



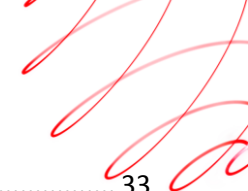
Release Notes

IPC v 2.1.6

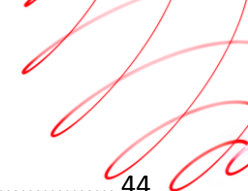


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Release information

Release Information	Details	Comments
Latest Release Version:	2.1.6	
Latest Release Date: (DD MM YYYY)	24/03/2017	
Release Type: (Interim/Initial/QA/UAT/Final Release)	Final	
Development Manager:	Rahul Verma / Vijay Patwa	
Release Approver:	Sita Yadav	

1.1. Introduction

Welcome to the Release notes for WorldPay Total solution. Read the Release Notes thoroughly before installing any IPC version as it contain detail information for features and fixes available in each release.

1.2. Features on IPC 2 v -2.1.6

- IPC-2 will support WPT European customers. Following are the configuration –

Pinpad	IPP350
Pinpad OS version	RAM 1606
Operating System	Windows 7 , Windows 8.1 , Windows 10 , Cent OS 6.5
Client POS software	IPC-2-216
Acquirer	Streamline
Countries	UK , ROI , France
Language	English , French

- IPC-2 supports Pennies Donation functionality with contact cards. This functionality is enhanced to support Pennies donation with Contactless cards also. The supported Pinpads are Verifone Vx820, IPP350 and IWL250.
- IPC-2 will prompt for card removal until the card is removed from the IPP350 PED. This feature is available with IPP350 serial and USB PEDs only. IWL-250 and IPP350-IP will work same as per previous versions of IPC-2.
- Changes to a few messages on the Intra Message port which do not comply with existing messaging standard. IPC-2 will provide a backward compatibility on two messages with old software of EVT-UK.
- IPC-2 will provide support for Flexi-Cash Mag Stripe cards with Vx820-7816 Pinpad. IPC-2 will not support CNP transactions with Flexi Cash Cards.
- IPC-2 was not sending token to Merchant POS utility in output response when transaction is referred. This issue is fixed and IPC-2 will send token to Merchant POS utility in output response when transaction is referred.

- IPC-2 was reading encrypted data from PED from two Pinpad commands and that affect some of transactions and decryption failure issue is reported from field. It is fixed now and IPC-2 will now read data from first command. This will reduce the decryption issues with Vx820 Pinpads.
- One message on Vx820 Pinpad and IPC-2 was not in sync when a contactless card is tapped and PED prompt for “Please tap/insert or try with another card”. It is fixed.

Limitations: -

- This software runs with Java version 1.8 onwards only. It is required that merchant must have JRE version 1.8 or higher installed in their system. Existing merchant's are required to upgrade their JRE version to 1.8 or higher before upgrading IPC-2-216 software or higher version.
- In French configuration on one scenario when a low value contactless card is tapped on higher amount transaction then Pinpad prompt for an English message “Please tap/insert or swipe another card” instead of a French message.

1.3. Features on IPC 2 v -2.1.5

Support for Miura M010 Pinpad with Streamline and Amex acquirers are provided in IPC-2-215.

Following are the configuration details:

Pinpad	Miura - M010
Pinpad OS version	7.7
Pinpad MPI version	1.43
System Hardware	Windows-8 Tablet
Client POS software	IPC-2-215
Acquirer	Streamline
Cards supported for Streamline acquirer	Contact - Mastercard , Maestro , Visa , Amex , Diner , JCB Contactless - Visa Paywave , Mastercard Paypass
Financial Transactions supported	Sale , Sale with Gratuity, Refund , Charge token , Refund token
Card modes	Contact chip , Mag-stripe, Contactless (Visa Paywave and Mastercard Paypass)

1.4. Features on IPC 2 v -2.1.4

1.3.1 Enhancement

- Support for IPP350 PED with RAM 1606 firmware for both Streamline and Barclaycard Merchant Services acquirers.
- High Value Contactless (HVC) support for IWL250 PED's with RAM 1606 firmware with Streamline Acquirer.

1.3.2 Bug Fixes

Sr. No.	Bug Fixes
1	A change has been done on IPC-2 to send declined response capture request to server in case of referral transaction is declined by customer.
2	Before: IPC-2 does not retry downloading EMV file from sever if downloading fails on the first attempt. After: IPC-2 will try 3 attempts for each of the following EMV, issuer, merchant and acquirer dataset files from server if downloading of files fails.

3	Before: IPC2 is randomly failing to send output response to POS application, causing IPC2 to freeze. After: IPC-2 will always send output response to POS application to avoid freezing issue.
4	Before: IPC-2 is randomly freezing on sending P2PE heartbeat request to server. After: IPC-2 will not freeze on sending P2PE heartbeat request to server.
5	<p>Before: IPC-2 was not able to upgrade software on following configuration.</p> <ol style="list-style-type: none">1. IPC-2 is installed on System directory. For Example – C directory2. Merchant creates a customized batch file which calls IPC-2 batch file to start IPC-2 software.3. Merchant place a Batch file on a directory which is different from the IPC-2 installed directory. Fox example – D directory.4. Merchant creates a shortcut of customized batch file on Windows start-up and start the System.5. Windows start-up runs customized batch file of Merchant which calls IPC-2 batch file and start IPC-2.6. IPC-2 starts and process transactions.7. Merchant request Worldpay support to enable software upgrade functionality on Merchant ID.8. Worldpay support enables the software upgrade flag on Merchant ID.9. Merchant restarts the system which start IPC-2.

	<p>10. IPC-2 fails to upgrade software.</p> <p>Reason for failure: IPC-2 was not able to locate correct path of files.</p> <p>Fixed: IPC-2 will locate the correct path and will upgrade the software on this scenario.</p>
6	<p>Before: IPC-2 was failing to upload the transaction log file on server.</p> <p>Scenario:</p> <ol style="list-style-type: none">1. During transaction IPC-2 randomly missing some data from PED.2. IPC-2 communicates with server for authorization and settlement record submission with incomplete data.3. Server rejects the request.4. IPC-2 stores the request locally at merchant end.5. IPC -2 periodically uploads the request to server which server rejects again.6. Merchant doesn't see the record of particular transaction on Billing and Administration.7. Merchant reports for lost transaction or failing to upload transaction to Worldpay support team. <p>Reason for failure: IPC-2 was randomly missing some data and send incomplete data to server. That causes server to reject the request and no record is created on server.</p> <p>Fixed: IPC-2 will attempt three times to receive full data if some data is missing from PED. IPC-2 will cancel transaction if data is not correctly received on three attempts also.</p>



1.4 Features for release IPC 2 v -2.1.3

1.4.1 Bug Fixes

Sr. No.	Bug Fixes
1	<p>Before: Visa Debit cards with domestic cash back enabled and international cash back disabled prompt for cash back if used internationally.</p> <p>After: Visa cards with domestic cash back enabled and international cash back disabled should not prompt for cash back if used internationally.</p>
2	<p>Before: IPC-2-212 is cancelling transaction if a chip card is swiped at prompt for card insertion/swipe with Ingenico PEDs.</p> <p>After: IPC-2-213 will re-prompt for card insertion/swipe if a chip card is swiped at prompt for card insertion/swipe with Ingenico PEDs.</p>
3	<p>Before: IPC-2 is sending wrong pin pad tracking number (PED serial number) with Vx820 PED on P2PE request.</p> <p>After: IPC-2 will send correct pin pad tracking number (PTID number) with Vx820 PED on P2PE request.</p>

4	Before: IPC-2 is not sending "Receipt Number" in Charge wallet refund request to server. After: IPC-2 will send "Receipt Number" in Charge wallet refund request to server.
5	Before: IPC-2-212 is printing key change data on command prompt. After: IPC-2-213 will not print key change data on command prompt.

1.5 Features for release IPC 2 v -2.1.2

1.5.1 Support for P2PE and Non-P2PE Merchants

IPC-2-212 version has two separate installers to support the P2PE and Non-P2PE merchants.

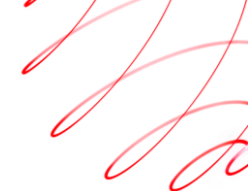
P2PE Installer: - It will only initialize with P2PE merchants and abort Non-P2PE merchants. The SRED active PEDs of VeriFone Vx820 firmware version 4.0.5.6 only and Ingenico IPP350 are supported with it.

Non-P2PE Installer: - It will initialize with non-P2PE merchant only. SRED enabled or disabled both PEDs will initialize with this installer. Ingenico IPP350 and IWL-250 PEDs are supported with it.

VeriFone Vx820-7816 encrypted PEDs with firmware version 4.0.5.6 only are supported.

The existing non-P2PE merchants can be converted in to P2PE merchants by following P2PE boarding process and then upgrading the software to IPC-2-212 version.

Firmware upgrade will have capability for Ingenico PEDs (IPP 350 version 2) to support firmware upgrade



1.5.2 From RAM 0901 to RAM 0973

- From RAM 0520 to RAM 0973

1.5.3 Merchant Image Display on PED

IPC-2-212 will support Merchant's logo on VeriFone Vx820 PED and Merchant's image/slide show on Ingenico IPP350 PED.

