

August 21, 2024

Hans-Henning Kochsmeier
Wincor Nixdorf International GmbH
Heinz-Nixdorf-Ring 1
Paderborn 33106
GERMANY

Re: EMVCo Letter of Approval - Contact Terminal Level 2

EMV Application Kernel: Java EMV Kernel Version 4.0.0

**Approval Number(s): 2-05458-1-1C-CETI-0824-4.4b
2-05458-1-1P-CETI-0824-4.4b
2-05458-1-1OS-CETI-0824-4.4b**

The EMV Application Kernel has been tested on the following terminal

Terminal: DN Series 200V Frontload
PinPad: 1P = EPP V8, \$MOD\$ 20230803 1850 c.w.ds.amiapp.jar - PIN pad is valid for configuration(s): 1C
Operating System: IOS = Java(TM) SE Runtime Environment Version 1.8.0_201

Renewal Date: 17-Jul-2028

Report ID Session 1: 2WIN2_1-7797-24-01-02-TR1-R02_CETI Version R02 - CTC advanced GmbH

Kernel Checksum:

30B700C048D38FFA625CFD0B288F5DB8

Configurations Checksums:

Config	Vendor Config ID	Terminal	Checksum
1C	CONF 001	14	3D8F05382D08D6D356DBB0ACFBF24108

PIN Pads Checksums:

PinPad	Checksum
1P	none

Dear Hans-Henning Kochsmeier:

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 referred 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

Terminal Capabilities	1C									
Card Data Input Capability										
Terminal Type	14									
Manual Key Entry	No									
Magnetic Stripe	Yes									
IC with Contacts	Yes									
CVM Capability										
Plaintext PIN	No									
Online Enciphered PIN	Yes									
Signature (Paper)	No									
Offline Enciphered PIN (RSA)	No									
No CVM	No									
Offline Enciphered PIN (ECC)	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									
Security Capability										
SDA & DDA	No									
Card Capture	Yes									
CDA	No									
XDA	No									
Transaction Type Capability										
Tran Type - Cash	Yes									
Tran Type - Goods	No									
Tran Type - Services	No									
Tran Type - Cash Back	No									
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	No									
Print, Cardholder	Yes									
Display, Attendant	No									
Display, Cardholder	Yes									
Code Table 10	Yes									
Code Table 9	Yes									
Code Table 8	Yes									
Code Table 7	Yes									
Code Table 6	Yes									
Code Table 5	Yes									
Code Table 4	Yes									
Code Table 3	Yes									
Code Table 2	Yes									
Code Table 1	Yes									
Application Selection										
PSE	Yes									
Cardholder Confirmation	Yes									
Preferred display order	Yes									
Partial AID Selection	Yes									
Multi language	Yes									
EMV Language Selection method	Yes									
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										
Default DDOL	No									
Cardholder Verification Method										
Bypass PIN Entry	No									
Subsequent Bypass PIN Entry	No									
Get Data for PIN Try Counter	No									
Fail CVM	Yes									
Amount known before CVM proces.	Yes									
Terminal Risk Management										
Floor Limit Checking	Yes									
Random Transaction Selection	No									
Velocity Checking	No									
Transaction Log	No									
Exception File	No									
TRM irrespective of AIP setting (expected behavior)	Yes									

(continued)	1C									
Terminal Action Analysis										
Terminal Action Codes supported	Yes									
TAC can be deleted or disabled	Yes									
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?	Skipped									
Completion Processing										
Forced Online	No									
Forced Acceptance	No									
Voice Referrals Initiated by Issuer	No									
Default TDOL	Yes									
Default TDOL not configured	Yes									
Exception Handling										
POS Entry Mode	80									
Miscellaneous										
Amount and PIN on same keypad	Yes									
ICC/Magstripe Reader Combined	Yes									
Supports account type selection	No									
Supports 'on fly' script processing	No									
Issuer Script device limit > 128 bytes	Yes									
If limit > 128, value supported?	0									
Internal Date Management	Yes									
Does the terminal support Receipt?	Yes									

Attachment 1

Specific Terms and Conditions to the Letter of Approval

Restriction:

None