing terminal serial numbers: <ul style="list-style-type: none"> Omni 7000 Omni 490: Serial Number sent only if burned at time of manufacture ICE 6000 ICE 5500 VX670 • The Everest terminal does not provide a terminal number.
3. Debit BIN update in OpenEPS Direct	<ul style="list-style-type: none"> • Enhancement • When configured for use with the OpenEPS Direct interface, OpenEPS will request a new Debit BIN file from ServerEPS BIN File Service each night. • OpenEPS will receive the basic BIN format and will convert it as needed into the DebitBIN.eft format. • Debit BIN file will be downloaded after the POS signs on at least one time to initiate the OpenEPS software interface. • The company and store number information used to acquire the BIN file is drawn from the registry.
4. Set Store Number overrides registry	<ul style="list-style-type: none"> • Enhancement • OpenEPS now accepts setting the Store Number via function call; if Store Number is set by the POS, it will take precedence over the Store number setting in the local registry.
5. Response Code table prompts for voids have been corrected	<ul style="list-style-type: none"> • Fixed • Prompts for Void by Sequence using the OpenEPS Direct interface were not using the text from the specific tender types and were instead using the text listed as part of the generic (##) tender type. • This has been corrected so that if specific card text is available, that text will be used for the appropriate card type voids.

Enhancement	Description
6. Manually entered cards getting 145 decline	<ul style="list-style-type: none"> • Enhancement • Previously when a card was manually entered and the card number was not recognized by OpenEPS, the transaction would still be allowed to proceed and would only be declined after the transaction was sent. • This has been updated so that as soon as an invalid card number has been entered and recognized, OpenEPS sets an error to the POS so that the transaction can be ended immediately.
7. Not processing the T Manager TAC if in Check Sequence	<ul style="list-style-type: none"> • Fixed • OpenEPS was incorrectly not processing the T Manager ID TAC when it was placed in the middle of the Check Purchase transaction sequence. This has been corrected so that OpenEPS processes the T Manager ID TAC properly.
8. Remove company/store number from log file naming convention	<ul style="list-style-type: none"> • Enhancement • Previous logic to add the company and store number to the OpenEPS log file name is no longer required. This logic has been removed.
9. Discontinue MTX_SE.DLL logging	<ul style="list-style-type: none"> • Enhancement • Separate logging has been removed from the MTX_SE.DLL; it no longer writes separate log entries to the mtx_se_log.txt file.
10. Updated OpenEPS Direct installer for removable drive support	<ul style="list-style-type: none"> • Enhancement • The OpenEPS installation package has been updated to allow section of separate drives and paths for the MTX_EPS.DLL and MTX_POS.DLL file, including the use of removable drives.
11. Debit void by seq of the previous transaction going up as purchase, not void	<ul style="list-style-type: none"> • Fixed • If a debit transaction was processed on a lane and then a void by sequence number was attempted for that transaction, it would instead be processed as a second purchase. • This has been corrected to properly allow the void.
12. Correct Out of Order Signature	<ul style="list-style-type: none"> • Fixed • Recent modifications to the signature capture transaction flow resulted in Out of Order Signature Capture failing to function. This feature has been updated to work properly.
13. Bad card slide caused lockup	<ul style="list-style-type: none"> • Fixed • Corrected an issue where a card with bad track2 data that was slid three times would cause OpenEPS to display the prompt "Please Try Another Card" but not cycle back to the Slide Card TAC, causing the pin pad to lock up.

Enhancement	Description
14. Check NF resubmit sent as override	<ul style="list-style-type: none"> • Fixed • Check transactions that received an NF (request for ID) decline were being resubmitted as an override; these transactions should have been sent up as a standard check transaction that included the requested ID information. • The logic that allowed proper handling of NF has been ported from WinEPS into OpenEPS so that these resubmits are eligible for ECC.
15. Check account number truncation on receipts	<ul style="list-style-type: none"> • Fixed • Check account numbers were not being truncated on OpenEPS receipts, regardless of the setting in the host processor definition window for truncation on receipt. This has been corrected to follow the settings on the host screen correctly.
16. OpenEPS Direct “Jb” logic update	<ul style="list-style-type: none"> • Fixed • OpenEPS Direct logic offline response handling was corrected to switch from primary to secondary and vice-versa on certain “Jb” host down or timeout declines.
17. Interval message not clearing	<ul style="list-style-type: none"> • Fixed • Corrected an issue with the MTXEPS interval message at beginning and end order not clearing after a checker sign on in some cases.
18. WIC card removal caused lock up	<ul style="list-style-type: none"> • Fixed • Corrected an issue in the MX WIC code where pulling a card during a WIC session would cause the PIN pad not to reset properly and to lock up the PIN pad and POS.

OpenIP Changes

Enhancement	Description
1. -No Change to OpenIP -	<ul style="list-style-type: none"><li data-bbox="570 394 630 415">• ---

Host Changes

ACI

Enhancement	Description
1. Modify FSA support for ACI	<ul style="list-style-type: none"> Enhancement In the event that an FSA card is detected, but no FSA amounts are entered, the transaction is still sent with the following information: Bit 3-24 Amount Type 56 set to .00
2. Send PO Number	<ul style="list-style-type: none"> Enhancement The Purchase Order Number has been added to Credit Purchase transactions, and will be sent in bit 3-15, token 78.

Albertsons

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none">

Ascendent

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none">

BioPay

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none">

Chase

Enhancement	Description
1. Chase host limited to \$99999.99	<ul style="list-style-type: none"> Fixed The Chase host is limited to a maximum dollar amount of \$99999.99, which is less than the amount that OpenEPS can receive from the POS. In the event of the POS system entering a value greater than the amount allowed, the transaction will be declined for an invalid amount.

