September 26, 2024



Ms. Jiaqi Ni

Beijing Shenzhou Anfu Technology Co.,Ltd Room 1102, Block A, Longyu Center, Huilongguan, Changping District, Beijing, China

BeiJing 100085

China

Re: EMVCo Letter of Approval - Contact Terminal Level 2

EMV Application Kernel: AF_EMV_Kernel Version V1.00

Approval Number(s): **2-05490-1-1C-BCTC-0924-4.4b**

2-05490-1-2C-BCTC-0924-4.4b 2-05490-1-1P-BCTC-0924-4.4b 2-05490-1-1OS-BCTC-0924-4.4b

The EMV Application Kernel has been tested on the following terminal

Terminal: AF820

PinPad: 1P = AF820, AFOS V1.00 - PIN pad is valid for configuration(s): 1C, 2C

Operating System: **10S = AFOS Version V1.00**

Renewal Date: 23-Sep-2028

Report ID Session 1: TEMV244J21T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd

(Bank Card Test Center)

Kernel Checksum:

D9A6AEDD

2711011222

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	1C	22	0DAB5179
2C	2C	11	6C898F59

PIN Pads Checksums:

PinPad	Checksum
1P	D9A6AEDD

Dear Ms. Ni:

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 and the Cryptographic Functions are part of the EMV specifications. This Contact Level 2 Kernel utilizes a specific Hardware component in the tested terminal to generate random numbers and/or Cryptographic Functions. To be EMV compliant, this Contact Level 2 Kernel shall be used in conjunction with terminals having this specific Hardware component.

Tran Type - Cash Deposit No No No Terminal Data Input Capability									

(continued)	1C	2C							
Terminal Data Output Capabil	ity								
Print, Attendant	No	No							
Print, Cardholder	No	No							
Display, Attendant	Yes	Yes							
Display, Cardholder	No	No							
Code Table 10	No	No							
Code Table 9	No	No							
Code Table 8	No	No							
Code Table 7	No	No							
Code Table 6	No	No							
Code Table 5	No	No							
Code Table 4	No	No							
Code Table 3	No	No							
Code Table 2	No	No							
Code Table 1	Yes	Yes							
Application Selection									
PSE	Yes	Yes							
Cardholder Confirmation	Yes	Yes							
Preferred display order	Yes	Yes							
Partial AID Selection	Yes	Yes							
Multi language	No	No							
EMV Language Selection method	No	No							
Common Character Set	Yes	Yes							
Data Authentication	. 55								
MAX CA Public key	248	248							
Exponents	3 and	3 and							
Revocation of Issuer PK Certificate	2^16+1 Yes	2^16+1 Yes							
Certificate Revocation List Format	RID+CA	RID+CA							
Certificate Revocation List Format	Public Key Index	Public							
		+Certificate Serial Nu							
Default DDOL	Yes	Yes							
Cardholder Verification Metho	d								
Bypass PIN Entry	Yes	Yes							
Subsequent Bypass PIN Entry	No	No							
Get Data for PIN Try Counter	Yes	Yes							
Fail CVM	Yes	Yes							
Amount known before CVM proces.	Yes	Yes							
Terminal Risk Management		1	1		1	1	1	1	
Floor Limit Checking	Yes	Yes							
Random Transaction Selection	Yes	Yes							
Velocity Checking	Yes	Yes							
Transaction Log	No	No							
Exception File	Yes	Yes							
TRM irrespective of AIP setting	Yes	Yes		1					

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

Attachment 1 Specific Terms and Conditions to the Letter of Approval

Restriction:
None