

# EMVCo-qualified and Visa-confirmed L3 Test Tools



June 17<sup>th</sup>, 2019

## 1. EMVCo-qualified Level 3 Test Tool Components

In January 2018, EMVCo announced the availability of its new Level 3 Test Tool qualification testing service, initially in support of L3 Card Simulators in compliance with the *EMV Level 3 Testing Framework – Implementation Guidelines*, then later extended to include qualification of L3 Test Tool (L3 TT) Engines in August 2018. With the availability of these new EMVCo-managed services, Visa is now encouraging vendors of L3 test tools to seek qualification of their tools through the new EMVCo process. Such qualifications have now become a prerequisite to supporting Visa's L3 toolkits, as test cases related to these toolkits are now being provided in the EMVCo-defined Level 3 machine readable formats.

### 1.1. Benefits of the EMVCo Process

With this new process, it is expected that lead-times for availability of test tools supporting Visa's latest L3 testing requirements, and ultimately their readiness for client use, will be significantly reduced. The new processes leverage the benefits of a standardized L3 test tool platform that eliminates a need for repeated, time-consuming qualification testing efforts by Payment Systems each time a new set of testing requirements is released.

### 1.2. Current List of EMVCo-qualified Test Tools

While it's primarily the responsibility of EMVCo to update and maintain the current list of L3 test tools that have been qualified through its process, for convenience to users, Visa is also providing a current list of EMVCo-qualified tool components in the tables below.

#### 1.2.1. EMVCo-qualified L3 Card Simulators (L3 CS)

Vendor & Product Details	Focus	Contact Email	Location	Country	Tool Version
FIME SAS Savvi Test Platform v3.5, FIME Card Emulator firmware v1.0.15	Contact L3 - Contactless L3 Qualification number # L3Q_LoQ_FISA_00001	<a href="#">Mr. Raphael Guilley</a>	FIME SAS Immeuble Antony Parc 2-4-6, place du Général de Gaulle 92160 Antony	France	L3CS Qualification Card Images 2017 12 22
CLEAR2PAY INTEGRI N.V.	Contact L3 - Contactless L3	<a href="#">Mr. Peter Wuyts</a>	CLEAR2PAY INTEGRI N.V. DE KLEETLAAN 6A	Belgium	L3CS Qualification Card Images 2018 03 16

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FIS OTS Card Simulator V1.0.0	Qualification number # L3Q_LoQ_C2PA_00005		1831 DIEGEM		
Galitt KaNest-L3 923-KaNest-L3 1.00.00 131-KaNest-ICC 6.40.37 1093-Multi-Brands_Cards 1.00.00 1094-EMV_L3_TTS 1.00.00	Contact L3 - Contactless L3 Qualification number # L3Q_LoQ_GALI_00004	<a href="#">Mr. Vincent FONTAINE</a>	Galitt 17 route de la Reine 92100 Boulogne	France	L3CS Qualification Card Images 2018 03 16
ICC SOLUTIONS LIMITED ICCSimTMat V4.8 (**)	Contact L3 - Contactless L3 Qualification # L3Q_LoQ_ICCS_00003 Paula	<a href="#">Paula TURNER</a>	ICC SOLUTIONS LIMITED ST. JAMES BUSINESS CENTRE WARRINGTON WA4 6PS	United Kingdom of Great Britain and Northern Ireland	L3CS Qualification Card Images 2018 03 16
PayHuddle Solutions Private Limited Orion Card Simulator Software: Orion Card Simulator 1.4.0 Hardware: 1. Programmable Java Card 2.1 with GP 2.2 2. HID Omnikey Reader 5421	Contact L3 - Contactless L3 Qualification number # L3Q_LoQ_PSPL_00002	<a href="#">Indranil Chakraborty</a>	PayHuddle Solutions Private Limited 282-C, First Floor, 10th Main, 5th Block Jayanagar Bengaluru 560041 Kamataka	India	L3CS Qualification Card Images 2018 03 16

