

SmartCard Technologies

As a leading and independent full service provider for SmartCard, RFID and NFC related solutions, CTC 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

- EMVCo
- American Express
- Discover
- Mastercard
- Visa
- DK - Die Deutsche Kreditwirtschaft

eHEALTH

Electronic Health Cards

- gematik

eIDENTIFICATION

ePassport, (German) eID

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

eTICKETING

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

BIOMETRICS

- Mastercard
- Visa

COMPLIANCE TESTING FOR CONTACTLESS TECHNOLOGIES

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

STANDARDISATION ACTIVITIES

- Member of EMVCo (Technical Associates)
- Member of DIN
- Member of NEXO

TESTING SERVICES

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

RFID

Whether RFID technology is used for ePassport, Contactless or NFC applications, CTC 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

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

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



SmartCard Technologies

As a holder of various accreditations for both contact and contactless applications, CTC advanced offers consulting, testing and certification services for Banking Applications, Mobile Payment and mPOS solutions including analog test bench, protocol and application testing. The following overview shows our accreditations, as well as other services in the respective payment scheme:

EMVCO

Terminals

- EMVCo Contact Terminal Level 1 and 2
- EMVCo Contactless Terminal Level 1
- EMVCo Contactless Product Terminal (Level 2)
- 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

- Visa Contactless Device and Reader (MSD, qVSDC, VOQOS & Cross Testing)
- Tap to Phone (SoftPOS, COTS)
- Fleet

Cards / Wearables

- VSDC Functional Testing (incl. Level 1)
- Contactless Testing (VCPS)
- Contact Testing (VIS)
- Prepaid Chip
- Dual Interface Testing (Contact/Contactless)

Biometric

Mobile

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

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

Accreditations for

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

CTC advanced Test Tool

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

NEXO

- POI Terminal

MASTERCARD

Terminals

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

Cards/Wearables

- M/Chip Card
- Contact, Contactless and Dual Interface Testing

Mobile

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

Biometric

Formal Approval Service Provider

- M-TIP
- GICC-TIP
- CPV

AMERICAN EXPRESS (AMEX)

Terminals

- Expresspay Terminal Level 2 Contactless
- AMEX SoftPOS (COTS)

Cards / Wearables

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

Mobile

- Level 1 Mobile Handset (UICC & HCE)
- Mobile Functional

DISCOVER

Terminals

- Contactless D-PAS Terminal Application
- Contactless D-PAS Terminal Cross Testing

Cards / Wearables

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

Mobile

- Mobile D-PAS Card Application (SE)

PURE

Terminals

- PURE Terminal Certification



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