

EMV CARDS
QUALITY ASSURANCE
SYSTEM

PROMETEUS



Prometheus software provides a card quality assurance and investigation functionality for EMV cards issuers, including:

- control the EMV application with the values defined in the profile personalization data of a Payment System applications: Visa VPA, MasterCard Profile Advisor & CIET image, AmEx ACC-form output file.
- simulating real-world use of personalized cards to ensure card operability.
- analysis of the causes of inappropriate behavior of a specific card in the terminal devices.

CERTIFICATION IN THE PAYMENT SYSTEM

Prometheus minimizes the costs associated with certification card products in the international payment systems.

Analyzing the results of the personalization of smart cards for compliance with the EMV, Visa, MasterCard, American Express, JCB, UnionPay, Discover, Thales Pure, etc. actual specifications and ISO standards.

Prometheus allows to detect inconsistencies before certification card products.

MAIN FEATURES

- analysis of personalized data on the completeness, authenticity, consistency, lack of redundancy and duplication, as well as on compliance with the formats of data presentation and the conformity to the above specifications and standards prior to the official certification process.
- card security features testing. The software checks whether all the security features of the card are operable, including:
 - SDA/DDA/CDA application data authentication
 - plaintext and enciphered Offline PIN validation
 - application cryptogram validation
 - iCVV / chip CVC / CSC (iCSC) validation
 - PVV validation
 - ICC Dynamic Number and Data Authentication Code validation
- verification of encryption keys and MAC key which are required for issuer-to-card scripts execution.
- checking consistency of chip data, embossed data and magnetic stripe data
- support cryptographic devices used to EMV application functions: SAM-cards, HSM Thales payShield and software implementation.



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