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September 4, 2017

Mastercard Contactless Reader Vendor Product – Letter of Approval

Approval Identifier: TLOA-XING170301-170904(a), Expires on August 29, 2020
Product Vendor: Shenzhen Xinguodu Technology Co.,Ltd
Product Type: Fully Integrated Terminal

Product Identification	Terminal
Product Commercial Name	N5 V1.0
Product Technical Name	N5 V1.0
Application Selection Module	APPSM V1.0
Mastercard Contactless Kernel	MCLKERNEL V3.1.1
Mastercard Contactless Application	MCLAPP V3.1.1
Operating System	Android 5.1.1
Product Registration Number	FIT-XING-170301

EMVCo LoA – Terminal Level 1: 15192 0716 250 25a 25a BCTS
Test Assessment Level 2: TTAS-XING170301-BCT-1708-T029
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 v3.1.1**.

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
Vice President, 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 3.1.1 – 29 November 2016
EMV Book C-2 - Kernel 2 Specification - Version 2.6 - February 2016
Specification Bulletin No.195: Errata for EMV Book C-2 (Version 2.6) - February 2017
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. Approved readers or terminals must go through Mastercard's Terminal Quality Management (TQM) process prior to entering Mastercard's Terminal Integration Process (M-TIP). TQM is outsourced and managed by TUV Sud UK and can be initiated immediately after the reader or terminal has received the Level 1 Letter of Approval from EMVCo. For more details on TQM, vendors can contact Mastercard.TQM@tuv-sud.co.uk.
- iv. 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.