

# Collis Card Simulator



*TIP, M-TIP & NIV  
qualified by MasterCard®  
as validation tool*

*ADVT & ADVT-qVSDC  
card simulation  
confirmed by Visa*

## Terminal Testing

EMV migration is truly up and running throughout the globe. Mass deployment of EMV cards or smart cards has been motivated by the shift of legal liability put forward by card associations. This means that the card associations themselves will no longer be responsible for any fraudulent transactions by non-EMV cards.

Deployment of smart cards is only one side of the story. EMV migration also means that the terminals (both ATM and POS devices) in the field need to be modified and tested so that they can accept smart cards.

As contactless EMV transactions are also gaining in momentum, this means that contactless terminals need to undergo testing too. The physical EMV test cards (contact and/or contactless), that are required for this testing are often difficult to find or be easily damaged. This is where the Collis Card Simulator can make your life easier!

## Simulating Solution

The Collis Card Simulator is a state-of-the-art tool that can simulate any and all functions of an actual smart card (contact/contactless). The simulated cards play an active role during the whole transaction process.

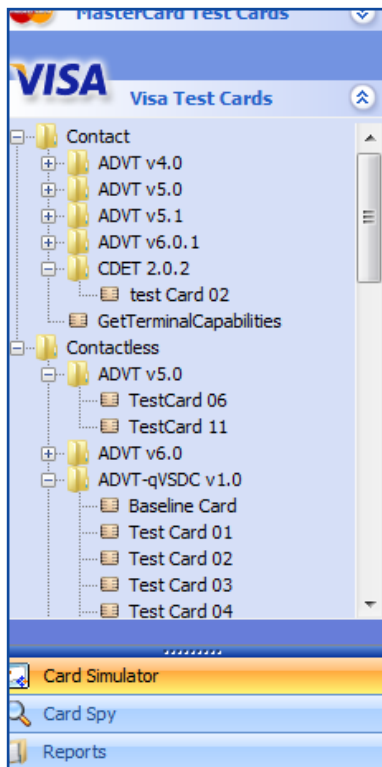
The Collis Card Simulator simulates the real behavior of an EMV card without the need for any physical EMV cards. It simplifies the terminal testing procedure in various ways, mainly by eliminating the dependency on EMV issuers and schemes for test cards.

The Collis Card Simulator can simulate both correctly functional cards and faulty cards. Simulating cards with errors is often just as important as correctly functional cards. It enables you to observe the terminal's behavior during a faulty card transaction and whether it reacts in the correct way.

### Collis Card Simulator - Key Benefits

- ◆ Reduce time-to-market for terminals/ATMs
- ◆ Contact and contactless real time card simulation
- ◆ Comprehensive reports including insight into application logic
- ◆ Customized profiles
- ◆ Flexible and easy to use

# True Card Simulation



Card images

## Card Images

Collis Card Simulator is delivered with a pre-defined set of card images, the Collis card image library; a great source of card images from all over the world for all major payment schemes. The simulated cards include:

- ◆ **Visa VIS (DEF)**
  - ADVT 5.1 and 6.0 card images confirmed by Visa
  - Visa Contactless ADVT-qVSDC and CDET card images
  - Visa payWave qVSDC, MSD, VSDC
- ◆ **MasterCard® PayPass, MagStripe, M/Chip**
  - TIP, M-TIP and NIV card images qualified by MasterCard
  - MasterCard M/Chip 4, M/Chip Advance
  - MasterCard Contactless TIP card images
- ◆ **American Express AEIPS card images**
- ◆ **JCB (TCI) card images**
- ◆ **Diners Club card images**
- ◆ **Discover card images**
- ◆ **Interac card images**

All EMV functionalities and capabilities of physical EMV cards are simulated and supported through the card images. The test card images are designed to ensure correct device configuration, assist with integration and interoperability testing, and smooth prototyping.

You can simply select the card configuration you wish to test from the list of card images and start testing. It is really that easy!

## Customized to Your Need

The great thing about the Simulator is the ability to add your own card images (e.g. card images that are specific to your country).

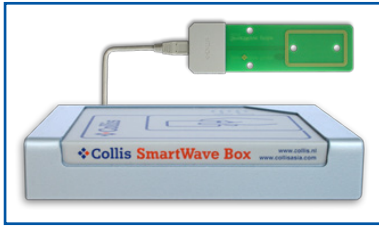
Plus, Collis can also develop additional card images to meet any profile or configuration requirements. This functionality makes it possible for you to implement the right application inside the card according to your needs. Since multi-application and multi-brand cards are becoming popular, it is important to optimize all card data contents.



