



Date: May 4, 2022

Tinna Robertsdottir

Ravelin Technology Ltd  
 5th floor, 174-180 Old St, Old Street, London  
 London EC1V 9BP  
 UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND

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

**Approval / Reference Number:** 3DS\_LOA\_SDK\_RATL\_020200\_00549

**Approval Date:** May 4, 2022

**Approval Expiration Date:** April 22, 2024

Product Provider Name:	Ravelin Technology Ltd
Registration Number:	RATL.V 19 0121
3DS SDK Name:	Ravelin 3DS SDK (Android)
3DS SDK Version:	2.2
Tested Operating System Version(s):	Android 11
Supported Operating System Version(s):	Android 5 6 7 8 9 10 11 12
Implementation Conformance Statement:	3DS_ICS_SDK_RATL_020200_00549
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 SDK Device Information:	Version 1.4
EMV 3-D Secure Specification Bulletin(s):	SB204 v6, SB214 v2
EMV 3-D Secure SDK Specification Bulletin(s):	SB223 v1
3-D Secure Test Plan Name:	EMV® 3-D Secure 2.2.0 Test Plan
3-D Secure Test Plan Version:	2.2.0.7
3-D Secure Test Plan Bulletin(s):	N/A
EMV 3-D Secure SDK Device Information tested:	Version 1.4
EMV 3-D Secure Specification Bulletin(s) tested:	SB204 v6, SB214 v2
EMV 3-D Secure SDK Specification Bulletin(s) tested:	SB223 v1

Dear Tinna Robertsdottir,

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\_ID3383 which was generated by UL VS Inc..

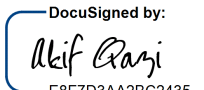
After assessing such file, EMVCo has determined that the above referenced 3DS SDK sufficiently conforms to EMV® 3-D Secure – SDK Specification and EMV® 3-D Secure – Protocol and Core Functions Specification.

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:   
E8F7D3AA2BC2435...

Name: Akif Qazi

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:**

## Attachment B Supported Options

This product has been tested for the following SDK options

Supported Orientation(s)	
Portrait	<input checked="" type="checkbox"/>
Landscape	<input checked="" type="checkbox"/>