

June 03, 2021



Roland Hiltbold
Glory Global Solutions (Switzerland) AG
Champs-Montants 12a
Marin-Epagnier 2074
SWITZERLAND

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

EMV Application Kernel: EMV Library Version Config 14-15 Version 4.3j

Approval Number(s):
2-04832-1-1C-FIME-0621-4.3j
2-04832-1-2C-FIME-0621-4.3j
2-04832-1-1P-FIME-0621-4.3j
2-04832-1-1OS-FIME-0621-4.3j

The EMV Application Kernel has been tested on the following terminal

Terminal: Dell Latitude E5530
PinPad: 1P = Cryptera Model CHE1218-5611 T R1A, 414-0712 R2B - PIN pad is valid
for configuration(s): 1C, 2C
Operating System: 1OS = Windows 10 Version 10.0

Renewal Date: 03-Jun-2025

Report ID Session 1: C21REP00-223 Version V2.0 - FIME EMEA

Kernel Checksum:

E61E090B945FFD79C4B98C1516B04720A731BC4E
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Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	CONF15	15	F235471401A0431602E8BB28C3B8EAD84033D4E3
2C	CONF14	14	9F2585BAA153F78CB4804AA7B13DC0EA65831CD8

PIN Pads Checksums:

PinPad	Checksum
1P	

Dear Roland Hiltbold:

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).

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

Terminal Capabilities	1C	2C								
Card Data Input Capability										
Terminal Type	15	14								
Manual Key Entry	No	No								
Magnetic Stripe	Yes	Yes								
IC with Contacts	Yes	Yes								
CVM Capability										
Plaintext PIN	No	No								
Online Enciphered PIN	Yes	Yes								
Signature (Paper)	No	No								
Offline Enciphered PIN	Yes	No								
No CVM	No	No								
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	No								
Card Capture	Yes	Yes								
CDA	No	No								
Transaction Type Capability										
Tran Type - Cash	Yes	Yes								
Tran Type - Goods	No	No								
Tran Type - Services	No	No								
Tran Type - Cash Back	No	No								
Tran Type - Inquiry	Yes	Yes								
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	Yes	Yes								
Numeric Keys	Yes	Yes								
Alpha and Special Character Keys	No	No								
Command Keys	Yes	Yes								
Function Keys	Yes	Yes								

(continued)	1C	2C								
Terminal Data Output Capability										
Print, Attendant	No	No								
Print, Cardholder	Yes	Yes								
Display, Attendant	No	No								
Display, Cardholder	Yes	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	Yes	Yes								
Application Selection										
PSE	Yes	Yes								
Cardholder Confirmation	Yes	Yes								
Preferred display order	No	No								
Partial AID Selection	Yes	Yes								
Multi language	Yes	Yes								
EMV Language Selection method	Yes	Yes								
Common Character Set	Yes	Yes								
Data Authentication										
MAX CA Public key	248									
Exponents	3 and $2^{16}+1$									
Revocation of Issuer PK Certificate	Yes	No								
Certificate Revocation List Format	RID, CA Public Key Index, Serial Number									
Default DDOL	Yes	No								
Manual act. when CA PK loading fails	Yes	No								
CA PK verified with check sum	Yes	No								
Cardholder Verification Method										
Bypass PIN Entry	No	No								
Subsequent Bypass PIN Entry	No	No								
Get Data for PIN Try Counter	Yes	No								
Fail CVM	Yes	Yes								
Amount known before CVM proces.	Yes	Yes								
Terminal Risk Management										
Floor Limit Checking	Yes	No								
Random Transaction Selection	Yes	No								
Velocity Checking	Yes	No								
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	Skipped								
Completion Processing										
Forced Online	No	No								
Forced Acceptance	No	No								
Advices	No	No								
Voice Referrals Initiated by Issuer	No	No								
Batch Data Capture	Yes	Yes								
Online Data Capture	No	No								
Default TDOL	Yes	Yes								
Default TDOL not configured	Yes	Yes								
Exception Handling										
POS Entry Mode	91	91								
Miscellaneous										
Amount and PIN on same keypad	Yes	Yes								
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?	256	256								
Internal Date Management	Yes	Yes								
Does the terminal support Receipt?	Yes	Yes								

Attachment 1

Specific Terms and Conditions to the Letter of Approval

Restriction:

None