October 18, 2024

Harrison Lee

NEW POS TECHNOLOGY LIMITED

AB Unit, 14th Floor,Block A, Financial Technology Building

No. 11 Keyuan Rd, Nanshan District

Shenzhen 518057

China

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

EMV Application Kernel:	**libemv.so Version 1.0.13**

Approval Number(s):	**2-05473-1-1C-BCTS-1024-4.4b**
	2-05473-1-2C-BCTS-1024-4.4b
	2-05473-1-3C-BCTS-1024-4.4b
	2-05473-1-4C-BCTS-1024-4.4b
	2-05473-1-5C-BCTS-1024-4.4b
	2-05473-1-6C-BCTS-1024-4.4b
	2-05473-1-7C-BCTS-1024-4.4b
	2-05473-1-1P-BCTS-1024-4.4b
	2-05473-1-1OS-BCTS-1024-4.4b
	2-05473-1-2OS-BCTS-1024-4.4b

The EMV Application Kernel has been tested on the following terminal

Terminal:	**NEW9210**
PinPad:	**1P = NEW9210, Android 7.1 - PIN pad is valid for configuration(s): 1C, 2C, 4C, 5C, 6C**
Operating System:	**1OS = Android Version 7.1**
	2OS = Android Version 5.1

Renewal Date:	**24-Sep-2028**

Report ID	Session 1:	**TEMV243WK1T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd. Shenzhen Branch**

Kernel Checksum:

42D22C1F0F4AE4CE

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	C1	22	4E00DED597EAA933
2C	C2	25	DA4F056BCE46E7D2
3C	C3	25	3C38058CF2EBB4A7
4C	C4	25	17D8CF7FF2F23C90
5C	C5	22	C025AF57137ECEF7
6C	C6	22	31333741DB800C9F
7C	C7	22	5B34C8EE710F9117

PIN Pads Checksums:

PinPad	Checksum
1P	42D22C1F0F4AE4CE

Dear Harrison Lee:

       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 refered 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).

       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

Terminal Capabilities	1C	2C	3C	4C	5C	6C	7C			
Card Data Input Capability										
Terminal Type	22	25	25	25	22	22	22			
Manual Key Entry	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Magnetic Stripe	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
IC with Contacts	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
CVM Capability										
Plaintext PIN	Yes	Yes	No	Yes	Yes	Yes	No			
Online Enciphered PIN	Yes	Yes	No	Yes	Yes	No	No			
Signature (Paper)	Yes	No	No	No	Yes	Yes	No			
Offline Enciphered PIN (RSA)	Yes	Yes	No	Yes	Yes	Yes	No			
No CVM	Yes	Yes	Yes	Yes	No	No	Yes			
Offline Enciphered PIN (ECC)	No	No	No	No	No	No	No			
Biometric	No	No	No	No	No	No	No			
Offline Finger	No	No	No	No	No	No	No			
Online Finger	No	No	No	No	No	No	No			
Offline Facial	No	No	No	No	No	No	No			
Online Facial	No	No	No	No	No	No	No			
Offline Palm	No	No	No	No	No	No	No			
Online Palm	No	No	No	No	No	No	No			
Offline Iris	No	No	No	No	No	No	No			
Online Iris	No	No	No	No	No	No	No			
Offline Voice	No	No	No	No	No	No	No			
Online Voice	No	No	No	No	No	No	No			
Security Capability										
SDA & DDA	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Card Capture	No	No	No	No	No	No	No			
CDA	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1			
XDA	No	No	No	No	No	No	No			
Transaction Type Capability										
Tran Type - Cash	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Goods	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Services	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Cash Back	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Inquiry	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Transfer	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Payment	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Admin	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Tran Type - Cash Deposit	No	No	No	No	No	No	No			
Terminal Data Input Capability										
Keypad	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Numeric Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Alpha and Special Character Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Command Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Function Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes			

(continued)	1C	2C	3C	4C	5C	6C	7C			
Terminal Data Output Capability										
Print, Attendant	Yes	No	No	No	Yes	Yes	Yes			
Print, Cardholder	No	Yes	Yes	Yes	No	No	No			
Display, Attendant	Yes	No	No	No	Yes	Yes	Yes			
Display, Cardholder	No	Yes	Yes	Yes	No	No	No			
Code Table 10	No	No	No	No	No	No	No			
Code Table 9	No	No	No	No	No	No	No			
Code Table 8	No	No	No	No	No	No	No			
Code Table 7	No	No	No	No	No	No	No			
Code Table 6	No	No	No	No	No	No	No			
Code Table 5	No	No	No	No	No	No	No			
Code Table 4	No	No	No	No	No	No	No			
Code Table 3	No	No	No	No	No	No	No			
Code Table 2	No	No	No	No	No	No	No			
Code Table 1	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Application Selection										
PSE	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Cardholder Confirmation	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Preferred display order	No	No	No	No	No	No	No			
Partial AID Selection	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Multi language	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
EMV Language Selection method	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Common Character Set	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Data Authentication										
MAX CA Public key	248	248	248	248	248	248	248			
Exponents	3 and 2^16+1	3 and 2^16+1	3 and 2^16+1	3 and 2^16+1	3 and 2^16+1	3 and 2^16+1	3 and 2^16+1			
Revocation of Issuer PK Certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Certificate Revocation List Format	RID+INDEX +CSN	RID+INDEX +CSN	RID+INDEX +CSN	RID+INDEX +CSN	RID+INDEX +CSN	RID+INDEX +CSN	RID+INDEX +CSN			
Default DDOL	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Cardholder Verification Method										
Bypass PIN Entry	Yes	No	No	Yes	Yes	Yes	No			
Subsequent Bypass PIN Entry	Yes	No	No	Yes	Yes	Yes	No			
Get Data for PIN Try Counter	Yes	Yes	No	Yes	Yes	Yes	No			
Fail CVM	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Amount known before CVM proces.	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Terminal Risk Management										
Floor Limit Checking	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Random Transaction Selection	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Velocity Checking	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Transaction Log	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Exception File	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
TRM irrespective of AIP setting (expected behavior)	Yes	Yes	Yes	Yes	Yes	Yes	Yes			

(continued)	1C	2C	3C	4C	5C	6C	7C			
Terminal Action Analysis										
Terminal Action Codes supported	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
TAC can be deleted or disabled	No	No	No	No	No	No	No			
How does offline only Terminal process Default Action Codes?	N/A	N/A	N/A	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	Normal	Normal	Normal			
Completion Processing										
Forced Online	Yes	No	No	No	Yes	Yes	Yes			
Forced Acceptance	Yes	No	No	No	Yes	Yes	Yes			
Voice Referrals Initiated by Issuer	Yes	No	No	No	Yes	Yes	Yes			
Default TDOL	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Default TDOL not configured	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Exception Handling										
POS Entry Mode	80	80	80	80	80	80	80			
Miscellaneous										
Amount and PIN on same keypad	Yes	Yes	No	Yes	Yes	Yes	No			
ICC/Magstripe Reader Combined	No	No	No	No	No	No	No			
Supports account type selection	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Supports 'on fly' script processing	No	No	No	No	No	No	No			
Issuer Script device limit > 128 bytes	No	No	No	No	No	No	No			
If limit > 128, value supported?										
Internal Date Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Does the terminal support Receipt?	Yes	Yes	Yes	Yes	Yes	Yes	Yes			

Attachment 1
Specific Terms and Conditions to the Letter of Approval

Restriction:

None

Conditions:

This product is not able to handle transaction date beyond the 19th of January 2038