

January 12, 2026

Ralph Qin

Verifone Systems (China) Inc.

Room 301, ZhuoMing Plaza

No. 1069, South Huihe Street

Chaoyang District

Beijing 100025

CHINA

**Re: EMVCo Letter of Approval - Contact Terminal Level 2**

**EMV Application Kernel: VFC-EMV Version 0.1.0.1**

**Approval Number(s):**  
2-05749-1-1C-BCTS-0126-4.4c  
2-05749-1-2C-BCTS-0126-4.4c  
2-05749-1-3C-BCTS-0126-4.4c  
2-05749-1-4C-BCTS-0126-4.4c  
2-05749-1-1P-BCTS-0126-4.4c  
2-05749-1-1OS-BCTS-0126-4.4c

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The EMV Application Kernel has been tested on the following terminal

**Terminal: QS600**

**PinPad: 1P = QS600, VFC-EMV-PP 0.1.0.1 - PIN pad is valid for configuration(s): 1C, 2C, 3C, 4C**

**Operating System: IOS = VitOS 32bit Version 01**

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**Renewal Date: 25-Dec-2029**

**Report ID Session 1: TEMV256TI1T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd.**

**Kernel Checksum:**

47ACAFAD
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**Configurations Checksums:**

Config	Vendor Config ID	Terminal	Checksum
1C	e08	22	D8C72A9C
2C	e09	22	9CCC5FE5
3C	e10	22	AF231182
4C	e11	22	EB2864FB

**PIN Pads Checksums:**

PinPad	Checksum
1P	D0581762

Dear Ralph Qin:

EMVCo, LLC ("EMVCo"), a Delaware limited liability company, has received your request for Level 2 terminal type approval for the EMV Application Kernel identified above (hereafter referred to as the "Application"). In connection with your request, we have reviewed all test file number(s) listed above.

After assessing such file(s), EMVCo has found reasonable evidence that the submitted samples of the above referenced Application sufficiently conform to EMV Integrated Circuit Card Specifications for Payment Systems, Version 4.4 of October 2022.

EMVCo hereby grants your Application EMVCo Type Approval for Terminal Level 2, based on the requirements stated in the EMV 4.4 Specifications. Please note that EMVCo may publish this letter and publicly identify your Application as an approved Application, including in EMVCo's published list of approved Applications.

EMVCo's grant to your Application is subject to and specifically incorporates (i) the General Terms and Conditions to the Letter of Approval enclosed as Exhibit A, and (ii) the Specific Terms and Conditions to the Letter of Approval attached hereto as Attachment 1. Because EMVCo's grant is subject to such limitations, including certain events of termination, you and any third parties should confirm that such approval is current and has not been terminated by referring to the list of approved Applications published on the EMVCo website ([www.emvco.com](http://www.emvco.com)).

Please note that EMVCo makes certain logos available for use in connection with an Application that has received EMVCo approval. To obtain permission to use the "EMV Approved" certification mark, please contact EMVCo to request a license agreement.

***This Letter of Approval is valid while the approval number is posted on the EMVCo website.***

Authorised by Frédéric Fortin  
Terminal Testing Group Chair  
EMVCo, LLC

<b>Terminal Capabilities</b>	<b>1C</b>	<b>2C</b>	<b>3C</b>	<b>4C</b>						
<b>Card Data Input Capability</b>										
Terminal Type	22	22	22	22						
Manual Key Entry	Yes	Yes	Yes	Yes						
Magnetic Stripe	No	No	No	No						
IC with Contacts	Yes	Yes	Yes	Yes						
<b>CVM Capability</b>										
Plaintext PIN	Yes	Yes	Yes	Yes						
Online Enciphered PIN	Yes	No	No	Yes						
Signature (Paper)	No	No	No	No						
Offline Enciphered PIN (RSA)	Yes	Yes	Yes	Yes						
No CVM	Yes	Yes	No	No						
Offline Enciphered PIN (ECC)	No	No	No	No						
Biometric	No	No	No	No						
Offline Finger	No	No	No	No						
Online Finger	No	No	No	No						
Offline Facial	No	No	No	No						
Online Facial	No	No	No	No						
Offline Palm	No	No	No	No						
Online Palm	No	No	No	No						
Offline Iris	No	No	No	No						
Online Iris	No	No	No	No						
Offline Voice	No	No	No	No						
Online Voice	No	No	No	No						
<b>Security Capability</b>										
SDA & DDA	Yes	Yes	Yes	Yes						
Card Capture	No	No	No	No						
CDA	Mode 1	Mode 1	Mode 1	Mode 1						
XDA	No	No	No	No						
<b>Transaction Type Capability</b>										
Tran Type - Cash	Yes	Yes	Yes	Yes						
Tran Type - Goods	Yes	Yes	Yes	Yes						
Tran Type - Services	Yes	Yes	Yes	Yes						
Tran Type - Cash Back	Yes	Yes	Yes	Yes						
Tran Type - Inquiry	Yes	Yes	Yes	Yes						
Tran Type - Transfer	Yes	Yes	Yes	Yes						
Tran Type - Payment	Yes	Yes	Yes	Yes						
Tran Type - Admin	Yes	Yes	Yes	Yes						
Tran Type - Cash Deposit	Yes	Yes	Yes	Yes						
<b>Terminal Data Input Capability</b>										
Keypad	Yes	Yes	Yes	Yes						
Numeric Keys	Yes	Yes	Yes	Yes						
Alpha and Special Character Keys	Yes	Yes	Yes	Yes						
Command Keys	Yes	Yes	Yes	Yes						
Function Keys	Yes	Yes	Yes	Yes						

