May 31, 2024

Artyom Belyakov CFT-Asia LLP 43 Mynbaev st.

Almaty 050008 Kazakhstan

Re: El		EMVCo L	MVCo Letter of Approval - Contact Terminal Level 2		
EMV Application Kernel:		CFTA_	CFTA_EMV_L2 Version 1.01		
Approval Number(s):		2-05425	2-05425-1-1S-ICTK-0524-4.4b 2-05425-1-1P-ICTK-0524-4.4b		
		2-05425			
		2-05425	5-1-1OS-ICTK-0524-4.4b		
The EM	V Application Kerr	nel has beer	n tested on the following terminal		
Terminal:		Sankyo	Sankyo ICT3Q8-3H0180-S on HP ProBook 440 G5		
PinPad:		1 P = C	1P = CFTA Pinpad Simulator on HP ProBook 440 G5, CFTA PS 1.0		
Operating System:		10S = V	1OS = Windows 10 (64 bit) Version 10.0		
Renewal	Date:	28-May	7-2028		
Report II	D Session	1: EDT24	004 Version 2.0 - ICTK Co., Ltd.		
Kernel C	hecksum:				
C3D204	103F2EE7BEA322				
Configur	ation Checksum:				
Config	Vendor Config ID	Terminal	Checksum		
1S		14	BD7B952AE0D4BA6B70AD		
PIN Pad	s Checksums:				
PinPad			Checksum		
1P					

Dear Artyom Belyakov:

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 Authorised by : Frédéric Fortin EMVCo Terminal Testing Group Chair

erminal Capabilities	Value Supported
ard Data Input Capability	
Manual Key Entry	Yes
Magnetic Stripe	Yes
IC with Contacts	Yes
VM Capability	
Plaintext PIN for ICC Verification	No
Enciphered PIN for online Verification	Yes
Signature (Paper)	No
Enciphered PIN for offline Verification (RSA ODE)	No
No CVM Required	No
Enciphered PIN for offline Verification (ECC ODE)	No
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
ecurity Capability	
Static Data Authentication and Dynamic Data Authentication	No
Card Capture	Yes
Combined Dynamic Data Authentication / Application Cryptogram Generation	No
Extended Data Authentication (XDA)	No
ansaction Type Capability	
Cash	Yes
Goods	Yes
Services	Yes
Cash Back	No
Inquiry	Yes
Transfer	Yes
Payment	Yes
Administrative	Yes
Cash Deposit	Yes
erminal Data Input Capability	
Does terminal have keypad	Yes
Numeric Keys	Yes
Alphabetic and Special Character Keys	Yes
Command Keys	Yes
Function Keys	Yes
erminal Data Output Capability	
Print, Attendant (Mandatory for terminals supporting signature)	No
Print, Cardholder	Yes
Display, Attendant (Mandatory for Attended terminals)	No
Display Cardholder	Yes

erminal Capabilities	Value Supported
erminal Data Output Capability	
Code Table 10	No
Code Table 9	No
Code Table 8	No
Code Table 7	No
Code Table 6	No
Code Table 5	Yes
Code Table 4	No
Code Table 3	No
Code Table 2	No
Code Table 1	Yes
pplication Selection	
Support PSE selection Method	Yes
Support Cardholder Selection & Confirmation	Yes
Does Terminal have a preferred order of displaying applications	No
Does terminal perfom partial AID selection	Yes
Does the terminal have multi language support	Yes
Does the terminal support the EMV Language Selection method	Yes
Does the terminal support the Common Character Set as defined in Annex B table 20 Book 4	Yes
electable Kernel Configurations	
Is your Multi-Configuration Kernel capable of dynamically selecting a configuration at the time of transaction	No
ata Authentication	
What is the maximun supported Certificate Authority Public Key Size (Mandatory for terminals supporting Data Authentication with minimal support for 248 bytes)	N/A
What exponents does the terminal support (Mandatory for terminals supporting Data Authentication, 3 and 2^16+1)	N/A
During data authentication does the terminal check validity for revocation of Issuer Public Key Certificate	No
When supporting certificate revocation, what is the Certificate Revocation List format?	
Does the terminal contain a default DDOL (Mandatory for terminals supporting DDA)	No
ardholder Verification Method	T
Terminal supports bypass PIN Entry	No
Terminal supports Subsequent bypass PIN Entry	No
Terminal supports Get Data for PIN Try Counter	No
Terminal supports Fail CVM	Yes
Are amounts known before CVM processing	No
erminal Risk Management	T
Floor Limit Checking (Mandatory for offline only terminals and offline terminals with online capability)	No
Random Transaction Selection (Mandatory for offline terminals with online capability, except when cardholder controlled)	No
Velocity Checking (Mandatory for offline only terminals and offline terminals with online capability)	No
Transaction Log	No
Exception File	No
Terminal Risk Management performed irrespective of AIP setting (expected behavior)	Yes

