

Saudi Arabian Monetary Agency

HEAD OFFICE

General Department of Payment Systems

POS Terminal Approval Certificate No. #TV053



مركز التصاريح
Certification Center

Ge-idea Solutions

P. O. Box 246868
Riyadh 11312
Kingdom of Saudi Arabia

28 June, 2016

Equipment Details

Type: POS
Model: VeriFone VX680

This letter is to confirm that the POS terminal specified above has successfully passed the testing required to approve its usage within mada, details of the approved configuration are mentioned in the sections below.

SAMA reserves the right to modify the certification procedures from time to time and Vendors may be required to repeat some or all testing already undertaken and in addition any new tests deemed necessary by SAMA.

SAMA as scheme regulator reserves the right to withdraw approval for a POS device should it be unable to demonstrate the ability to pass the tests specified in the current release of the certification procedures.

SAMA maintains a list of approved device on its website, potential customers for the POS terminal referred to in this letter should ensure that the device is on this list.

SAMA accepts no responsibility for any operational or interoperability problem not highlighted by the testing performed to gain this certificate and reserves the right to update the procedures and testing regime at any time in the future at its sole discretion. No Member of the mada scheme or Vendor supplying equipment for use by the scheme or its members should refer to their product, service or facility as either mada "approved" or imply that the mada scheme or SAMA endorses their products.

Signed on behalf of SAMA:

Abdullah Al-Rasheed
Head of Quality Assurance



Saudi Arabian Monetary Agency

HEAD OFFICE

General Department of Payment Systems

POS Terminal
Approval Certificate No. #TV053



مركز التصاريح
Certification Center

Equipment Appearance



External reader(s)

N/A

Saudi Arabian Monetary Agency

HEAD OFFICE

General Department of Payment Systems

POS Terminal
Approval Certificate No. #TV053



مركز التصاريح
Certification Center

Pre-Requisites

EMV L1/L2 Registration Number	C15RAP08-17-2 - FIME EMEA
IFM (Level 1) Approval Reference	12646 0312 400 21 FIM
EMV Kernel (Level 2) Approval Reference	2-03281-1-5C-FIM-1015-4.3.d
EMV Specification Date and Version	Vx EMV Module Version 7.0.0
MasterCard Terminal Quality Management (TQM) Label	TQM0461
PCI PED Approval Number	4-30053
Pay Pass Kernel Approval Number	TLOA-VERI150803-150910(a)
Pay Wave Kernel Approval Number	CDVERI0712

Testing baseline

Version of this document used	mada EFTPOS v6.0
-------------------------------	------------------

Functionality approved for use with mada Switch

Integrated Chip Card (ICC)	mada, MasterCard, Visa, AMEX and China Union Pay
Magnetic Stripe	MasterCard, Visa, AMEX and China Union Pay
Contactless	mada, MasterCard, Visa

Equipment Details (Hardware)

Manufacturer	VeriFone
Model Designation	VX680
If the Manufacturer is different from the Vendor, please describe the commercial arrangement between Manufacturer and Vendor and give detail of how the equipment will be supported	Saudi Arabia –Exclusive Distributor
Input Devices Supported	Single multi-port connector supports RS-232, USB Host, USB slave and integrated charging, 3 SAM slots audio/video player
Display Devices supported	3.5" color QVGA resistive touch screen
Printing Devices	18 lps 38mm paper roll

التصاريح

مركز

Saudi Arabian Monetary Agency

HEAD OFFICE

General Department of Payment Systems

POS Terminal
Approval Certificate No. #TV053



مركز التصاريح
Certification Center

Communication method used by device	GPRS
PIN Pad	Integrated PINPAD
Contactless Reader	Internal Reader
Languages supported	Arabic, English
Is there a language switch key?	Yes

Equipment Details (Software)

Kernel Software Version	EMV L2 Version 7.0.0
Visa Pay Wave Kernel Version	CLVI 03.02.04
MasterCard Pay Pass Kernel Version	CLMC 03.04.00
Operating system	IOS = Vx Version QT520245