Concord: EPC

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none">

Concord: H&C Format

Enhancement	Description
1. Add "Real Lane Number" to concord H&C	<ul style="list-style-type: none"> Enhancement The optional lane number field was previously unpopulated in messages to the host. This has been updated so that it is now populated. The lane number will be placed into field 15 element 66 – Store Lane Number.
2. Certegy Check Authorization	<ul style="list-style-type: none"> Enhancement A new check authorizer type of Certegy has been added to the Concord H&C host interface. The Certegy authorizer uses an issuer code of TR.
3. Support FSA BIN Updates	<ul style="list-style-type: none"> Enhancement WinEPS now supports automatic BIN updates for the FSA card BIN file.
4. Concord Offline file	<ul style="list-style-type: none"> Fixed The Concord H&C host offline file was not being properly initialized during the end of day process. This issue has been corrected.

Concord: Memphis

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none"> •

Demo

Enhancement	Description										
1. Demo host response amounts	<ul style="list-style-type: none"> • Enhancement • Several Demo host test amounts have been added over the past several releases. These amounts have only been displayed in the Spool log file. The host screen has now been updated to display all the current available special response amounts. 										
2. Demo Host: Revised FSA testing amounts	<ul style="list-style-type: none"> • Enhancement • The Demo host responds to transactions based on the dollar amount entered. All demo host special test amounts are even dollar amounts. • The previous FSA amounts were returning partial approvals correctly, but attempting to complete an order afterward would trigger another demo amount. The amounts have been modified to return a non-even dollar amount so as not to trigger another special test case. • Additionally several new FSA related dollar amounts have been added to support Medical, Dental and Vision testing. • The new FSA amount list is: <table data-bbox="662 1255 1177 1388"> <tr> <td>\$40.00 CR FSA\$20 RX\$0</td> <td>Appr \$19.99</td> </tr> <tr> <td>\$41.00 CR FSA\$20 VIS\$10</td> <td>Appr \$9.99</td> </tr> <tr> <td>\$42.00 CR FSA\$20 MED\$10</td> <td>Appr \$9.99</td> </tr> <tr> <td>\$43.00 CR FSA\$20 DEN\$10</td> <td>Appr \$9.99</td> </tr> <tr> <td>\$50.00 CR FSA\$20 RX\$10</td> <td>Appr \$15.01</td> </tr> </table> 	\$40.00 CR FSA\$20 RX\$0	Appr \$19.99	\$41.00 CR FSA\$20 VIS\$10	Appr \$9.99	\$42.00 CR FSA\$20 MED\$10	Appr \$9.99	\$43.00 CR FSA\$20 DEN\$10	Appr \$9.99	\$50.00 CR FSA\$20 RX\$10	Appr \$15.01
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\$50.00 CR FSA\$20 RX\$10	Appr \$15.01										

Elavon (was NOVA)

Enhancement	Description
1. Checks processing twice with no receipt information	<ul style="list-style-type: none"> • Fixed • Checks being processed to NOVA/Elavon were found to not provide any receipt information and instead re-process the same transaction a second time. This has been corrected so that receipt information is available and the transaction is only processed once.