1.5.4 Bug Fixes/Enhancement

Sr. No.	Bug Fixes/Enhancement
1	<p>Before: Authorization code entry at referral UI is configurable from configuration utility and it can be configured to process transaction without authorization code entry at referral window.</p> <p>After: Removed configuration option of authorization code from referral window. IPC will process transaction only if authorization code is entered at referral window. It is a generic change and it is applied on all PEDs.</p>
2	<p>Before: Multiple Fall-backs Chip to Swipe to Keyed is permitted with Ingenico PED.</p> <p>After: Single Fall-back Chip to Swipe and Swipe to Keyed are permitted with Ingenico PEDs.</p>

3	<p>Before: Pin By pass functionality is supported.</p> <p>After: Pin By pass functionality support is removed. It is a generic change and it is applied on all PEDs.</p>
4	<p>Before: When multiple contactless cards are tapped simultaneously with Ingenico PEDs, IPC-2 is cancelling the transaction and freezing.</p> <p>After: When multiple contactless cards are tapped simultaneously with Ingenico PED then PED will display for "Please tap single card" and IPC-2 will wait for re-tapping of card.</p>
5	<p>Before: When AVS rules are turned off and a CNP request is placed using Intra Message PORT, IPC-2 is sending blank response in field 3 as 2=407 3= 99=0</p> <p>After: When AVS rules are turned off and a CNP request is placed using Intra Message PORT, IPC-2 will send response in field 3 as 2=407 3="Address and Zip Code are not mandatory" 99=0</p> <p>It is a generic change and it is applied on all PEDs.</p>
6	<p>Before: When a 12 digit card number is entered during CNP transaction, IPC-2 is showing an error message that card is not valid and cancelling the transaction.</p> <p>After: When a 12 digit card number is entered during CNP transaction, IPC-2 will allow the transaction and process as per CNP rules. It is a generic change and it is applied on all PEDs.</p>

7	<p>Before: When a connection between IPC-2 and PED is lost then IPC-2 is not sending message of "Check COM PORT Connection" on intra message port.</p> <p>After: When a connection between IPC-2 and PED is lost then IPC-2 will send message of "Check COM PORT Connection" on intra message port.</p> <p>It is a generic change and it is applied on all PEDs.</p>
8	<p>Before: IPC-2 is cancelling the transaction with MIURA PED when a commercial card is used.</p> <p>After: IPC-2 will process the transaction with MIURA PED when a commercial card is used.</p>
9	<p>Before: If IPC is running and then the pinpad is removed and another pinpad is plugged to the till which do not have encryption keys, then when we try to process transactions, we are able to process transactions.</p> <p>After: IPC-2 P2PE installer will not process the transaction with the Non encrypted PED if they are connected when IPC is running with IPP350 and Vx820 PEDs.</p>
10	<p>Before: IPC is returning a response of check status 3=43 99=0 but response is mentioned in Integration guide 2=34 3=43 13=22980045 98=1234 99=0</p> <p>After: IPC is returning the correct response and Integration guide is updated with correct response.</p> <p>It is a generic change and it is applied on all PEDs.</p>

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Before: When multiple contactless cards are provided once followed by a single contactless card, the transaction is getting cancelled. This is an intermittent issue with IPP350 PED.

After: If two contactless cards are presented with IPP350 PED then PED will prompt for single card tapping. After this if a single card is tapped for second time then IPC will process the transaction.

1.5.5 Know Items:

Item 1:

Firmware and software upgrade does not work when IPC StartPOSServer.bat from Window startup

Workaround: Use the below command in script.bat file.

```
cd C:\YESEFT
```

```
call C:\YESEFT\StartPOSServer.bat
```

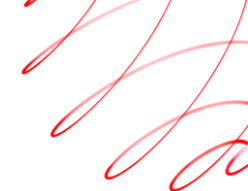
Item 2:

For Merchant image display on PED's, if multiple images are getting uploaded and PED gets disconnected or Power Supply is switched off then after re-connecting it , it might happen that not all images have been loaded. This issue is with IPP350 PED.

Workaround:- To re-connect PED cable and restart IPC-2 when cable is disconnected from IPP350 PED during image download process. In this case IPC-2 will add image on PED after restart.

1.5.6 Limitation:

iWI250 is supported for contact only.



1.6 Features and Enhancement for release IPC 2 v -2.1.0

The new version of IPC-2-210 has following changes/fixes.

1. Enhances the check card functionality to support SVC gift card with whitelist injected PEDs of Vx820-7816.
2. Bug fixes of previous versions of IPC-2.

All the features of previous release version of IPC-2-201 are supported in this version. IPC-2-201 and IPC-2-210 both are P2PE version of IPC and non P2PE PEDs of Ingenico and Verifone are not supported with these versions.

1.6.1 Whitelist Change Description

IPC-2-210 version enhances the check card functionality to return plain PAN number in output response for SVC gift cards.

When a check card request is performed with SVC cards whitelist ranges injected in Vx820-7816 PED and SVC gift cards is used and card scheme doesn't have ranges of SVC cards then IPC-2-210 will return full PAN number in response. If any condition's doesn't match then IPC-2 will return masked PAN number.

1.6.2 Whitelist Configuration

OS	Windows 8	
Environment	Retail	
PIN Pad	Vx820 (Whitelist injected)	
Cards	SVC gift cards	
Cards range	600176	

Transaction type	Check Card	
------------------	------------	--

1.6.3 Bug Fixes/Enhancement

Following are the list of bug fixes - :

Sr. No.	Fixes
1	<p>Issue Description: - When a chip card is swiped and there is no card in slot, IPC was showing remove card on PED and UI with Vx820-7816 PED.</p> <p>Fixed: - When a chip card is swiped and there is no card in slot, IPC will not show remove card on Vx820-7816 PED and UI.</p>
2	<p>Issue Description: - IPC mag stripe reader is on during a chip transaction and user swiped the card at remove card stage of chip transaction. IPC removes remove card message and start processing swipe transaction. This issue occurs with Vx820-7816 PED only.</p> <p>Fixed: - IPC disabled the mag-reader at remove card stage to avoid this scenario with Vx820-7816 PED.</p>
3	<p>Issue Description: - Referral transaction displays on UI and PED was inconsistent for chip and swipe cards with Vx820-7816 PED only..</p> <p>Fixed :- Referral transaction displays are corrected and they are now consistent for chip and swipe cards with Vx820-7816 PED.</p>

4	<p>Issue Description: - For rejected signature verified transaction IPC returned authorization code in response message. It is a generic change and will apply with all PEDs.</p> <p>Fixed :- For rejected signature verified transaction IPC will not return authorization code in response message. It is a generic change and will apply with all PEDs.</p>
5	<p>Issue Description :- When card is having available offline spending amount ,IPC was not printing in card holder receipt and not returning in output response with Ingenico PEDs.</p> <p>Fixed:- When card is having available offline spending amount , IPC will print it in card holder receipt and also return in output response with Ingenico PEDs.</p>
6	<p>Issue Description:- When a contactless card is not accepted and Vx820-7816 PED prompt for tapping again but the PED tap reader gets timed out then user is not able to tap the card.</p> <p>Fixed:- When a contactless card is not accepted and Vx820-7816 PED prompt for re-tap and the PED tap reader gets timed out then IPC restart the reader mode and user can tap the card.</p>
7	<p>Issue Description: - When chip card is inserted in the Vx820-7816 PED during a Sales transaction, intermittently PED displays "Card not accepted" and POS displays "EFT request Cancelled".</p> <p>Fixed:- When chip card is inserted in the Vx820-7816 PED during a Sales transaction, IPC will process the transaction as per card behaviour.</p>

8	<p>Issue Description: - During Refund transaction when “TAP” is failed and a valid CHIP card is used to complete the transaction Vx820-7816 PED displays “Approved OK” for split second Followed by “cancelled”.</p> <p>Fixed :- During Refund transaction when “TAP” is failed and a valid CHIP card is used to Complete the transaction Vx820-7816 PED will display “Approved OK” and complete the transaction.</p>
9	<p>Issue Description: - UI cancel button is enabled during pin entry prompt with Vx820-7816 PED.</p> <p>Fixed :- UI cancel button is disabled during pin entry prompt with Vx820-7816 PED.</p>
10	<p>Issue Description: - When a Refund transaction is initiated with card already in the Vx820-7816 PED and the card is removed when transaction is authorizing, PED flashes Verifone version/Cancel message followed by present card screen and IPC UI disappears.</p> <p>Fixed :- When a Refund transaction is initiated with card already in the Vx820-7816 PED and the card is removed when transaction is authorizing, PED will display “Please Wait” and transaction will complete.</p>
11	<p>Issue Description: - During sales/refund transaction when the insert is failed to fall back to swipe , Vx820-7816 PED is taking 4 failed swipes to cancel the transaction instead 3.</p> <p>Fixed :- During sales/refund transaction when the insert is failed to fall back to swipe , IPC will only allow 3 failed swipe attempt with Vx820-7816 PED.</p>
12	<p>Issue Description: - When refund transaction is performed and Amex card is tapped and it fall forward to “insert or swipe card”. User swiped with Amex card and then IPC is prompting again to “Tap card” with Vx820-7816 PED.</p> <p>Fixed :- When refund transaction is performed and Amex card is tapped and it fall forward to “insert</p>

	or swipe card". User swiped with Amex card and IPC will process the swipe card flow.
13	<p>Issue Description :- IPC/PED indicates to Swipe the card for instead of Cancelling immediately, when during Sales transaction , Chip card is inserted in Vx820-7816 PED and "Cancel" button on IPC is selected at the same time.</p> <p>Fixed :- IPC/PED will cancel transaction, when during sales if Chip card is inserted in Vx820-7816 PED and "Cancel" button on IPC is selected at the same time.</p>
14	<p>Issue Description: - IPC takes extra 20 sec when transaction is cancelled after Chip card is inserted in Vx820-7816 PED and "Cancel" button on IPC is selected at the same time.</p> <p>Fixed: - IPC will cancel transaction immediately when Chip card is inserted in Vx820-7816 PED and "Cancel" button on IPC is selected at the same time.</p>
15	<p>Issue Description: - For Stand in offline approved sales transactions IPC is logging "Approved online". It is a generic issue with all PEDs.</p> <p>Fixed: - For Stand in offline approved sales transactions IPC will log "Approved by Stand In Rules". It is a generic fix for all PEDs.</p>
16	<p>Issue Description: - During lost connectivity, there is a random scenario on which IPC is cancelling transaction and unable to load transaction log files. The logging message is "Premature end of files". It is a generic issue with all PEDs.</p> <p>Fixed: - IPC will be able to load transaction log files during lost connectivity with server and transaction will process as per the behaviour.</p>

