

Date: December 17, 2019



Jeffrey A. Neville  
CardinalCommerce Corporation  
8100 Tyler Boulevard  
Mentor 44060  
UNITED STATES OF AMERICA

**Re:** *EMVCo Letter of Approval – EMV 3-D Secure SDK Product*

**Approval / Reference Number:** 3DS\_LOA\_SDK\_CACC\_020200\_00222

**Approval Date:** December 17, 2019

**Approval Expiration Date:** November 19, 2021

Product Provider Name:	CardinalCommerce Corporation
Registration Number:	CACC.V 17 0010
3DS SDK Name:	Cardinal Mobile SDK
3DS SDK Version:	2.2.1
Tested Operating System Version(s):	IOS 12
Supported Operating System Version(s):	IOS 9 10 11 12 13
Implementation Conformance Statement:	3DS_ICS_SDK_CACC_020200_00222
EMV 3-D Secure Specification:	Version 2.2.0, Version 2.1.0
EMV 3-D Secure SDK Specification:	Version 2.2.0, Version 2.1.0
EMV 3-D Secure Specification Bulletins:	204 v5, 214 v1
EMV 3-D Secure SDK Specification Bulletins	205 v1, 213 v1
3-D Secure Test Plan Name:	EMV® 3-D Secure 2.2.0 Test Plan
3-D Secure Test Plan Version:	2.2.0.3
3-D Secure Test Plan Bulletin(s):	N/A

Dear Jeffrey A. Neville,

EMVCo, LLC ("EMVCo"), a Delaware limited liability company, has received your request for EMV 3-D Secure approval for the 3DS SDK identified above. In connection with your request for approval, we have reviewed your report, identified by file number UL\_CompTestReport\_ID1711 which was generated by UL TS B.V..

After assessing such file, EMVCo has determined that the above referenced 3DS SDK sufficiently conforms to EMV® 3-D Secure – SDK Specification and EMV® 3-D Secure – Protocol and Core Functions Specification.

EMVCo hereby grants your 3DS SDK EMV 3-D Secure Approval, based on the requirements stated in the EMV 2.1.0 and/or 2.2.0 Specifications. Please note that EMVCo may publicly identify your 3DS SDK as an approved 3DS SDK, including in EMVCo's published list of approved 3DS SDK Products.

EMVCo's grant to your 3DS SDK is subject to the Specific Terms and Conditions to the Letter of Approval attached hereto as Attachment A. 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 3DS SDK published on the EMVCo website ([www.emvco.com](http://www.emvco.com))

**This Letter of Approval is valid while the approval number is posted on the EMVCo website.**

EMVCo, LLC

By:

Name:

Title: EMVCo 3-D Secure Testing Group Chair

# **Attachment A**

## **Specific Terms and Conditions to Letter of Approval**

During testing, the following issues were identified. Restrictions identified must be disclosed to customers (issuers or other product providers to whom the Product Provider intends to sell the product).

**Restrictions, if any:**

**Comments, if any:**