



January 11, 2019

Homayoon Saghari  
Advanced Mobile Payment Inc.  
15 Wertheim Court Unit 401  
Richmond Hill L4B3h7  
CANADA

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

**EMV Application Kernel: AMP CT Kernel Version v3.2.19**

**Approval Number(s):**  
2-04375-1-1C-FIMT-0119-4.3g  
2-04375-1-2C-FIMT-0119-4.3g  
2-04375-1-3C-FIMT-0119-4.3g  
2-04375-1-4C-FIMT-0119-4.3g  
2-04375-1-5C-FIMT-0119-4.3g  
2-04375-1-1OS-FIMT-0119-4.3g

The EMV Application Kernel has been tested on the following terminal

**Terminal: AMP 6500**  
**PinPad: n/a**  
**Operating System: IOS = Android Version 5.1.1**

**Renewal Date: 19-Dec-2022**

**Report ID Session 1: T18REP01-491 Version V1.0 - FEIMA Ltd. Taiwan branch**

**Kernel Checksum:**

768F85D7

**Configurations Checksums:**

Config	Vendor Config ID	Terminal	Checksum
1C	CFG1	22	5C84BF5D
2C	CFG2	22	B851D824
3C	CFG3	21	FB69F774
4C	CFG4	22	8AE43EC6
5C	CFG5	24	2D988ADE

Dear Homayoon Saghari:

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 4.3 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](http://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

<b>Terminal Capabilities</b>	<b>1C</b>	<b>2C</b>	<b>3C</b>	<b>4C</b>	<b>5C</b>					
<b>Card Data Input Capability</b>										
Terminal Type	22	22	21	22	24					
Manual Key Entry	Yes	Yes	Yes	Yes	Yes					
Magnetic Stripe	Yes	Yes	Yes	Yes	Yes					
IC with Contacts	Yes	Yes	Yes	Yes	Yes					
<b>CVM Capability</b>										
Plaintext PIN	Yes	Yes	No	No	Yes					
Online Enciphered PIN	Yes	No	Yes	Yes	Yes					
Signature (Paper)	Yes	Yes	Yes	No	No					
Offline Enciphered PIN	Yes	Yes	No	No	Yes					
No CVM	Yes	No	Yes	No	No					
<b>Security Capability</b>										
SDA & DDA	Yes	Yes	No	Yes	Yes					
Card Capture	No	No	No	No	No					
CDA	Mode 1	Mode 1	No	Mode 1	Mode 1					
<b>Transaction Type Capability</b>										
Tran Type - Cash	No	No	No	No	No					
Tran Type - Goods	Yes	Yes	Yes	Yes	Yes					
Tran Type - Services	Yes	Yes	Yes	Yes	Yes					
Tran Type - Cash Back	Yes	Yes	Yes	Yes	Yes					
Tran Type - Inquiry	Yes	Yes	Yes	Yes	Yes					
Tran Type - Transfer	No	No	No	No	No					
Tran Type - Payment	No	No	No	No	No					
Tran Type - Admin	No	No	No	No	No					
Tran Type - Cash Deposit	No	No	No	No	No					
<b>Terminal Data Input Capability</b>										
Keypad	Yes	Yes	Yes	Yes	Yes					
Numeric Keys	Yes	Yes	Yes	Yes	Yes					
Alpha and Special Character Keys	Yes	Yes	Yes	Yes	Yes					
Command Keys	Yes	Yes	Yes	Yes	Yes					
Function Keys	Yes	Yes	Yes	Yes	Yes					
<b>Terminal Data Output Capability</b>										
Print, Attendant	Yes	Yes	Yes	No	No					
Print, Cardholder	No	No	No	No	Yes					
Display, Attendant	Yes	Yes	Yes	Yes	No					
Display, Cardholder	No	No	No	No	Yes					
Code Table 10	No	No	No	No	No					
Code Table 9	No	No	No	No	No					
Code Table 8	No	No	No	No	No					
Code Table 7	No	No	No	No	No					
Code Table 6	No	No	No	No	No					
Code Table 5	No	No	No	No	No					
Code Table 4	No	No	No	No	No					
Code Table 3	No	No	No	No	No					
Code Table 2	No	No	No	No	No					
Code Table 1	Yes	Yes	Yes	Yes	Yes					