	It is a generic fix for all PEDs.
17	<p>Issue Description: - During refund transaction with flexi-cash supported card IPC is prompting for "Accept/Reject" in UI but printing NOCVM in receipt and return output response 14=8. It is a generic issue with all PEDs.</p> <p>Fixed: - During refund transaction with flexi-cash supported card IPC will prompt for "Accept/Reject" in UI and will print signature verified in receipt and output response 14=1. It is a generic fix for all PEDs.</p>
18	<p>Issue Description:- After upgrade the software version(IPC) "Upgrade Successfully" alert message display on IPC window but After upgrade the PED firmware version "Upgrade Successfully" alert message or "Upgrade Successfully " text not display on IPC window.. It is a generic issue with all PEDs.</p> <p>Fixed: - For Software and PED firmware in both case "Upgrade Successful" alert message should be displayed on IPC window. It is a generic fix for all PEDs.</p>
19	<p>Issue Description: - Amex ANSI card transaction is cancelled by IPC due to failure in service code verification. It is a generic issue with all PEDs.</p> <p>Fixed: - Amex ANSI card verification for service code will be successful and transaction will be process by IPC. It is a generic fix for all PEDs.</p>
20	<p>Enhancement: - Added merchant transaction reference number in authorization request. It is a generic fix for all PEDs.</p>
21	<p>Enhancement: - IPC returns token in output response field 61 when it receives from server for approved transaction. IPC is enhanced to return token in field 61 in output response when it receives declined or referral response from server.</p>

22	Enhancement: - IPC will return plain PAN number in response of check card transaction when Whitelist range injected with Vx820-7816 PED is used with whitelist range card.
23	Issue Description: - IPC is not displaying Cancelled message on Vx820-7816 PED and UI when “Insert or swipe card” command timed out. Fixed: - IPC will display Cancelled message on Vx820-7816 PED and UI when “Insert or swipe card” command timed out.
24	Issue Description: - IPC is waiting for 30 seconds to cancel transaction when low value card is tapped for higher amount transaction and Vx820-7816 PED prompt for re-tapping card and cancel button is pressed on IPC UI. Fixed: - IPC will cancel transaction when low value card is tapped for higher amount transaction and Vx820-7816 PED prompt for re-tapping card and cancel button is pressed on IPC.
25	Issue Description: - When internet is disconnected but LAN is connected then connection timeout of IPC was not occurring in 5 seconds. It is a generic issue with all PEDs. Fixed: - When internet is disconnected but LAN is connected then connection timeout of IPC will occur in 5 seconds. It is a generic fix for all PEDs.
26	Issue Description: - When net is disconnected and IPC is configure for stand in rules then IPC is log message prints “approved online”. Fixed: - When net is disconnected and IPC is configure for stand in rules then IPC will log message print “approved by stand in rules.” It is a generic fix for all PEDs.
27	Issue Description: - When Chip card is inserted in Vx820-7816 PED and “Cancel” button on IPC is



	<p>selected at the same time then IPC/PED indicates to Swipe the card.</p> <p>Fixed: - When Chip card is inserted in Vx820-7816 PED and “Cancel” button on IPC is selected at the same time then IPC will cancel transaction.</p>
28	<p>Issue Description: - When transaction is cancelled after Chip card is inserted in Vx820-7816 PED and “Cancel” button on IPC is selected at the same time then randomly IPC is taking extra 30 seconds to cancel transaction.</p> <p>Fixed: - When transaction is cancelled after Chip card is inserted in Vx820-7816 PED and “Cancel” button on IPC is selected at the same time then IPC will cancel transaction immediately.</p>
29	<p>Issue Description: - During a sale transaction with VISA Contactless cards, Available offline Spending Amount (AOSA) is not printed in the receipt. It is a generic issue with all PEDs.</p> <p>Fixed: - When a transaction is performed with contactless cards and it contains Available offline Spending Amount (AOSA) then IPC will print “Balance: (Amount)” in receipt and also add that in output response under “77” field. It is a generic fix for all PEDs.</p>
30	<p>Issue Description: - IPC is logging full unmasked SVC card number in logger, when SVC card is swiped through Vx820-7816 PED.</p> <p>Fixed: - IPC will not log full unmasked SVC card number in logger, when SVC card is swiped through Vx820-7816 PED.</p>
31	<p>Issue Description: - During SVC issue transaction when SVC swipe is failed and Vx820-7816 PED is left Idle for 15 seconds, IPC UI and PED message are not in synch. IPC shows "TXN TIMEOUT" and PED</p>

	<p>remains on "Misread of Card Swipe again".</p> <p>Fixed: - During SVC issue transaction when SVC swipe is failed and Vx820-7816 PED is left Idle for 15 seconds, IPC UI and PED message will be in sync and will show "Cancelled".</p>
32	<p>Issue Description: - POS displays "Account Number invalid" when SVC swipe is failed for SVC issue transaction and valid SVC card is re-swiped on Vx820-7816 PED again after 15 seconds. IPC shows "TXN TIMEOUT" and PED remains on "Misread of Card Swipe again"</p> <p>Fixed: - IPC will not allow the second card to be swiped again on same transaction when first card is invalid. IPC will cancel the transaction.</p>
33	<p>Issue Description: IPC UI is not displaying "Cancelled" when "Cancel" button is selected on the IPC after initiating any SVC transactions.</p> <p>Fixed: IPC UI will display "Cancelled" when "Cancel" button is selected on the IPC after initiating any SVC transactions.</p>

1.6.4 Limitation

1. IPC Limitation with Vx820 -Gratuity, Pennies and DCC is not supported.
2. IW1250 support for contact only.

1.7 Features and Enhancement for release IPC 2 v -112

Sr. No.	New Implementation
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1	Issue: When a refund transaction is performed with contact or contactless card, wrong expiry date is sent to acquirer by IPC-2. It is a random issue.
	Fixed: When a refund transaction is performed with contact or contactless card, IPC-2 will send the correct expiry date to acquirer.
2	<p>Issue: - When the access permission of transaction log file is denied and server is not connected then IPC-2 is not able to store transaction data in log file.</p> <p>Fixed: - When the access permission of transaction log file is denied and server is not connected then IPC-2 will forcefully change the permission of transaction log file and will store the transaction data.</p> <p>Limitation :- This issue is fixed if transaction log file read, write or execute permission is denied but If transaction log file full control permission is denied then IPC-2 will not able to store transaction</p>
3	<p>Issue: - When IPC-2 is configured on intra message port and swipe transaction is performed then IPC-2 is rejecting the transaction on signature verification message communication.</p> <p>Fixed: - When IPC-2 is configured on intra message port and swipe transaction is performed then IPC-2 will approve or reject the transaction on signature verification message communication as per the response returned by POS.</p>
4	<p>Issue: - When IPC-2 is configured for DCC and VAT in socket mode then IPC-2 is not sending the VAT refund voucher on socket.</p> <p>Fixed: - When IPC-2 is configured for DCC and VAT in socket mode then IPC-2 will send the VAT refund voucher on socket.</p>



5	<p>Issue: - When Firmware Upgrade with IPP350 PED with RAM version 0598 and 0901 is performed by IPC-2 and PED restart after loading firmware package, then IPC-2 is not able to initialize as reconnection is not done with PED. .</p> <p>Fixed: - When Firmware Upgrade with IPP350 PED with RAM version 0598 or 0901 is performed and PED restart after loading firmware package, then IPC-2 will be able to initialize and reconnect with PED successfully.</p>
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1.7.1 Known Item:

Firmware and software upgrade does not work when IPC StartPOSServer.bat from Window startup

Workaround: Use the below command in script.bat file.

```
cd C:\YESEFT
```

```
call C:\YESEFT\StartPOSServer.bat
```

1.7.2 Limitation:

IWL250 is supported for contact only.

1.8 Features and Enhancement for release IPC 2 v 1.1.1

1.8.1 Enhancements

Sr. No.	New Implementation
1	While firmware package downloading from server, IPC do not verifies the checksum of the package. It is fixed.
2	When "88" response is received from server for capture transaction request then IPC do not stores the capture request. It is fixed

3	Logger message are overlapping in default and on instance. It is fixed.
4	New certificates with EMBOSS connections are added in Installer.
5	Software/Firmware upgrade was not working in semi-attendant mode. It is fixed.

1.9 Features and Enhancement for release IPC 2 v 1.0.3

1.9.1 Important Changes.

Sr. No.	Incidents /Changes	New Implementation	Fixes												
1	PRF-YP0812	DCC transactions are supported for chip, stripe and keyed mode.	PAN Sequence number has been changed from 3 digits to 2 digits in receipts for DCC chip transactions only.												
2	Contactless limit changes in terminal.CTLS.em v.properties file		<div>Change in values of contactless transaction limits. Changed limits are :-</div> <table><tr><td>Limits</td><td>Master Card</td><td>VISA</td></tr><tr><td>Floor</td><td>20- >20.01</td><td>15</td></tr><tr><td>CVM</td><td>30</td><td>30- >30.01</td></tr><tr><td>On-device CTLS Txn</td><td>99999.98</td><td>0</td></tr></table>	Limits	Master Card	VISA	Floor	20- >20.01	15	CVM	30	30- >30.01	On-device CTLS Txn	99999.98	0
Limits	Master Card	VISA													
Floor	20- >20.01	15													
CVM	30	30- >30.01													
On-device CTLS Txn	99999.98	0													

			No on-device CTLS txn	30	99999.98
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1.9.2 Limitation:

1. IPP350-IP, IWL250 PED is not able to reconnect with IPC-2 in ingenico firmware 973 when socket connection is broken in network. The work around for it to restart the PED.
2. There is no limit for entry attempt of card number & expiry date through IPP350, IPP350-IP and IWL250 PED.
3. IPC-2 won't display chip, swipe or contactless fall-back message on GUI with IPP350 and IWL-250 PED due to no control return from PED to IPC-2.
4. If connection is broken with IPP350, IPP350-IP and IWL-250 PED after insert/swipe card command and before remove card command then IPC-2 reconnects PED at next request but the next transactions get cancelled due to PED limitation. It will start working from second transaction.

1.9.3 Open Issue.

1. *Some GUI messages are larger than the screen text field allowed character size. To fit these messages on screen there is a change in font size for that particular message.*
2. For completion transaction there is no CVM method printing in receipt.