ePicTranz

Enhancement	Description																																																																																																																																													
1. Update response codes	<ul style="list-style-type: none"> Enhancement The following response codes have been added or updated: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #cccccc;">Response code (Changed or Added)</th> <th style="background-color: #cccccc;">Card Code & Response</th> <th style="background-color: #cccccc;">Description</th> </tr> </thead> <tbody> <tr><td>Chg 51</td><td>CK (any) [was ##]</td><td>Insufficient Funds</td></tr> <tr><td>Add 51</td><td>## ND</td><td>Insufficient Funds</td></tr> <tr><td>Add 56</td><td>## ND</td><td>Exceeded Max PIN Tries</td></tr> <tr><td>Chg 61</td><td>CK (any) [was ##]</td><td>Velocity Decline</td></tr> <tr><td>Add 61</td><td>## ND</td><td>Exceeded Limits</td></tr> <tr><td>Add 92</td><td>## ND</td><td>Issuer Unavailable</td></tr> <tr><td>Add 93</td><td>## ND</td><td>Issuer Unavailable</td></tr> <tr><td>Add 100</td><td>## ND</td><td>ServerEPS Database Error</td></tr> <tr><td>ADD 101</td><td>## ND</td><td>ServerEPS Database Record Not Found</td></tr> <tr><td>Add 200</td><td>## ND</td><td>ServerEPS Store Invalid</td></tr> <tr><td>Add 201</td><td>## ND</td><td>ServerEPS Store Inactive</td></tr> <tr><td>ADD 202</td><td>## ND</td><td>ServerEPS No Service Access for Store</td></tr> <tr><td>Add 300</td><td>## ND</td><td>ServerEPS Transaction invalid</td></tr> <tr><td>Add 301</td><td>## ND</td><td>ServerEPS Transaction Not Allowed</td></tr> <tr><td>Add 302</td><td>## ND</td><td>ServerEPS Transaction Amount Out of Bounds</td></tr> <tr><td>Add 303</td><td>## ND</td><td>ServerEPS Cash Back Out of Bounds</td></tr> <tr><td>Add 304</td><td>## ND</td><td>ServerEPS Manual Not Allowed</td></tr> <tr><td>Add 305</td><td>## ND</td><td>ServerEPS Expired Card</td></tr> <tr><td>Add 306</td><td>## ND</td><td>ServerEPS Mod 10 Failure</td></tr> <tr><td>Add 307</td><td>## ND</td><td>ServerEPS Transaction Timed Out</td></tr> <tr><td>Add 308</td><td>## ND</td><td>ServerEPS Local Decline</td></tr> <tr><td>Add 309</td><td>## ND</td><td>ServerEPS Original Not Found</td></tr> <tr><td>Add 310</td><td>## ND</td><td>ServerEPS Multiple Originals Found</td></tr> <tr><td>Add 311</td><td>## ND</td><td>ServerEPS Original In Flight</td></tr> <tr><td>Add 312</td><td>## ND</td><td>ServerEPS Additional Information Required</td></tr> <tr><td>Add 313</td><td>## ND</td><td>ServerEPS Transaction Already Voided</td></tr> <tr><td>ADD 314</td><td>## ND</td><td>ServerEPS Void Mismatch</td></tr> <tr><td>Add 400</td><td>## ND</td><td>ServerEPS Invalid Message Format</td></tr> <tr><td>Add 401</td><td>## ND</td><td>ServerEPS - Invalid Amount</td></tr> <tr><td>Add 402</td><td>## ND</td><td>ServerEPS - Invalid Boolean</td></tr> <tr><td>Add 403</td><td>## ND</td><td>ServerEPS - Invalid Character</td></tr> <tr><td>Add 404</td><td>## ND</td><td>ServerEPS - Invalid Date or Time</td></tr> <tr><td>Add 405</td><td>## ND</td><td>ServerEPS - Invalid Entry Mode</td></tr> <tr><td>Add 406</td><td>## ND</td><td>ServerEPS - Invalid Expiration Date</td></tr> <tr><td>Add 407</td><td>## ND</td><td>ServerEPS - Invalid Field Code</td></tr> <tr><td>Add 408</td><td>## ND</td><td>ServerEPS - Invalid Hex Value</td></tr> <tr><td>Add 409 e</td><td>## ND</td><td>ServerEPS - Invalid Lane Typ</td></tr> <tr><td>Add 410</td><td>## ND</td><td>ServerEPS Invalid Message Length</td></tr> <tr><td>Add 411</td><td>## ND</td><td>ServerEPS - Invalid Number</td></tr> <tr><td>Add 412</td><td>## ND</td><td>ServerEPS - Invalid Check Type</td></tr> <tr><td>Add 413</td><td>## ND</td><td>ServerEPS - Invalid ID Type</td></tr> <tr><td>Add 414</td><td>## ND</td><td>ServerEPS - Invalid State Code</td></tr> <tr><td>ADD 415</td><td>## ND</td><td>ServerEPS Message - Invalid Processing Code</td></tr> <tr><td>ADD 416</td><td>## ND</td><td>ServerEPS Message - Invalid Settlement format</td></tr> <tr><td>Add 500</td><td>## ND</td><td>ServerEPS Host Connection</td></tr> <tr><td>ADD 999</td><td>## ND</td><td>ServerEPS System Unavailable</td></tr> </tbody> </table>	Response code (Changed or Added)	Card Code & Response	Description	Chg 51	CK (any) [was ##]	Insufficient Funds	Add 51	## ND	Insufficient Funds	Add 56	## ND	Exceeded Max PIN Tries	Chg 61	CK (any) [was ##]	Velocity Decline	Add 61	## ND	Exceeded Limits	Add 92	## ND	Issuer Unavailable	Add 93	## ND	Issuer Unavailable	Add 100	## ND	ServerEPS Database Error	ADD 101	## ND	ServerEPS Database Record Not Found	Add 200	## ND	ServerEPS Store Invalid	Add 201	## ND	ServerEPS Store Inactive	ADD 202	## ND	ServerEPS No Service Access for Store	Add 300	## ND	ServerEPS Transaction invalid	Add 301	## ND	ServerEPS Transaction Not Allowed	Add 302	## ND	ServerEPS Transaction Amount Out of Bounds	Add 303	## ND	ServerEPS Cash Back Out of Bounds	Add 304	## ND	ServerEPS Manual Not Allowed	Add 305	## ND	ServerEPS Expired Card	Add 306	## ND	ServerEPS Mod 10 Failure	Add 307	## ND	ServerEPS Transaction Timed Out	Add 308	## ND	ServerEPS Local Decline	Add 309	## ND	ServerEPS Original Not Found	Add 310	## ND	ServerEPS Multiple Originals Found	Add 311	## ND	ServerEPS Original In Flight	Add 312	## ND	ServerEPS Additional Information Required	Add 313	## ND	ServerEPS Transaction Already Voided	ADD 314	## ND	ServerEPS Void Mismatch	Add 400	## ND	ServerEPS Invalid Message Format	Add 401	## ND	ServerEPS - 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	2. ECC Flag setting	<ul style="list-style-type: none"> Enhancement The Epic Tranz host interface has been updated so that the 'Ch' flag is set only on a velocity decline or NF (Need ID) decline, and only if the decline had the 'Ch' field set to Y. 																																																																																																																																												
	3. Add code 56 to TRN Response Code table	<ul style="list-style-type: none"> Enhancement Response code 56 has been added to the Epic Tranz Response Code table. Code 56 is set to a hard decline (ND) for Exceeding Maximum PIN entry tries. 																																																																																																																																												



