EMVCo Qualified and Visa Confirmed L3 Test Tools and Components

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This document outlines the EMVCo Qualified and Visa's confirmed L3 test tools and components. It contains the following section:

- Section 1: Overview
- Section 2: EMVCo Qualified and Visa Confirmed L3 Test Tools List

Important: This document no longer includes information on Personalization Validation Testing (PVT) tools. For information on PVT tools, refer to the Visa Qualified PVT Tools document in the Global Personalization Requirements section on the Visa Technology Partner website.

Section 1: Overview

This section outlines the L3 test tool components:

- **L3 Card Simulator (L3-CS):** Component that interprets the Visa-provided XML test card images to emulate their personalization and behaviors for each desired L3 test case.
- **L3 Test Tool Engine (L3-TT):** Component that determines the applicable test cases for execution, in accordance with user entries (terminal configuration and deployment environment) and Visa-defined test case selection criteria. Also determines test case results in accordance with Visa-defined pass criteria.
- **L3 Test Selection Engine (L3-TSE):** Component that presents the necessary questions, prompts, completion guidance, and errors (if inaccurate entries or selections) to the user, in accordance with Visa definitions.
- **L3 Online Message Log (L3-OML):** Tool used to emulate the online host requirements of Visa's L3 test cases and confirmed by Visa as compliant to the EMV L3 Online Message Log (L3 OML) format.

The complete list of EMVCo-qualified L3 test tool components may be found on the EMVCo website.

Note: It is possible that a component may be listed as being EMVCo-qualified on the emvco.com website yet not listed here as being Visa-confirmed. This may simply mean that the component hasn't yet met the additional requirements stipulated by Visa.

Refer to the latest version of the *Visa Global Level 3 (L3) Testing Guidelines and Frequently Asked Questions (FAQ)* document for details on Visa's L3 test tool requirements.

Other key terms used in the table on the following page:

- **FIG**: EMV[1] Level 3 Framework Implementation Guidelines
- **PF:** EMV Level 3 - Pseudo Function Definitions for Test Card Images
- **SB:** Specification Bulletin

All documents are publicly available on the EMVCo website.

[1] EMV® is a registered trademark in the U.S. and other countries and an unregistered trademark elsewhere. The EMV trademark is owned by EMVCo, LLC.

Disclaimer: Visa reserves the right, at its sole discretion, to change, modify, or remove EMVCo Qualified and Visa Confirmed L3 test tools from this list. It is your responsibility to check this list periodically for changes.

Section 2: EMVCo Qualified and Visa Confirmed L3 Test Tools List

Vendor	L3 Component	Product Name	Specification
Ascert LLC Contact: Martin Travers Email: info@ascert.com	L3-OML	Ascert VersaTest Automator Visa Driver v1.14.5	Visa L3 Host Simulator Test Plan v1.1
FIME Contact: Gaëtan Javelle Email: gaetan.javelle@fime.com	L3-CS	FIME Card Emulator/ Savvi Test Platform v1.0.15/3.54 with Patch 1	L3 FIG v1.1, SB 251, and L3 PF v1.5 (EMVCo QN: L3Q_LoQ_FISA_00032)
	L3-TT	Savvi Test Platform v3.33.8052.34135	L3 FIG v1.1 and SB 251 (EMVCo QN: L3Q_LoQ_FISA_00025)
	L3-TSE	Savvi TSE Engine v1.2.3.0 (SAVVI platform 3.22.7801.29240)	L3 FIG v1.1 and SB 251 (EMVCo QN: L3Q_LoQ_FISA_00018)
	L3-OML	Savvi Test Host v3.25.8234.26347	Visa L3 Host Simulator Test Plan v1.1
FIS Contact: Greg Smith Email: Greg.Smith2@fisglobal.com	L3-CS	FIS OTS Card Simulator v1.0.0	L3 FIG v1.0 and L3 PF v1.0 (EMVCo QN: L3Q_LoQ_C2PA_00005)
	L3-TT	OTS Terminal Integration – EMVCo L3 Test Tool Engine v1.2.0	L3 FIG v1.1 and SB 251 (EMVCo QN: L3Q_LoQ_FISL_00030)
	L3-TSE	OTS Terminal Integration – EMVCo L3 TSE v1.0-v1.2.0	L3 FIG v1.1 and SB 251 (EMVCo QN: L3Q_LoQ_FISL_00029)
	L3-OML (Lexel Solutions Technology Platform)	FIS VisaNet Authorization-Only - Oct 2023 v3.0 FIS Visa SMS ATM ISO - Oct 2023 v3.0 FIS Visa SMS Interlink ISO - Oct 2023 v3.0 FIS Visa SMS POS - Oct 2023 v3.0	Visa L3 Host Simulator Test Plan v1.1
	L3-OML (OTS Host Test Platform)	FIS VisaNet Authorization-Only - Oct 2023 v9.113 v1.39.1028	Visa L3 Host Simulator Test Plan v1.1