3. IPC-2 prints default acquirer ID in receipt of completion transaction for Amex card instead of Amex acquirer ID.
4. IPC-2 displays improper font size of messages on IPC-2 window if the text message is longer than the number of allowed character.
5. Completion transactions are not working with few chip cards which doesn't have PAN Seq no. with it.

1.10 Features and Enhancement for release IPC 2 v 1.0.2

1.10.1 Important Changes

Sr. No.	New Implementation
1	Added support of HVC transaction for Paypass and Paywave cards.
2	Added functionality for download CTLS file from server (EMBOSS).
3	Added control of sound ON/OFF though configuration at the time of Keyed details.
4	Changed the Gratuity prompt order. It will appear prior to "Please TAP/INSERT/SWIPE card" message.
5	Signature verification is removed in refund transaction.
6	Modified the input request validation to allow special characters in transaction reference field

1.10.2 Limitation

1. IPP350-IP, IWL250 PED is not able to reconnect with IPC-2 in ingenico firmware 973 when socket connection is broken in network. The work around for it to restart the PED.
2. There is no limit for entry attempt of card number & expiry date through IPP350, IPP350-IP and IWL250 PED.

3. IPC-2 won't display chip, swipe or contactless fall-back message on GUI with IPP350 and IWL-250 PED due to no control return from PED to IPC-2.
4. If connection is broken with IPP350, IPP350-IP and IWL-250 PED after insert/swipe card command and before remove card command then IPC-2 reconnects PED at next request but the next transactions get cancelled due to PED limitation. It will start working from second transaction.
5. DCC with VAT is not supported with chip cards.

1.11 Features and Enhancement for release IPC 2 v 1.0.1

1.11.1 Important Changes

Sr. No.	Incidents /Changes	New Implementation
1	PRF-802	Migrated from US server to UK server with Wordplay US acquirer
2	PRF-802	Added support of swipe fall-back with Worldpay US.
3	PRF-802	URL.property file has been removed from installer; URL will be change manually in both eftdataset-api-client and epos-api-client file.
4	PA-DSS	Added terminal ID in the logger messages.
5	PA-DSS	Removal of CardDetail from capture request.
6	PA-DSS	set Hash value of PAN number to zeros in response field 59.
7	PA-DSS	Removed JRE from EasyV Installer. EasyV will use JRE of system.
8	PA-DSS	Enhanced the input request validations.
9	PA-DSS	Changed encryption method for encrypting offline transaction.
10	PA-DSS	Added functionality that facilitates a merchant's ability to assimilate the logs into a central logging server.
11	PA-DSS	Added log entries in system event for Opening & Closing log files, start of

		transaction, transaction type, amount and completion of transaction.
12	PA-DSS	Fixed OS injection related issues
13	PA-DSS	Changes for pan no. in the cancel and completion transaction request for emboss. Pan no. will go as masked.
14	PA-DSS	Change the Pan no. expiry date and CVV fields display as masked by "*" in CNP window.
15	PA-DSS	Added the input validation on zip code , address1 and address2 fields on GUI of CNP window.

1.11.2Limitation

1. IPP350-IP PED is not able to reconnect with IPC-2 when socket connection is broken in network. The work around for it to restart the PED.
2. There is no limit for entry attempt of card number & expiry date through IPP350, IPP350-IP and IWL250 PED.
3. IPC-2 does not display chip fall-back message on GUI with IPP350 and IWL-250 PED due to no control return from PED to Easy-V.
4. If connection is broken with IPP350, IPP350-IP and IWL-250 PED after insert/swipe card command and before remove card command then IPC-2 reconnects PED at next request but the next transactions get cancelled due to PED limitation. It will start working from second transaction.
5. Card blocked message will not display in Miura PED due to PED limitation.
6. Easy-V cancel transaction in intra message communication mode when no authorization code is entered at referral prompt as there is no clear reason that it's been coming blank by integrators application.

1.11.3Open Issues

1. Some GUI messages are larger than the screen text field allowed character size. To fit these messages on screen there is a change in font size for that particular message.
2. For completion transaction there is no CVM method printing in receipt.

3. IPC-2 prints default acquirer ID in receipt of completion transaction for Amex card instead of Amex acquirer ID.
4. IPC-2 displays improper font size of messages on IPC-2 window if the text message is longer than the number of allowed character.
5. MasterCard Req06 and Introper- 23 both cards prompts for re-enter of pin with Miura PED.
6. Completion transactions are not working with few chip cards.

1.12 Features and Enhancement for release IPC 2 v 1.0.0

1.12.1 Important changes:

PA-DSS changes :

- 1) Added terminal ID in the logger messages.
- 2) Removal of CardDetail from capture request.
- 3) set Hash value of PAN number to zeros in response field 59.
- 4) Removed support for Gift Card transactions.
- 5) Removed JRE from EasyV Installer. EasyV will use JRE of system.
- 6) Enhance the input request validations.
- 7) Changed encryption method for encrypting offline transaction.
- 8) Added functionality that facilitates a merchant's ability to assimilate the logs into a central logging server.
- 9) Removed test output from Easy-V console.
- 10) Added log entries in system event for Opening & Closing log files, start of transaction, transaction type, amount and completion of transaction.



- 11) Fixed OS injection related issues.
- 12) Removed PAN Number and track2Data from pinpad command's response in logger.
- 13) Added relaxed encryption changes for IPP350 and IWL250 PED to avoid storing full encrypted track 2 Data.
- 14) Changes for pan no. in the cancel and completion transaction request for emboss. Pan no. will go as masked.
- 15) Change the Pan no. expiry date and CVV fields display as masked by "*" in CNP window.
- 16) Added the input validation on zip code , address1 and address2 fields on GUI of CNP window.

1.12.2 Configuration utility 1.0.0

- 1) Removal Hospitality Tab for YESEFT Configuration.

1.13 Features and Enhancement for release 3.4.4.6

1.13.1 Important Changes.

Sr. No.	Fixes
1	Before: A random issue of wrong expiry date send by Easy-V-Global to server. After: It is fixed. Easy-V-Global will send correct expiry date to server.

1.14 Features and Enhancement for release 3.4.4.4

1.14.1 Enhancements

- 1) Added contactless transaction in semi-attended mode.



- 2) Added cashback transaction in semi-attended mode.
- 3) Added support of Proxy server for IPP350 & iWL250.
- 4) Added support of intra port message communication for IWL-250.
- 5) Added support of Lan based IPP350-IP PED for reatil and stand alone environment.

1.14.2 Corrections:-

- 1) Fixed issue of removing amount field in output.txt, when we cancel check card transaction.
- 2) Removed track2Data printing in command window with IPP350 and IWL250.
- 3) Added "Please Remove Card" message on EasyV window for checkcard with False using chip card.
- 4) Fixed issue of German message is not appearing in in AVS details window.
- 5) Fixed issue of wrong MID printing in receipt when multiple acquirer is selected.
- 6) An issue of EasyV UI with referral prompt. EasyV drops from full screen to non full screen. It is fixed.
- 7) Fixed issue of CNP transaction with intra message port communication.
- 8) Fixed issue of clear message after remove card message in intra message port communication.
- 9) Fixed issue to set floor limit scheme vice for Offline transactions in contact transaction.
- 10) Fixed issue of completion transaction is missing PGTR and reference in output.txt.
- 11) Fixed issue of missing card brand (Mastercard or Visa etc.) printing in completion.
- 12) removed balance amount display on pinpad ,UI & receipt.
- 13) Fixed issue with Offline transactions, For Visa card transactions, Amex TACs were being sent by easy-v.
- 14) Fixed issue of proper message is not displaying on AVS confirmation window for German language.



- 15)Fixed issue of tab functionality is not working on AVS EasyV window when we select "AVS non mandatory+CVV & postcode match AVS rule.
- 16)Fixed issue of missing "Card blocked " message display on GUI and PED for blocked card.
- 17)Fixed issue of no "Remove card" message on "accept/reject" window on PED when refund is performed.
- 18)Fixed issue of Miura test PED. EasyV was not able to initialize test PED in previous version.
- 19)Removed the delay in continue button for IWL250 PED.
- 20)Fixed issue of allow offline processing of transacation when EasyV receives null response from server.
- 21)Fixed an issue of EasyV was not able to send capture request due to an error in writing in status file.
- 22)Improve the connection recovery message with IWL-250 PED.
- 23)Accreditation fix to allow Maestro card with service code 100 to go online.
- 24)Fixed an issue of sending capture request if transaction is reversed by EasyV.
- 25)Fixed an issue of EasyV asking for keyed entry after fallback from swipe to keyed in intra message port communication.
- 26)UI buttons of EVT window is not proper in German language.
- 27)Fixed message display for german language for pennies transaction.
- 28)Message in not appearing in German,when we click on textbox field for Issue no. & Startdate. It is fixed.
- 29)Fixed an issue of "Card blocked" message is not appearing on EVT & pinpad with ADVT 29 card.
- 30)Corrected an error message when another instance is being initialized upon an already initialized Easy-V.
- 31)Fixed an issue of swipe transaction getting decline when no response is received from server. It will ask for referral now.
- 32)Fixed an issue of wrong POS entry mode is populating for Contactless EMV in output.txt.
- 33)Fixed an issue of Transaction gets canceled, if we do not enter Address & zip code in intra message.