LML

Enhancement	Description
1. -No Change to Host -	•

Lynk

Enhancement	Description																																																																																																																																		
2. Resubmit Responses	<ul style="list-style-type: none"> Enhancement The following response codes will trigger WinEPS to attempt to retry the transaction using the listed Retry Period: 																																																																																																																																		
	<table border="1"> <thead> <tr> <th>Tender</th> <th>RBS Lynk Response</th> <th>Put in Off-line Queue</th> <th>Resubmit from SAF</th> <th>Retry Period</th> </tr> </thead> <tbody> <tr> <td>All</td> <td>090 Format Error – contact RBS Lynk DENIED</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>All</td> <td>091 Data Error – contact RBS Lynk DENIED</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>All</td> <td>092 Setup Error –contact RBS Lynk DENIED</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Credit</td> <td>1010 Invalid Merchant Number or Check Digit TERM ID ERROR</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Credit</td> <td>1011 Invalid Terminal Number INV TERM NO</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Credit</td> <td>1012 Invalid Terminal Type INV TERM TYPE</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Credit</td> <td>1013 Terminal Deactivated CALL LYNK</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Credit</td> <td>1014 Invalid Tran Code INV TRAN CODE</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Credit</td> <td>1027 Invalid AMEX Setup AMEX NOT ALLOWED</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Credit</td> <td>1028 Invalid Discover Setup DISC NOT ALLOWED</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Credit</td> <td>1029 Invalid Diner/Carte Blanche Card Setup DCCB NOT ALLOWED</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Credit</td> <td>1030 Invalid JCB Setup JCB NOT ALLOWED</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Credit</td> <td>1099 Invalid Data Format In Request DATA FORMAT ERR</td> <td>No</td> <td>Yes</td> <td>Retry 1 time a day for 14 Days (Issue)</td> </tr> <tr> <td>Debit</td> <td>0015 Bank Not Available BANK NOT AVAIL</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Debit</td> <td>0032 Network Unavailable NETWORK UNAVAIL</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Debit</td> <td>0090 Invalid Terminal Type - Call Lynk INV TERM TYPE</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Debit</td> <td>0091 Invalid Terminal ID - Call Lynk INV TERM ID</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Debit</td> <td>0093 Terminal Deactivated - Call Lynk CALL LYNK</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Debit</td> <td>0094 Format Error In Transaction Request - Call Lynk DATA FORMAT ERR</td> <td></td> <td></td> <td>Retry 1 time a day for 14 Days (Issue)</td> </tr> <tr> <td>Debit</td> <td>0099 Invalid Terminal INV TERMINAL</td> <td>No</td> <td>Yes</td> <td>Retry every 4 Hrs 14 days (System Issue)</td> </tr> <tr> <td>Gift</td> <td>0012 Processing Error CANNOT PROCESS</td> <td>No</td> <td>Yes</td> <td>Retry 1 time a day for 14 Days (Issue)</td> </tr> <tr> <td>Gift</td> <td>0014 Unknown Message DATA FORMAT ERR</td> <td>No</td> <td>Yes</td> <td>Retry 1 time a day for 14 Days (Issue)</td> </tr> <tr> <td>Gift</td> <td>0015 Network Unavailable NETWORK UNAVAIL</td> <td>Yes</td> <td>Yes</td> <td>Retry 1 time a day for 14 Days (Issue)</td> </tr> <tr> <td>Gift</td> <td>0017 Activation amount is less than set Minimum ACT BELOW LIMIT</td> <td>No</td> <td>Yes</td> <td>Retry 1 time a day for 14 Days (Issue)</td> </tr> <tr> <td>Gift</td> <td>0074 Authorizer Routing Error DENIED</td> <td>Yes</td> <td>Yes</td> <td>Retry 1 time a day for 14 Days (Issue)</td> </tr> </tbody> </table>	Tender	RBS Lynk Response	Put in Off-line Queue	Resubmit from SAF	Retry Period	All	090 Format Error – contact RBS Lynk DENIED	No	Yes	Retry every 4 Hrs 14 days (System Issue)	All	091 Data Error – contact RBS Lynk DENIED	No	Yes	Retry every 4 Hrs 14 days (System Issue)	All	092 Setup Error –contact RBS Lynk DENIED	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Credit	1010 Invalid Merchant Number or Check Digit TERM ID ERROR	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Credit	1011 Invalid Terminal Number INV TERM NO	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Credit	1012 Invalid Terminal Type INV TERM TYPE	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Credit	1013 Terminal Deactivated CALL LYNK	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Credit	1014 Invalid Tran Code INV TRAN CODE	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Credit	1027 Invalid AMEX Setup AMEX NOT ALLOWED	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Credit	1028 Invalid Discover Setup DISC NOT ALLOWED	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Credit	1029 Invalid Diner/Carte Blanche Card Setup DCCB NOT ALLOWED	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Credit	1030 Invalid JCB Setup JCB NOT ALLOWED	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Credit	1099 Invalid Data Format In Request DATA FORMAT ERR	No	Yes	Retry 1 time a day for 14 Days (Issue)	Debit	0015 Bank Not Available BANK NOT AVAIL	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Debit	0032 Network Unavailable NETWORK UNAVAIL	No	Yes	Retry every 4 Hrs 14 days (System Issue)	Debit	0090 Invalid Terminal Type - 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	Debit	0090 Invalid Terminal Type - Call Lynk INV TERM TYPE	No	Yes	Retry every 4 Hrs 14 days (System Issue)																																																																																																																														
	Debit	0091 Invalid Terminal ID - Call Lynk INV TERM ID	No	Yes	Retry every 4 Hrs 14 days (System Issue)																																																																																																																														
	Debit	0093 Terminal Deactivated - Call Lynk CALL LYNK	No	Yes	Retry every 4 Hrs 14 days (System Issue)																																																																																																																														
	Debit	0094 Format Error In Transaction Request - Call Lynk DATA FORMAT ERR			Retry 1 time a day for 14 Days (Issue)																																																																																																																														
	Debit	0099 Invalid Terminal INV TERMINAL	No	Yes	Retry every 4 Hrs 14 days (System Issue)																																																																																																																														
	Gift	0012 Processing Error CANNOT PROCESS	No	Yes	Retry 1 time a day for 14 Days (Issue)																																																																																																																														
	Gift	0014 Unknown Message DATA FORMAT ERR	No	Yes	Retry 1 time a day for 14 Days (Issue)																																																																																																																														
	Gift	0015 Network Unavailable NETWORK UNAVAIL	Yes	Yes	Retry 1 time a day for 14 Days (Issue)																																																																																																																														
	Gift	0017 Activation amount is less than set Minimum ACT BELOW LIMIT	No	Yes	Retry 1 time a day for 14 Days (Issue)																																																																																																																														
Gift	0074 Authorizer Routing Error DENIED	Yes	Yes	Retry 1 time a day for 14 Days (Issue)																																																																																																																															

