

May 07, 2026

Mr. Fabrice Chapelain
MADIC ITALIA s.r.l.
Largo Guido Donegani 2
Milano 20121
Italy

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

EMV Application Kernel: Madic KL31 Version 3.1

Approval Number(s):
2-05805-1-1C-0526-4.4c
2-05805-1-2C-0526-4.4c
2-05805-1-3C-0526-4.4c
2-05805-1-4C-0526-4.4c
2-05805-1-5C-0526-4.4c
2-05805-1-1P-0526-4.4c
2-05805-1-1OS-0526-4.4c

The EMV Application Kernel has been tested on the following terminal

Terminal: MG PAY 43
PinPad: 1P = MG PAY 43, BV1000GTV, SGT00.00.00.00 - PIN pad is valid for configuration(s): 1C, 2C, 3C, 5C
Operating System: IOS = Chibios 32 bits Version 18.2

Renewal Date: 23-Apr-2030

Report ID Session 1: 2GLCE_6-0045-26-01-02-TR1_R01_CETI Version R01 - Cetecom advanced GmbH

Kernel Checksum:

888d07fe09ee3e0594bda03a1b71928a5b9e4ece6989562a2868578318a8b9de

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	prof_1	25	f5c87353d777f3a84bcd2582c6d1b2f7eacc15f20ce7353ad353ddf132e9421
2C	prof_2	25	aaf4d9cfd6963567849cb62c4e2733b1ad4235046208016047099646a7b48127
3C	prof_3	25	b6d7924982c88cc97d290b006178772e69af9ca22bede8497b0d2e8e4cdf54c5
4C	prof_4	25	30c5a82899c63f7b1d8cb41b1e1af5fffdab1efdde2fc052c989a038dd8f2d28
5C	prof_5	25	55a44cb90fcf9d47ffb5258ca3217d5653d1866b7101e746cc561721f13ec83e

PIN Pads Checksums:

PinPad	Checksum
1P	

Dear Mr. Chapelain:

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 4.4 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 and the Cryptographic Functions are part of the EMV specifications. This Contact Level 2 Kernel utilizes a specific Hardware component in the tested terminal to generate random numbers and/or Cryptographic Functions. To be EMV compliant, this Contact Level 2 Kernel shall be used in conjunction with terminals having this specific Hardware component.

Terminal Capabilities	1C	2C	3C	4C	5C					
Card Data Input Capability										
Terminal Type	25	25	25	25	25					
Manual Key Entry	No	No	No	No	No					
Magnetic Stripe	Yes	Yes	Yes	Yes	Yes					
IC with Contacts	Yes	Yes	Yes	Yes	Yes					
CVM Capability										
Plaintext PIN	Yes	No	No	No	No					
Online Enciphered PIN	Yes	Yes	No	No	No					
Signature (Paper)	No	No	No	No	No					
Offline Enciphered PIN (RSA)	Yes	Yes	Yes	No	No					
No CVM	Yes	Yes	Yes	Yes	Yes					
Offline Enciphered PIN (ECC)	No	No	No	No	No					
Biometric	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										
SDA & DDA	Yes	Yes	Yes	Yes	Yes					
Card Capture	No	No	No	No	No					
CDA	Mode 1	Mode 1	Mode 1	Mode 1	Mode 1					
XDA	No	No	No	No	No					
Transaction Type Capability										
Tran Type - Cash	Yes	Yes	Yes	Yes	Yes					
Tran Type - Goods	Yes	Yes	Yes	Yes	Yes					
Tran Type - Services	Yes	Yes	Yes	Yes	Yes					
Tran Type - Cash Back	No	No	No	No	No					
Tran Type - Inquiry	No	No	No	No	No					
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					
Terminal Data Input Capability										
Keypad	Yes	Yes	Yes	No	Yes					
Numeric Keys	Yes	Yes	Yes	No	Yes					
Alpha and Special Character Keys	No	No	No	No	No					
Command Keys	Yes	Yes	Yes	No	Yes					
Function Keys	Yes	Yes	Yes	No	Yes					

(continued)	1C	2C	3C	4C	5C					
Terminal Data Output Capability										
Print	Yes	Yes	Yes	Yes	Yes					
Display	Yes	Yes	Yes	Yes	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	No	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	Yes	Yes	Yes	Yes	Yes					
Common Character Set	Yes	Yes	Yes	Yes	Yes					
Data Authentication										
Revocation of Issuer PK Certificate	No	No	No	No	No					
Certificate Revocation List Format										
Default DDOL	Yes	Yes	Yes	Yes	Yes					
Cardholder Verification Method										
Bypass PIN Entry	Yes	Yes	Yes	Yes	Yes					
Subsequent Bypass PIN Entry	Yes	Yes	Yes	Yes	Yes					
Get Data for PIN Try Counter	Yes	Yes	Yes	No	No					
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	No	No	No	No	No					
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										
Forced Online	No	No	No	No	No					
Forced Acceptance	No	No	No	No	No					
Voice Referrals Initiated by Issuer	No	No	No	No	No					
Default TDOL	Yes	Yes	Yes	Yes	Yes					
Default TDOL not configured	No	No	No	No	No					
Exception Handling										
POS Entry Mode	80	80	80	80	80					
Miscellaneous										
Amount and PIN on same keypad	Yes	Yes	Yes	No	No					
ICC/Magstripe Reader Combined	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	Yes	Yes					

Attachment 1

Specific Terms and Conditions to the Letter of Approval

Restriction:

None