

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
- UnionPay
- Girocard - Die Deutsche Kreditwirtschaft (GIBIC)
- NEXO

eHEALTH

- gematik

eIDENTIFICATION

ePassport, (German) eID

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

eTICKETING

- VDVK
- CEN/TS 16794
- BSI TR-03150

BIOMETRICS

- Mastercard/Visa/Google

CCC (Car Connectivity Consortium)

- Digital Key Applet
- E2E IOP for Vehicle

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

The following overview shows our accreditations and other services for different payment schemes:

EMVCO

Terminals

- EMVCo Contact Terminal Level 1 & 2
- EMVCo Contactless Terminal Level 1 & 2
- EMVCo Contactless PCD L1 Reduced Range (RR)
- 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

VISA

Terminals

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

Cards / Wearables

- VIS (Contact)
- VCPS (Contactless)
- Multi Access
- VPCS (Prepaid)
- VBSS (Biometric)
- VISA Seccos (VCPS in Europe)

Mobile

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

Biometric Product Testing - Sensor & Algorithm

- Sensor Characteristics
- PAD Performance
- FAR / FRR
- Timing Performance

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 Test Tool - "cetecom advanced Online Host"

JCB

Terminals

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

UNIONPAY

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 (MCBP)
- 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

- PAD Performance
- FAR / FRR
- Timing Performance

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)

GOOGLE

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

NEXO

- POI Terminal