Enhancement	Description
1. BlackHawk & FSA	<ul style="list-style-type: none"> External Certification FSA was externally certified to the Lynk host.
2. FSA Bin File downloads	<ul style="list-style-type: none"> Enhancement Automatic download of FSA BIN file has been implemented for the Lynk host. The Lynk BIN file is a combination of the Debit BIN and FSA bin information. WinEPS will read any new BIN file during the end of day procedure and will populate or update the Debit BIN and FSA Bin tables based on the information provided.
3. Allow offline BHK activation	<ul style="list-style-type: none"> Enhancement The Lynk host has been update to allow offline activation of Blackhawk gift cards.

LX1 & LX2 (Check) Hosts

Enhancement	Description
1. Prompt for Secondary ID in Stand-In mode	<ul style="list-style-type: none"> Enhancement If a POS lane is configured for offline processing and is in Stand in at the POST mode when a check transaction is processed, the transaction will automatically be declined with an "MTX->237 Need ID" decline. This will allow the acquisition of the customer ID information.
2. TOR void on power off	<ul style="list-style-type: none"> Fixed If a void is sent to the server, and the POS is powered off before a response is received, when the POS is restarted, OpenEPS will create a TOR for the void.
3. Change Account Type for FSA	<ul style="list-style-type: none"> Enhancement Due to a specification change, the Account Type field in the Additional Amounts entry has been updated to a 31 (Credit) for FSA transactions. This field was originally 00 (Unspecified). This change has been implemented as a patch to WinEPS version 823 as well.

Mainsail

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none"> •

Mercury

Enhancement	Description
1. WinEPS checks CmdStatus field	<ul style="list-style-type: none"> • Enhancement • The Mercury host has a DSIClientX ActiveX control with which it connects to WinEPS. As this connection is constant, WinEPS was unable to determine when the host went down. • WinEPS has been enhanced to read the response message from the ActiveX control for the CmdStatus field to determine if the communication is down. • If communication is indicated as down, then WinEPS will follow its standard offline processing instead of just declining the transaction.

MPS (Fifth Third)

Enhancement	Description
1. Support FSA BIN File downloads	<ul style="list-style-type: none"> • Enhancement • Automatic updating of the FSA BIN file is now supported. • The FSA BIN file follows the same format as the Debit BIN file, but has a different header. • The FSA BIN file will be converted and updated by WinEPS during its End of Day procedures.

MTX Receipt Capture Host

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none"> •

Paypoint

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none">•

Pay by Touch

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none">•

Shared (BigY)

Enhancement	Description
1. -No Change to Host -	<ul style="list-style-type: none">•

Terminal Code Changes

Hypercom ICE5500

Enhancement	Description
<p>1. Encrypt Track Data on PIN PAD</p>	<ul style="list-style-type: none"> • Enhancement • Track data for the following terminals will now be encrypted when transferred from the terminal to the POS: Hypercom ICE5500 Hypercom ICE6000 Verifone Everest Verifone Omni 490 Verifone Omni 7000 VeriFone Vx670 • When terminals are upgraded to the latest SCAT code that supports encryption, that terminal will not be able to function with previous versions of the WinEPS/OpenEPS software that do not support encryption. • Similarly, if a terminal using older code is attached to a POS using 825 or later, the terminal will have to complete the automatic update process of loading the latest code before it will function.

Hypercom ICE6000

Enhancement	Description
<p>1. Encrypt Track Data on PIN PAD</p>	<ul style="list-style-type: none"> • Enhancement • Track data for the following terminals will now be encrypted when transferred from the terminal to the POS: Hypercom ICE5500 Hypercom ICE6000 Verifone Everest Verifone Omni 490 Verifone Omni 7000 VeriFone Vx670 • When terminals are upgraded to the latest SCAT code that supports encryption, that terminal will not be able to function with previous versions of the WinEPS/OpenEPS software that do not support encryption. • Similarly, if a terminal using older code is attached to a POS using 825 or later, the terminal will have to complete the automatic update process of loading the latest code before it will function.

Hypercom L4100

Enhancement	Description
1. -No Change to Terminal Code -	<ul style="list-style-type: none"> • ---

Hypercom L4150

Enhancement	Description
1. Support Hypercom 4150	<ul style="list-style-type: none"> • Enhancement • Added support for the Hypercom 4150 terminal. • Support for the 4150 starts with SCAT version 320. • This terminal is the successor to the 4100 terminal and contains the same functionality as the 4100 terminal.

