

SmartCard Technologies

As a leading and independent full service provider for SmartCard, RFID and NFC related solutions, CTC advanced's worldwide operating SmartCard Technologies Competence Center offers a wide range of services to provide type approval processes for mobile payment applications, ICC cards, wearables and terminals.

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 (Mobile Devices)
- Visa (Terminal & Card)

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
- Environmental Impact Assessment
- DECT, LTE/UMTS/GSM, Bluetooth®, Wi-Fi®
- Network Access
- International Type Approval



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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.

EMVCO

CTC advanced is accredited by EMVCo to perform Type Approval Testing and Compliance Validation on:

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

CTC advanced is accredited by Visa to perform Type Approval Testing on:

Terminals

- Visa Contactless Device and Reader (MSD, qVSDC, VOQOS & Cross Testing)
- Tap-to-Phone products
- Fleet
- Biometrics Terminal Specification

Cards / Wearables

- VSDC functional testing (incl. Level 1)
- Contactless testing (VCPS)
- Contact testing (VIS)
- Prepaid Chip specification
- Dual interface testing
- Biometric Sensor on Chip Card (VBSS)

Mobile

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

DK – DIE DEUTSCHE KREDITWIRTSCHAFT

CTC advanced is accredited by DK to perform Type Approval Testing on:

- Electronic Cash Terminals and Network Components
- GeldKarte
- Secoder
- Payment Network Host Systems
- German ATM System (GA 2015)
- DC-POS / TA 7.x

MASTERCARD

CTC advanced is accredited by Mastercard to perform Type Approval Testing on:

Terminals

- Acceptance Devices (Contactless Terminal Level 2)
- SoftPOS

Cards/Wearables

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

Mobile

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

Formal Approval Service Provider

CTC advanced is accredited by Mastercard to act as a Formal Service Provider for:

- M-TIP / GICC-TIP
- CPV

AMERICAN EXPRESS (AMEX)

CTC advanced is accredited by AMEX to perform Type Approval Testing on:

Terminals

- Expresspay Terminal Level 2 Contactless

Cards / Wearables

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

Mobile

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

DISCOVER

CTC advanced is accredited by Discover to perform Type Approval Testing on:

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)