



February 06, 2007

Shoji Shinjo

OMRON Corporation

2-2-1 Nishikusatsu

Kusatsu City

Shiga

525-0035 Japan

Re: EMVCo Letter of Approval -- Terminal Level 2

Approval Number(s): 2-01189-1-1C-FMT-1206-4.1.b
2-01189-2-2C-FMT-0107-4.1.b

EMV Application Kernel: EMV 4C

As Tested In

Terminal: 3M8C CATS

PinPad: n/a

Operating System: RTOS (UDEOS/r39)

Report ID Session 1: T06RAP11-20-1 FEIMA Ltd. Taiwan brandh

Session 2: T07RAP01-10-1 FEIMA Ltd. Taiwan brandh

Approved Configurations:

Configuration	Vendor Config ID	Terminal Type	Checksum
1C	A	22	623CBEh
2C	A	22	0063770F

Dear Shoji Shinjo:

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 interface modules published on the EMVCo website (www.emvco.com).

OMRON Corporation

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

EMVCo, LLC, a Delaware limited liability company

By: _____

Name: Esther Salk

Title: EMVCo Terminal Approval Secretariat

Terminal Capabilities	1C	2C								
Card Data Input Capability										
Terminal Type	22	22								
Manual Key Entry	Yes	Yes								
Magnetic Stripe	Yes	Yes								
IC with Contacts	Yes	Yes								
CVM Capability										
Plaintext PIN	Yes	Yes								
Online Enciphered PIN	No	No								
Signature (Paper)	Yes	Yes								
Offline Enciphered PIN	No	Yes								
No CVM	Yes	Yes								
Security Capability										
SDA	Yes	Yes								
DDA	Yes	Yes								
Card Capture	No	No								
CDA	Yes	Yes								
Transaction Type Capability										
Tran Type - Cash	No	No								
Tran Type - Goods	Yes	Yes								
Tran Type - Services	Yes	Yes								
Tran Type - Cash Back	No	No								
Tran Type - Inquiry	No	No								
Tran Type - Transfer	No	No								
Tran Type - Payment	No	No								
Tran Type - Admin	No	No								
Tran Type - Cash Deposit	No	No								
Terminal Data Input Capability										
Keypad	Yes	Yes								
Numeric Keys	Yes	Yes								
Alpha and Special Char Keys	No	No								
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	Yes	Yes								
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	No	No								
Code Table 4	No	No								
Code Table 3	No	No								
Code Table 2	No	No								
Code Table 1	No	No								

(continued)	1C	2C								
Application Selection										
PSE	No	No								
Cardholder Confirmation	Yes	Yes								
Preferred order	No	No								
Parital AID Selection	Yes	Yes								
Multi language	No	No								
Common Character Set	Yes	Yes								
Data Authentication										
MAX CA Public key	248	248								
Exponents	3 and 2 ¹⁶ +1	3 and 2 ¹⁶ +1								
Revocation of IPKC	No	No								
Default DDOL	Yes	Yes								
Manual when CA PK load fails	No	No								
CA PK verified with check su	Yes	Yes								
Cardholder Verification Method										
Bypass PIN Entry	Yes	Yes								
Get Data for PIN Try Ctr.	Yes	Yes								
Fail CVM	Yes	Yes								
Amount known before CVM	Yes	Yes								
Terminal Risk Management										
Floor Limit Checking	Yes	Yes								
Random Trans Sel	Yes	Yes								
Velocity Checking	Yes	Yes								
Transaction Log	Yes	Yes								
Exception File	No	No								
Term Risk based on AIP	Yes	Yes								
Terminal Action Analysis										
Terminal Action Codes	Yes	Yes								
Default process prior to AC	No	No								
Default process after to AC	No	Yes								
Skip processing TAC/IAC	No	No								
Default as normal	No	Yes								
Completion Processing										
Forced Online	Yes	Yes								
Forced Acceptance	No	No								
Advices	Yes	Yes								
Issuer Referrals	Yes	Yes								
Batch Data Capture	Yes	Yes								
Online Data Capture	No	No								
Default TDOL	Yes	Yes								
Exception Handling										
POS Entry Mode	53	53								

(continued)	1C	2C								
Miscellaneous										
PIN Pad	Yes	Yes								
Amt and PIN same keypad	No	No								
ICC/Magstripe Combined	No	No								
Magstripe read first	No	No								
Supports account type sel?	No	No								
Issuer Script device limit >128	No	No								
If >128, value supported?	128	128								