



October 15, 2007

Leo Murray

Altech Card Solutions

P.O. Box 76198

Wendywood, South Africa, 2124

Re: EMVCo Letter of Approval -- Terminal Level 2

Approval Number(s):
2-01346-1-1C-TUU-1007-v4.1.c
2-01346-1-1P-TUU-1007-v4.1.c
2-01346-2-2P-TUU-1007-4.1.c
2-01346-1-1OS-TUU-1007-4.1.c

EMV Application Kernel: EMV 4.01

As Tested In

Terminal: MAGIC 6100

PinPad: 1P = MAGIC 1100 V4.22

2P = MAGIC 1100 V4.26

Checksum: C31C

AF8B

Operating System: 1OS = MAGIC OS 4.70

Report ID Session 1: 75901657 Report 01 Issue 2 TUV Product Service Ltd (United Kingdom)

Session 2: 75902133 Report 01 Issue 2 TUV Product Service Ltd (United Kingdom)

Approved Configurations:

Config	Vendor Config I	Terminal	Checksum
1C	baseline	22	51EB 4FFC B2D7 C65D 8533 471D 2B8B 19A2 D2F0 CEB7

Dear Leo Murray:

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 2000 Integrated Circuit Card, Specifications for Payment Systems version 4.0 December 2000.

EMVCo hereby (a) grants your Application EMVCo Type Approval for Terminal Level 2, based on the requirements stated in the EMV 4.0 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).

Altech Card Solutions

This Letter of Approval is effective on dispatch from EMVCo..

EMVCo, LLC, a Delaware limited liability company

By: _____

Name: Esther Salk

Title: EMVCo Terminal Type Approval Secretariat

Terminal Capabilities		1C									
Card Data Input Capability											
Terminal Type	22										
Manual Key Entry	Yes										
Magnetic Stripe	Yes										
IC with Contacts	Yes										
CVM Capability											
Plaintext PIN	Yes										
Online Enciphered PIN	Yes										
Signature (Paper)	Yes										
Offline Enciphered PIN	Yes										
No CVM	Yes										
Security Capability											
SDA	Yes										
DDA	Yes										
Card Capture	No										
CDA	Yes										
Transaction Type Capability											
Tran Type - Cash	Yes										
Tran Type - Goods	Yes										
Tran Type - Services	Yes										
Tran Type - Cash Back	Yes										
Tran Type - Inquiry	Yes										
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 Char Keys	Yes										
Command Keys	Yes										
Function Keys	Yes										
Terminal Data Output Capability											
Print, Attendant	Yes										
Print, Cardholder	No										
Display Attendant	Yes										
Display Cardholder	No										
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	Yes										

(continued)		1C									
Application Selection											
PSE	Yes										
Cardholder Confirmation	Yes										
Preferred order	Yes										
Parital AID Selection	Yes										
Multi language	No										
Common Character Set	Yes										
Data Authentication											
MAX CA Public key	248										
Exponents	3 and 2 ¹⁶ +1										
Revocation of IPKC	No										
Certificate Revocation List format	N/A										
Default DDOL	Yes										
Manual when CA PK load fails	No										
CA PK verified with check su	No										
Cardholder Verification Method											
Bypass PIN Entry	Yes										
Get Data for PIN Try Ctr.	Yes										
Fail CVM	Yes										
Amount known before CVM	Yes										
Terminal Risk Management											
Floor Limit Checking	Yes										
Random Trans Sel	Yes										
Velocity Checking	Yes										
Transaction Log	Yes										
Exception File	Yes										
Term Risk based on AIP	Yes										
Terminal Action Analysis											
Terminal Action Codes	Yes										
Default process prior to AC	No										
Default process after to AC	No										
Skip processing TAC/IAC	No										
Default as normal	No										
CDA fail detected prior TAA	Yes										
CDA always requested at GENAC1	Yes										
CDA never requested at GENAC1	No										
CDA always requested at GENAC2	Yes										
CDA never requested at GENAC2	No										
Completion Processing											
Forced Online	Yes										
Forced Acceptance	No										
Advices	No										
Issuer Referrals	Yes										
Batch Data Capture	Yes										
Online Data Capture	Yes										
Default TDOL	Yes										

(continued)	1C									
Exception Handling										
POS Entry Mode	80x									
Miscellaneous										
PIN Pad	Yes									
Amt and PIN same keypad	No									
ICC/Magstripe Combined	No									
Magstripe read first	No									
Supports account type sel?	No									
Issuer Script device limt >128	No									
If >128, value supported?	N/A									