

# SmartCard Technologies

As a leading and independent full service provider for testing and certification of SmartCard, RFID and NFC related solutions, cetecom advanced's worldwide operating division SmartCard Technologies offers a wide range of **DEBUG** and **TYPE APPROVAL** services for **BANKING & FINANCE** and **eIDENTIFICATION**.



## TEST SCHEMES & ACCREDITATIONS

### ePAYMENT

Banking/Mobile Payment/mPOS Solutions/eCommerce

- EMVCo
- American Express
- Discover
- Mastercard
- Visa
- JCB
- Union Pay
- Girocard - Die Deutsche Kreditwirtschaft (GBIC)
- NEXO

### eHEALTH

- gematik

### eIDENTIFICATION

ePassport, (German) eID

- BSI TR-03105
- ISO/IEC 18745-2

### eTICKETING

- VDV-KA
- CEN/TS 16794
- BSI TR-03150

### BIOMETRICS

- Mastercard/Visa/Google

### CCC (Car Connectivity Consortium)

- Digital Key



### COMPLIANCE TESTING FOR CONTACTLESS TECHNOLOGIES

- ISO/IEC 10373-6 (based on ISO/IEC 14443)

### STANDARDISATION ACTIVITIES

- Member of DIN/NEXO/CCC (Car Connectivity Consortium)

## TESTING SERVICES

- Type Approval and Compliance Testing
- Pretest / Debug Testing
- Consultancy

## RFID/NFC

Whether RFID technology is used for ePassport, Contactless or NFC applications, cetecom advanced supports customers in setting and evolving the performance, ensuring that products meet the expectations for regulatory, quality, health, environmental and safety standards for almost any market around the world.

## SUPPLEMENTARY TESTING SERVICES

cetecom advanced offers a broad portfolio of testing and certification services for your device:

- EMC/Electrical Safety/Health (SAR)
- Environmental Simulation
- Battery Testing
- Radio Testing: DECT, LTE/UMTS/GSM, Bluetooth®, Wi-Fi®, SIGFOX, LoRa, LPWAN
- Network Access
- International Type Approval



# SmartCard Technologies

Based on various accreditations by international standardization bodies, cetecom advanced offers consulting, testing and certification services for Banking Applications, Mobile Payment and mPOS solutions including analog, protocol and application testing. The following overview shows our accreditations and other services in the respective payment scheme:

## EMVCO

### Terminals

- EMVCo Contact Terminal Level 1 & 2
- EMVCo Contactless Terminal Level 1 & 2
- EMVCo COTS Level 1
- EMVCo Terminal ESD Evaluation

### Cards / Wearables

- EMVCo Contact Card Level 1
- EMVCo Contactless Card Level 1
- EMVCo CCD & CPA Card

### Mobile

- EMVCo Mobile Level 1 (Phase II)
- PPSE

### 3-D Secure

- 3DS Server
- Access Control Server
- Directory Server
- SDK coming soon

## VISA

### Terminals

- Acceptance Devices (Contactless Terminal Level 2)
- Cross Testing
- Tap to Phone (SoftPOS/COTS)
- Fleet

### Cards / Wearables

- VSDC Functional Testing (incl. Level 1)
- Contact & Contactless Testing (VIS & VCPS)
- Prepaid Chip
- VISA Seccos (VCPS)

### Mobile

- Visa Mobile Payment (incl. HCE)
- Visa Mobile Payment Application (VMPA incl. UICC/SE)

### Biometric Product Testing - Sensor & Algorithm

## DK-DIE DEUTSCHE KREDITWIRTSCHAFT/ GERMAN BANKING INDUSTRY COMMITTEE (GBIC)

### Accreditations for

- GiroCard and Network Components
- GeldKarte & Secoder
- Payment Network Host Systems
- GBIC ATM System (GA 20xx)
- DC-POS 3.x/TA 7.x

### cetecom advanced Test Tool

- Web based Online Test Tool - "cetecom Online Host"

## GOOGLE

- Biometrics Product Testing Fingerprint Sensor
- Biometrics Product Testing Face Recognition coming soon

## JCB

### Terminals

- Acceptance Devices (Contactless Terminal Level 2)
- SoftPOS (Tap on Mobile/COTS) coming soon

## UNION PAY

### Terminals

- Acceptance Devices (Contactless Terminal Level 2)

## MASTERCARD

### Terminals

- Acceptance Devices (Contactless Terminal Level 2)
- Tap on Phone (SoftPOS/COTS)

### Cards/Wearables

- M/Chip Card
- Contact & Contactless Testing

### Mobile

- M/Chip Mobile
- Mastercard Cloud Based Payments (MCCBP)
- Mastercard Mobile Payment (incl. HCE/SE)
- Mastercard Mobile Payment Application (MPA)

### Formal Approval Service Provider

- M-TIP
- GICC-TIP
- CPV

### Biometric Product Testing - Sensor & Algorithm

## AMERICAN EXPRESS (AMEX)

### Terminals

- Expresspay Terminal Level 2 Contactless
- SoftPOS/COTS

### Cards / Wearables

- Level 1 Contact and Contactless (ID1)
- Card Functional (AEIPS & XPAY)

### Mobile

- Level 1 Mobile Handset (UICC & HCE)

## DISCOVER

### Terminals

- Contactless D-PAS Terminal Application
- Contactless D-PAS Terminal Cross Testing
- SoftPOS/COTS

### Cards / Wearables

- Contact D-PAS Connect Card Application
- Contactless D-PAS Connect Card Application & Cross Testing

### Mobile

- Mobile D-PAS Card Application (SE)

## NEXO

- POI Terminal

