July 21, 2023

Masao Matsuura

Comota Co., Ltd.

CONCURRED, Yokohama 18F

3-1,Kinkou-cho, Kanagawa-ku

Yokohama 221-0056

JAPAN

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

EMV Application Kernel: **COMOTA Common Kernel Version 1.0.7**

Approval Number(s): **2-05226-1-1C-FIMJ-0723-4.3k**
2-05226-1-2C-FIMJ-0723-4.3k
2-05226-1-1OS-FIMJ-0723-4.3k

The EMV Application Kernel has been tested on the following terminal

Terminal: **SF-4000**
PinPad: **n/a**
Operating System: **1OS = Windows 10 Version IoT Enterprise LTSC 2021**

Renewal Date: **12-Jun-2027**

Report ID   Session 1: **J23REP00-098 Version V1.0 - FIME Japan Co., Ltd.**

Kernel Checksum:

1ABE17B3E75E9092C116165978C9D7B1E1B11AAB

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	Full NoCVM	22	E1A9FFFB
2C	Self NoCVM	25	7D2F8FA1

Dear Masao Matsuura:

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 Testing Group Chair

Terminal Capabilities	1C	2C								
Card Data Input Capability										
Terminal Type	22	25								
Manual Key Entry	No	No								
Magnetic Stripe	Yes	Yes								
IC with Contacts	Yes	Yes								
CVM Capability										
Plaintext PIN	No	No								
Online Enciphered PIN	No	No								
Signature (Paper)	No	No								
Offline Enciphered PIN	No	No								
No CVM	Yes	Yes								
SB185	No	No								
Offline Finger	No	No								
Online Finger	No	No								
Offline Facial	No	No								
Online Facial	No	No								
Offline Palm	No	No								
Online Palm	No	No								
Offline Iris	No	No								
Online Iris	No	No								
Offline Voice	No	No								
Online Voice	No	No								
Security Capability										
SDA & DDA	Yes	Yes								
Card Capture	Yes	Yes								
CDA	Mode 1	Mode 1								
Transaction Type Capability										
Tran Type - Cash	No	No								
Tran Type - Goods	Yes	Yes								
Tran Type - Services	Yes	Yes								
Tran Type - Cash Back	No	No								
Tran Type - Inquiry	No	No								
Tran Type - Transfer	No	No								
Tran Type - Payment	No	No								
Tran Type - Admin	No	No								
Tran Type - Cash Deposit	No	No								
Terminal Data Input Capability										
Keypad	No	No								
Numeric Keys	No	No								
Alpha and Special Character Keys	No	No								
Command Keys	No	No								
Function Keys	No	No								

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

(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?	N/A	N/A							
Completion Processing									
Forced Online	No	No							
Forced Acceptance	No	No							
Advices	No	No							
Voice Referrals Initiated by Issuer	Yes	No							
Batch Data Capture	No	No							
Online Data Capture	Yes	Yes							
Default TDOL	Yes	Yes							
Default TDOL not configured	Yes	Yes							
Exception Handling									
POS Entry Mode	80	80							
Miscellaneous									
Amount and PIN on same keypad	No	No							
ICC/Magstripe Reader Combined	Yes	Yes							
If Combined, is Magstripe read first?	No	No							
Supports account type selection	No	No							
Supports 'on fly' script processing	No	No							
Issuer Script device limit > 128 bytes	Yes	Yes							
If limit > 128, value supported?	2048	2048							
Internal Date Management	No	No							
Does the terminal support Receipt?	Yes	Yes							

Attachment 1
Specific Terms and Conditions to the Letter of Approval

Restriction:

None