Collis Card Simulator main screen

# Complete Package

## Set-up



Collis SmartWave Box - 'One of the most innovative and advanced Payments Software/Hardware Product' at the EPCA/ECR 2008 Awards

Depending on your terminal testing you will need to choose the correct piece of hardware:

### Collis SmartWave Box

The award winning Collis SmartWave Box has been developed specifically for those who are implementing contactless technology in their payment operations. The Box is an in-depth and unique testing tool that helps you through successful contactless migration. It is the perfect solution for testing, spying, reading and - in the case of the Collis Card Simulator - simulating contactless cards.

With its various modes of operation, the Collis SmartWave Box is the most versatile tool available today for contactless testing.



Collis SmartLink Box for contact card simulation

### Collis SmartLink Box

The Collis SmartLink Box is mandatory in using the Collis Card Simulator for contact cards. When the card simulation is running, the Collis SmartLink Box is used to exchange messages with the terminal via a probe (bank-sized card) that is inserted into the terminal. Collis also have a special probe for ATM readers.

## Reporting

A detailed and clear report of the testing is generated by the EMV Card Simulator. All commands from the EMV Card Simulator and responses from the terminal are logged and clearly reported. The report contains technical data as well as interpretation of the data.

The Collis Card Simulator also provides insight to the logic of a card application. The Tool can be used to trace and analyze interaction between the card image and the terminal, which ultimately improve the terminals functionality to gain certification.

## Complimentary Tool

Collis Card Simulator contains the functionality of Collis Card Spy. If you purchase Collis Card Simulator there is no need to buy Collis Card Spy separately.

Please read our brochure to learn more about the Spy tool by visiting our website [www.ul-ts.com](http://www.ul-ts.com).

```
1st Generate AC (TC)
├── CardTerm?Command
├── CardTerm!Card_response
├── CardTerm?cmd
├── CDOL1 data { 00 00 00 00 00 01 00 00 00 00 00 00 08 26 00 00 00 00 00 09 78 08 09 18
├── Matching cdolData
│   ├── Evaluated: 00 00 00 00 00 01 00 00 00 00 00 00 08 26 00 00 00 00 00 00 09
│   │   ├── Amount_Authorised 00 00 00 00 00 01
│   │   ├── Amount_Other 00 00 00 00 00 00
│   │   ├── Terminal_Country_Code 08 26
│   │   ├── Terminal_Verification_Results 00 00 00 00 00
│   │   ├── Transaction_Currency_Code 09 78
│   │   ├── Transaction_Date 08 09 18
│   │   ├── Transaction_Type 00
│   │   └── Unpredictable_Number A6 9E 16 85
│   └── Expected: ..
├── Terminal Country code [9F 1A] = 08 26
│   ├── Country Code = 08 26
│   └── Country Name = United Kingdom
├── Transaction Currency code [5F 2A] = 09 78
│   ├── Code (num) = 09 78
│   ├── Code (an) = EUR
│   └── Currency = Euro
└── Terminal Verification Results [95] = 00 00 00 00 00
    Byte 1 bit 8 = 0 Not 'Offline data authentication was not performed'
```

Automatic report generation

# Contact Us

## Product Range

---

- ◆ **Collis Card Simulator, including:**
    - Collis Card Spy
    - Collis Card Simulator
    - Collis SmartLink Box (contact)
    - Collis SmartWave Box (contactless)
- Ref Code: C-CSim-P1*

## Additional Products

---

- ◆ **Collis Visa payWave Test Tool**  
*Ref Code: C-VpTT-P1*
- ◆ **Collis EMV Personalisation Validation Tool**  
*Ref Code: C-PVT-P1*
- ◆ **Collis Brand Test Tool**  
*Ref Code: C-BTT-P1*
- ◆ **Collis Card Image Editor**  
*Ref Code: C-CIE-P1*

## Additional Services

---

- ◆ **MasterCard TIP Formal Approval Services (FAS)**
- ◆ **Brand Testing Services**
- ◆ **EMV Training**
- ◆ **Contactless and Mobile Payment Training**

## Contact

---

The Collis and Aspects portfolio of test tools are developed by UL Transaction Security.

For sales enquiries, please contact us at [info@ul-ts.com](mailto:info@ul-ts.com), visit [www.ul-ts.com](http://www.ul-ts.com), or contact a UL Licensed Reseller.