(continued)	1C	2C	3C	4C						
<b>Terminal Data Output Capability</b>										
Print	No	No	No	No						
Display	Yes	Yes	Yes	Yes						
Code Table 10	No	No	No	No						
Code Table 9	No	No	No	No						
Code Table 8	No	No	No	No						
Code Table 7	No	No	No	No						
Code Table 6	No	No	No	No						
Code Table 5	No	No	No	No						
Code Table 4	No	No	No	No						
Code Table 3	No	No	No	No						
Code Table 2	No	No	No	No						
Code Table 1	Yes	Yes	Yes	Yes						
<b>Application Selection</b>										
PSE	Yes	Yes	Yes	Yes						
Cardholder Confirmation	Yes	Yes	Yes	Yes						
Preferred display order	No	No	No	No						
Partial AID Selection	Yes	Yes	Yes	Yes						
Multi language	Yes	Yes	Yes	Yes						
EMV Language Selection method	Yes	Yes	Yes	Yes						
Common Character Set	Yes	Yes	Yes	Yes						
<b>Data Authentication</b>										
Revocation of Issuer PK Certificate	Yes	Yes	Yes	Yes						
Certificate Revocation List Format	RID+CAPKI +CSN	RID+CAPKI +CSN	RID+CAPKI +CSN	RID+CAPKI +CSN						
Default DDOL	Yes	Yes	Yes	Yes						
<b>Cardholder Verification Method</b>										
Bypass PIN Entry	Yes	Yes	Yes	Yes						
Subsequent Bypass PIN Entry	Yes	Yes	Yes	Yes						
Get Data for PIN Try Counter	Yes	Yes	Yes	Yes						
Fail CVM	Yes	Yes	Yes	Yes						
Amount known before CVM proces.	Yes	Yes	Yes	Yes						
<b>Terminal Risk Management</b>										
Floor Limit Checking	Yes	Yes	Yes	Yes						
Random Transaction Selection	Yes	Yes	Yes	Yes						
Velocity Checking	Yes	Yes	Yes	Yes						
Transaction Log	Yes	Yes	Yes	Yes						
Exception File	Yes	Yes	Yes	Yes						
TRM irrespective of AIP setting (expected behavior)	Yes	Yes	Yes	Yes						

<b>(continued)</b>	<b>1C</b>	<b>2C</b>	<b>3C</b>	<b>4C</b>						
<b>Terminal Action Analysis</b>										
Terminal Action Codes supported	Yes	Yes	Yes	Yes						
TAC can be deleted or disabled	Yes	Yes	Yes	Yes						
How does offline only Terminal process Default Action Codes?	N/A	N/A	N/A	N/A						
How does online only terminal process TAC/IAC-Default when unable to go online?	Normal	Normal	Normal	Normal						
<b>Completion Processing</b>										
Forced Online	Yes	Yes	Yes	Yes						
Forced Acceptance	No	No	No	No						
Voice Referrals Initiated by Issuer	Yes	Yes	Yes	Yes						
Default TDOL	Yes	Yes	Yes	Yes						
Default TDOL not configured	Yes	Yes	Yes	Yes						
<b>Exception Handling</b>										
POS Entry Mode	N/A	N/A	N/A	N/A						
<b>Miscellaneous</b>										
Amount and PIN on same keypad	Yes	Yes	Yes	Yes						
ICC/Magstripe Reader Combined	No	No	No	No						
Supports account type selection	Yes	Yes	Yes	Yes						
Supports 'on fly' script processing	No	No	No	No						
Issuer Script device limit > 128 bytes	No	No	No	No						
If limit > 128, value supported?										
Internal Date Management	Yes	Yes	Yes	Yes						
Does the terminal support Receipt?	No	No	No	No						

# **Attachment 1**

## **Specific Terms and Conditions to the Letter of Approval**

Restriction:

**None**