June 06, 2023



Dan Zhang

Beijing Shenzhou Anfu Technology Co.,Ltd

1102 Room, Block A, Longyu Center, No.1 Building, Longyu Middle

Street

Huilongguan, Changping District, Beijing Municipality, P.R.C.

Beijing 100096

CHINA

Re: EMVCo Letter of Approval - Contact Terminal Level 2

EMV Application Kernel: AF70_Kernel Version V1.0

Approval Number(s): **2-05204-1-1C-BCTC-0623-4.3k**

2-05204-1-1OS-BCTC-0623-4.3k

The EMV Application Kernel has been tested on the following terminal

Terminal: AF70
PinPad: n/a

Operating System: **10S = AFOS Version V1.0**

Renewal Date: 30-May-2027

Report ID Session 1: TEMV231ZS1T Version V1.0 - Beijing Unionpay Card Technology Co., Ltd

(Bank Card Test Center)

Kernel Checksum:

d15770be

Configurations Checksums:

 Config
 Vendor Config ID
 Terminal
 Checksum

 1C
 1C
 22
 1b63040e

Dear Dan Zhang:

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 4.3 of November 2011.

EMVCo hereby grants your Application EMVCo Type Approval for Terminal Level 2, based on the requirements stated in the EMV 4.3 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.

EMVCo, LLC, a Delaware limited liability company

By:

Name: Frédéric Fortin

Title: EMVCo Terminal Type Approval Chair

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.

Terminal Capabilities	1C								
Card Data Input Capability									
Terminal Type	22								
Manual Key Entry	Yes								
Magnetic Stripe	No								
IC with Contacts	Yes								
CVM Capability		1							
Plaintext PIN	Yes								
Online Enciphered PIN	Yes								
Signature (Paper)	Yes								
Offline Enciphered PIN	Yes								
No CVM	Yes								
SB185	No								
Offline Finger	No								
Online Finger	No								
Offline Facial	No								
Online Facial	No								
Offline Palm	No								
Online Palm	No								
Offline Iris	No								
Online Iris	No								
Offline Voice	No								
Online Voice	No								
Security Capability		l.	1	1		l			l
SDA & DDA	Yes								
Card Capture	No								
CDA	Mode 1								
Transaction Type Capability	1	1	1	1		I .			I.
Tran Type - Cash	Yes								
Tran Type - Goods	Yes								
Tran Type - Services	Yes								
Tran Type - Cash Back	Yes								
Tran Type - Inquiry	Yes								
Tran Type - Transfer	Yes								
Tran Type - Payment	Yes								
Tran Type - Admin	Yes								
Tran Type - Cash Deposit	Yes								
Terminal Data Input Capability	,		•	•	•	•	•	•	
Keypad	Yes								
Numeric Keys	Yes								
Alpha and Special Character Keys	Yes								
Command Keys	Yes								
Function Keys	Yes								

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

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

Attachment 1 Specific Terms and Conditions to the Letter of Approval

Restriction:

None