February 21, 2025

Mr. Stefan Derev Datecs Ltd. 4 Datecs Str.

Sofia 1592 Bulgaria

Re:

## EMVCo Letter of Approval - Contact Terminal Level 2

EMV Application Kernel:	Datecs EMV KERNEL Version 2.10.4
Approval Number(s):	2-05541-1-1C-FSUL-0225-4.4b
	2-05541-1-2C-FSUL-0225-4.4b
	2-05541-1-3C-FSUL-0225-4.4b
	2-05541-1-4C-FSUL-0225-4.4b
	2-05541-1-5C-FSUL-0225-4.4b
	2-05541-1-1P-FSUL-0225-4.4b
	2-05541-1-10S-FSUL-0225-4.4b

 The EMV Application Kernel has been tested on the following terminal

 Terminal:
 BlueCash-05

 PinPad:
 1P = BlueCash-05, EOS (Custom Based) 1.0 - PIN pad is valid for configuration(s): 1C, 2C, 4C

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

Renewal Date: 19-Feb-2029

#### *Report ID* Session 1: 2 DATE-RPE213C0723JD01A-FSUL Version 1.0 - Fime Services UK Ltd.

Kernel Checksum:

DB0F0	DB0F01B3F1E0454FCE830E35D5B470C3ECF857D8									
Configu	rations Checksums:									
Config	Vendor Config ID	Terminal	Checksum							
1C	AOnOffPOnOffNoC	22	7C1CA9A46832D04505550C303D5C7E755F2060F8							
	VM									
2C	AOnOffPOnOff	22	1A13991ACCCAD0713B18AE870BA3D966A8D78AA2							
3C	NoCVMSig	22	4B7DEA06362E034783E50A4A1BE4332CE06D4CC3							
4C	AOnOffPOnOffNoC	25	330158AEF4E2D0DAD888F17F8D40A353DF485988							
	VMUnattended									
5C	NoCVMSigUnatten	25	02D68268C31B6DFC3DE8EAC80CF1ABD486210F85							
	ded									

#### PIN Pads Checksums:

PinPad	Checksum
1P	DB0F01B3F1E0454FCE830E35D5B470C3ECF857D8



#### Dear Mr. Derev:

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	4C	5C			
Card Data Input Capability								
Terminal Type	22	22	22	25	25			
Manual Key Entry	Yes	Yes	Yes	Yes	Yes			
Magnetic Stripe	No	No	No	No	No			
IC with Contacts	Yes	Yes	Yes	Yes	Yes			
CVM Capability								 
Plaintext PIN	Yes	Yes	No	Yes	No			
Online Enciphered PIN	Yes	Yes	No	Yes	No			
Signature (Paper)	Yes	Yes	Yes	No	No			
Offline Enciphered PIN (RSA)	Yes	Yes	No	Yes	No			
No CVM	Yes	No	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						L II		 -
SDA & DDA	Yes	Yes	Yes	Yes	Yes			
Card Capture	No	No	No	No	No			
CDA	Mode 1							
XDA	No	No	No	No	No			
Transaction Type Capability						L II		 -
Tran Type - Cash	No	No	No	No	No			
Tran Type - Goods	Yes	Yes	Yes	Yes	Yes			
Tran Type - Services	Yes	Yes	Yes	Yes	Yes			
Tran Type - Cash Back	Yes	Yes	Yes	Yes	Yes			
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	Yes	Yes			
Numeric Keys	Yes	Yes	Yes	Yes	Yes			
Alpha and Special Character Keys	Yes	Yes	Yes	Yes	Yes			
Command Keys	Yes	Yes	Yes	Yes	Yes			
Function Keys	Yes	Yes	Yes	Yes	Yes			

(continued)	1C	2C	<b>3</b> C	<b>4</b> C	5C				
Terminal Data Output Capabili	ity								
Print, Attendant	Yes	Yes	Yes	No	No				Τ
Print, Cardholder	No	No	No	Yes	Yes				
Display, Attendant	Yes	Yes	Yes	No	No				
Display, Cardholder	No	No	No	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		1	1				1	-	_
PSE	Yes	Yes	Yes	Yes	Yes				
Cardholder Confirmation	Yes	Yes	Yes	Yes	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	No	No	No	No	No				
Common Character Set	Yes	Yes	Yes	Yes	Yes				-
Data Authentication						L			
MAX CA Public key	248	248	248	248	248				
Exponents	3 and 2^16+1	3 and 2^16+1	3 and 2^16+1	3 and 2^16+1	3 and 2^16+1				
Revocation of Issuer PK Certificate	No	No	No	No	No				1
Certificate Revocation List Format									
Default DDOL	Yes	Yes	Yes	Yes	Yes				-
Cardholder Verification Metho	d	1			1	I I	1		
Bypass PIN Entry	Yes	Yes	No	Yes	No				
Subsequent Bypass PIN Entry	Yes	Yes	No	Yes	No				
Get Data for PIN Try Counter	Yes	Yes	No	Yes	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	No	No	No	No	No				
Exception File	Yes	Yes	Yes	Yes	Yes				
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	1	1	1	1		L.			
Forced Online	No	No	No	No	No				
Forced Acceptance	No	No	No	No	No				
Voice Referrals Initiated by Issuer	Yes	Yes	Yes	No	No				
Default TDOL	Yes	Yes	Yes	Yes	Yes				
Default TDOL not configured	No	No	No	No	No				
Exception Handling	r	r.		r		<b>I</b>	k	I	
POS Entry Mode	N/A	N/A	N/A	N/A	N/A				
Miscellaneous						<u> </u>	L		
Amount and PIN on same keypad	Yes	Yes	No	Yes	No				
ICC/Magstripe Reader Combined	No	No	No	No	No				
Supports account type selection	Yes	Yes	Yes	Yes	Yes				
Supports 'on fly' script processing	No	No	No	No	No				
Issuer Script device limit > 128 bytes	Yes	Yes	Yes	Yes	Yes				
If limit > 128, value supported?	256	256	256	256	256				
Internal Date Management	No	No	No	No	No				
Does the terminal support Receipt?	Yes	Yes	Yes	Yes	No				

# Attachment 1 Specific Terms and Conditions to the Letter of Approval

Restriction:

None