## VISA-CONFIRMED TEST TOOLS SUPPLIERS

(**)					
UL TS B.V. UL Brand Test Tool version 5.4.1 (**)	Contact L3 - Contactless L3 Qualification # L3Q_LoQ_ULTS_00009	<a href="#">Pieter NIJSSE</a>	UL TS B.V. DE HEYDERWEG 2 LEIDEN 2314XZ	The Netherlands	L3CS Qualification Card Images 2018 03 16

### 1.2.2. EMVCo-qualified L3 Test Tool (L3 TT) Engines

Vendor & Product Details	Focus	Contact Email	Location	Country	Tool Version
ICC SOLUTIONS LIMITED ICC Document Create and ICCSimTMat ICC Doc Create v2.2.12.0 and ICCSimTMat v4.12.0 (**)	Contact L3 - Contactless L3 Qualification # L3Q_LoQ_ICCS_00007	<a href="#">Paula TURNER</a>	ICC SOLUTIONS LIMITED ST. JAMES BUSINESS CENTRE WARRINGTON WA4 6PS	United Kingdom of Great Britain and Northern Ireland	QCTL v1.0 QOML v1.0 QTSF v1.0


Clients should also visit the EMVCo website to verify the current list of tools qualified by EMVCo. The link to the relevant page is as follows:



[https://www.emvco.com/approved-registered/service-providers/?action=search\\_providers&px\\_search=&emvco\\_service\\_tools%5B%5D=acceptance-device](https://www.emvco.com/approved-registered/service-providers/?action=search_providers&px_search=&emvco_service_tools%5B%5D=acceptance-device)

Once on the emvco.com webpage, you may filter for tools with a “Focus” of “Contact & Contactless Level 3 - Card Simulator”. If your preferred tool is not listed, you should consult with the supplier of that tool to determine its qualification status.





## 2. Visa-confirmed Chip Tools

While Visa has discontinued our in-house confirmation testing service for Card Simulators supporting ADVT and CDET test case requirements, the table below includes Card Simulators that were previously confirmed by Visa and that are still valid for use. It also includes test tools confirmed to support other specific Visa requirements. Updates since the last publication of this document are shown in **red**.

**Note:** this list now includes Visa-confirmed L3 test tools and services for both Global and US-specific use. The “US Visa-Confirmed Acceptance Test Tools Suppliers” document has now been discontinued. US-specific L3 test tools and services will be indicated with a [  ] symbol.

Vendor	Product/Service Description	Product Name – Version #	Date Confirmed	Visa Specification Version	Confirmation Expires
<b>Ascert LLC</b> <b>Contact:</b> Mike Wainwright <b>Email:</b> mikew@ascert.com	ADVT Online Host Simulator	Ascert VersaTest Automator Visa Driver Version Number: V1.9.0	April 2018	Visa Acquirer Device Validation Test Pack – Version 1.0	April 2021
<b>Barnes International Ltd</b> <b>Contact:</b> Brian Summerhayes <b>Email:</b> <a href="mailto:bsummerhayes@barnestest.com">bsummerhayes@barnestest.com</a>	GPR-compliant Personalization Validation Tool	CPT/CAT 3000v3 (CL/ML) / PersevalPro version 3.44 with EMV scripts release 35 and GPR module v3.0	June 2016	Global Personalization Requirements – v3.0	June 2019
<b>FIS</b> <b>Contact:</b> Donald Wegrzyn <b>Email:</b> <a href="mailto:Donald.Wegrzyn@fisglobal.com">Donald.Wegrzyn@fisglobal.com</a> & <a href="mailto:opentestsolutions@fisglobal.com">opentestsolutions@fisglobal.com</a>	 Visa Chip Vendor Enabled Service (CVES)	N/A	April 2018	Chip Compliance Reporting Tool	April 2021
	GPR-compliant Personalization Validation Tool	VISA GPR Test Suite V1.2.2	July 2016	GPR 3.0 Additions and Clarifications V3-2016-July - US PVR Test Cases V2.0	July 2019
	 Contact and Contactless Card Simulator for U.S. Debit Test Cards	Visa US QC Min Terminal Config ADVT 7.0 Terminal Test Suite V1.1.0 Visa US CDET 2.3 Terminal Test Suite V1.1.0	September 2018	U.S. Debit Test Card Profiles 1, 2, 3 & 4 U.S. Credit Test Card Profile 5	December 2019






