January 26, 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 2.10.1**

Approval Number(s):   **2-05294-1-1C-ULVS-0124-4.4a**

2-05294-1-1OS-ULVS-0124-4.4a

The EMV Application Kernel has been tested on the following terminal

Terminal: **Card Reader One v2**

PinPad: **n/a**

Operating System: **1OS = EOS(Custom Based) Version 1.0**

Renewal Date: **19-Jan-2028**

Report ID   Session 1: **2 DATE-RP14980228JD01A-ULVS Version 1.0 - UL VS Ltd**

Kernel Checksum:

050C3A6702B6ECC65242FA159C167C2089179613

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	AOnOffPOnOff	22	7C1CA9A46832D04505550C303D5C7E755F2060F8

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.

EMVCo, LLC, a Delaware limited liability company

By:

Name: Frédéric Fortin

Title: EMVCo Terminal Testing Group 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								
Card Data Input Capability									
Terminal Type	22								
Manual Key Entry	Yes								
Magnetic Stripe	No								
IC with Contacts	Yes								
CVM Capability									
Plaintext PIN	Yes								
Online Enciphered PIN	Yes								
Signature (Paper)	Yes								
Offline Enciphered PIN (RSA)	Yes								
No CVM	Yes								
Biometric	No								
Offline Finger	No								
Online Finger	No								
Offline Facial	No								
Online Facial	No								
Offline Palm	No								
Online Palm	No								
Offline Iris	No								
Online Iris	No								
Offline Voice	No								
Online Voice	No								
Security Capability									
SDA & DDA	Yes								
Card Capture	No								
CDA	Mode 1								
Transaction Type Capability									
Tran Type - Cash	No								
Tran Type - Goods	Yes								
Tran Type - Services	Yes								
Tran Type - Cash Back	Yes								
Tran Type - Inquiry	No								
Tran Type - Transfer	No								
Tran Type - Payment	No								
Tran Type - Admin	No								
Tran Type - Cash Deposit	No								
Terminal Data Input Capability									
Keypad	Yes								
Numeric Keys	Yes								
Alpha and Special Character Keys	Yes								
Command Keys	Yes								
Function Keys	Yes								

(continued)	1C								
Terminal Data Output Capability									
Print, Attendant	Yes								
Print, Cardholder	No								
Display, Attendant	Yes								
Display, Cardholder	No								
Code Table 10	No								
Code Table 9	No								
Code Table 8	No								
Code Table 7	No								
Code Table 6	No								
Code Table 5	No								
Code Table 4	No								
Code Table 3	No								
Code Table 2	No								
Code Table 1	Yes								
Application Selection									
PSE	Yes								
Cardholder Confirmation	Yes								
Preferred display order	No								
Partial AID Selection	Yes								
Multi language	Yes								
EMV Language Selection method	No								
Common Character Set	Yes								
Data Authentication									
MAX CA Public key	248								
Exponents	3 and 2^16+1								
Revocation of Issuer PK Certificate	No								
Certificate Revocation List Format	N/A								
Default DDOL	Yes								
Manual act. when CA PK loading fails	No								
CA PK verified with check sum	Yes								
Cardholder Verification Method									
Bypass PIN Entry	Yes								
Subsequent Bypass PIN Entry	Yes								
Get Data for PIN Try Counter	Yes								
Fail CVM	Yes								
Amount known before CVM proces.	Yes								
Terminal Risk Management									
Floor Limit Checking	Yes								
Random Transaction Selection	Yes								
Velocity Checking	Yes								
Transaction Log	No								
Exception File	Yes								
TRM irrespective of AIP setting (expected behavior)	Yes								

(continued)	1C									
Terminal Action Analysis										
Terminal Action Codes supported	Yes									
TAC can be deleted or disabled	No									
How does offline only Terminal process Default Action Codes?	N/A									
How does online only terminal process TAC/IAC-Default when unable to go online?	N/A									
Completion Processing										
Forced Online	No									
Forced Acceptance	No									
Advices	Yes									
Voice Referrals Initiated by Issuer	Yes									
Batch Data Capture	Yes									
Online Data Capture	No									
Default TDOL	Yes									
Default TDOL not configured	Yes									
Exception Handling										
POS Entry Mode	N/A									
Miscellaneous										
Amount and PIN on same keypad	Yes									
ICC/Magstripe Reader Combined	No									
If Combined, is Magstripe read first?	No									
Supports account type selection	Yes									
Supports 'on fly' script processing	No									
Issuer Script device limit > 128 bytes	Yes									
If limit > 128, value supported?	256									
Internal Date Management	No									
Does the terminal support Receipt?	Yes									

Attachment 1
Specific Terms and Conditions to the Letter of Approval

Restriction:

None