



emv
Appliance

emv Appliance

The first EMV risk management appliance in the Brazilian market. All services and features in a single certified FIPS 140-2 equipment.

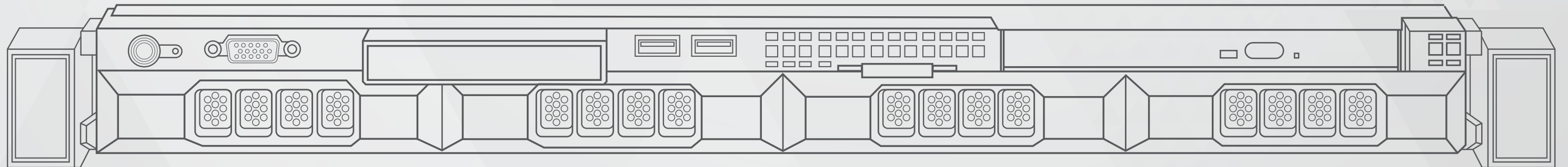
Ecoscard is launching EMV risk management appliance in the Brazilian market. With Ecoscard EMVAppliance, EMV migration becomes faster, simpler and low cost without the need of paying for active cards service. All EMV services and features required for EMV migration in a single equipment with certified FIPS 140-2 HSM Level 2 and Level 3. Authentication of EMV cards, Generation of EMV scripts, Management of EMV Certificates and Preparation of integrated EMV data in a single equipment. EMV Appliance is installed in your DataCenter fully configured and ready for use, reducing drastically the implementation time for EMV implementation projects.

▶ Features

- ARQC Verification
- ARPC Generation
- ALU Multos Personalization

▶ Specifications

- VISA VSDC 1.3.2 -1.4.0,
- Mastercard M/Chip 2 – 4
- EMV CCD standard



ALU Multos Confidential personalization for on demand Instant Issuing process. Supports Elo, MasterCard, Visa, EMV CCD, among others