Payment Applications supported

mada Visa MasterCard Maestro American Express China Union Pay
Other (when applicable)

Non-Payment Applications supported

Application Type	N/A
Application Name	N/A
Application Version	N/A

Development Details

Version Control software used	Vericenter 3.0
How is version control managed for the components of your product? Supporting documents may be required	Terminal Remote System Engine.
Is QA system used ISO 9000 accredited?	No

التصاريح

مركز التصاريح

Saudi Arabian Monetary Agency

HEAD OFFICE

General Department of Payment Systems

POS Terminal
Approval Certificate No. #TV053



مركز التصاريح
Certification Center

EMV Level 2 Kernel Configuration Details

EMV Level 2 Kernel Configuration Number Used for mada Certification **5C**
EMV Terminal Type **22**
POS Entry Mode **80**

Card Data Input Capabilities

Manual Key Entry Magnetic Stripe ICC Contactless

Cardholder Validation Method Capability

Plaintext PIN for ICC Verification Enciphered PIN for online Verification
Signature(Paper) Enciphered PIN for offline Verification
No CVM

Security Capabilities

Static Data Authentication (SDA) Dynamic Data Authentication (DDA)
Combined Data Authentication (CDA) Fast Data Authentication(FDDA)
Card Capture

Transaction Type Capability

Cash Goods Services naqd(Cash Back) Inquiry Transfer
Payment Administrative Cash Deposit

Terminal Data Input Capability

Keypad Numeric Keys Alphabetic and Special Character Keys Command Keys
Function Keys

Terminal Data Output Capability

Print, Attendant Print, Cardholder Name Display Attendant Display Cardholder
Code Table 10 Code Table 9 Code Table 8 Code Table 7 Code Table 6
Code Table 5 Code Table 4 Code Table 3 Code Table 2 Code Table 1

Application Selection

Supporting PSE selection Method Supporting Cardholder Confirmation
Having a preferred order of displaying applications Performing partial AID
Having multi language support Having Common Character Set

Saudi Arabian Monetary Agency

HEAD OFFICE

General Department of Payment Systems

POS Terminal
Approval Certificate No. #TV053



مركز التصاريح
Certification Center

Data Authentication

What is the maximum supported Certificate Authority Public Key Size? **248**

What exponents does the terminal support? **3 and 2¹⁶+1**

Certificate Revocation List Format **RID, CA Index and Serial No**

Checking the validity of revocation of Issuer Public Key Certificate Terminal contains DDOL

Manual Key Load When CA Public Key Load Fails CA Public Key Verified With Checksum

Cardholder Verification Method

Supporting bypass PIN Entry Supporting Get Data for PIN Try Counter

Supporting Fail CVM Supporting Amount Unknown before CVM

Supporting No CVM for Contactless

Terminal Risk Management

Floor Limit Checking Random Transaction Selection Velocity Checking

Transaction Log Exception File

Terminal Risk Management Based on AIP Contactless Limits Checking

Terminal Action Analysis

Terminal Action Codes Default process prior to AC Default process after AC

Skip processing TAC/IAC Default as normal CDA fail detected prior TAA

CDA always requested at GENAC1 CDA never requested at GENAC1

CDA always requested at GENAC2 CDA never requested at GENAC2

Completion Processing

Terminal Forced Online Capability Transaction Forced Acceptance Capability

Supporting Advices Supporting Batch Data Capture

Supporting Online Data Capture Supporting Issuer Referrals

Supporting Default TDOL

Miscellaneous

Pin Pad Amount and PIN same keypad ICC / Mag Stripe Combined

Mag Stripe read first Supports Account Type Selection Issuer script device limit > 128

Physical LED Light Indicators for contactless Software Light Indicators for contactless

Sound indicators ATEX Compliance Terminal and can be used in explosive environments

External Reader

External Reader Model **N/A**

External Reader Input Capability **N/A**