

# EMV Test Tools

## For Terminal-Acquirer Integration

Flexible, field-proven solutions for fast certification and cost-efficiency

**Confirmed by major payment brands**



[www.fisglobal.com](http://www.fisglobal.com)

**FIS**

# EMV Test Tools

## For Merchants, VARs, ISVs, Acquirer Processors and Banks

When deploying your card payment devices, you need to ensure these are tested and certified according to brand requirements and EMVCo specifications.

This can be a complex and time-consuming task, especially if you test manually. Open Test Solutions for Terminal-Acquirer Integration are developed to simplify your move to EMV and ensure the correct integration of terminal and acquirer; the tools can be used during pre-certification and brand certification processes. Automation makes certain that you and your staff's valuable time is being utilized in the most optimal way.

You can feel secure in the knowledge that your deployed products are foolproof and that your brand reputation remains pristine.

FIS™ is an experienced service provider helping you to navigate through the complexities, remain compliant and optimize your investment in EMV. We work closely with EMVCo and both domestic and international payment brands.

Our 20 years of EMV expertise allows us to help you define your unique route to EMV, ensuring that you and your customers reach the end point fully prepared for the new reality of a migrated market.

### Test Solutions

Working with customers from around the world, we developed a set of solutions to ensure that payment networks' test requirements and acquirer test requirements are being met for both contact and contactless EMV terminals.

Used during both the pre-certification and brand certification processes, these test solutions are the essential toolkit to ensure a successful integration of EMV terminals in the acceptance environment.

Programmable test cards log the card-terminal data exchange automatically so no spying hardware is required. The test solution contains brand certification test scripts and step-by-step user guidance during test execution. The automated tool reads the card-terminal log and automatically validates the data exchange. It imports the Host Simulator log and automatically validates the Host Simulator exchange. Reports can be generated in a brand's official formats, ready to apply for the formal certification process.

### Available test solutions:

- **Visa ADVT** (contact)
- **Visa CDET** (contactless)
- **Visa US Debit** (contact & contactless)
- **MasterCard MTIP** (contact and contactless)
- **Discover DPAS** (contact and contactless)
- **American Express AEIPS** (contact)
- **American Express ExpressPay** (contactless)
- **American Express Quick Chip** (contact)
- **Pulse DPAS ATM and POS PIN Debit** (contact)
- **Diners DPAS** (contact & contactless)
- **Host Simulation Tools**

The difference between pre-certification and brand certification lies at the Host Simulator level.

In the pre-certification process, during which the acquirer processor host (and payment brand network) is simulated, the terminal-acquirer communication protocol is taken into account. The test tool allows the execution of complete brand-defined test scripts without connection to the acquirer processor environment or brand network host — these are the same test scripts as used during brand certification.

Pre-certification test suites allow rapid testing and re-testing during terminal development before the often expensive and difficult-to-plan full brand certification. Terminals that have gone through pre-certification often require only one brand certification cycle as the payment brand network testing rules have already been applied.

We have a comprehensive set of Acquirer Simulators available for Terminal-Acquirer protocols.

For Brand Certification the live Acquirer Processor Host needs to be used, in this case only the Brand Network is simulated. The tool allows execution of the complete brand-defined test scripts without connection to the actual brand network.

The following brand network simulators are available:

- Amex GNS
- Discover ISO
- MasterCard Credit
- MasterCard Debit
- Visa Base I
- Visa VIP
- Pulse ISO
- Diners ISO

## Services

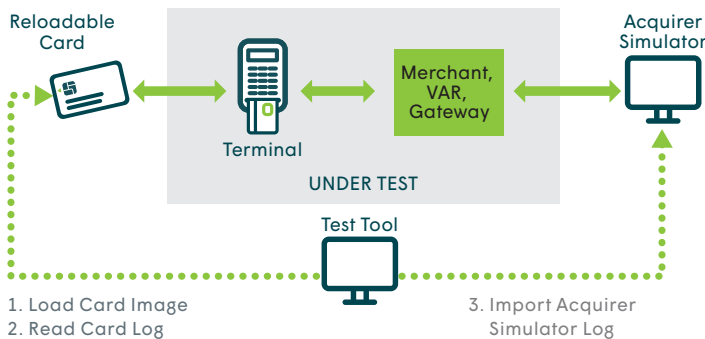
Open Test Solutions is an accredited provider of EMV services for major payment brands. In combination with our pre-certification and brand certification services, we help you streamline your EMV project from end-to-end. It's fast, reliable and cost-efficient.

Our training and advisory team guides you through the business and technical complexities, providing guidelines for every EMV step you have to take.

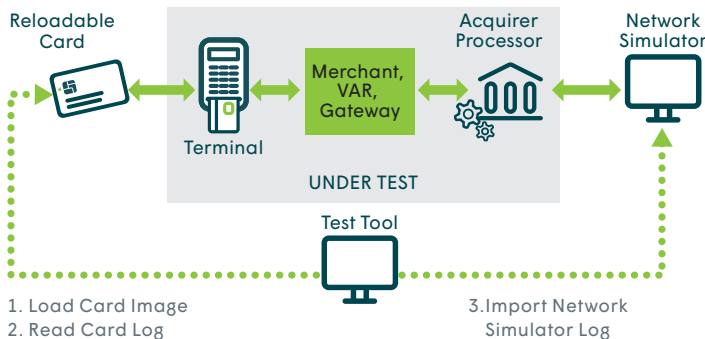
See our dedicated EMV Services brochure for more information.

## Test Environment components

### Pre-certification



### Brand Certification



## Confidence Cards

Ready-to-use chip cards that help you prepare your EMV brand certification. You can use them for a quick check of your end-to-end payment acceptance systems, staff training or product demonstrations.

A single Confidence Card pack contains 40 cards. It includes both contact and dual interface cards (contact and contactless) for American Express, Discover, MasterCard and Visa — 10 cards per brand.

Confidence Cards help you prepare for brand certification, which you can attain with FIS' Terminal Integration Test Solutions.

## Why Open Test Solutions?

### EMV is in our DNA

Involved in the newest technologies and industry work groups for more than 20 years, we help you achieve your goals on time and on budget.

We have been involved in the payment technology standard since the very start, and as an EMVCo technical associate we have developed a vast number of EMVCo validated test solutions.

We strive to act as a strong and reliable partner — resulting in a win-win model for all.

### Your benefits:

- > User friendly: designed for use by non-technical staff
- > Save time with automated solutions
- > Cost-efficient
- > Field-proven: test tools built on 20+ years of EMV expertise
- > Certified by American Express, Discover, MasterCard and Visa
- > Holistic approach: solutions and services from end-to-end

Open Test Solutions is an expert provider of test solutions and test services for all electronic payment transactions.

We help our customers save time and efficiently launch payment innovations that meet the highest quality standards. From a leadership position, we aim to build a true partner relationship to build engagement and generate insights that we use to develop the solution that fits your business perfectly.

FIS is the world's largest global provider dedicated to banking and payments technologies. FIS serves more than 20,000 institutions in over 130 countries.

# Your Quality Confirmed.

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