## VISA-CONFIRMED TEST TOOLS SUPPLIERS

				U.S. Visa Contactless Transit Terminal Testing	
	 <i>U.S. Fleet Contact Chip Simulated Test Cards</i>	N/A	April 2017	U.S. Fleet 4 Test Card Profiles	December 2020
	 <i>U.S. ADVT Card Simulator</i>	N/A	N/A	U.S. Quick Chip and Minimum Terminal Configuration ADVT Use Cases	December 2019
	 <i>U.S. ADVT / CDET Online Host Simulator</i>	Visa VIP System Base I - October 2018 Tech Letter V3.0 Visa SMS ISO - June 2018 Visa SMS Interlink ISO - June 2018	September 2018	U.S. Quick Chip and Minimum Terminal Configuration ADVT/CDET Use Cases	December 2019
<b>FIME</b> <b>Contact :</b> Xavier Giandominici <b>Email :</b> xavier.giandominici@fime.com	 <i>Visa Chip Vendor Enabled Service (CVES)</i>	N/A	August 2018	Chip Compliance Reporting Tool	August 2021
	<i>ADVT/CDET Online Host Simulator</i>	Savvi Test Host 2.8	November 2016	<ul style="list-style-type: none"> <li>Acquirer Device Validation Toolkit – Version 7.0</li> <li>Contactless Device Evaluation Toolkit (CDET) Card Profiles – V2.3</li> <li>US Debit and Fleet Test Cards</li> </ul>	November 2019







## VISA-CONFIRMED TEST TOOLS SUPPLIERS

	 <i>Contact and Contactless card Simulator for U.S. Debit Test Cards</i>	Savvi Test Platform 3.7 with Visa Softcard library (FIME Card Emulator and Savvi programmable cards)	September 2018	U.S. Debit Test Card Profiles 1, 2, 3 & 4 U.S. Credit Test Card Profile 5 U.S. Visa Contactless Transit Terminal Testing	December 2019
	 U.S. ADVT Card Simulator	Savvi Test Platform 3.7 with Visa Softcard library (FIME Card Emulator and Savvi programmable cards)	May 2017	U.S. Quick Chip and Minimum Terminal Configuration ADVT Use Cases	December 2019
	 U.S. Fleet Contact Chip Simulated Test Cards	Savvi Test Platform 3.7 with Visa Softcard library (FIME Card Emulator and Savvi programmable cards)	November 2016	U.S. Fleet 4 Test Card Profiles	December 2020
	 U.S. Fleet Contact Physical Test Cards	FIME Test Cards – Visa U.S. Fleet Version 1.0 (Physical cards)	November 2016	U.S. Fleet 4 Test Card Profiles	December 2020
	 Contact and Contactless Physical Cards for U.S. Debit and Credit Test Cards	FIME Test Cards – Visa U.S. Debit Version 3.0 (Physical cards)	February 2019	U.S. Debit Test Card Profiles 1, 2, 3 & 4 and U.S. Credit Test Card Profile 5	December 2019
<b>Galitt (Kasys)</b> <b>Contact:</b> Gerard De Moura <b>Email:</b> <a href="mailto:g.demoura@galitt.com">g.demoura@galitt.com</a>	<i>CCRT Interface for submission of ADVT Results</i>	N/A	August 2017	Technical Specifications – CCRT– Interface Requirements for ADVT Results Reporting – V7.0	August 2020