Improves risk management through robust EMV authorization processes



Improves risk management through advanced EMV scripts



Fast and simple EMV certificate management



Fast, simple and safe EMV data preparation and ALU Multos personalization

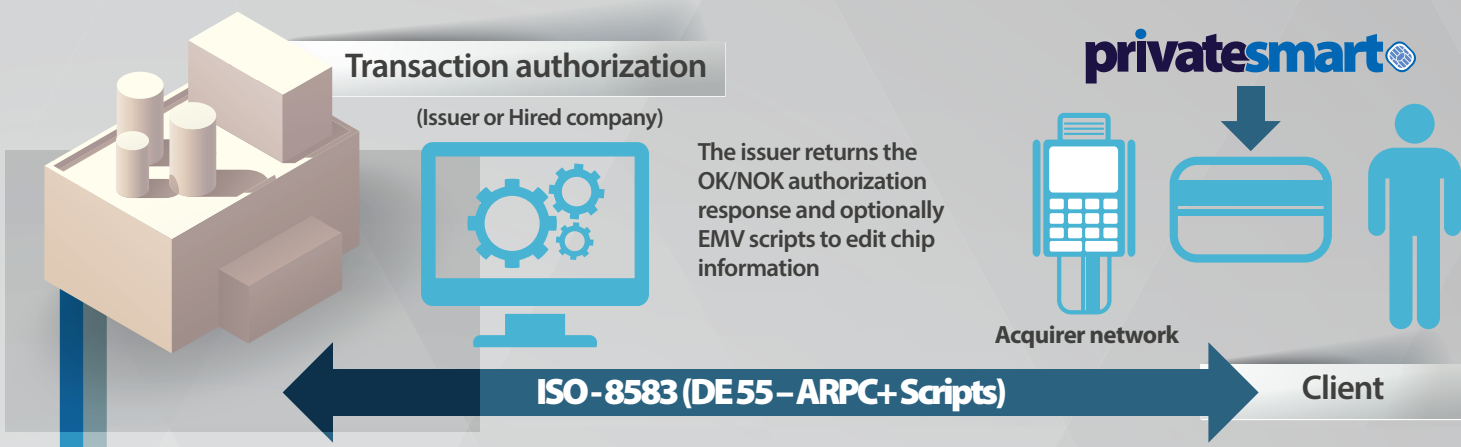
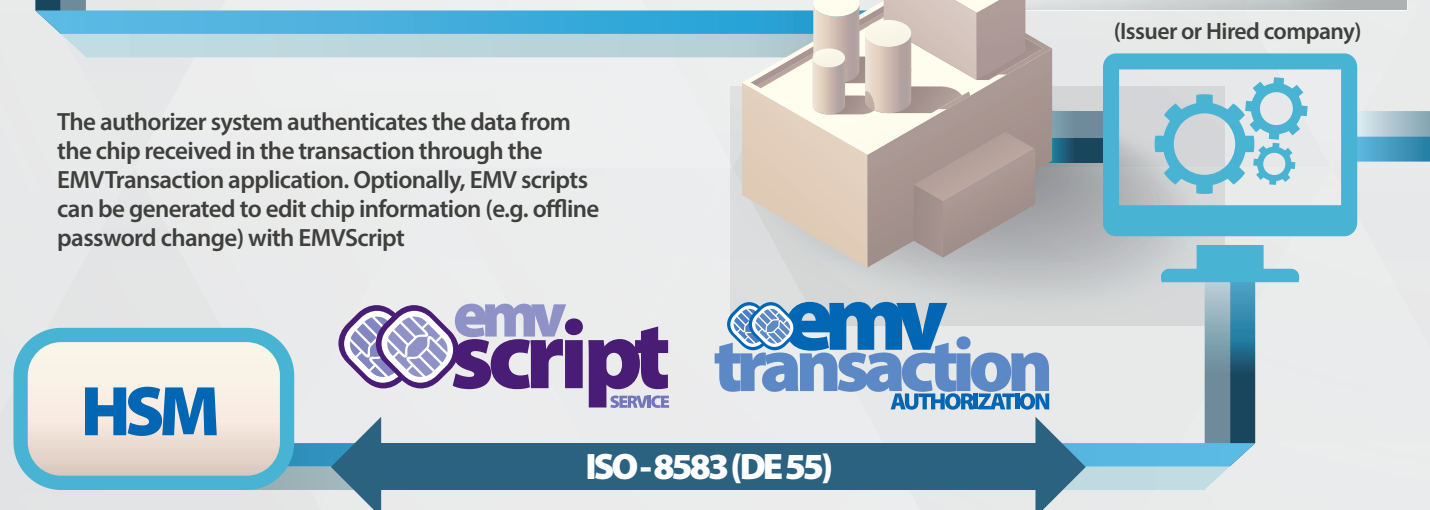
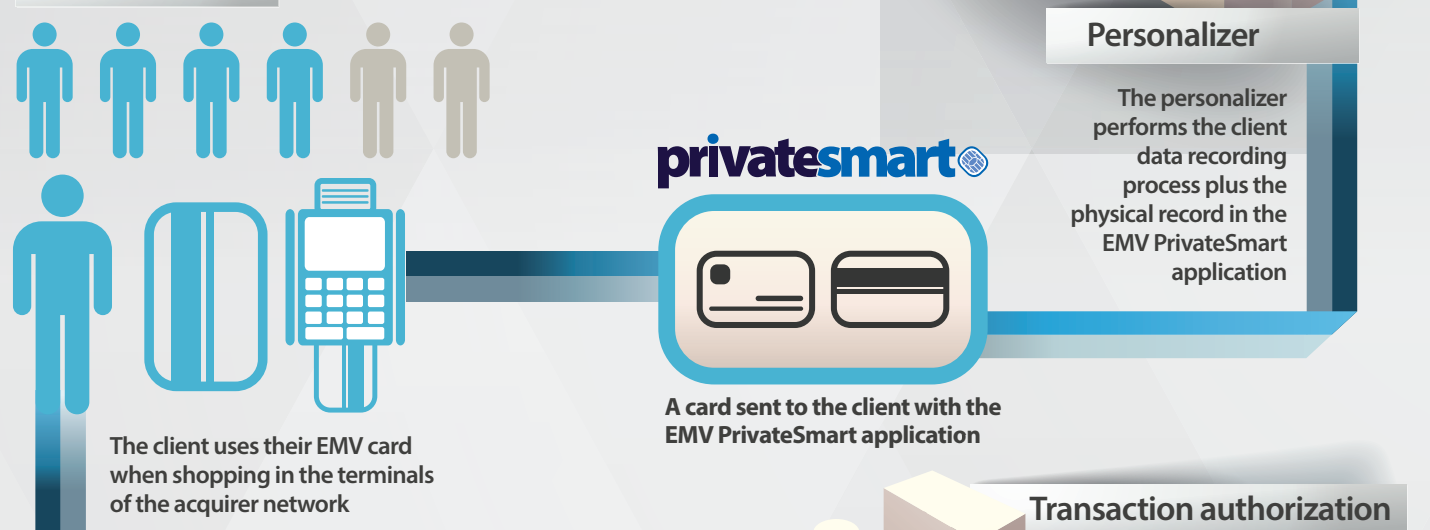
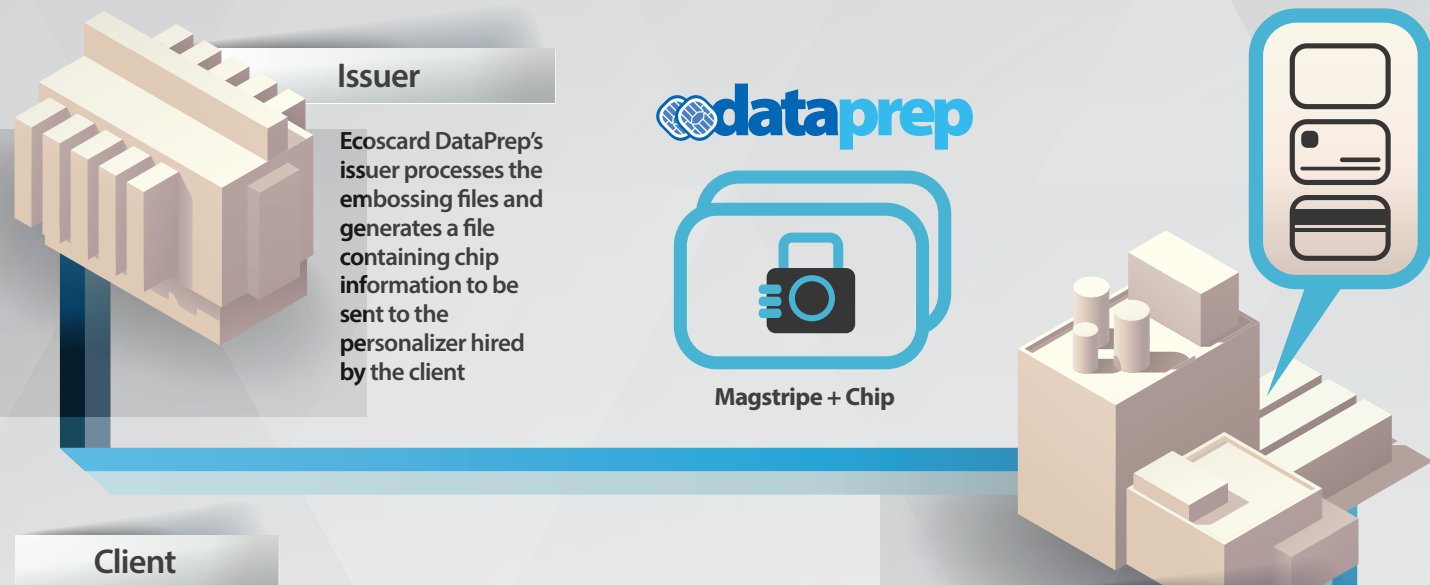