Vendor	L3 Component	Product Name	Specification
Galitt Email: testing_tools@galitt.com	L3-CS	KaNest-L3 CS Module Version 923-KaNest-L3-2.4.4 131-KaNestICC-7.40.00 1093-Multi-Brands_Cards-1.00.31 1094-EMV_L3_TTS-1.00.13	L3 FIG v1.1, SB 251, and L3 PF v1.5 (EMVCo QN: L3Q_LoQ_GALI_00027)
	L3-TT	KaNest-L3 v2.4.4	L3 FIG v1.1 and SB 251 (EMVCo QN: L3Q_LoQ_GALI_00023)
	L3-TSE	KaNest TC Manager Version KaNest® TC Manager v2.1.1-rc.2 TSE component v1.0	L3 FIG v1.1 and SB 251 (EMVCo QN: L3Q_LoQ_GALI_00015)
	L3-OML	L3 Responder for Base I v1.00.00	Visa L3 Host Simulator Test Plan v1.1
ICC Solutions Email: sales@iccsolutions.com	L3-CS	ICCSimTMat v4.8	L3 FIG v1.0 and L3 PF v1.0 (EMVCo QN: L3Q_LoQ_ICCS_00003)
	L3-TT	L3TT Component v2.0.14	L3 FIG v1.1 and SB 251 (EMVCo QN: L3Q_LoQ_ICCS_00022)
	L3-TSE	L3 TSE Online Version v1.0	L3 FIG v1.2 (EMVCo QN: L3Q_LoQ_ICCS_00033)
PayHuddle Contact: Indranil Chakraborty Email: sales@payhuddle.com	L3-CS	TECTO CS Version 1.0.7	L3 FIG v1.1, SB 251, and L3 PF v1.5 (EMVCo QN: L3Q_LoQ_PSPL_00024)
	L3-TT	TECTO TT v1.0.2	L3 FIG v1.1 and SB 251 (EMVCo QN: L3Q_LoQ_PSPL_00021)
	L3-TSE	TECTO v1.0.4	L3 FIG v1.1 and SB 251 (EMVCo QN: L3Q_LoQ_PSPL_00016)
	L3-OML	TECTO Host Simulator v1.0.2	Visa L3 Host Simulator Test Plan v1.1
UL Contact: Angel Romero Email: Angel.Romero@ul.com	L3-CS	UL Brand Test Tool v5.4.1 (and subsequent versions)	L3 FIG v1.0 and L3 PF v1.0 (EMVCo QN: L3Q_LoQ_ULTS_00009)
		UL Brand Test Tool Using Physical ATM Test Cards v5.6.1	L3 FIG v1.1, SB 251, and L3 PF v1.5 (EMVCo QN: L3Q_LoQ_ULTS_00028
	L3-TT	emvco-l3-tt-component v1.0.8	L3 FIG v1.1 and SB 251 (EMVCo QN: L3Q_LoQ_ULTS_00019)
	L3-TSE	UL EMVCo L3 TSE Tool/ emvco-l3-tse-component v1.0.0/1.0.0	L3 FIG v1.1 and SB 251 (EMVCo QN: L3Q_LoQ_ULTS_00017)
	L3-OML	UL ASTREX v6.0 Release Number 2469	Visa L3 Host Simulator Test Plan v1.1
	L3-OML	UL Brand Test Tool Host Simulator Module v5.6.1	Visa L3 Host Simulator Test Plan v1.1