- 34)Fixed an issue of no message is appearing on EVT window for transction above ceiling limit.
- 35)Fixed an issue of asking of cashback entry if amount is more then cashback limit.It will ask for 3 times now.
- 36)Fixed wrong amount display on MIURA TEST PED screen with check card(false) transaction.
- 37)Fixed an issue of transaction not getting cancel for swipe fallback with Miura.
- 38)Fixed an issue of transaction reference field is not appearing in output.txt for Cash transaction.
- 39)Fixed an issue of Address1 level is not proper aligned with other levels on EVT window for CNP transaction.
- 40)Fixed an issue of no message appears on listening port(8000),when we accept Swipe to keyed fallback.
- 41)Fixed an amount field appears in output.txt, if we cancel the check card request from EVT & pinpad.
- 42)Fixed an issue of transaction gets canceled,if we do not enter AVS details for CNP refund transaction in intra message.
- 43)Added a parameter to cancel the transaction at the initial level in Intra message functionality.
- 44)Fixed an issue of transaction time out message is not appearing on listening port in Intra message functionality.
- 45)Fixed an issue of no handling on listening port(8000) for chip fallback transaction in intra message funcionality.
- 46)Fixed an issue of Worldpay logo is cutting on Edges in EVT window.
- 47)Fixed an issue of wrong transaction result in response with check card transaction.
- 48)Fixed an issue of card inactivity timeout is not effected in "Insert or swipe card". It will be timeout as per configuration.

1.14.3General Notes : -

- 1) Some Gui messages are larger then the screen text field allowed character size. To fit these messages on screen there is a change in font size for that particular message.
- 2) Easy-V can't print merchant ID for wallet transaction and Emboss ID will be printed in place of it. For wallet transaction



3) Easy-V can't get PAN no. and due to that it can't search for which MID belongs to wallet no.

1.14.4Limitation :-

1) Lan based IPP350-IP PED is not able to reconnect the PED when it socket connection is brake in network.

Merchant need to restart PED to re-establish connection with Easy-V.

2) There is no limit for entry attempt of cardno. & expiry through IPP350 and IWL250 PED

3) Easy-V won't display chip fallback message on GUI with IPP350 and IWL-250 PED due to no control return from PED to Easy-V.

1.14.5Configuration utility 3.4.4.4

1) Added iPP350-UK-CTLS PED in pinpad list for semi-attended mode.

1.14.6Corrections:-

1) Fixed issue of Change needed to correct gui issue if printer name length is high in configuration utility.

2) Fixed issue of Ok button is not working if we don't press apply button before.

1.15 Feature and Enhancements for release 3.4.4.3

1.15.1Important changes:

NA

1.15.2 Configuration utility 3.4.4.3

NA

1.15.3 Correction:-

- 1) Unable to configure IWL-250 PED when no COM port is available or no COM port is enabled in system. It is Fixed.

1.16 Features and Enhancement for release 3.4.4.2

1.16.1 Important changes:

NA

1.16.2 Correction:-

- 1) Auto-Upgrade functionality is not working in previous versions of 3430,3440 and 3441. It is Fixed.

1.17 Features and Enhancement for release 3.4.4.1

1.17.1 Important changes:

NA

1.17.2 Correction:-

- 1) Fixed issue of refund transaction canceled with Live MIURA PED.



1.18 Features and Enhancement for release 3.4.4.0

1.18.1 Important changes:

UK 3.4.4.0

1.18.2 Enhancements:-

- 1) Added german language support in Easy-V for UK.
- 2) Added new transaction type Force Keyed Referral transaction for sale only & getTerritory for getting acquirer name.
- 3) Added support of IntraMessageCommunication with US, for Keyed & CNP entry through pin-pad some details are shown in following text :-

CVV -> Security Code , State code -> Enter Code

1.18.3 Corrections:-

- 1) Fixed issue during contactless fallback, EVT disables cancel button on EVT window.
- 2) Fixed issue with merchant receipt for keyed transaction, when 'Print Merchant Receipt' is disabled in YESEFTConfiguration.
- 3) Fixed issue with CNP transaction with WIN 7/8 card detail form do not overlap on EVT window.
- 4) Fixed issue with amount field(38) if we set major currency in configuration settings, isn't being returned in output.txt file.
- 5) Fixed issue with download dataset from secondary server if primary is not available.

- 6) Fixed issue of missing transaction result field in output.txt, if transaction reference is different in check card with false and subsequent transaction.
- 7) Fixed issue of random freezing of Miura PED at the time of pin entry.

1.18.4 Configuration utility 3.4.4.0

- 1) Added support of German Language in UK.
- 2) Added a flag "disableReceiptHeader" in receipt tab for providing option to enable or disable receipt header.

1.19 Features and Enhancement for release 3.4.3.0

1.19.1 Important changes:

1.19.1.1 UK 3.4.3.0

Enhancements:-

- 1) Added IP based PED IWL-250 for contact and contactless mode.
- 2) Added support of Miura PED for supporting contact transactions.
- 3) Added intra socket communication mode for hosted Easy V solution.
- 4) Added High Resolution support for Graphical User Interface.
- 5) Added transaction types for cash transaction, duplicate receipt, Pinpad serial number and total number of available offline transaction.
- 6) Added new upload offline transactions mechanism.



- 7) Multiple instance support is added with all Ingenico & Miura PEDs in UK.
- 8) Changed handling of refund chip and contactless transaction to partial refund transaction.
- 9) Added PreAuth and completion transaction type support in semi-attendant mode.
- 10) Removed contactless mode in semi-attendant environment.

1.19.1.2 Corrections:-

- 1) Corrected the cancellation of transaction at the time of card inactivity timeout when cancel button is pressed.
- 2) Corrected the message on EVT GUI for amount equal to Contactless transaction limit.
- 3) Fixed issue with Cash back transaction with HSBC and JCB card.
- 4) Fixed issue of transaction reference field missing in output.txt for cancel transaction.

1.19.1.3 Limitations:-

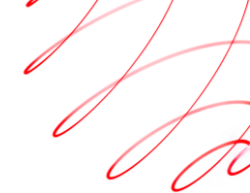
- 1) EVT is not supporting Keyed and CNP transactions without P2PE keys so keyed and CNP transaction is cancelled by EVT.
- 2) Keyed and CNP are not supported in IPP-350-IP due to PED limitation.
- 3) Keyed and CNP are not supported in MIURA.
- 4) IWL-250 support is only with 0923 RAM Version.
- 5) IWL-250 is not certified yet. Certification is under process.

1.19.2North America 3.4.3.0

- 1) Added Support of worldpay US ISO Retail credit/debit(swipe and manual) and MOTO transactions.



- 2) Fixed refund CNP issue while pin-pad is select in YESEFTConfig for all supported acquirer.
- 3) Added Support of CHASE US Contactless.
- 4) Added support of following languages on Elavon XPI Version 6.19 pinpad:
 - Norwegian
 - Swedish
- 4) Added support of check card functionality with all supported transaction types.
- 5) Added support of cash back prompt for worldpay US through Cash Back Amount Required check box in YESEFTConfig.
- 6) Disable all confirmation screen in case of CNP transactions.
- 7) Fixed issue of Amount display on pinpad screen for XPI version above 6.0 in US.
- 8) Fixed Refund processing issue in FDMS-US.
- 9) Fixed Downloading issue of terminal.emv.properties file from server in Elavon.
- 10) Introduced field 29 in completion request to take gratuity amount for WorldPay US.
- 11) Added support of FDMS US Contactless.
- 12) Added support of WorldPay US Swipe and Contactless.
- 13) Added State code in manual transaction entry form for WorldPay.
- 14) Manual entry form will have AVS details entry fields enabled for Sale & PreAuth with WorldPay.
- 15) Modified and added French messages for Moneris.
- 16) Fixed issue with VISA Debit card for special character printing on receipt.
- 17) Fixed issue with Chip Malfunction message printing in receipt for Master Card.
- 18) Fixed issue with check card with remove card flag 'false'.



19) Added support of Axis to access web services of EMBOSS for North America and USA.

1.19.3 Configuration utility 3.4.3.0

- 1) Added IWL-250, IPP-350-IP , Miura PED for conatact mode in pinpad list.
- 2) Added configurable number of yescps.log files (20 to 999).
- 3) Removed login window and password mechanism.

1.20 Features and Enhancement for release 3.4.2.5

1.20.1 Important changes:

- 1) Fixed issue with check card. When check card with false request is placed, card is inserted and cancel button is pressed from PED then Easy V is cancelling every next check card request. This issue is fixed.

1.21 Features and Enhancement for release 3.4.2.4

1.21.1 Important changes:

- 1) Fixed issue when security file downloads into PED and PED takes more than 22 seconds to restart after file download, then Easy V is failed to communicate with PED.
- 2) Fixed issue For Semi-attended environment if print receipt check is disabled in configuration, at the end of transaction when PED prompts for Remove Card and at this time user puts any transaction request then Easy V process it instead of showing Busy status.



- 3) Improve slowness in processing of Contactless transaction by 1 to 2 second.
- 4) Fixed issue with SeqNo field in authorization request, Easy V should not reset this field to value 0.
- 5) Fixed default receipt width issue when transaction cancelled before authorization .Receipt width settings are based on configuration.
- 6) Fixed emboss MID print in receipt issue when transaction cancelled before authorization .Easy V will print acquirer ID in receipt.
- 7) Fixed issue with missing capture in contactless transaction and semiattendant chip transaction. Easy V send capture in case of decline offline.
- 8) Added prompt messages for Completion and Cancel transaction.
- 9) Added error message when address field is not entered and press OK at time of keyed-CNP transaction (when AVS details mandatory is selected in YESEFTConfiguration).
- 10) Added message to show on EVT when Sale transaction is performed above Ceiling Limit.
- 11) Removed extra field (38) in the response of CheckCard.
- 12) Fixed issue with check card with false request when check card timed out. Easy-V is now showing busy status when check card timed out at remove card.

1.22 Features and Enhancement for release 3.4.2.3

1.22.1 Important changes:

- 1) Fixed issue with CNP Refund transactions when AVS Details Mandatory is checked and AVS rule 'Accept on CVV Match' is selected in YESEFTConfiguration.
- 2) Fixed issue with Continue button in Semi-Attended environment when print receipt is set to true in YESEFTConfiguration.
- 3) Fixed issue with Refund transactions going for online approval.



- 4) Fixed issue with PIN BYPASS button functionality.
- 5) Fixed issue with Easy V initialization when command data echo back in response.
- 6) Fixed issue with Swipe transactions going for referral authorization, if authcode is entered and accepted then easy v doesn't prompt for signature verification.

1.23 Features and Enhancement for release 3.4.2.2

1.23.1 Important changes:

- 1) Fixed issue with software upgrade because of extended dataset api call.