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Terminal Capabilities Value Supported **Terminal Action Analysis** Does the terminal support Terminal Action Codes Yes Can the Terminal Action Codes be deleted or disabled? No If yes what are the default TAC values supported? TAC Denial: (according to Book 3 Section 10.7) TAC Online: TAC Default: How does Offline Only Terminal process Default Action Codes prior to First Generate AC? N/A (Offline Only Terminal shall support one option) How does online only terminal process TAC/IAC-Default when unable to go online? Skipped **Completion Processing** Transaction Forced Online Capability No Transaction Forced Acceptance Capability No Does the terminal support Issuer initiated Voice Referrals No Does the terminal support a Default TDOL Yes If a Default TDOL is supported, can this default TDOL be not configured (or not loaded) in No the terminal Default TDOL TVR bit set before or after the 1st Generate AC Terminal Action Analysis After Exception Handling What is the POS Entry Mode value when IC cannot be read and the transaction falls back 80 using Magstripe (Mandatory for attended terminals) Miscellaneous Is the terminal equipped with a PIN Pad Yes Is the amount and PIN entered at the same keypad No Is the ICC/Magstripe Reader combined Yes Does the terminal support account type selection No Does the terminal support 'on fly' script processing (not recommended behavior) No Is the Issuer Script device limit greater than 128 bytes Yes If the Issuer Script device limit is greater than 128 bytes, what is the value supported 248 Does the terminal support Internal Date Management No Is the Level 2 Contact Kernel Random Generator using the algorithm described in Book2, Yes section 11.3 If the Level 2 Contact Kernel Random Generator is not using the algorithm described in n/a Book2, section 11.3, is this function PCI approved If the Level 2 Contact Kernel Random Generator is not using the algorithm described in Book2, section 11.3, describe the function (such as algorithm used, etc) Is the Level 2 Contact Kernel Software dependent on the Terminal Hardware No If answer to previous question is Yes, describe the function and the Hardware Are the Cryptographic functions (RSA, Hash, etc) of the Level 2 Contact Kernel Software No dependent on the Terminal Hardware If answer to previous question is Yes, describe the Hardware Is any other functions of the Level 2 Contact Kernel Software dependent on the Terminal No Hardware If answer to previous question is Yes, describe the functions and the Hardware

Terminal Capabilities

Value Supported

Does the terminal support Receipt (by printing or any electronic means)?	Yes
ist the Currency Codes supported as for ISO 4217 f Kernel supports multiple currency codes, at least one per currency exponent supported shall be listed and at a minimum 10 regardless of the actual number supported.	156 398 417 643 840 860 934 949 972 978
Does the terminal support the Application Selection Registered Proprietary Data (ASRPD)?	No
ist the Language(s) supported as for ISO 639 minimum one shall be declared, and up to 10 if Multiple Languages are supported)	en ru
Can the Kernel be configured so the data object 'Terminal Risk Management Data' '9F1D' is absent or configured with no value (00 is a value)?	Yes
Can the Transaction Sequence Counter (TSC) be personalized to any value?	No
f answer to previous question is Yes, what is the Maximum Value of the Transaction Sequence Counter?	
ecksum	
Does the product comply with the Checksum rules as defined in Contact Terminal Level 2 administrative process	Yes
This is an Initial submission or Subsequent submission or renewal of the original approved product prior to the effective date of checksum rules (cf Terminal Type Approval Bulletin No. 134)	n/a
Configuration Checksum (Static Kernel only)	BD7B952AE0D4BA6B70A

Attachment 1 Specific Terms and Conditions to the Letter of Approval

Restriction:

None