

Mr. Akihiro Sugiura

DENSO WAVE INCORPORATED

1 Yoshiike Kusagi Agui-cho

Chita-gun

Aichi 470-2297

JAPAN

Re: EMVCo Letter of Approval - Contact Terminal Level 2

EMV Application Kernel: emvLibMAPCTL20 Version 1.2

Approval Number(s): **2-05592-1-1C-FIMI-0625-4.4c**

2-05592-1-2C-FIMI-0625-4.4c 2-05592-1-3C-FIMI-0625-4.4c 2-05592-1-1P-FIMI-0625-4.4c 2-05592-1-1OS-FIMI-0625-4.4c

The EMV Application Kernel has been tested on the following terminal

Terminal: RX1000QT

PinPad: 1P = RX1000QT, Android 13 - PIN pad is valid for configuration(s): 1C, 2C

Operating System: **10S = Android Version 13**

Renewal Date: 20-May-2029

Report ID Session 1: B25CPG00-080 Version 1.0 - FIME India Private Limited

Kernel Checksum:

b24d9b47

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	C1	22	E7644EB3
2C	C2	22	49571B0B
3C	C3	22	FA847FFA

PIN Pads Checksums:

PinPad	Checksum
1P	

Dear Mr. Sugiura:

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.

Authorised by Frédéric Fortin

Terminal Testing Group Chair

EMVCo, LLC

Note:

The Random Number Generator is part of the EMV specifications. This Contact Level 2 Kernel utilizes a specific Hardware component in the tested terminal to generate random numbers. To be EMV compliant, this Contact Level 2 Kernel shall be used in conjunction with terminals having this specific hardware component.

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Terminal Capabilities	1C	2C	3C						
Card Data Input Capability									
Terminal Type	22	22	22						
Manual Key Entry	Yes	Yes	Yes						
Magnetic Stripe	Yes	Yes	Yes						
IC with Contacts	Yes	Yes	Yes						
CVM Capability		I.		I		II.	I.	1	
Plaintext PIN	Yes	Yes	No						
Online Enciphered PIN	Yes	No	No						
Signature (Paper)	Yes	Yes	No						
Offline Enciphered PIN (RSA)	Yes	Yes	No						
No CVM	Yes	Yes	Yes						
Offline Enciphered PIN (ECC)	No	No	No						
Biometric	No	No	No						
Offline Finger	No	No	No						
Online Finger	No	No	No						
Offline Facial	No	No	No						
Online Facial	No	No	No						
Offline Palm	No	No	No						
Online Palm	No	No	No						
Offline Iris	No	No	No						
Online Iris	No	No	No						
Offline Voice	No	No	No						
Online Voice	No	No	No						
Security Capability		I.		I		II.	I.	1	I .
SDA & DDA	Yes	Yes	Yes						
Card Capture	No	No	No						
CDA	Mode 1	Mode 1	Mode 1						
XDA	No	No	No						
Transaction Type Capability									
Tran Type - Cash	No	No	No						
Tran Type - Goods	Yes	Yes	Yes						
Tran Type - Services	Yes	Yes	Yes						
Tran Type - Cash Back	No	No	No						
Tran Type - Inquiry	No	No	No						
Tran Type - Transfer	No	No	No						
Tran Type - Payment	No	No	No						
Tran Type - Admin	No	No	No						
Tran Type - Cash Deposit	No	No	No						
Terminal Data Input Capability		1		<u> </u>	 	1	1	1	
Keypad	Yes	Yes	Yes						
Numeric Keys	Yes	Yes	Yes						
Alpha and Special Character Keys	No	No	No						
Command Keys	Yes	Yes	Yes						
Function Keys	No	No	No						
	. 10					1			

(continued)	1C	2C	3C					
Terminal Data Output Capabili	ity							l
Print	Yes	Yes	Yes					
Display	Yes	Yes	Yes					
Code Table 10	No	No	No					
Code Table 9	No	No	No					
Code Table 8	No	No	No					
Code Table 7	No	No	No					
Code Table 6	No	No	No					
Code Table 5	No	No	No					
Code Table 4	No	No	No					
Code Table 3	No	No	No					
Code Table 2	No	No	No					
Code Table 1	Yes	Yes	Yes					
Application Selection	1	I.	l		11.	1	11	
PSE	Yes	Yes	Yes					
Cardholder Confirmation	Yes	Yes	Yes					
Preferred display order	Yes	Yes	Yes					
Partial AID Selection	Yes	Yes	Yes					
Multi language	No	No	No					
EMV Language Selection method	No	No	No					
Common Character Set	Yes	Yes	Yes					
Data Authentication				-				
Revocation of Issuer PK Certificate	No	No	No					
Certificate Revocation List Format	N/A	N/A	N/A					
Default DDOL	Yes	Yes	Yes					
Cardholder Verification Method	d			-				
Bypass PIN Entry	Yes	Yes	No					
Subsequent Bypass PIN Entry	Yes	Yes	No					
Get Data for PIN Try Counter	Yes	Yes	No					
Fail CVM	Yes	Yes	Yes					
Amount known before CVM proces.	Yes	Yes	Yes					
Terminal Risk Management								
Floor Limit Checking	Yes	Yes	Yes					
Random Transaction Selection	Yes	Yes	Yes					
Velocity Checking	Yes	Yes	Yes					
Transaction Log	Yes	Yes	Yes					
Exception File	No	No	No					
TRM irrespective of AIP setting (expected behavior)	Yes	Yes	Yes					

(continued)	1C	2C	3C					
Terminal Action Analysis								
Terminal Action Codes supported	Yes	Yes	Yes					
TAC can be deleted or disabled	No	No	No					
How does offline only Terminal process Default Action Codes?	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					
Completion Processing						1	1	
Forced Online	Yes	Yes	Yes					
Forced Acceptance	Yes	Yes	Yes					
Voice Referrals Initiated by Issuer	Yes	Yes	Yes					
Default TDOL	Yes	Yes	Yes					
Default TDOL not configured	Yes	Yes	Yes					
Exception Handling			1			1		
POS Entry Mode	80	80	80					
Miscellaneous					"	11	1	
Amount and PIN on same keypad	No	No	No					
ICC/Magstripe Reader Combined	No	No	No					
Supports account type selection	No	No	No					
Supports 'on fly' script processing	No	No	No					
Issuer Script device limit > 128 bytes	No	No	No					
If limit > 128, value supported?								
Internal Date Management	Yes	Yes	Yes					
Does the terminal support Receipt?	Yes	Yes	Yes					

Attachment 1 Specific Terms and Conditions to the Letter of Approval

Restriction:		
None		