1.24 Features and Enhancement for release 3.4.2.1

1.24.1 Important changes:

- 1) Added Credit/Debit verification using check card functionality.
- 2) Added extended data set call to log various Easy V and PED related information on EMBOSS DB.
- 3) Fixed issue with MSD Contactless with P2P enabled PED using RAM 0922.
- 4) Fixed issue with referral transaction screen for MOTO transaction in case referral response is received from server.
- 5) Fixed issue with Contactless transaction in case offline, easy v prompts for signature verification.
- 6) Fixed issue with Check Card functionality related to PED connectivity and with very first check card request getting which was cancelled within 5 seconds.
- 7) Added support of primary and secondary URL of EMBOSS.



8) Changed yespay_logo image.

1.24.2 Configuration utility 3.4.2.1

1) Added check box for Online verification of Credit/Debit.

1.25 Features and Enhancement for release 3.4.2.0

1.25.1 Important changes:

- 1) Fixed issue with Print merchant receipt for contactless transaction in case if merchant receipt flag is disabled in YESEFTConfiguration.
- 2) Fixed issue with Easy V to correct prompt from 'TAP/Insert/Swipe card' to 'Insert/Swipe card' when transaction amount is equal to contactless transaction limit
although PED doesn't show.
- 3) Fixed issue with Cancel button when it is pressed during card inactivity timeout. Earlier transaction was not aborted.
- 4) Fixed issue with reversal for chip & signature/swipe card transaction when user rejects transaction at the time of signature ok prompt on EVT screen.
- 5) Fixed issue with 'Cancel' button, after fallback when manual entry button gets enabled and cancel button is pressed, transaction do not get cancelled instead it again enables the cancel button.
- 6) Changed time for displaying card application label from 1 second to 500ms.
- 7) For non P2P terminals contactless MSD card were getting cancelled due to service code checking.
- 8) Fixed issue with non-P2PE terminal for CNP transaction related to expiry date check.

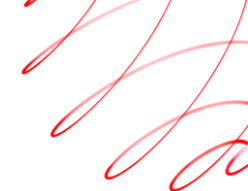


- 9) Changed prompt for refund 'TAP/Insert/Swipe card' to 'Insert/Swipe Card'.
- 10) Added extra log messages to identify PIN entry progress prompts.
- 11) Added extra handling in serial communication when user remove card from PED.
- 12) Reduced time by ~400ms to prompt Enter PIN as compare to Easy V 3419, when receipt printing is disabled in YESEFT Configuration.
- 13) Fixed issue with serial port connection recovery if user breaks serial connection during the transaction.

1.26 Features and Enhancement for release 3.4.1.9

1.26.1 Important changes:

- 1) Fixed the issue of pinpad freezing at the pin entry prompt.
- 2) Disabled Keyed and CNP transactions for Semi-Attended mode.
- 3) Fixed the issue of cash back transaction when PED asks confirmation of CashBack Amount.
- 4) Changed contactless CVM transaction limit to GBP 20.
- 5) Fixed issue of software upgradation to support software upgrade.
- 6) Introduced checks for encrypted service code.
- 7) Fixed issue with serial driver to synchronize data reading from port (String index out of range issue).
- 8) Fixed issue with receipt printing for Chip & Signature/Swipe card transaction when merchant receipt printing of disable.



1.27 Features and Enhancement for release 3.4.1.8

1.27.1 Important changes:

- 1) Added support of EMV and MSD Contactless transactions.
- 2) Added support of Keyed and CNP transactions using iPP350 PED.
- 3) Fixed issue with swipe transaction after ICC fallback.

1.27.2 Limitation:

- 1) MSD Contactless transaction is not working with Point-to-Point Encryption Enabled PED till RAM version 0902.

1.27.3 Configuration utility 3.4.1.8

- 1) Added iPP350-UK-CTLS PED in pinpad list

1.28 Feature and Enhancement for release 3.4.1.5

1.28.1 Important changes:

- 1) Enabled cancel button on Easy V screen at the time of Insert/Swipe card message on PED.
- 2) Added transaction type message on PED at the time of Insert/Swipe card message for Sale/Refund/PreAuth.
- 3) Added a keyboard button to pop up a keyboard on Referral screen.
- 4) Improved logger messages.
- 5) Added support of Pennies Transaction.
- 6) Fixed issue with Semi-Attended with referral in case Easy V is offline.
- 7) Only POS and Semi-Attended mode are supported.



8) Added handling to fix duplicate call issue with Easy V application when card was not removed after pressing the Continue button on Easy V screen

and next transaction request send to Easy V.

9) Fixed issue with ARC code 08 with Master Card.

1.28.2Limitation:

1) Keyed and CNP are not supported.

1.29 Feature and Enhancement for release 3.4.1.4

1.29.1Important changes:

1) Added support of Semi-Attended Mode.

2) Added handling of Cash back transaction configured through terminal.emv.properties.

3) Removed expiry date from completion call for UK.

4) Added support of loading terminal.emv.properties into Easy V application after receiving it from server.

5) Fixed issue with Check Card functionality.

6) Trim Application label from start and end.

7) Fixed issue with receipt number starts with 98.

8) Fixed issue with wallet charge receipt for TID.

9) Removed expiry date from Cancel last transaction API call.

10) Added exception handling and recovery of Easy V application when card is removed during the transaction.

11) Fixed issue with Pre-Auth transaction with Swipe card.



- 12) Fixed issue when PED is timed out at the time of Insert/Swipe Card.
- 13) Added extra exception handling to fix issue with PIN entry timeout.
- 14) Removed default Cash Back functionality from installer.
- 15) Added DF62 Tag in terminal.emv.properties to download new terminal.emv.properties from Emboss.
- 16) Removed Null characters from Application preferred Name and Application Label for Receipt.

1.29.2 Configuration utility 3.4.1.4

- 1) Added semi-attended environment with iPP350.

1.30 Feature and Enhancement for release 3.4.1.3

1.30.1 Important changes:

- 1) Fixed issue with downloading terminal.emv.properties from server.

1.31 Feature and Enhancement for release 3.4.1.2

1.31.1 Important changes:

- 1) Fixed issue with PIN Entry timeout
- 2) Added reversal handling when card is removed after first GEN AC.
- 3) Added functionality to load security file into PED for enabling Point to Point Encryption(P2PE).
- 4) Fixed issue with multi application selection timeout.



1.32 Features and Enhancement for release 3.4.1.1

1.32.1 Important changes:

- 1) Removed transaction reference number from Authorization request.

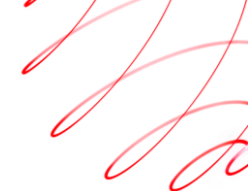
1.33 Feature and Enhancement for release 3.4.1.0

1.33.1 Important changes:

- 1) Added support of iPP350 for UK acquirers.
- 2) Added End to End encryption (E2EE) key change in UK.
- 3) Added Point to Point encryption (P2PE) in UK.
- 4) Keyed and CNP transactions are not supported.

1.33.2 Configuration utility 3.4.1.0

- 1) Added iPP350 pinpad for UK Acquirers.



1.34 Feature and Enhancement for release 3.4.0.0

1.34.1 Important changes:

- 1) Added support of Vx820 for Chase Paymentech, Moneris and UK acquirers.
- 2) Added support of Contactless for FDMS-US, Chase Paymentech, Moneris and UK Acquirers.

1.34.2 Configuration utility 3.4.0.0

- 1) Added Vx820 pinpad for FDMS-US, Chase Paymentech, Moneris and UK Acquirers.

1.35 Feature and Enhancement for release 3.3.3.1

1.35.1 Important changes:

- 1) Modified XPI driver to prevent XPI command acknowledgement more than one time.
- 2) Modified XPI driver to recover EVT when we get Write error from Win32SerialPort.

1.36 Feature and Enhancement for release 3.3.3.0

1.36.1 Important changes:

- 1) Modified XPI driver to prevent Easy V application from freezing.

1.36.2 Configuration utility 3.3.3.0

- 1) Changed language from German to DEUTSCH for Germany.



- 2) Added option for enabling/disabling printing of Merchant receipt for Vx810 pinpads.

1.37 Feature and Enhancement for release 3.3.2.9

1.37.1 Important changes:

- 1) Added call of cancel command to handle null response of C30 (Card Insertion).
- 2) Added handling for swipe card improper response by allowing second try of swipe card command.
- 3) Removed garbage character in auth code, if present.
- 4) Added handling to recover EVT when we get Write error from Win32SerialPort.
- 5) Modified message saving=Saving to saving=Savings in JVTMessageBundle_en_US.properties file.

1.37.2 Configuration utility 3.3.2.9

- 1) Added "Display MerchantID" check box in YESEFT configuration to enable/disable display of Merchant ID on referral screen. By default it will be disabled.

1.38 Features and Enhancement for release 3.3.2.8

1.38.1 Important changes:

- 1) Modified code to improve overall transaction performance for:
 - a) Chase paymentech and FDMS USA Debit
 - b) Chase paymentech, Moneris, FDMS and Elavon with Chip transaction.
- 2) Added handling to reverse the transaction if EVT gets response of authorization as 'null' or auth

decision as 9 for Elavon.

- 3) Added handling to decline offline if authorization response of any debit transaction is other than approved from host for all acquirers.

1.39 Features and Enhancement for release 3.3.2.7

1.39.1 Important changes:

- 1) Added support of following languages:

German

Flemish

Czech

Finnish

Hungarian

Dutch

Norwegian

Polish

Swedish

- 2) Added "Please wait" message after swiping the card on pinpad.
- 3) Fixed issue with saving key value in en_CA from Saving to Savings.
- 4) Fixed issues with uploading stored transactions using X and Z call for elavon.

1.39.2 Configuration utility 3.3.2.7

- 1) Added language configuration as per country's requirement.

1.39.3 Configuration utility 3.3.2.5

- 1) Fixed issue with capture's date field for Moneris.
- 2) Added Pinbypass functionality for Elavon.