improving the process of testing a card, reduces costs and development time of an EMV application

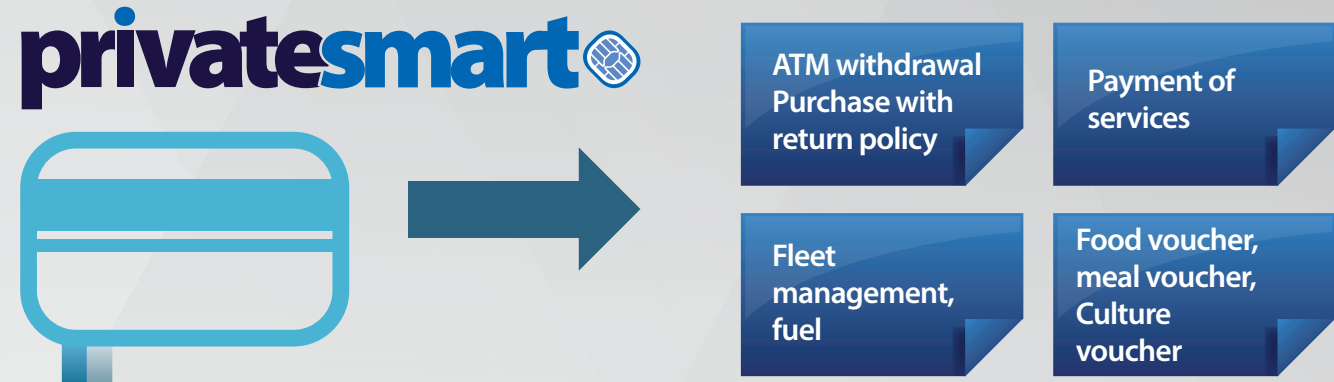


IMPLEMENTATION PROCESS

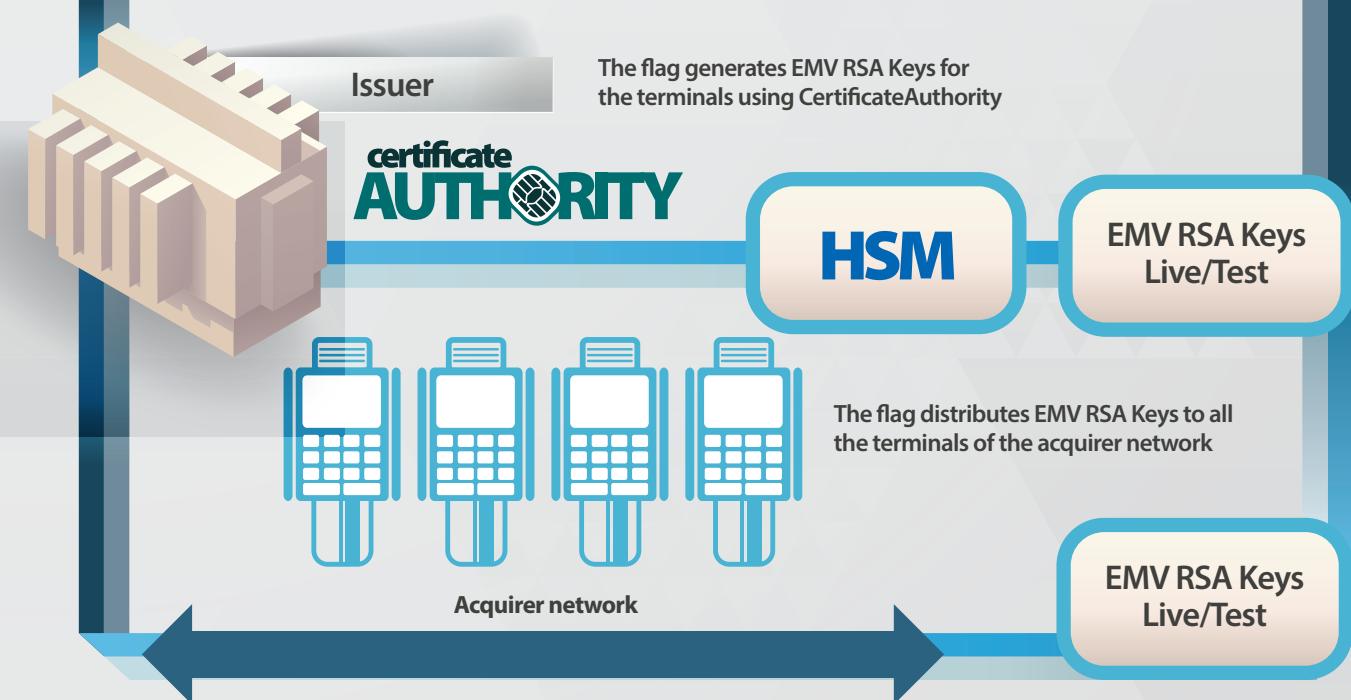
EMVCard personalization



USAGE SCENARIO - APPLICATION



EMV CERTIFYING AUTHORITY

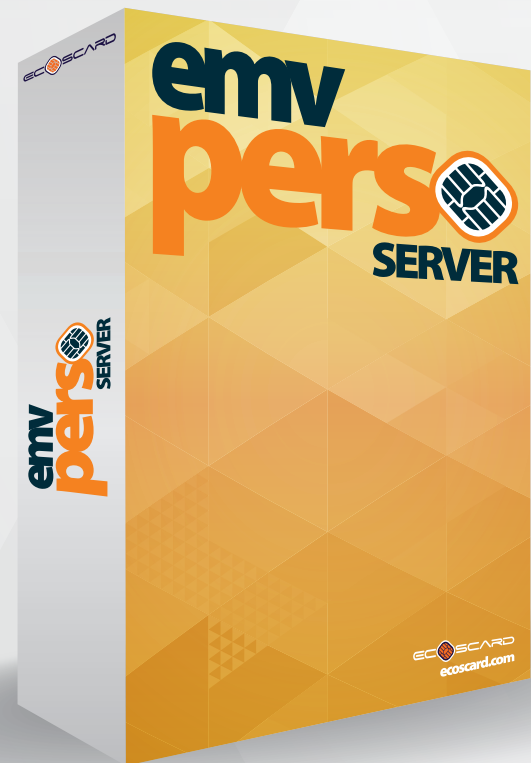




emv pers SERVER

ALU Multos Confidential personalization for on demand Instant Issuing process

Ecoscard has created the EMVPersoServer, a solution for personalization of the ALU Multos Confidential for on demand immediate process issuance. The product supports generation of personalized ALU for Multos Step/One chips specifications (MasterCard, Visa, Discover and ELO).



▶ Features

- Generation of ALU Confidential
- Generation of ALC load certification
- Generation of ADC removal certification

▶ Specifications

- VISA
- MasterCard
- ELO
- PrivateSmart (CCD)

Ecoscard has created the EMVTransaction Authorization, a comprehensive low impact and low risk solution for the processing of EMV authorizations. The EMVTransaction Authorization performs the specific process of EMV Full-Grade features.



▶ Features

- ARQC verification
- Generation of ARPC

▶ Specifications

- VISA VSDC 1.3.2 -1.4.0,
- Mastercard M/Chip 2 – 4
- EMV CCD standard

emv transaction AUTHORIZATION

Improving risk management through advanced EMV authorization processes



Improving risk management through advanced EMV scripts

