Sumudu Nishantha

Invenco Group Limited

7-11 Kawana Street

Northcote

Auckland 0627

NEW ZEALAND

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

EMV Application Kernel: **Invenco EMV L2 Contact Kernel Version 01.03.0025**

Approval Number(s):   **2-05337-1-1C-FIMC-0424-4.4a**
2-05337-1-2C-FIMC-0424-4.4a
2-05337-1-3C-FIMC-0424-4.4a
2-05337-1-4C-FIMC-0424-4.4a
2-05337-1-5C-FIMC-0424-4.4a
2-05337-1-6C-FIMC-0424-4.4a
2-05337-1-7C-FIMC-0424-4.4a
2-05337-1-8C-FIMC-0424-4.4a
2-05337-1-1OS-FIMC-0424-4.4a

The EMV Application Kernel has been tested on the following terminal
Terminal: **G6-500**
PinPad: **n/a**
Operating System: **1OS = Linux Version 3.10**

Renewal Date: **22-Jan-2028**

Report ID   Session 1: **Z23REP00-271 Version v1.0 - FIME Technology (Shenzhen) Co. Ltd.**

Kernel Checksum:

67F28C6D0855F597109D42070A3253B98D2AFC46

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	INV1325U1F	22	9DF30AFE2CB055C48ED2E847F165D6443A75E676
2C	INV1325U27	22	26AEBE17DB4F2008883E12025657D0436B7010F1
3C	INV1325U3B	22	2C8E0B9509D15B8E6373358A0EF71550C2DFD46E
4C	INV1325U43	22	B5B23A28872898C2F423DE2EB2E4A4D73933501F
5C	INV1325U5D	25	BFDDDFD9079FD5E5CB1657BE5106F9F854341A52
6C	INV1325U65	25	62E562478A3C3336F21A62B8C20A58022B49BF11
7C	INV1325U79	25	D1167E5E382AC78616FB46FDF09743392C2A8137
8C	INV1325U81	25	688A63CCE0717A59CADDA7CFCBC3B152BFD19026

Dear Sumudu Nishantha:

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.

EMVCo, LLC, a Delaware limited liability company

By:
Name: Frédéric Fortin
Title: EMVCo Terminal Testing Group Chair

Terminal Capabilities	1C	2C	3C	4C	5C	6C	7C	8C		
Card Data Input Capability										
Terminal Type	22	22	22	22	25	25	25	25		
Manual Key Entry	Yes	Yes	Yes	Yes	No	No	No	No		
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	Yes	No	Yes	No	Yes	No		
Online Enciphered PIN	Yes	Yes	No	No	Yes	Yes	No	No		
Signature (Paper)	Yes	Yes	Yes	Yes	No	No	No	No		
Offline Enciphered PIN (RSA)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
No CVM	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
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		
Transaction Type Capability										
Tran Type - Cash	Yes	Yes	Yes	Yes	No	No	No	No		
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	No	No	No	No		
Tran Type - Inquiry	No	No	No	No	No	No	No	No		
Tran Type - Transfer	No	No	No	No	No	No	No	No		
Tran Type - Payment	No	No	No	No	No	No	No	No		
Tran Type - Admin	No	No	No	No	No	No	No	No		
Tran Type - Cash Deposit	No	No	No	No	No	No	No	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, Attendant	Yes	Yes	Yes	Yes	No	No	No	No		
Print, Cardholder	No	No	No	No	Yes	Yes	Yes	Yes		
Display, Attendant	Yes	Yes	Yes	Yes	No	No	No	No		
Display, Cardholder	No	No	No	No	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	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
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										
MAX CA Public key	248	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 $2^{16}+1$	3 and $2^{16}+1$		
Revocation of Issuer PK Certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Certificate Revocation List Format	RID,CA Public Key Index and Certificate Serial Num	RID,CA Public Key Index and Certificate Serial Num	RID,CA Public Key Index and Certificate Serial Num	RID,CA Public Key Index and Certificate Serial Num	RID,CA Public Key Index and Certificate Serial Num	RID,CA Public Key Index and Certificate Serial Num	RID,CA Public Key Index and Certificate Serial Num	RID,CA Public Key Index and Certificate Serial Num		
Default DDOL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Manual act. when CA PK loading fails	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
CA PK verified with check sum	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Cardholder Verification Method										
Bypass PIN Entry	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Subsequent Bypass PIN Entry	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Get Data for PIN Try Counter	Yes	Yes	Yes	Yes	Yes	Yes	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	Yes		
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?	Normal	Normal	Normal	Normal	Normal	Normal	Normal	Normal		
Completion Processing										
Forced Online	No	No	No	No	No	No	No	No		
Forced Acceptance	No	No	No	No	No	No	No	No		
Advices	No	No	No	No	No	No	No	No		
Voice Referrals Initiated by Issuer	Yes	Yes	Yes	Yes	No	No	No	No		
Batch Data Capture	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Online Data Capture	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Default TDOL	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
Default TDOL not configured	No	No	No	No	No	No	No	No		
Exception Handling										
POS Entry Mode	80	80	80	80	80	80	80	80		
Miscellaneous										
Amount and PIN on same keypad	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
ICC/Magstripe Reader Combined	No	No	No	No	No	No	No	No		
If Combined, is Magstripe read first?	No	No	No	No	No	No	No	No		
Supports account type selection	No	No	No	No	No	No	No	No		
Supports 'on fly' script processing	No	No	No	No	No	No	No	No		
Issuer Script device limit > 128 bytes	No	No	No	No	No	No	No	No		
If limit > 128, value supported?										
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:

None