

May 27, 2026

Mr. Rafael Casamajo

TENG INTERNACIONAL TRADING LIMITED

4/f 299 QRC NOS 287-299 QUEEN'S RD CENTRAL

HONG KONG 999077

Hong Kong

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

EMV Application Kernel: EMVL2-S8s Version V1.1

Approval Number(s):

- 2-05802-1-1C-0526-4.4c
- 2-05802-1-2C-0526-4.4c
- 2-05802-1-3C-0526-4.4c
- 2-05802-1-4C-0526-4.4c
- 2-05802-1-5C-0526-4.4c
- 2-05802-1-6C-0526-4.4c
- 2-05802-1-7C-0526-4.4c
- 2-05802-1-8C-0526-4.4c
- 2-05802-1-1P-0526-4.4c
- 2-05802-1-1OS-0526-4.4c

The EMV Application Kernel has been tested on the following terminal

Terminal: S8s

PinPad: 1P = S8s, EMVL2-S8s-PIN V1.1 - PIN pad is valid for configuration(s): 1C, 5C, 7C, 8C

Operating System: 1OS = Android 32 bits Version 13

Renewal Date: 24-Apr-2030

Report ID Session 1: TEMV261EJ1T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd.

Kernel Checksum:

14A39786E06FA10586B8F158F7ED57FA3839ED54
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Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	EMV-BASE	22	4C8462A0
2C	2C	22	A2675B4F
3C	3C	22	F365C263
4C	4C	22	B33DC8EA
5C	5C	22	67BDB91D
6C	6C	25	385EEAA8
7C	7C	25	D2282C38
8C	8C	22	3BE8085E

PIN Pads Checksums:

PinPad	Checksum
1P	BF98FDD8

Dear Mr. Casamajo:

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).

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

Note:

The Random Number Generator is part of the EMV specifications. This Contact Level 2 Kernel utilizes a specific Hardware component in the tested terminal to generate random numbers. To be EMV compliant, this Contact Level 2 Kernel shall be used in conjunction with terminals having this specific hardware component.

Terminal Capabilities	1C	2C	3C	4C	5C	6C	7C	8C		
Card Data Input Capability										
Terminal Type	22	22	22	22	22	25	25	22		
Manual Key Entry	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Magnetic Stripe	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
IC with Contacts	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
CVM Capability										
Plaintext PIN	Yes	No	No	No	Yes	No	Yes	Yes		
Online Enciphered PIN	Yes	No	No	No	No	No	Yes	No		
Signature (Paper)	Yes	Yes	No	Yes	Yes	No	No	Yes		
Offline Enciphered PIN (RSA)	Yes	No	No	No	Yes	No	Yes	Yes		
No CVM	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes		
Offline Enciphered PIN (ECC)	No	No	No	No	No	No	No	No		
Biometric	No	No	No	No	No	No	No	No		
Offline Finger	No	No	No	No	No	No	No	No		
Online Finger	No	No	No	No	No	No	No	No		
Offline Facial	No	No	No	No	No	No	No	No		
Online Facial	No	No	No	No	No	No	No	No		
Offline Palm	No	No	No	No	No	No	No	No		
Online Palm	No	No	No	No	No	No	No	No		
Offline Iris	No	No	No	No	No	No	No	No		
Online Iris	No	No	No	No	No	No	No	No		
Offline Voice	No	No	No	No	No	No	No	No		
Online Voice	No	No	No	No	No	No	No	No		
Security Capability										
SDA & DDA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Card Capture	No	No	No	No	No	No	No	No		
CDA	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1		
XDA	No	No	No	No	No	No	No	No		
Transaction Type Capability										
Tran Type - Cash	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Tran Type - Goods	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Tran Type - Services	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Tran Type - Cash Back	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Tran Type - Inquiry	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		
Tran Type - Transfer	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		
Tran Type - Payment	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		
Tran Type - Admin	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		
Tran Type - Cash Deposit	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		
Terminal Data Input Capability										
Keypad	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Numeric Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Alpha and Special Character Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Command Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Function Keys	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		

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

(continued)	1C	2C	3C	4C	5C	6C	7C	8C		
Terminal Action Analysis										
Terminal Action Codes supported	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
TAC can be deleted or disabled	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		
How does offline only Terminal process Default Action Codes?	N/A	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?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Completion Processing										
Forced Online	Yes	Yes	Yes	Yes	Yes	No	No	Yes		
Forced Acceptance	Yes	Yes	Yes	Yes	Yes	No	No	Yes		
Voice Referrals Initiated by Issuer	Yes	Yes	Yes	Yes	Yes	No	No	Yes		
Default TDOL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Default TDOL not configured	Yes	No	No	No	No	No	Yes	Yes		
Exception Handling										
POS Entry Mode	92	92	92	92	92	92	92	80		
Miscellaneous										
Amount and PIN on same keypad	Yes	No	No	No	Yes	No	Yes	Yes		
ICC/Magstripe Reader Combined	No	No	No	No	No	No	No	No		
Supports account type selection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Supports 'on fly' script processing	No	No	No	No	No	No	No	No		
Issuer Script device limit > 128 bytes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No		
If limit > 128, value supported?	1024	1024	1024	1024	1024	1024	1024			
Internal Date Management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Does the terminal support Receipt?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		

Attachment 1

Specific Terms and Conditions to the Letter of Approval

Restriction:

This product is not able to handle transaction date beyond the 31st of December 2037.

Conditions:

None