## VISA-CONFIRMED TEST TOOLS SUPPLIERS





	<i>CCRT Interface for submission of CDET or DUAL Results</i>	N/A	August 2017	Technical Specifications – CCRT– Interface Requirements for CDET and Dual Results Reporting – V8.0	August 2020
<b>Deltec Consulting, a Galitt VAR</b> <b>Contact:</b> Loïc Berton <b>Email:</b> <a href="mailto:lberton@deltecconsulting.com">lberton@deltecconsulting.com</a>	 <i>Visa Chip Vendor Enabled Service (CVES)</i>	N/A	September 2018	Chip Compliance Reporting Tool	September 2020
	 <i>Contact and Contactless Card Simulator for U.S. Debit Test Cards</i>	KaNest®-ICC US ADVT TTS v1.03.00, KaNest®-ICC US CDET v1.02.03	August 2018	U.S. Debit Test Card Profiles 1, 2, & 3 & 4 U.S. Credit Test Card Profile 5 U.S. Visa Contactless Transit Terminal Testing	December 2019
	 <i>U.S. ADVT Card Simulator</i>	N/A	N/A	U.S. Quick Chip and Minimum Terminal Configuration ADVT Use Cases	December 2019
	 <i>U.S. Fleet Contact Chip Simulated Test Cards</i>	KaNest®-ICC US ADVT TTS v1.03.00	November 2016	U.S. Fleet 4 Test Card Profiles	December 2020
	 <i>U.S. ADVT / CDET Online Host Simulator</i>	365-ADVT_VSDC_ATS v3.00.05	August 2018	U.S. Quick Chip and Minimum Terminal Configuration ADVT/CDET Use Cases	December 2019
<b>ICC Solutions</b> <b>Contact:</b> Derek Ross	<i>CCRT Interface for submission of ADVT Results</i>	N/A	April 2018	Technical Specifications – CCRT– Interface Requirements for ADVT Results Reporting – V7.0	April 2021

## VISA-CONFIRMED TEST TOOLS SUPPLIERS

<b>Email:</b> <a href="mailto:info@iccsolutions.com">info@iccsolutions.com</a>	 <i>CCRT Interface for submission of CDET or DUAL Results</i>	N/A	April 2018	Technical Specifications – CCRT– Interface Requirements for CDET and Dual Results Reporting – V8.0	April 2021
	 <i>Visa Chip Vendor Enabled Service (CVES)</i>	N/A	October 2013	Chip Compliance Reporting Tool	March 2020
	 <i>Contact and Contactless Card Simulator for U.S. Debit Test Cards</i>	ICCSimTMat ADVT + U.S. Debit Version – v4.7, ICCSimTMat CDET + U.S. Debit Version – v4.7	August 2018	U.S. Debit Test Card Profiles 1, 2, 3 & 4 U.S. Credit Test Card Profile 5 US Visa Contactless Transit Terminal Testing	December 2019
	 <i>U.S. ADVT Card Simulator</i>	N/A	N/A	U.S. Quick Chip and Minimum Terminal Configuration ADVT Use Cases	December 2019
	 <i>U.S. Fleet Contact Chip Simulated Test Cards</i>	ICCSimTMat ADVT v7 v4.7	November 2016	U.S. Fleet 4 Test Card Profiles	December 2020
<b>UL</b> Contact: Angel Romero Email: <a href="mailto:transactionsecurity@ul.com">transactionsecurity@ul.com</a>	 <i>Visa Chip Vendor Enabled Service (CVES)</i>	N/A	December 2018	Chip Compliance Reporting Tool	December 2021



## VISA-CONFIRMED TEST TOOLS SUPPLIERS

	 <i>Contact and Contactless Card Simulator for U.S. Debit Test Cards</i>	Brand Test Tool 5.3.0	December 2018	U.S. Debit Test Card Profiles 1, 2, 3 & 4  U.S. Credit Test Card Profile 5  <b>US Visa Contactless Transit Terminal Testing</b>	December 2019
	 <i>U.S. ADVT/CDET online host simulator</i>	UL Brand Test Tool Host Simulator Module v5.3.0	N/A	U.S. Quick Chip and Minimum Terminal Configuration ADVT Use Cases	December 2019
	 <i>U.S. ADVT/CDET online host simulator</i>	Astrex Version Number v5.0	August 2016	U.S. Debit Test Card Profiles 1, 2, & 3	December 2019
	 <i>U.S. Fleet Contact Chip Simulated Test Cards</i>	Brand Test Tool v5.2.0	November 2016	U.S. Fleet 4 Test Card Profiles	December 2020
	<i>ADVT Online Host Simulator</i>	UL Astrex Version Number v6.0	February 2019	<ul style="list-style-type: none"> <li>Acquirer Device Validation Toolkit (ADVT) – V7.0A</li> </ul>	February 2022
	<i>CDET Online Host Simulator</i>	UL Astrex Version Number v6.0	February 2019	<ul style="list-style-type: none"> <li>Contactless Device Evaluation Toolkit (CDET) – V2.3A</li> </ul>	February 2022