1.39.4 Configuration utility 3.3.2.4

- 1) Fixed issue with YESEFTConfig utility when we change any field value and exit after pressing OK button.

1.40 Feature and Enhancement for release 3.3.2.3

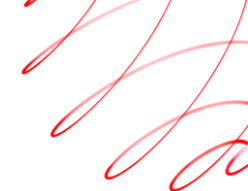
1.40.1 Important changes:

- 1) Fixed issue with Auto upgrade functionality.

1.41 Feature and Enhancement for release 3.3.2.2

1.41.1 Important changes:

- 1) Added handling to discard hex 0x04 character, if we press 'Cancel' button multiple times on PED and then perform a transaction, earlier all the transaction were cancelled.
- 2) Replaced call of activation request by S95.



1.42 Feature and Enhancement for release 3.3.2.1

1.42.1 Important changes:

- 1) Added feature to check correct COM port connected to Pinpad.

1.42.2 Configuration utility 3.3.2.1

- 1) Added option to configure Easy V application for checking correct COM port connection with Pinpad either Auto sensing or Manual mode.

1.43 Feature and Enhancement for release 3.3.2.0

1.43.1 Important changes:

- 1) Added Amount display with ENTER PIN message screen if XPI application version is 6 or greater.
- 2) Fixed issue with chip refund transaction for not to show declined message in C32 command.
- 3) Fixed issue with handling of chip referral transaction in case card removed when authorisation in progress.
- 4) Changed call of opening COM port after checking Auto Upgrade.
- 5) Added call of S00 to cancel previous commands on PED at the time of EVT initialisation.
- 6) Added support of Credit/Debit option for debit card (US Chase and US FDMS).

1.43.2 Configuration utility 3.3.2.0

- 1) Added option to configure Easy V application to accept debit card as Credit or Debit.



1.44 Feature and Enhancement for release 3.3.0.0

1.44.1 Important changes:

- 1) Added Terminal.env.properties to meet the requirement of Moneris and other acquirers.
- 2) Merge messages of english and french for Chase and FDMS with Moneris message bundle.
- 3) Modified Amount confirmation screen and display same message on EVT screen for Elavon.
- 4) Added to show Enter PIN message on EVT screen for online pin transaction for Elavon.

1.45 Feature and enhancement for release 3.2.7.5

1.45.1 Important changes:

- 1) Modified Amount confirmation screen.

1.46 Feature and Enhancement for release 3.2.7.4

1.46.1 Important changes:

- 1) Displayed approved message for offline approved transaction on pinpad in case Elavon server is offline.
- 2) Changed in printing acquirer mid in receipt for offline decline in case Preauth (FDMS).
- 3) Corrected handling of RRN number of Preauth in Completion.

- 4) Added calling of c34 in preauth decline for FDMS and Chase.
- 5) Added handling to decline referral of void transaction.

1.47 Feature and Enhancement for release 3.2.7.3

1.47.1 Important changes:

- 1) Added support of Swedish language with Elavon.
- 2) Added internationalization for ENTER PIN message with Z62 command.
- 3) Fixed issue with transaction if amount is more than 100000.
- 4) Added change for loading terminal.emv.properties into PED in case Easy V gets new terminal.emv.properties.

1.47.2 Configuration utility 3.2.7.3

- 1) Added support of following countries with English language:
 - A) Czech Republic
 - B) Hungary
 - C) Norway
 - D) Poland
 - E) Germany
 - F) Holland
 - G) Netherlands

H) Finland

I) Belgium

J) Austria

K) Switzerland

with Elavon Online PED.

1.48 Feature and enhancement for release 3.2.7.2

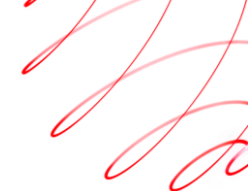
1.48.1 Important changes:

- 1) Modified serial driver to handle communication with USB enabled PED.
- 2) Fixed issue with currency code display in "Amount Confirmation" screen.
- 3) Fixed issue with check card in case remove card flag is 'false' and transaction request is sent after getting response of check card.

1.49 Feature and Enhancement for release 3.2.7.1

1.49.1 Important changes:

- 1) Changed amount confirmation screen to show amount more than 99999.99.
- 2) Changed handling of French Issued HSBC cards BIN 497160 from partial transaction to fallback.
- 3) Changed XPI driver to run with XPI4.27.



- 4) Added new EMBOSS-Setup-NC.bat file.
- 5) Added a utility Config-Hash to calculate hash value of YESEFTConfig.xml file without showing user interface. However user has to provide user ID and password to do this.
- 6) Handling key updates on pinpad for FDMS in case response MAC is failed.
- 7) Fixed issue to stop approving debit transaction offline if Easy V receives null response from the host.

1.50 Feature and Enhancement for release 3.2.7.0

1.50.1 Important changes:

- 1) Added fallback for French Issued HSBC cards BIN 497160.
- 2) Fixed issue with Currency symbol display other than Canadian and USA dollar.
- 3) Added support of Store and forward processing for Elavon.
- 4) Fixed issue with amount display (10.00 instead of 10.0).
- 5) Fixed issue with EVT freezing.

1.50.2 Configuration utility 3.2.7.0

- 1) Added Ireland, Sweden and Poland countries for Elavon Online support.



1.51 Feature and Enhancement for release 3.2.6.9

1.51.1 Important changes:

- 1) Fixed issue with MAC calculation in case reversal of debit transaction.
- 2) Added isDebit flag as true in capture call for US debit transaction.
- 3) Changed prompt of amount confirmation from 'Purchase' to 'Sale'.
- 4) Disable Cancel button on Easy V Terminal's user interface after swiping the card.
- 5) Fixed issue with negative sequence number.

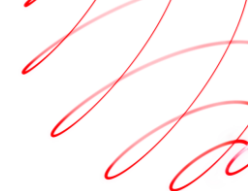
1.52 Feature and Enhancement for release 3.2.6.8

1.52.1 Important changes:

- 1) Added support of Elavon for France in french and english language.

1.52.2 Configuration utility 3.2.6.8

- 1) Added France country for Elavon Online support
- 2) Added new truststore to support Canadian and European Easy V Terminal.
- 3) eftdataset-api-client.properties and epos-api-client.properties files will be changed based on Canadian and European selection.



1.53 Feature and Enhancement for release 3.2.6.7

1.53.1 Important changes:

- 1) Removed extra log messages from yescps.log file.
- 2) Added support of Kiosk mode with Vx810 pinpad for Chase and FDMS.

1.54 Feature and Enhancement for release 3.2.6.6

1.54.1 Important changes:

- 1) Added support of Moneris acquirer.
- 2) Added Store and forward functionality for Chase, FDMS and Moneris.
- 3) Added handling for a Sale transaction above and below floor limit in case of internet is not available.
- 4) Pre-Auth Transaction will be cancelled if it is approved offline.
- 5) Debit card transaction will be declined in case of internet is not available.
- 6) Added different Merchant and Customer receipt based on language supported by Card (french or english)
- 7) Added support of Credit Refund and Credit Void as partial EMV(Reading Track2 data from Chip) for Moneris.
- 8) Modified downloading of terminal.emv.properties into pinpad based on change in date or change in terminal.emv.properties file.

1.54.2 Configuration utility 3.2.6.6

- 1) Modified pinpad name from Vx810 for GPC to Vx810 for Global

1.55 Feature and Enhancement for release 3.2.6.5

1.55.1 Important changes:

- 1) Added C21 command to set Amount before calling C32.
- 2) Removed call for reading Pinpad serial number during receipt preparation.
- 3) Set 0 amount other in C30 command.

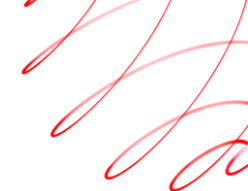
1.56 Feature and Enhancement for release 3.2.6.3

1.56.1 Important changes:

- 1) Added handling of US debit card using DB bin range.

1.56.2 Configuration utility 3.2.6.3

- 1) Fixed issue with default printer selection.



1.57 Feature and Enhancement for release 3.2.6.2

1.57.1 Important changes:

- 1) Fixed time out issue with Manual Entry.
- 2) Added field 38 for Approved amount in output.txt.
- 3) Changed Selection of Account Type from after entering PIN to before entering PIN.
- 4) Disallowed swipe transaction after ICC fallback for Interac Chip cards.
- 5) Added 'Auto Accept Signature' for Swipe, chip and signature transaction if it is enabled in configuration.
- 6) Added 3 re-tries for X and Z report call if Easy V Terminal is not getting response.
- 7) Added support of Void (for Sale and Refund), PWCB and Manual Transaction for Moneris.
- 8) Fixed issue with handling of Accept/Reject button multiple time.
- 9) Changed standby URL to <https://www.yes-technology.com/soap/servlet/rpcrouter>.
- 10) Modified R_monerisSale value from 'Purchase' to 'Sale' in all JVT message bundle.
- 11) Fixed issue with Pre-Auth receipt for Pre-Auth amount.
- 12) Fixed issue with Debit offline transaction in case of pre-auth transaction.

1.57.2 Configuration utility 3.2.6.2

- 1) Added flag for 'Auto Accept Signature' for Swipe and Chip & Signature Transaction.



1.58 Feature and Enhancement for release 3.2.6.1

1.58.1 Important changes:

1. Fixed issue with auto software upgrade using Easy V Terminal.
2. Fixed issue with Refund handling for Master and Visa Chip Card.

1.59 Feature and Enhancement for release 3.2.6

1.59.1 Important changes:

- 1) Fixed issue with Refund handling for Master and Visa Chip Card.
- 2) Fixed issue with missing of receipt data on socket if transaction is cancelled before inserting/swiping the card through pinpad.
- 3) Fixed issue with Receipt data on socket and output on socket if 'No Card Reader' is selected.
- 4) Enabled focus on Continue button when receipt printing is enabled in EasyVTerminal.
- 5) A message will be printed at the end of Receipt if it is present in EFTMerchantDataset.xml.
- 6) Removed XML based handling to read YESEFTConfiguration.xml in ReceiptPrinter application.
- 7) Added internationalization for some messages.
- 8) Modified handling of Card inactivity timeout as per configuration.
- 10) Modified Authorization response code value from 00 to Z3 in C34 call if chip transaction gets declined.
- 11) Fixed issue with ReceiptPrinter utility in case exception.