The EMV scripts service allows issuers to react to changes on the behavior of individual clients and credit claim, changing the EMV application mode for cell phone or smart card. This occurs through the generation of dynamic scripts to configure the EMV parameters, sending the scripts via their authorization system. An efficient risk generation, allowing you to enjoy the low cost of offline authorization associated to an acceptable risk rate.

► Features

- Unblock PIN
- Change PIN
- Application Block
- Application Unblock
- Put Data
- Update Record

► Specifications

- VISA VSDC 1.3.2 -1.4.0,
- Mastercard M/Chip 2 - 4
- EMV CCD standard



certificate AUTHORITY

Fast and simple EMV certificate management

Ecoscard has created the EMVCertificateAuthority, an easy low cost solution for the management of EMV certificates. The EMVCertificateAuthority is a solution containing all the features for the management of EMV certificates, including

Generation and HMS storage of the certifier authority's public/private pair of keys

Generation of files for the distribution of the Certificate Authority's public keys to the issuers associated with the flag

Validation of the issuer's public key certificate



► Features

- Support for public/private keys generation with the following sizes defined in the EMV standards: 1152 bits / 1408 bits / 1984 bits
- Support for public keys generation with exponent 03 or 65537.
- Support for double factor authentication (password and token) for security officers profiles.

► Specifications

- VISA
- MasterCard
- ELO
- Private Label (CCD)

