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January 26, 2017

Mastercard Contactless Reader Vendor Product – Letter of Approval

Approval Identifier: TLOA-XING161001-170126(a), Expires on January 18, 2020
Product Vendor: Shenzhen Xinguodu Technology Co.,Ltd
Product Type: Fully Integrated Terminal

Product Identification	Terminal
Product Commercial Name	T2 V1.0
Product Technical Name	T2 V1.0
Application Selection Module	T2APPEL V3100001160928101
Mastercard Contactless Kernel	PAYPASSKERNEL V30102
Mastercard Contactless Application	T2APP V3100001160928101
Operating System	Linux V3.6.5
Product Registration Number	FIT-XING-161001

EMVCo LoA – Terminal Level 1: 10566 0616 250 25a 25a BCS
Test Assessment Level 2: TTAS-XING161001-FIE-1701-T027
PIN Entry Device: Yes

Implementation Options (*):	Supported?
EMV transaction flow	Yes
Data Exchange	Yes

(*) Please contact the product vendor to obtain the full description of all the technical features

Under the terms of the Mastercard Contactless Specification License Agreement dated October 6, 2010, this letter permits you to advise your customers that the above product has successfully completed the requirements for a vendor product approval by Mastercard as a **Mastercard Contactless Reader v3.1**.

Please see page 2 for the Conditions of Approval.

This letter does not constitute an endorsement or warranty by Mastercard regarding the functionality, quality or performance of the submitted product, including without limitation any warranties of merchantability, fitness for purpose or non-infringement, all of which are expressly disclaimed by Mastercard.

The product will be listed on the Mastercard customer portal as an approved Mastercard Contactless Reader vendor product until the Approval Expiration Date. Any change to the product must be promptly notified to Mastercard.

Mastercard reserves the right to use any approved Mastercard Contactless Reader product as a reference for future testing, certification or approval of other Mastercard Contactless products.

Yours sincerely,

Frédéric Fortin
Senior Business Leader, Product Development
EMV & Digital Devices
Enterprise Security Solutions

Detail of Vendor Product Approval

Book D – EMV Contactless Communication Protocol Specification, Version 2.5 – March 2015
Mastercard Contactless Reader Specification – Version 3.1 – 30 June 2015
Mastercard Contactless Performance Requirement – Application Note #7 – March 2014

Conditions of Approval

The following actions are to be taken by the vendor for this approval to be valid:

- i. During the Term of the Letter of Approval, the vendor shall ensure that all terminals are produced so that they are materially identical with the samples that were submitted for testing. Any change in the terminal that generates a different behavior of the terminal with respect to the Mastercard Contactless Reader Specifications and Mastercard Contactless Reader Test Assessments, in Mastercard's sole discretion, will be considered a major modification subject to a requirement of new vendor product testing and approval.
- ii. If the POS terminal supports PIN Entry, new installations must use models with a valid PCI PTS approval. The validity of the approval can be verified on PCI SSC web site. For more details on the Mastercard PIN Entry Device standards please contact POI_security@mastercard.com.
- iii. The vendor must make buyers of the product aware of the above conditions.

Product Technical Notes

- i. The Mastercard Data Exchange mechanism allows data to be exchanged between the Mastercard Contactless Reader kernel and the terminal application during the course of a payment transaction. Mastercard testing has demonstrated the capability of the product to perform as expected using a test application in place of the final terminal application. However, as the Mastercard Contactless Reader kernel to terminal application interface remains specific to the reader's vendor, any terminal application developer intending to use this mechanism must work closely with the Mastercard Contactless Reader's vendor to ensure successful integration.
- ii. The vendor must inform the customer about these issues.