## Product and Services Definitions

### 3. Product and Services Definitions

The following table provides definitions for third-party supplied products and services as described above.

Term	Definition
<i>ADVT Card Personalization Solution</i>	Third-party, vendor-provided test card personalization solution, confirmed by Visa as being capable of personalizing physical test cards in compliance with the Acquirer Device Validation Toolkit (ADVT) requirements.
<i>ADVT Online Host Simulator</i>	Tool used to emulate the online host requirements of the Visa Acquirer Device Validation Toolkit (ADVT). This supports ADVT online validation.
<i>CCRT Interface for submission of ADVT Results</i>	An XML formatted interface file from an ADVT chip card simulator, confirmed by Visa as capable of enabling upload of ADVT test results directly to the Chip Compliance Reporting Tool (CCRT).
<i>CCRT Interface for submission of CDET and DUAL Results</i>	An XML formatted interface file from a CDET or DUAL chip card simulator, confirmed by Visa as capable of enabling upload of CDET or DUAL test results directly to the CCRT.
<i>Contact Card Simulator for ADVT</i>	Tool used to emulate the chip cards used within the Visa Acquirer Device Validation Toolkit (ADVT).
<i>Contactless Card Simulator for CDET</i>	Tool used to emulate the contactless chip cards used within the Contactless Device Evaluation Toolkit (CDET).
<i>CDET Online Host Simulator</i>	Tool used to emulate the online host requirements of the Contactless Device Evaluation Toolkit (CDET). This supports CDET online validation
<i>GPR-compliant Personalization Validation Tool</i>	Third-party supplied Personalization Validation Tool, upgraded to support the execution of chip card validation in accordance with Visa's Global Personalization Requirements (GPR).
<b>US Region Only</b>	
<i>US PVR-compliant Personalization Validation Tool</i>	Third-party supplied Personalization Validation Tool, upgraded to support the execution of chip card validation requirement in accordance with Visa's <i>US Personalization Validation Requirements (US-PVR)</i> .
<i>Visa Chip Vendor Enabled Service (CVES)</i>	A service offered by Chip Tool vendors, whereby they have been confirmed by Visa as being capable of delivering EMV terminal integration testing, results analysis and reporting service for acquirers and acquirer processors in accordance with Visa-defined test requirements.

## Product and Services Definitions

Term	Definition
<i>Contact and Contactless Card Simulator for U.S. Debit Test Cards</i>	Tool used to emulate the contact and contactless chip cards used within the U.S. versions of Visa Acquirer Device Validation Toolkit (ADVT) and Contactless Device Evaluation Toolkit (CDET).
<i>Contact and Contactless Physical Cards for U.S. Debit Test Cards</i>	Denotes that physical cards are being used instead of a simulator.
<i>U.S. Fleet Contact Chip Simulated Test Cards</i>	Tool used to emulate the contact chip Fleet cards
<i>U.S. ADVT Physical Test Cards</i>	Physical test cards for subset of global ADVT for Quick Chip and U.S. Online Only Minimum Terminal Configurations – includes U.S. Debit and optional Fleet test cards
<i>U.S. ADVT / CDET Online Host Simulator</i>	Tool used to emulate the online host requirements of the U.S. version of Visa Acquirer Device Validation Toolkit (ADVT) and Contactless Device Evaluation Toolkit (CDET) for Quick Chip and U.S. Online Only Minimum Terminal Configurations – includes U.S. Debit, Credit and optional Fleet test cases.