

BECAUSE QUALITY MATTERS



## SMARTCARD TECHNOLOGIES

### CETECOM SMART CARD SERVICES

As a leading and independent full service provider for Smart Card, RFID and NFC related solutions, CETECOM's worldwide operating SmartCard Technologies Competence Center offers a wide range of services to implement the type approval process for mobile payment applications, ICC cards and terminals.

#### TEST SCHEMES & ACCREDITATIONS

##### ePAYMENT

###### Banking, Mobile Payment & mPOS Solutions

- EMVCo
- American Express
- Discover
- MasterCard Worldwide
- VISA
- DK Deutsche Kreditwirtschaft

##### eHEALTH

###### Electronic Health Cards

- gematik
- SESAM-Vitale

##### eIDENTIFICATION

###### ePassport, nPA

- BSI
- ICAO

##### eTICKETING

- VDV-KA (Test request form: <http://bit.ly/25Ko00V>)

#### OTHER CONTACTLESS TECHNOLOGIES

- ISO/IEC 14443
- ISO/IEC 15693

#### STANDARDISATION ACTIVITIES

- Member of ETSI
- Member of NFC Forum
- Member of GlobalPlatform
- Member of NEXO
- Member of GCF
- Member of GSMA

#### TESTING SERVICES

- Type Approval Testing
- Pretest Service
- Debug Service
- Consultancy

#### SUPPLEMENTARY TESTING SERVICES

CETECOM offers complementary testing and certification services for your terminal and its interfaces:

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

#### GLOBALPLATFORM

GlobalPlatform defines and develops specifications to facilitate the secure deployment and management of multiple applications on secure chip technology. GlobalPlatform offers a standardized infrastructure and APIs for the management of applications on secure chip technology, which are compatible with all connected devices.

CETECOM is GlobalPlatform Qualified Lab with focus on the card side. Available test suites:

- UICC Configuration
- UICC Contactless Extension
- Basic Financial Configuration
- ID Configuration
- Mapping Guidelines
- UICC SCP81 Extension
- SWP and HCI (v1 and v2)
- Secure Element
- Secure Element Access Control (Card Compliance)
- Common Implementation Configuration
- eUICC Compliance Test Suite



# ePayment

As a holder of various accreditations for both contact and contactless applications CETECOM offers consulting, testing and certification services for Banking Applications, Mobile Payment and mPOS solutions including analog test bench, protocol and application testing.

## EMVCO

CETECOM is accredited by EMVCo to perform Type Approval Testing on:

### Terminals

- EMVCo Contact Terminal Level 1, 2
- EMVCo Contactless Terminal Level 1
- EMVCo Contactless Product Terminal (Level 2)
- EMVCo Terminal ESD Evaluation

### Cards

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

### Mobile Type Approval

- Analog and Digital
- PPSE/AAUI

## AMERICAN EXPRESS

CETECOM is accredited by AMEX to perform Type Approval Testing on:

- Expresspay Mobile Level 1 (incl. HCE Level 1)
- Performance
- Interoperability
- Expresspay Terminal Level 2

## DISCOVER

CETECOM is accredited by Discover to perform Type Approval Testing on:

- Contact D-PAS Card Application
- Mobile D-PAS Card Application (SE)

## MASTERCARD WORLDWIDE

CETECOM is accredited by MasterCard to perform Type Approval Testing on:

- Acceptance Devices (Contactless Terminal Level 2)
- M/Chip Card (IAT)
- MasterCard Contactless Cardholder Products
- MasterCard Mobile Payment (MPA)
- MasterCard Cloud Based Payments

CETECOM is accredited by MasterCard to act as a Formal Services Provider for:

- M-TIP / GICC-TIP
- CPV

## Visa

CETECOM ist accredited by Visa to perform Type Approval Testing on:

- Visa Contactless Card Level 1
- Visa Mobile Payment Contactless Level 1
- Visa Mobile Payment Application (VMPA)
- Visa Mobile HCE L1
- Visa VCPS functional testing (qVSDC and MSD)

## DK – DEUTSCHE KREDITWIRTSCHAFT

CETECOM's test services according to the DK approval procedure include:

- Electronic Cash Terminals and Network Components
- GeldKarte System
- Secoder
- Payment Network Host Systems
- German ATM System

## RFID

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

## NFC

Near Field Communication (NFC) is an extension of the existing SmartCard standards (contactless/RFID) that combines the interface of a smartcard and a reader into a single device.

CETECOM is a NFC Forum Test Lab and active member in several NFC Forum working groups (Compliance Program WG, Test Mode Taskforce, Testing WG, RF Testing Taskforce). Our Lab offers different test services for NFC devices:

- NFC Forum Certification Tests
- Qualification tests of NFC devices based on ISO 14443 and ISO 10373