Hypercom L4250

Enhancement	Description
1. New Hypercom SCAT ver 320	<ul style="list-style-type: none"> • Enhancement • New SCAT version 320 has been issued by Hypercom.

Ingenico eN-Crypt 2100

Enhancement	Description
1. -No Change to Terminal Code -	<ul style="list-style-type: none"> • ---

Ingenico eN-Touch 1000

Enhancement	Description
1. -No Change to Terminal Code -	<ul style="list-style-type: none"> • ---

Ingenico 6550

Enhancement	Description
1. -No Change to Terminal Code -	<ul style="list-style-type: none"> • ---

IVI C2000 Protégé

Enhancement	Description
1. -No Change to Terminal Code -	<ul style="list-style-type: none"> • ---

NCR 5993

Enhancement	Description
1. -No Change to Terminal Code -	<ul style="list-style-type: none"> • ---

Verifone Everest

Enhancement	Description
1. Add function calls to 490, Everest, and 7000	<ul style="list-style-type: none"> • Enhancement • SCAT function calls for Cashier Number entry, POS Tracking Number, Date Request, and Display Request have been added to the Omni 490, Everest and Omni 7000 terminals.

Verifone MX830/MX850/MX860/MX870

Enhancement	Description
1. Enhance Mx800 series of terminals	<ul style="list-style-type: none"> • Enhancement • The following enhancements have been added to the Mx800 series of terminals: <ul style="list-style-type: none"> Support for Pen Up timer value Terminal Power-On message Normal PIN request now uses configurable text
2. Certify Mx800 on USB	<ul style="list-style-type: none"> • Certification • The Mx800 series terminals have been certified for use though USB connection. • The USB integration requires the installation of a separate USB driver for the terminal. WinEPS terminal configuration should be confined to use the COM port that this new driver mimics. • Verifone has discovered an issue with the Revision A version of the MX cables with USB. It is recommended that the cabling with the following part numbers be used instead: <ul style="list-style-type: none"> 23998-05 REV B 23998-02 REV B • Full details on this feature are included in Section 2.
3. WIC corrections for MX PIN pads	<ul style="list-style-type: none"> • Fixed • There was a WIC issue with the MX line of PIN pads where OpenEPS was not interpreting the response from the PIN pad accurately for delivery to the POS. OpenEPS was updated to resolve this issue. • Additionally OpenEPS will now poll the MX PIN pads with query asking if the card has been removed whenever the POS polls on "CardRemoved". • The default WIC card lock prompt text for new installations of WinEPS has been updated to "Card Problem, Return to Clinic."
4. Support for the Mx860	<ul style="list-style-type: none"> • Enhancement • The Mx860 is now supported by WinEPS. • This terminal functions similarly to the other 800-series terminals. For complete information on the 800-series terminals see the <i>WinEPS User's Guide</i>.
5. MX870 not starting Card Slide action	<ul style="list-style-type: none"> • Fixed • The MX870 was not properly prompting for card slide when the Card Slide TAC was being processed. This was the result of the function that controls the card slide returning an incorrect value of FALSE. This has been corrected so the function returns TRUE as expected.

Enhancement	Description
6. Fix numeric input on Mx800 terminals	<ul style="list-style-type: none"> Fixed The Mx800 terminal series was showing erroneous characters on generic numeric entry screens if maximum length was greater than 12.
7. Clear button at PIN Entry locks up MX800 terminals	<ul style="list-style-type: none"> Fixed The Verifone MX800 series pinpads had an issues where if the "Clear" button was pressed quickly twice in a row on the pin entry screen the pin pad would lock up.
8. New 220N Terminal Code	<ul style="list-style-type: none"> Fixed The latest terminal code version 220N fixes an issue with SmartWIC PIN entry. The issue primarily affected the MX 860 terminal, but the correction has been implemented for all the 800 series terminals.

Verifone Omni 490

Enhancement	Description
1. Encrypt Track Data on PIN PAD	<ul style="list-style-type: none"> Enhancement Track data for the following terminals will now be encrypted when transferred from the terminal to the POS: Hypercom ICE5500 Hypercom ICE6000 Verifone Everest Verifone Omni 490 Verifone Omni 7000 VeriFone Vx670 When terminals are upgraded to the latest SCAT code that supports encryption, that terminal will not be able to function with previous versions of the WinEPS/OpenEPS software that do not support encryption. Similarly, if a terminal using older code is attached to a POS using 825 or later, the terminal will have to complete the automatic update process of loading the latest code before it will function.
2. Add function calls to 490, Everest, and 7000	<ul style="list-style-type: none"> Enhancement SCAT function calls for Cashier Number entry, POS Tracking Number, Date Request, and Display Request have been added to the Omni 490, Everest and Omni 7000 terminals.

Verifone Omni 7000

Enhancement	Description
<p>1. Encrypt Track Data on PIN PAD</p>	<ul style="list-style-type: none"> • Enhancement • Track data for the following terminals will now be encrypted when transferred from the terminal to the POS: Hypercom ICE5500 Hypercom ICE6000 Verifone Everest Verifone Omni 490 Verifone Omni 7000 VeriFone Vx670 • When terminals are upgraded to the latest SCAT code that supports encryption, that terminal will not be able to function with previous versions of the WinEPS/OpenEPS software that do not support encryption. • Similarly, if a terminal using older code is attached to a POS using 825 or later, the terminal will have to complete the automatic update process of loading the latest code before it will function.
<p>2. Add function calls to 490, Everest, and 7000</p>	<ul style="list-style-type: none"> • Enhancement • SCAT function calls for Cashier Number entry, POS Tracking Number, Date Request, and Display Request have been added to the Omni 490, Everest and Omni 7000 terminals.