- 12) Fixed issue with duplicate receipt for printing Response code compare to Merchant and Customer copy when transaction declined for Canadian FDMS.
- 13) Added exception handling while preparing and printing receipt data.
- 14) Fixed issue with status update on screen after Inserting Chip Card on EasyV screen.
- 15) Fixed issue with two duplicate receipts printing using ALT+P key.
- 16) Fixed issue with cancelling a transaction after getting fall back and by pressing Cancel key from Pinpad.
- 17) Fixed issue receipts generation: EVT was generating 4 receipts when a transaction gets ICC fallback and then wait for 'Swipe Card' prompt timeout.
- 18) Fixed issue with AVS response code missing in log & receipts when transaction is done in MOTO mode for Chase US Debit processor.
- 19) Fixed issue with TID and MID missing in CNP Approved transaction receipt for Chase US debit.
- 20) Fixed issue with Merchant and Customer copy data for FDMS Chip transaction.
- 21) Fixed issue with Alt + C (Cancel) and Alt + O (Ok) hotkey.
- 22) Fixed issue with currency code (\$ instead CAD) in receipts for FDMS US Debit and Chase US Debit transaction.
- 23) Fixed issue with Amex Credit Card handling earlier it was treated as debit.
- 24) Fixed issue with Gratuity Amount handling with Canadian FDMS. It was treating CAD 500.00 as 50.00.
- 25) Fixed issue with Retrieval reference number for 12 digits for FDMS and Chase and 12 digits in Moneris.
- 26) Fixed issue with Debit completion data in receipt.
- 27) Fixed issue with PGTR number missing in completion, wallet charge and refund receipt.

1.59.2 Known Issue and limitation:

1. Easy V Terminal may not work properly in French Language.

1.59.3 Configuration utility 3.2.6

- 1) Removed VB based configuration application and added Java based Configuration utility
- 2) Registry support has been removed from this version onwards.
- 3) Introduced a file 'printer' in properties folder to write 'Printer name' and 'Receipt Directory'.

1.60 Features and Enhancement for release 3.2.5

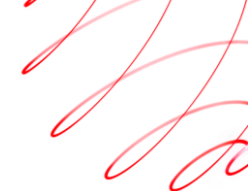
1.60.1 Important changes:

1. Fixed issue with Void and Refund transaction with Interac Chip Card. Changed Transaction Type from 0x00 to 0x20 (For Refund) and 0x10 to 0x22 (for Void) for generating ARQC and in Authorization Request.
2. Added call for Key Change Request: When EVT find that last key change date is not equal to current system date.
3. Fixed issue with Charge Wallet and Refund Wallet related to Response preparation.
4. Changed request handling (removed CNP indicator) of Charge wallet and refund wallet.

1.61 Feature and Enhancement for release 3.2.4

1.61.1 Important changes:

- 1) Fixed issue with Receipt does not have "Chip Card Malfunction" if the card fails after 2nd GEN AC.
- 2) Fixed issue with Chip data missing in the receipt, when a transaction cancelled during pin entry.



- 3) Fixed issue with Sequence Number in case Generic declined receipt printing.
- 4) Fixed issue with message in receipt for fallback transactions ("CHIP CARD SWIPE").
- 5) Fixed issue with processing of Refund transactions (Visa & Mastercard).

All refunds should be processed as partial EMV and then sent for online approval.

- 6) Fixed issue with Chip cards if it swiped after fallback and service code is 101 then it should mark the transactions as a swipe rather fallback.
- 7) Fixed issue with Account type printing on receipt:
It should be printed as Visa or Mastercard not the Application Preferred Name or Application Label for VISA/Master Card.
- 8) Fixed issue with printing application preferred name or application label
- 9) Fixed issue with Chip card details in receipt in case offline declined transactions after 1st generate AC.
- 10) Changed capture call to fix issue with X and Z report.
- 11) Fixed issue with issuer code in case if interac debit is declined offline.
- 12) Changed handling for Void from offline to online.
- 13) Fixed issue with installer for not setting environment variables.
- 14) Changed functionality of 'Cancel' Button from MSR fallback to Cancel the transaction which is in progress.
- 15) Fixed issue with MID and TID contains in output.txt (from EMBOSS MID to Acquirer MID).
- 16) Fixed issue with date & time in output.txt in case charge wallet.
- 17) Fixed issue with expiry date (field 37) in case charge wallet.
- 18) Fixed issue with Auth code missing in output.txt in case charge wallet.
- 19) Fixed issue with expiry date missing in second transaction onwards after starting EVT.



- 20) Fixed issue with 'Cancel' when we press Cancel button from pinpad after ICC fallback.
- 21) Fixed issue with Amount confirmation when chip transaction is preformed.
- 22) Fixed issue with a transaction getting cancelled if we perform after ICC fallback.
- 23) Fixed issue with transaction if we use Candidate list empty card first and then we use Magstripe Card.
- 24) Fixed issue with time difference in Merchant and Customer receipt.

1.61.2 Configuration utility 3.2.4

- 1. Added pinpad for Moneris, FDMS US Debit and Elavon Online PIN.

1.62 Feature and Enhancement for release 3.2.3

1.62.1 Important changes:

- 1) Fixed issue with Moneris Refund transaction and customer receipt for no CVM message.
- 2) Disabled Chip Card processing when Chase USA Debit is configured.
- 3) Changed truststore password.
- 4) Fixed issue with amount confirmation messages at various level.
- 5) Changed receipt message from Sale to Pre-Auth for Pre-Auth transaction.
- 6) Fixed issue TIP amount prompting for Refund, Pre-auth and Void.
- 7) Changed Sale message to Pre-Auth for Pre-Auth transaction.
- 8) Changed Purchase message to Void for Void transaction.
- 9) Added TID in output.txt.



- 10) Changed message from "Please debit my account" to "Please Credit my account" in output.txt for Void transaction.
- 11) Fixed issue with Amount confirmation twice with Interac debit transaction.
- 12) Fixed issue with Offline Approved Interac ICC transaction.

1.62.2 Configuration utility 3.2.3

- 1. Introduced password protection for YESEFTConfig.exe.

The default user ID: Administrator and Password: admin12.

User also can change the password.

NOTE: IT IS MANDATORY TO RUN YESEFTCONFIG.EXE ATLEAST ONE TIME AND PRESS OK FOR EasyVTerminal VERSION STARTING FROM version 3.0.0.

1.63 Feature and Enhancement for release 3.2.1

1.63.1 Important changes:

- 1. Added support of Elavon Online PIN transaction.
- 2. Added support of Create, Charge and Refund wallet functionality.
- 3. Added support for providing Loyalty number in output.txt (field 62) if card issuer is Bank of America.

1.63.2 Configuration utility

- 1. Added new Pinpad Vx810 for handling Elavon Online PIN transaction.



1.64 Features and Enhancement for release 3.1.1

1.64.1 Important changes:

1. Support of Moneris and USA Debit transaction.
2. Fixed issues reported on receipts for Moneris.
3. Default communication of EasyVTerminal with EMBOSS will always be in secure mode.
4. Updated JRE version 1.6.0_20.

1.64.2 Configuration utility

1. Added new Pinpad Vx810 for handling USA debit transaction.
2. Introduced password protection for YESEFTConfig.exe.

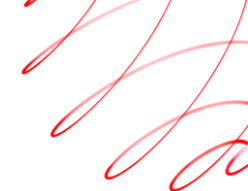
The default user ID: Administrator and Password: admin12.

User also can change the password.

1.65 Release notes for release 3.0.0

1.65.1 Important changes:

- 1) Support of internationalization.
- 2) Support of No Card Reader Mode for Canadian EVT.
- 3) Checking of AVS rules have been introduced according to MOTO and CNP transaction requirements for Canadian EVT.



- 4) Added Keyed Sale and Keyed Refund Functionality.
- 5) Modified handling of request parsing for Socket Interface.
- 6) Added Retrieval Reference Number in output.txt (field 80).
- 7) Added new message in message bundle for Not approved in case of FDMS declined.
- 8) Added amount printing in case declined transaction (requirement from FDMS for Interac Chip Card).
- 9) Fixed issue with Date format for C30.
- 10) Fixed message printing alongwith Authorization Response Code for Declined offline transaction (ADVT test#23 for FDMS).
- 11) Removed "Not Approved" Message if we receive receipt message from the server in case FDMS (Declined Online).
- 12) Added RRN, Inv# and Transaction Method in Declined transaction receipt for FDMS.
- 13) Changed Amount Display from non-decimal to Decimal (two digits after decimal point) in case Interac Debit Swipe card.
- 14) Added handling of swipe debit card using service code.
- 15) Added Approved [authcode] in credit swipe transaction receipt for FDMS.
- 16) Fixed Application Preferred name issue in receipt.
- 17) Modified Date format for FDMS receipts from DD/MM/YYYY to MM/DD/YYYY also removed TID (from Very first line) from Interac Debit receipt.
- 18) Added Amount in C32 request for GetProcessingOptions(GPO).
- 19) Modifications have been done for FDMS in case Chip and Swipe transaction to print acquirer response code on receipt.
- 20) Fixed issue with transaction when Cardinactivity timer is about to expire.
- 21) Fixed issue with for Keyed Preauth and provided 12 digits Retrieval Reference Number in Completion receipt.
- 22) Added VOIDED message in receipt for FDMS in case transaction reversed.Also added VOIDED message in message bundle.

- 23) Fixed issue with Referral screen related to amount display & position of the screen.
- 24) Fixed issue with internationalization of some functions.
- 25) Fixed issue with Sale Void and Refund Void Receipt using response code.
- 26) If EVT gets pre-auth referral then it should be declined with code 01 for FDMS and declined for other acquirers.

1.65.2 Configuration utility

1. Provided Pinpad selection based on Country.
2. Disabled Pin Bypass option.