

January 05, 2022

Mr. Keiji Nogami  
OMRON SOFTWARE Co.,Ltd  
24-1FURUKAWAKAN BLD.2F  
MIBUBOJO-CHO,NAKAGYO-KU  
KYOTO 6048804  
JAPAN

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

**EMV Application Kernel: 3M8CP-EMV4.3 Version Ver.J**

**Approval Number(s):**  
2-04939-1-1C-TUVJ-0122-4.3j  
2-04939-1-2C-TUVJ-0122-4.3j  
2-04939-1-3C-TUVJ-0122-4.3j  
2-04939-1-4C-TUVJ-0122-4.3j  
2-04939-1-5C-TUVJ-0122-4.3j  
2-04939-1-6C-TUVJ-0122-4.3j  
2-04939-1-1OS-TUVJ-0122-4.3j

The EMV Application Kernel has been tested on the following terminal

**Terminal: eZ PAD**  
**PinPad: n/a**  
**Operating System: IOS = Linux Version 3.10**

**Renewal Date: 29-Dec-2025**

**Report ID Session 1: TYO SMT 73589727-EMV2 Version 2.0 - Tokyo Testing Center**

**Kernel Checksum:**

156ec753

**Configurations Checksums:**

Config	Vendor Config ID	Terminal	Checksum
1C	AllSupport	22	22B8F7455CC2DEAAF659BF82FAE75210D7C355E1
2C	NoCVM	22	CD7C7C666CC8A66D56CA9F4932D34C2575A9AFF7
3C	Standard	22	301AE0D695F70854A9E492AB61DC2DEB831402B3
4C	Unattended- AllSupport	25	C2532489F816C8798037EC3E2A15B0F952F810F7
5C	Unattended- NoCVM	25	CA61C4A5709C3FA6650DF17DFA1EE64467F4468E
6C	Unattended- Standard	25	C749034E47644546D46B63181D873015C7345A29

Dear Mr. Nogami:

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>6C</b>				
<b>Card Data Input Capability</b>										
Terminal Type	22	22	22	25	25	25				
Manual Key Entry	Yes	Yes	Yes	Yes	Yes	Yes				
Magnetic Stripe	Yes	Yes	Yes	Yes	Yes	Yes				
IC with Contacts	Yes	Yes	Yes	Yes	Yes	Yes				
<b>CVM Capability</b>										
Plaintext PIN	Yes	No	Yes	Yes	No	Yes				
Online Enciphered PIN	Yes	No	No	Yes	No	No				
Signature (Paper)	Yes	No	Yes	No	No	No				
Offline Enciphered PIN	Yes	No	Yes	Yes	No	Yes				
No CVM	Yes	Yes	Yes	Yes	Yes	Yes				
SB185	No	No	No	No	No	No				
Offline Finger	No	No	No	No	No	No				
Online Finger	No	No	No	No	No	No				
Offline Facial	No	No	No	No	No	No				
Online Facial	No	No	No	No	No	No				
Offline Palm	No	No	No	No	No	No				
Online Palm	No	No	No	No	No	No				
Offline Iris	No	No	No	No	No	No				
Online Iris	No	No	No	No	No	No				
Offline Voice	No	No	No	No	No	No				
Online Voice	No	No	No	No	No	No				
<b>Security Capability</b>										
SDA & DDA	Yes	Yes	Yes	Yes	Yes	Yes				
Card Capture	No	No	No	No	No	No				
CDA	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1				
<b>Transaction Type Capability</b>										
Tran Type - Cash	No	No	No	No	No	No				
Tran Type - Goods	Yes	Yes	Yes	Yes	Yes	Yes				
Tran Type - Services	Yes	Yes	Yes	Yes	Yes	Yes				
Tran Type - Cash Back	No	No	No	No	No	No				
Tran Type - Inquiry	No	No	No	No	No	No				
Tran Type - Transfer	No	No	No	No	No	No				
Tran Type - Payment	No	No	No	No	No	No				
Tran Type - Admin	No	No	No	No	No	No				
Tran Type - Cash Deposit	No	No	No	No	No	No				
<b>Terminal Data Input Capability</b>										
Keypad	Yes	Yes	Yes	Yes	Yes	Yes				
Numeric Keys	Yes	Yes	Yes	Yes	Yes	Yes				
Alpha and Special Character Keys	No	No	No	No	No	No				
Command Keys	Yes	Yes	Yes	Yes	Yes	Yes				
Function Keys	Yes	Yes	Yes	Yes	Yes	Yes				

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

<b>(continued)</b>	<b>1C</b>	<b>2C</b>	<b>3C</b>	<b>4C</b>	<b>5C</b>	<b>6C</b>				
<b>Terminal Action Analysis</b>										
Terminal Action Codes supported	Yes	Yes	Yes	Yes	Yes	Yes				
TAC can be deleted or disabled	No	No	No	No	No	No				
How does offline only Terminal process Default Action Codes?	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?	N/A	N/A	N/A	N/A	N/A	N/A				
<b>Completion Processing</b>										
Forced Online	Yes	Yes	Yes	Yes	Yes	Yes				
Forced Acceptance	No	No	No	No	No	No				
Advices	Yes	Yes	Yes	Yes	Yes	Yes				
Voice Referrals Initiated by Issuer	Yes	Yes	Yes	Yes	Yes	Yes				
Batch Data Capture	No	No	No	No	No	No				
Online Data Capture	No	No	No	No	No	No				
Default TDOL	Yes	Yes	Yes	Yes	Yes	Yes				
Default TDOL not configured	Yes	Yes	Yes	Yes	Yes	Yes				
<b>Exception Handling</b>										
POS Entry Mode	08	08	08	08	08	08				
<b>Miscellaneous</b>										
Amount and PIN on same keypad	No	No	No	No	No	No				
ICC/Magstripe Reader Combined	No	No	No	No	No	No				
If Combined, is Magstripe read first?	No	No	No	No	No	No				
Supports account type selection	No	No	No	No	No	No				
Supports 'on fly' script processing	No	No	No	No	No	No				
Issuer Script device limit > 128 bytes	No	No	No	No	No	No				
If limit > 128, value supported?										
Internal Date Management	Yes	Yes	Yes	Yes	Yes	Yes				
Does the terminal support Receipt?	Yes	Yes	Yes	Yes	Yes	Yes				

# **Attachment 1**

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

Restriction:

**None**