VeriFone Vx670

Enhancement	Description
<p>1. Encrypt Track Data on PIN PAD</p>	<ul style="list-style-type: none"> • Enhancement • Track data for the following terminals will now be encrypted when transferred from the terminal to the POS: Hypercom ICE5500 Hypercom ICE6000 Verifone Everest Verifone Omni 490 Verifone Omni 7000 VeriFone Vx670 • When terminals are upgraded to the latest SCAT code that supports encryption, that terminal will not be able to function with previous versions of the WinEPS/OpenEPS software that do not support encryption. • Similarly, if a terminal using older code is attached to a POS using 825 or later, the terminal will have to complete the automatic update process of loading the latest code before it will function.

Stand Beside Code Changes

Verifone Omni 3750

Enhancement	Description
1. 3750 no longer available from Verifone	<ul style="list-style-type: none"> The 3750 terminal is no longer available from Verifone. WinEPS/OpenEPS continue to support terminal functionality. As the 3750 is no longer PED compliant; Vx570 is the replacement terminal. The Vx570 supports all the same functionality as the 3750.

Verifone Vx570

Enhancement	Description
1. Vx570 Stand Beside Support	<ul style="list-style-type: none"> New Terminal The Vx570 terminal is now supported for use with OpenEPS. The Vx570 must possess at least 4 MB of RAM; models with less than 4 MB cannot successfully load or run the required code. The part number for the 4 MB model is: P/N: M257-050-04-NA1 Where the -04- indicates 4 MB of RAM. Note: As the 3750 is no longer PED compliant; Vx570 is the replacement terminal. The Vx570 supports all the same functionality as the 3750.

485 LAN Stand Beside

485 LAN Stand Beside support has been discontinued.

Enhancement	Description
1. Discontinue Support for Stand Beside	<ul style="list-style-type: none"> Discontinued Support 485 LAN Stand Beside systems are no longer supported. This change affects the following 485 LAN integrations: IVI C2000 Protégé Verifone Everest Verifone Omni 490 The above terminals remain supported as part of the OpenEPS integration (only).

External Program Changes

Engine Monitor and Tray Icon

Enhancement	Description
1. -No Change to Engine Monitor and Tray Icon -	<ul style="list-style-type: none"> • ---

OMNI 7000 Scanmaster Code

Terminal code for the Scanmaster system is written and maintained by Concord. It is distributed on the WinEPS installation CD for convenience only.

Enhancement	Description
1. -No Change to Scanmaster Code -	<ul style="list-style-type: none"> • ---

Redundancy Service

Enhancement	Description
1. Redundancy service compatibility	<ul style="list-style-type: none"> • Fixed • Due to the update to the way that the WinEPS Service is called, the Redundancy service could no longer Start or Stop the WinEPS service for either the primary or backup server. • The redundancy service has been updated to be compatible with the latest WinEPS call methods.

UpdateXMLFiles.Exe

Enhancement	Description
1. -No Change to UpdateXMLFiles.Exe -	<ul style="list-style-type: none"> • ---

Virtual Terminal 2

Enhancement	Description
1. Pop-up after clicking on Cashier Display title bar	<ul style="list-style-type: none"> Fixed Clicking in the Cashier Display section of the Virtual Terminal GUI would pop up a box with an “Ok” button. This box was unnecessary and has been removed.
2. Check Lane.XML for configuration	<ul style="list-style-type: none"> Enhancement VT has been enhanced so that it will choose its Lane Configuration based on the setting in the Lanes.xml file. This update will prevent VT from displaying the red warning screen that indicates no tenders are present the very first time that VT is launched after installation. If the configuration file name is not found in the Lanes.xml, VT will refer to the setup.txt.
3. Department Number	<ul style="list-style-type: none"> Enhancement The new function call “DepartmentNumber” has been added to OpenEPS. This function will allow Virtual Terminal to set the department number. Virtual Terminal has been enhanced to allow the department number to be set as a command line parameter when Virtual Terminal is started. The command line parameter for department is -dept Examples: -dept:12345 -dep:ElectronicsSection For additional information about all Virtual Terminal command line parameters, see the Virtual Terminal User’s Guide.
4. Show Customer Name on screen	<ul style="list-style-type: none"> Enhancement A new option to display the customer name has been added to Virtual Terminal. The option is located in the General Tab of the configuration screen. The customer name will be displayed at the top center of the VT screen.
5. Add "Credit Card Not Present" button	<ul style="list-style-type: none"> Enhancement A new option for Display “Card Not Present” has been added to Virtual Terminal. The option is located in the General Tab of the configuration screen. If this option is selected, a “Credit Card Not Present” button will be displayed on the tender selection screen. This button will replace the standard Credit button, and when selected will begin a manual credit transaction that will skip the prompt to swipe the card on the terminal. If it is desirable to have the option to process swiped credit card transactions, it is suggested to implement the Generic EFT button. See the Virtual Terminal User’s Guide for details.

