September 16, 2024

Mr. Viktor Kochev

Datecs Ltd.

4 Datecs Str.

Sofia 1592

BULGARIA

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

EMV Application Kernel:	**DATECS EMV KERNEL Version 2.10.2**
Approval Number(s):	**2-05464-1-1C-FIME-0924-4.4b**
	2-05464-1-2C-FIME-0924-4.4b
	2-05464-1-3C-FIME-0924-4.4b
	2-05464-1-1P-FIME-0924-4.4b
	2-05464-1-1OS-FIME-0924-4.4b

The EMV Application Kernel has been tested on the following terminal

Terminal:	**BluePad-5000**
PinPad:	**1P = BluePad-5000, EOS (Custom Based) 1.0 - PIN pad is valid for configuration(s): 1C, 2C**
Operating System:	**1OS = EOS (Custom Based) Version 1.0**

Renewal Date:	**03-Sep-2028**

Report ID	Session 1:	**C24REP01-059 Version 1.0 - FIME EMEA**

Kernel Checksum:

1A78FDE584C35E873CF3A88AEB19517405928868

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	ApOnOFFPOnOFF	22	AB39D39F543FD35B4293332D7E4EAA44A4BF31FB
2C	ApOnOFFPOff	22	571532F960E37F0D0185B11B71B4AF60AF6EB4D7
3C	NoCVMSig	22	C6BC8D2668FA3AF2CEB7BC312003050D4725C9C2

PIN Pads Checksums:

PinPad	Checksum
1P	1A78FDE584C35E873CF3A88AEB19517405928868

Dear Mr. Kochev:

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.

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										
Plaintext PIN	Yes	Yes	No							
Online Enciphered PIN	Yes	Yes	No							
Signature (Paper)	Yes	Yes	Yes							
Offline Enciphered PIN (RSA)	Yes	Yes	No							
No CVM	Yes	No	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										
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	Yes	Yes	Yes							
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										
Keypad	Yes	Yes	Yes							
Numeric Keys	Yes	Yes	Yes							
Alpha and Special Character Keys	Yes	Yes	Yes							
Command Keys	Yes	Yes	Yes							
Function Keys	Yes	Yes	Yes							

(continued)	1C	2C	3C							
Terminal Data Output Capability										
Print, Attendant	Yes	Yes	Yes							
Print, Cardholder	No	No	No							
Display, Attendant	Yes	Yes	Yes							
Display, Cardholder	No	No	No							
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										
PSE	Yes	Yes	Yes							
Cardholder Confirmation	Yes	Yes	Yes							
Preferred display order	No	No	No							
Partial AID Selection	Yes	Yes	Yes							
Multi language	Yes	Yes	Yes							
EMV Language Selection method	No	No	No							
Common Character Set	Yes	Yes	Yes							
Data Authentication										
MAX CA Public key	248	248	248							
Exponents	3 and 2^16+1	3 and 2^16+1	3 and 2^16+1							
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										
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	No	No	No							
Exception File	Yes	Yes	Yes							
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										
Forced Online	No	No	No							
Forced Acceptance	No	No	No							
Voice Referrals Initiated by Issuer	Yes	Yes	Yes							
Default TDOL	Yes	Yes	Yes							
Default TDOL not configured	Yes	Yes	Yes							
Exception Handling										
POS Entry Mode	81	81	81							
Miscellaneous										
Amount and PIN on same keypad	Yes	Yes	No							
ICC/Magstripe Reader Combined	No	No	No							
Supports account type selection	Yes	Yes	Yes							
Supports 'on fly' script processing	No	No	No							
Issuer Script device limit > 128 bytes	Yes	Yes	Yes							
If limit > 128, value supported?	256	256	256							
Internal Date Management	No	No	No							
Does the terminal support Receipt?	Yes	Yes	Yes							

Attachment 1
Specific Terms and Conditions to the Letter of Approval

Restriction:

None