



July 12, 2012

Igor Kuznetsov

INPAS

Bld 72, Oktyabzskaya stz

Moscow 127521

Russia

Re: *EMVCo Letter of Approval - Terminal Level 2*

EMV Application Kernel: Vx EMV 1.1

Approval Number(s):
2-02299-1-1C-FIM-0712-4.3.a
2-02299-1-2C-FIM-0712-4.3.a
2-02299-1-1OS-FIM-0712-4.3.a

The EMV Application Kernel has been tested on the following terminal

Terminal: VeriFone Vx510 (OMNI5150)
PinPad: n/a
Operating System: 1OS = VerixV Version 2.5.2

Report ID Session 1: **C12RAP06-04-3 - FIME Europe Test Centre**

Approved Configurations:

Config	Vendor Config ID	Terminal	Checksum
1C	POS	22	8CBA19EB
2C	BBT	11	341F47D1

Renewal Date: 12-Jul-2015

Dear Igor Kuznetsov:

EMVCo, LLC ("EMVCo"), a Delaware limited liability company, has received your request for Level 2 terminal type approval for the EMV Application Kernel (hereafter referred to as Application) identified above. 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 Kernel sufficiently conform to EMV Integrated Circuit Card Specifications for Payment Systems, Version 4.3 of November 2011.

EMVCo hereby (a) grants your Application EMVCo Type Approval for Terminal Level 2, based on the requirements stated in the EMV 4.3 Specifications, and (b) agrees to include your Application Kernel in EMVCo's approved Application list.

EMVCo's grant to your Application Kernel 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 Application Kernels published on the EMVCo website (www.emvco.com).

INPAS

This Letter of Approval is effective on dispatch from EMVCo.

EMVCo, LLC, a Delaware limited liability company

By:

Name: Arnaud du Chéné

Title: EMVCo Terminal Type Approval

Terminal Capabilities	1C	2C								
Card Data Input Capability										
Terminal Type	22	11								
Manual Key Entry	Yes	Yes								
Magnetic Stripe	Yes	Yes								
IC with Contacts	Yes	Yes								
CVM Capability										
Plaintext PIN	Yes	No								
Online Enciphered PIN	Yes	Yes								
Signature (Paper)	Yes	Yes								
Offline Enciphered PIN	Yes	No								
No CVM	Yes	No								
Security Capability										
SDA and DDA	Yes	No								
Card Capture	No	No								
CDA	Yes	No								
Transaction Type Capability										
Tran Type - Cash	No	Yes								
Tran Type - Goods	Yes	No								
Tran Type - Services	Yes	No								
Tran Type - Cash Back	Yes	No								
Tran Type - Inquiry	Yes	Yes								
Tran Type - Transfer	Yes	Yes								
Tran Type - Payment	Yes	Yes								
Tran Type - Admin	Yes	Yes								
Tran Type - Cash Deposit	No	Yes								
Terminal Data Input Capability										
Keypad	Yes	Yes								
Numeric Keys	Yes	Yes								
Alpha and Special Character Keys	Yes	Yes								
Command Keys	Yes	Yes								
Function Keys	Yes	Yes								
Terminal Data Output Capability										
Print, Attendant	Yes	Yes								
Print, Cardholder	No	No								
Display, Attendant	Yes	Yes								
Display, Cardholder	No	No								
Code Table 10	No	No								
Code Table 9	No	No								
Code Table 8	No	No								
Code Table 7	No	No								
Code Table 6	No	No								
Code Table 5	Yes	Yes								
Code Table 4	No	No								
Code Table 3	No	No								
Code Table 2	No	No								
Code Table 1	Yes	Yes								

(continued)	1C	2C								
Application Selection										
PSE	Yes	Yes								
Cardholder Confirmation	Yes	Yes								
Preferred display order	Yes	Yes								
Partial AID Selection	Yes	Yes								
Multi language	Yes	Yes								
EMV Language Selection method	Yes	Yes								
Common Character Set	Yes	Yes								
Data Authentication										
MAX CA Public key	248									
Exponents	3 and 2 ¹⁶⁺¹									
Revocation of Issuer PK Certificate	Yes	No								
Certificate Revocation List Format	RID, CAPK Index, CNS	N/A								
Default DDOL	Yes	No								
Manual act. when CA PK loading fails	No	No								
CA PK verified with check sum	Yes	No								
Cardholder Verification Method										
Bypass PIN Entry	Yes	No								
Subsequent Bypass PIN Entry	Yes	No								
Get Data for PIN Try Counter	Yes	No								
Fail CVM	Yes	Yes								
Amount known before CVM proces.	Yes	Yes								
Terminal Risk Management										
Floor Limit Checking	Yes	Yes								
Random Transaction Selection	Yes	Yes								
Velocity Checking	Yes	Yes								
Transaction Log	Yes	Yes								
Exception File	Yes	Yes								
TRM irrespective of AIP setting (expected behavior)	Yes	Yes								
Terminal Action Analysis										
Terminal Action Codes supported	Yes	Yes								
TAC can be changed	Yes	Yes								
TAC can be deleted or disabled	No	No								
Default Act. Codes prior to 1stGenAC	No	No								
Default Action Codes after 1stGenAC	No	No								
TAC/IAC-Default skipped	No	Yes								
TAC/IAC-Default normal processing	No	No								
CDA failure detected prior TA Analysis	Yes	No								
Mode 1	Yes	No								
Mode 2	No	No								
Mode 3	No	No								
Mode 4	No	No								

(continued)	1C	2C								
Completion Processing										
Forced Online	Yes	No								
Forced Acceptance	No	No								
Advices	Yes	Yes								
Issuer Referrals	Yes	Yes								
Batch Data Capture	Yes	Yes								
Online Data Capture	Yes	Yes								
Default TDOL	Yes	Yes								
Exception Handling										
POS Entry Mode	80	80								
Miscellaneous										
PIN Pad	Yes	Yes								
Amount and PIN on same keypad	Yes	Yes								
ICC/Magstripe Reader Combined	No	No								
If Combined, is Magstripe read first?	No	No								
Supports account type selection	Yes	Yes								
Issuer Script device limit > 128 bytes	No	No								
If limit > 128, value supported?	N/A	N/A								
Internal Date Management	Yes	Yes								

Attachment 1

Specific Terms and Conditions to the Letter of Approval

Restriction:

None