Enhancement	Description
6. Add "Print" button to display of Velocity Information	<ul style="list-style-type: none"> • Enhancement • A new option to Print Velocity Data has been added to Virtual Terminal. The configuration option is located in the General Tab of the configuration screen. • When this option is checked a "Print" button will be displayed on the velocity display screen. Clicking this button will print the velocity information to the configured printer.
7. Reprinting receipts available for whole day	<ul style="list-style-type: none"> • Enhancement • Virtual Terminal now stores the receipt information for transactions in a file instead of in memory. This allows reprinting of receipts for any transaction processed during the current day. • The receipt file is stored in the OpenEPS directory and is labeled Transactions[Lane Number].dat • Receipt information is cleared at the same time the lane journal log files are cut over: upon the first sign on after midnight.
8. Add Pre-Auth support	<ul style="list-style-type: none"> • Enhancement • The Pre-Authorization transaction type has been added to Virtual Terminal. This transaction type is available for Credit only.
9. VT incorrectly setting PostTransactionNumber for Voids	<ul style="list-style-type: none"> • Fixed • Virtual Terminal was incorrectly setting the PostTransactionNumber for Voids; VT was using the value of the last transaction instead of properly setting a new transaction number for the void transaction.
10. VT loops on void state if Transactions.dat contains void last	<ul style="list-style-type: none"> • Fixed • On first sign on, if the Transactions.dat file contained a void last transaction, Virtual Terminal would attempt to begin a void transaction and would be stuck in that state until a cancel is performed on the terminal. • This issue has been corrected so that at first sign on, VT is in a 'fresh' state that is not impacted by previous transactions.
11. VT increment next_transaction_id in VT2setup.XML	<ul style="list-style-type: none"> • Update • Previous code existed to prevent Virtual Terminal from updating its transaction ID when the option to update it was turned off. This option is no longer available and has been removed. • VT should always increment its transaction ID for each new transaction.
12. Manual Track 2 being set if card slid before cashier selects tender	<ul style="list-style-type: none"> • Fixed • When Virtual Terminal was configured to use the 'credit card not present' button option, if a card was slid on the terminal, Virtual Terminal would incorrectly set Manual Entry to OpenEPS. • This has been corrected so that VT will not automatically set manual entry for a slid card.

Enhancement	Description
13. VT locks up writing receipts with two balances	<ul style="list-style-type: none"> • Fixed • There was an error in Virtual Terminal that caused it to lock up when writing the receipt information for any receipt with two balances (such as EBT Food and Cash) to the transaction.dat file. This issue has been corrected.
14. Offline PreAuth from VT using wrong amount values	<ul style="list-style-type: none"> • Fixed • Virtual Terminal was not using the correct values when processing an offline Credit Preauthorization to the ServerEPS Direct host. • When the transaction is processed, the value now used is the value entered in Virtual terminal and not the value as set in the card processing profiles.
15. VT printer selection	<ul style="list-style-type: none"> • Fixed • Virtual Terminal allows the selection of a specific printer for receipt printing. Corrected an issue where the printer selection was being ignored and the Windows default printer was being selected instead.

Section 2

New Features

[Terminal Code Changes - Verifone MX830/MX850/MX860/MX870 #2:](#)

Mx800 Series USB Support

USB support is now offered for the Mx800 series terminals.

USB support requires the installation of a USB driver that emulates a standard COM port that allows OpenEPS to communicate with the terminal.

Install USB driver

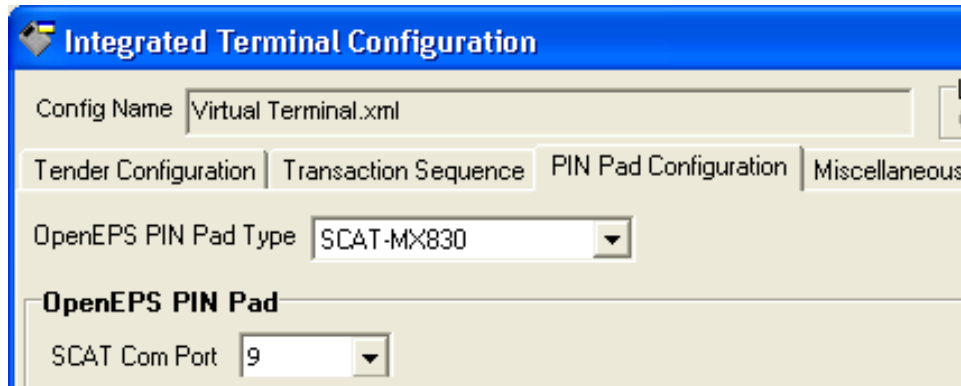
Follow the steps below to install the USB driver software.

The USB installation procedure must be completed on each POS lane.

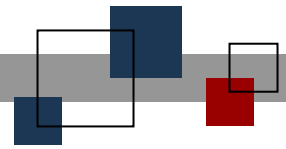
1. If you have any previous version of the USB driver software, uninstall it before proceeding.
2. Locate the installvfi.msi installation file; copy the file to a convenient location on the POS lane such as the desktop.
3. Run the installer either by double clicking it or via the command line. Doubleclicking it will start the installation process with the default COM port of 9. If you would like to use a different COM port, use the command line to specify another COM port to use.
 - Command line example:
installvfi.msi PORT=9
Substitute the desired COM port number instead of "9"
4. The installer will proceed automatically. This USB installation procedure must be completed on each POS lane.

Set Terminal Configuration to new COM port

1. Log into WinEPS.
2. Go to Site Information | Configuration | Terminal Configuration > OpenEPS Lanes. Select your configuration from the list.
3. Go to the PIN Pad Configuration Tab.



4. Verify that the OpenEPS PIN Pad Type is set to the correct terminal.
5. Click on the SCAT Com Port box. If the COM port you have selected is not in the dropdown list, click directly in the text portion of the box and enter the COM port number; this will be necessary for the default COM port of 9.
6. Save your configuration; remember to stop and restart WinEPS so the changes take effect.



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