July 03, 2025



Jea Hee Lee ATEC Mobility 289, Pangyo-ro, Bundang-gu ATEC Seongnam-si 13488 Korea, Republic of

Re:		EMVCo Letter of Approval - Contact Terminal Level 2							
EMV Application Kernel:		EMV_4	EMV_4.4C Version IC_FW_V1.1						
Approval Number(s):		2-05629	2-05629-1-1S-ICTK-0725-4.4c						
		2-05629	2-05629-1-1P-ICTK-0725-4.4c						
		2-05629	2-05629-1-10S-ICTK-0725-4.4c						
The EMV Application Kernel has been tested on the following terminal									
Terminal:		ATN-II	ATN-IFM100						
PinPad:		1P = E V2.12	1P = EMV Host Simulator on Desktop Dell inspiron 3671, CLEVER-EM, V2.12						
Operating System:		10S = f	1OS = firmware 32bit Version IC_FW_V1.1						
Renewal Date:		27-Jun-	27-Jun-2029						
Report ID Session 1: EDT25055 Version 1.0 - Bureau Veritas ICTK Co., Ltd.									
Kernel (	Kernel Checksum:								
CB91B	3448								
Configu	Configuration Checksum:								
Config	Vendor Config ID	Terminal	Checksum						
1 <b>S</b>		22	EB2A56F2						
PIN Pad	ls Checksums:								
PinPad									
1P									

Dear Jea Hee Lee:

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

erminal Capabilities	Value Supported
ard Data Input Capability	
Manual Key Entry	No
Magnetic Stripe	Yes
IC with Contacts	Yes
VM Capability	
Plaintext PIN for ICC Verification	Yes
Enciphered PIN for online Verification	Yes
Signature (Paper)	Yes
Enciphered PIN for offline Verification (RSA ODE)	Yes
No CVM Required	Yes
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	Yes
Card Capture	No
Combined Dynamic Data Authentication / Application Cryptogram Generation	Mode 1
Extended Data Authentication (XDA)	No
ransaction Type Capability	
Cash	No
Goods	Yes
Services	Yes
Cash Back	No
Inquiry	No
Transfer	No
Payment	No
Administrative	No
Cash Deposit	No
erminal Data Input Capability	I
Does terminal have keypad	Yes
Numeric Keys	Yes
Alphabetic and Special Character Keys	No
Command Keys	Yes
Function Keys	Yes
erminal Data Output Capability	
erminal Data Output Capability Print, Attendant and/or Cardholder	Yes

Ferminal Capabilities	Value Supported					
Terminal 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	No					
Code Table 4	No					
Code Table 3	No					
Code Table 2	No					
Code Table 1	No					
Application 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	No					
Does the terminal support the Common Character Set as defined in Annex B table 20 Book 4	Yes					
Selectable Kernel Configurations	IL.					
Is your Multi-Configuration Kernel capable of dynamically selecting a configuration at the time of transaction	No					
Data Authentication						
During data authentication does the terminal check validity for revocation of Issuer Public Key Certificate	Yes					
When supporting certificate revocation, what is the Certificate Revocation List format?	RID, CA Public Key Index Certificate Serial Numbe					
Does the terminal contain a default DDOL (Mandatory for terminals supporting DDA)	Yes					
Cardholder Verification Method						
Terminal supports bypass PIN Entry	Yes					
Terminal supports Subsequent bypass PIN Entry	Yes					
Terminal supports Get Data for PIN Try Counter	Yes					
Terminal supports Fail CVM	Yes					
Are amounts known before CVM processing	Yes					
Terminal Risk Management						
Floor Limit Checking (Mandatory for offline only terminals and offline terminals with online capability)	Yes					
Random Transaction Selection (Mandatory for offline terminals with online capability, except when cardholder controlled)	Yes					
Velocity Checking (Mandatory for offline only terminals and offline terminals with online capability)	Yes					
Transaction Log	No					
Exception File	No					
Terminal Risk Management performed irrespective of AIP setting (expected behavior)	Yes					

## **Terminal Capabilities**

T	erminal Action Analysis				
	Does the terminal support Terminal Action Codes	Yes			
	Can the Terminal Action Codes be deleted or disabled?	Yes			
	If yes what are the default TAC values supported? (according to Book 3 Section 10.7)				
	How does Offline Only Terminal process Default Action Codes prior to First Generate AC? (Offline Only Terminal shall support one option)	N/A			
	How does online only terminal process TAC/IAC-Default when unable to go online?	N/A			
Completion Processing					
	Transaction Forced Online Capability	Yes			
	Transaction Forced Acceptance Capability	No			
	Does the terminal support Issuer initiated Voice Referrals	Yes			
	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 the terminal	No			
	Default TDOL TVR bit set before or after the 1st Generate AC Terminal Action Analysis	Before			
Ē	ception Handling				
	What is the POS Entry Mode value when IC cannot be read and the transaction falls back using Magstripe (Mandatory for attended terminals)	02			
Miscellaneous					
	Is the terminal equipped with a PIN Pad	Yes			
	Is the amount and PIN entered at the same keypad	Yes			
	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	No			
	If the Issuer Script device limit is greater than 128 bytes, what is the value supported				
	Does the terminal support Internal Date Management	Yes			
	Is the Level 2 Contact Kernel Random Generator using the algorithm described in Book2, section 11.3	Yes			
	If the Level 2 Contact Kernel Random Generator is not using the algorithm described in Book2, section 11.3, is this function PCI approved	n/a			
	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 dependent on the Terminal Hardware	No			
	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 Hardware	No			
	If answer to previous question is Yes, describe the functions and the Hardware				
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## **Terminal Capabilities**

#### Value Supported

Μ	iscellaneous		
	Does the terminal support Receipt (by printing or any electronic means)?	Yes	
	List the Currency Codes supported as for ISO 4217 If 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.	410 840	
	Does the terminal support the Application Selection Registered Proprietary Data (ASRPD)?	No	
	List the Language(s) supported as for ISO 639 (minimum one shall be declared, and up to 10 if Multiple Languages are supported)	ENG KOR	
	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	
	If answer to previous question is Yes, what is the Maximum Value of the Transaction Sequence Counter?		
С	hecksum		
	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)	EB2A56F2	

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

Restriction:

None