### March 21, 2023



Beatriz Conegero

Gertec Brasil Ltda

Avenida Jabaquara, 3060 - 6th floor

São Paulo 04046-500

**BRAZIL** 

Re: EMVCo Letter of Approval - Contact Terminal Level 2

EMV Application Kernel: EMVS\_GEDI\_BC Version 1.22

*Approval Number(s):* **2-05169-1-1C-CETI-0323-4.3k** 

2-05169-1-2C-CETI-0323-4.3k 2-05169-1-3C-CETI-0323-4.3k 2-05169-1-4C-CETI-0323-4.3k 2-05169-1-5C-CETI-0323-4.3k 2-05169-1-1OS-CETI-0323-4.3k

The EMV Application Kernel has been tested on the following terminal

Terminal: PPC 930 PinPad: n/a

*Operating System:* 1OS = Linux Version Linux based kernel 2.6.32.9

Renewal Date: 21-Mar-2027

Report ID Session 1: 2GERT\_1-5818-1-5-23\_CETI Version A - CTC advanced GmbH

Kernel Checksum:

### FA8F6D570B61CA08A55DADAC

## Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum			
1C	C1	22	6AD297CA08FF9D9EB6374484			
2C	C2	22	8E0C168173735F1A4085A36C			
3C	C3	22	AC765518333B388C6729FC71			
4C	C4	22	1C50D575062D7744DAF4EF28			
5C	C5	25	F9A585C6F71BF99D9DE232E4			

## Dear Beatriz Conegero:

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 Type Approval Chair

V260514 / 2-05169 Page 2 of 6 21 March 2023

<b>Terminal Capabilities</b>	1C	2C	3C	4C	5C					
Card Data Input Capability										
Terminal Type	22	22	22	22	25					
Manual Key Entry	Yes	Yes	Yes	Yes	No					
Magnetic Stripe	Yes	Yes	Yes	Yes	Yes					
IC with Contacts	Yes	Yes	Yes	Yes	Yes					
CVM Capability										
Plaintext PIN	Yes	Yes	Yes	Yes	Yes					
Online Enciphered PIN	Yes	Yes	Yes	Yes	Yes					
Signature (Paper)	Yes	Yes	No	No	No					
Offline Enciphered PIN	Yes	Yes	Yes	Yes	Yes					
No CVM	Yes	No	Yes	No	No					
SB185	No	No	No	No	No					
Offline Finger	No	No	No	No	No					
Online Finger	No	No	No	No	No					
Offline Facial	No	No	No	No	No					
Online Facial	No	No	No	No	No					
Offline Palm	No	No	No	No	No					
Online Palm	No	No	No	No	No					
Offline Iris	No	No	No	No	No					
Online Iris	No	No	No	No	No					
Offline Voice	No	No	No	No	No					
Online Voice	No	No	No	No	No					
Security Capability	I .	I .	I .	I.	I.					1
SDA & DDA	Yes	Yes	Yes	Yes	Yes					
Card Capture	No	No	No	No	No					
CDA	Mode 1									
Transaction Type Capability	l	l	l				1	- I		1
Tran Type - Cash	Yes	Yes	Yes	Yes	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	No					
Tran Type - Inquiry	Yes	No	No	Yes	No					
Tran Type - Transfer	Yes	No	No	Yes	No					
Tran Type - Payment	Yes	No	No	Yes	No					
Tran Type - Admin	Yes	No	No	Yes	No					
Tran Type - Cash Deposit	Yes	No	No	Yes	No					
Terminal Data Input Capability										
Keypad	Yes	Yes	Yes	Yes	Yes					
Numeric Keys	Yes	Yes	Yes	Yes	Yes					
Alpha and Special Character Keys	Yes	Yes	Yes	Yes	Yes			1		
Command Keys	Yes	Yes	Yes	Yes	Yes					
Function Keys	Yes	Yes	Yes	Yes	Yes					

(continued)	1C	2C	3C	4C	5C			
Terminal Data Output Capabili	ty							
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			
Application Selection								
PSE	Yes	Yes	Yes	Yes	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	Yes	Yes	Yes	Yes	Yes			
EMV Language Selection method	No	No	No	No	No			
Common Character Set	Yes	Yes	Yes	Yes	Yes			
Data Authentication						1		
MAX CA Public key	248	248	248	248	248			
Exponents	3 and 2^16+1							
Revocation of Issuer PK Certificate	Yes	Yes	Yes	Yes	Yes			
Certificate Revocation List Format	RID+CAPK+ IDX+CSN	RID+CAPK+ IDX+CSN	RID+CAPK+ IDX+CSN	RID+CAPK+ IDX+CSN	RID+CAPK+ IDX+CSN			
Default DDOL	Yes	Yes	Yes	Yes	Yes			
Manual act. when CA PK loading fails	No	No	No	No	No			
CA PK verified with check sum	Yes	Yes	Yes	Yes	Yes			
Cardholder Verification Method	k		II.	I .	I.			
Bypass PIN Entry	Yes	Yes	Yes	Yes	No			
Subsequent Bypass PIN Entry	No	No	No	No	No			
Get Data for PIN Try Counter	Yes	Yes	Yes	Yes	Yes			
Fail CVM	Yes	Yes	Yes	Yes	Yes			
Amount known before CVM proces.	Yes	Yes	Yes	Yes	Yes			
Terminal Risk Management								
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	Yes	Yes	Yes	Yes	Yes			
Exception File	Yes	Yes	Yes	Yes	Yes			
TRM irrespective of AIP setting (expected behavior)	Yes	Yes	Yes	Yes	Yes			

(continued)	1C	2C	3C	4C	5C				
Terminal Action Analysis									
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	N/A	N/A	N/A				
Completion Processing	l	1	l			1	<u>'</u>		
Forced Online	Yes	Yes	Yes	Yes	No				
Forced Acceptance	No	No	No	No	No				
Advices	Yes	Yes	Yes	Yes	Yes				
Voice Referrals Initiated by Issuer	Yes	Yes	Yes	Yes	No				
Batch Data Capture	Yes	Yes	Yes	Yes	Yes				
Online Data Capture	Yes	Yes	Yes	Yes	No				
Default TDOL	Yes	Yes	Yes	Yes	Yes				
Default TDOL not configured	Yes	Yes	Yes	Yes	Yes				
Exception Handling							,	,	'
POS Entry Mode	80	80	80	80	80				
Miscellaneous				,	'		"	,	'
Amount and PIN on same keypad	Yes	Yes	Yes	Yes	Yes				
ICC/Magstripe Reader Combined	No	No	No	No	No				
If Combined, is Magstripe read first?	No	No	No	No	No				
Supports account type selection	Yes	Yes	Yes	Yes	Yes				
Supports 'on fly' script processing	No	No	No	No	No				
Issuer Script device limit > 128 bytes	Yes	Yes	Yes	Yes	Yes				
If limit > 128, value supported?	0	0	0	0	0				
Internal Date Management	Yes	Yes	Yes	Yes	Yes				
Does the terminal support Receipt?	Yes	Yes	Yes	Yes	Yes				

# Attachment 1 Specific Terms and Conditions to the Letter of Approval

Restriction:		
None		