(continued)	1C	2C	3C	4C	5C					
<b>Application Selection</b>										
PSE	Yes	Yes	Yes	No	Yes					
Cardholder Confirmation	Yes	Yes	Yes	Yes	Yes					
Preferred display order	No	No	No	No	No					
Partial AID Selection	Yes	Yes	Yes	Yes	Yes					
Multi language	No	No	No	No	No					
EMV Language Selection method	Yes	Yes	Yes	Yes	Yes					
Common Character Set	Yes	Yes	Yes	Yes	Yes					
<b>Data Authentication</b>										
MAX CA Public key	248	248		248	248					
Exponents	3 and 2 <sup>16</sup> +1	3 and 2 <sup>16</sup> +1		3 and 2 <sup>16</sup> +1	3 and 2 <sup>16</sup> +1					
Revocation of Issuer PK Certificate	Yes	Yes	No	Yes	Yes					
Certificate Revocation List Format	RID, Index, CSN	RID, Index, CSN		RID, Index, CSN	RID, Index, CSN					
Default DDOL	Yes	Yes	No	Yes	Yes					
Manual act. when CA PK loading fails	No	No	No	No	No					
CA PK verified with check sum	Yes	Yes	No	Yes	Yes					
<b>Cardholder Verification Method</b>										
Bypass PIN Entry	Yes	Yes	No	Yes	No					
Subsequent Bypass PIN Entry	Yes	Yes	No	Yes	No					
Get Data for PIN Try Counter	Yes	Yes	No	Yes	Yes					
Fail CVM	Yes	Yes	Yes	Yes	Yes					
Amount known before CVM proces.	Yes	Yes	Yes	Yes	Yes					
<b>Terminal Risk Management</b>										
Floor Limit Checking	Yes	Yes	Yes	Yes	Yes					
Random Transaction Selection	Yes	Yes	Yes	Yes	Yes					
Velocity Checking	Yes	Yes	Yes	Yes	Yes					
Transaction Log	No	No	No	No	No					
Exception File	No	No	No	No	No					
TRM irrespective of AIP setting (expected behavior)	Yes	Yes	Yes	Yes	Yes					
<b>Terminal Action Analysis</b>										
Terminal Action Codes supported	Yes	Yes	Yes	Yes	Yes					
TAC can be deleted or disabled	No	No	No	No	No					
How does offline only Terminal process Default Action Codes?	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	Normal	N/A	Normal					

<b>(continued)</b>	<b>1C</b>	<b>2C</b>	<b>3C</b>	<b>4C</b>	<b>5C</b>					
<b>Completion Processing</b>										
Forced Online	Yes	Yes	No	Yes	No					
Forced Acceptance	No	No	No	No	No					
Advices	Yes	Yes	Yes	Yes	No					
Voice Referrals Initiated by Issuer	Yes	Yes	Yes	Yes	No					
Batch Data Capture	No	No	No	No	No					
Online Data Capture	Yes	Yes	Yes	Yes	Yes					
Default TDOL	Yes	Yes	Yes	Yes	Yes					
<b>Exception Handling</b>										
POS Entry Mode	80	80	80	80	80					
<b>Miscellaneous</b>										
Amount and PIN on same keypad	No	No	No	No	No					
ICC/Magstripe Reader Combined	No	No	No	No	No					
If Combined, is Magstripe read first?	No	No	No	No	No					
Supports account type selection	No	No	No	No	No					
Supports 'on fly' script processing	No	No	No	No	No					
Issuer Script device limit > 128 bytes	No	No	No	No	No					
If limit > 128, value supported?										
Internal Date Management	Yes	Yes	Yes	Yes	Yes					
Does the terminal support Receipt?	Yes	Yes	Yes	No	Yes					

# **Attachment 1**

## **Specific Terms and Conditions to the Letter of Approval**

Restriction:

**None**