February 04, 2021

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 2.10.1**

Approval Number(s):	**2-04796-1-1C-FIME-0221-4.3i**
	2-04796-1-2C-FIME-0221-4.3i
	2-04796-1-1OS-FIME-0221-4.3i

The EMV Application Kernel has been tested on the following terminal

Terminal:	**Zettle Terminal**
PinPad:	**n/a**
Operating System:	**1OS = EOS(Custom based) Version 1.0**

Renewal Date:	**25-Jan-2025**

Report ID	Session 1:	**C20REP01-746 Version 1.0 - FIME EMEA**

Kernel Checksum:

050C3A6702B6ECC65242FA159C167C2089179613

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	AOnOffPOffNoCVM	22	5A119C7EF33F6F515EF234F5A31D426F5859FFE1
2C	AOnOffPOff	22	18634A4AB737A9961DCA4493C554F034EFC8436B

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 4.3 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

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							
Card Data Input Capability									
Terminal Type	22	22							
Manual Key Entry	Yes	Yes							
Magnetic Stripe	No	No							
IC with Contacts	Yes	Yes							
CVM Capability									
Plaintext PIN	Yes	Yes							
Online Enciphered PIN	Yes	Yes							
Signature (Paper)	Yes	Yes							
Offline Enciphered PIN	Yes	Yes							
No CVM	Yes	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	Yes							
Card Capture	No	No							
CDA	Mode 1	Mode 1							
Transaction Type Capability									
Tran Type - Cash	No	No							
Tran Type - Goods	Yes	Yes							
Tran Type - Services	Yes	Yes							
Tran Type - Cash Back	Yes	Yes							
Tran Type - Inquiry	No	No							
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	Yes	Yes							
Command Keys	Yes	Yes							
Function Keys	Yes	Yes							

(continued)	1C	2C								
Terminal Data Output Capability										
Print, Attendant	Yes	Yes								
Print, Cardholder	No	No								
Display, Attendant	Yes	Yes								
Display, Cardholder	No	No								
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	Yes	Yes								
Partial AID Selection	Yes	Yes								
Multi language	Yes	Yes								
EMV Language Selection method	No	No								
Common Character Set	Yes	Yes								
Data Authentication										
MAX CA Public key	248	248								
Exponents	3 and 2^16+1	3 and 2^16+1								
Revocation of Issuer PK Certificate	No	No								
Certificate Revocation List Format	N/A	N/A								
Default DDOL	Yes	Yes								
Manual act. when CA PK loading fails	No	No								
CA PK verified with check sum	Yes	Yes								
Cardholder Verification Method										
Bypass PIN Entry	Yes	Yes								
Subsequent Bypass PIN Entry	Yes	Yes								
Get Data for PIN Try Counter	Yes	Yes								
Fail CVM	Yes	Yes								
Amount known before CVM proces.	Yes	Yes								
Terminal Risk Management										
Floor Limit Checking	Yes	Yes								
Random Transaction Selection	Yes	Yes								
Velocity Checking	Yes	Yes								
Transaction Log	No	No								
Exception File	Yes	Yes								
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	N/A							
Completion Processing									
Forced Online	No	No							
Forced Acceptance	No	No							
Advices	Yes	Yes							
Voice Referrals Initiated by Issuer	Yes	Yes							
Batch Data Capture	Yes	Yes							
Online Data Capture	No	No							
Default TDOL	Yes	Yes							
Exception Handling									
POS Entry Mode	N/A	N/A							
Miscellaneous									
Amount and PIN on same keypad	Yes	Yes							
ICC/Magstripe Reader Combined	No	No							
If Combined, is Magstripe read first?	No	No							
Supports account type selection	Yes	Yes							
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	No	No							
Does the terminal support Receipt?	Yes	Yes							

Attachment 1
Specific Terms and Conditions to the Letter of Approval

Restriction:

None