

Fei Gao

Dspread Technology (Beijing) Inc

Rm. 407, B12C, #10 (Universal Business Park)

Jiuxianqiao Road, Chaoyang District

Beijing P10001

CHINA

Re: EMVCo Letter of Approval - Contact Terminal Level 2

EMV Application Kernel: kernel-emv Version 4.2.3

Approval Number(s): **2-05696-1-1C-BCTC-1025-4.4c**

2-05696-1-2C-BCTC-1025-4.4c 2-05696-1-3C-BCTC-1025-4.4c 2-05696-1-1P-BCTC-1025-4.4c 2-05696-1-1OS-BCTC-1025-4.4c

The EMV Application Kernel has been tested on the following terminal

Terminal: D35

PinPad: 1P = D35, driver-key 1.1.0 - PIN pad is valid for configuration(s): 1C, 2C

Operating System: 10S = Lark-32bits Version V1332

Renewal Date: **22-Oct-2029**

Report ID Session 1: TEMV2554S1T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd.

Kernel Checksum:

95807B29

Configurations Checksums:

	- · · · · · · · · · · · · · · · · · · ·										
Config	Vendor Config ID	Terminal	Checksum								
1C	C1	22	BD9C5FFB								
2C	C2	22	FFAF7511								
3C	C3	22	FC5AB49C								

PIN Pads Checksums:

PinPad	Checksum
1P	EB086974

Dear Fei Gao:

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

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.

V260514 / 2-05696 Page 2 of 6 30 October 2025

1C	2C	3C							
22	22	22							
Yes	Yes	No							
Yes	Yes	No							
Yes	Yes	Yes							
1	I.	1	I .		1	1	I.	I.	
Yes	Yes	No							
Yes	No	No							
Yes	Yes	Yes							
Yes	Yes	No							
Yes	Yes	Yes							
No	No	No							
No	No	No							
No	No	No							
No	No	No							
No	No	No							
No	No	No							
No	No	No							
No	No	No							
No	No	No							
No	No	No							
No	No	No							
No	No	No							
1	I.	1			1	1	I.	I.	I .
Yes	Yes	Yes							
No	No	No							
Mode 1	Mode 1	Mode 1							
No	No	No							
	II.		I .				II.	II.	
Yes	Yes	Yes							
Yes	Yes	Yes							
Yes	Yes	Yes							
Yes	Yes	Yes							
Yes	Yes	Yes							
Yes	Yes	Yes							
Yes	Yes	Yes							
Yes	Yes	Yes							
Yes	Yes	Yes							
,	1	1	I	I	1	1	1	1	I
Yes	Yes	No							
Yes	Yes	No							
Voc	Yes	No							
162	103	140							
Yes	Yes	No							
	22 Yes Yes Yes Yes Yes Yes Yes Yes No	22 22 Yes Yes	22 22 22 Yes Yes No Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes No No No Yes Yes Yes Yes Yes Yes Yes Yes </td <td> 22</td> <td> 22 22 22 </td> <td> 22 22 22 </td> <td> 22 22 22 </td> <td> 22 22 22 22 22 23 24 25 25 25 25 25 25 25</td> <td> Yes Yes No </td>	22	22 22 22	22 22 22	22 22 22	22 22 22 22 22 23 24 25 25 25 25 25 25 25	Yes Yes No

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

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

Attachment 1 Specific Terms and Conditions to the Letter of Approval

Restriction:
None