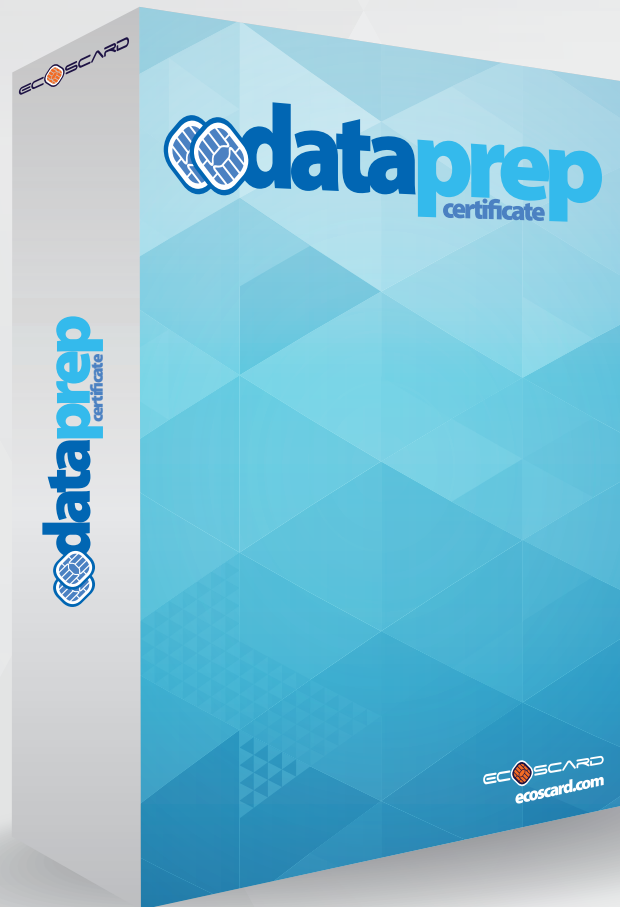


dataprep

Fast, simple and safe EMV data preparation and ALU Multos personalization.

Ecoscard DataPrep is a system for EMV data preparation that offers data formatting and keys management while maintaining flexibility to meet any card issuer environment (e.g. magnetic stripe, multi-applications chip, immediate issuance, NFC).

Ecoscard DataPrep can also be implemented by bureau, data processors and card issuers.

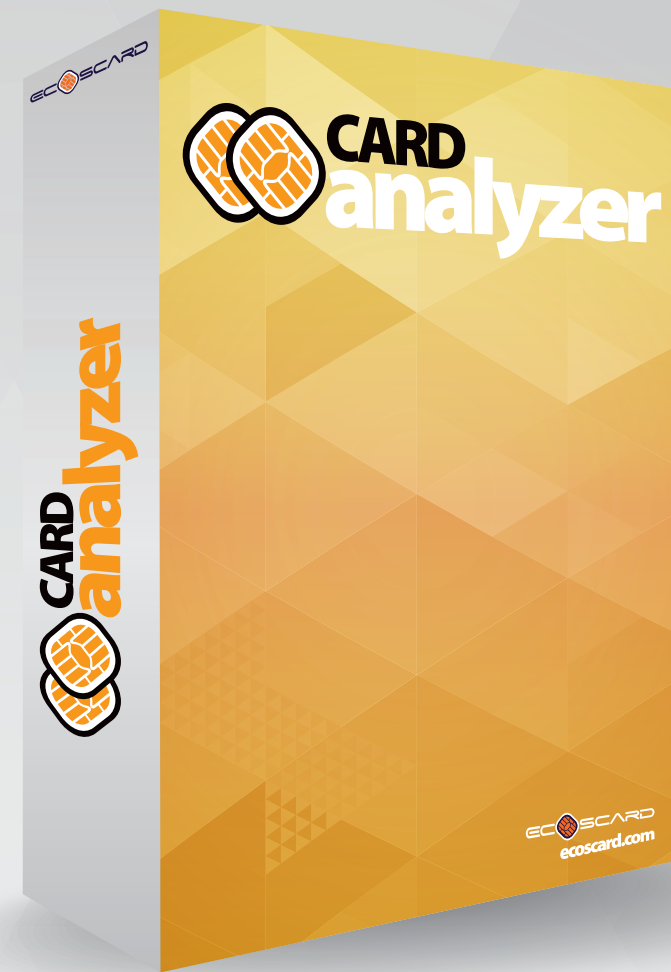


Features

- EMV CPS format defined by the Visa, MasterCard and ELO flags
- Management of EMV Visa, MasterCard and ELO certificates and keys
- Generation of EMV PKI signatures
- HSM interface
- Support for the generation of S.D.A and D.D.A certificates defined in EMV
- Support for the generation of personalized ALU for Multos chips
- Support for the PayPass application
- Support for the PayWave application
- Support for the Elo application – Contactless

Specifications

- Multos ALU Personalization
- VISA VSDC 1.3.2 -1.4.0,
- Mastercard M/Chip 2 - 4
- Discover D-PAS
- EMV CCD
- ELO



Functionalities

- EMV Transaction Simulator
- PIN Verify
- PIN Change
- PIN Unblock
- Application Block
- Application Unblock
- Put Data
- Get Pin Try Counter, and more...

Specifications

- VISA VSDC 1.3.2 -1.4.0,
- Mastercard M/Chip 2 - 4
- EMV CCD standard

CARD analyzer

improving the process of testing a card, reduces costs and development time of an EMV application

EMVCard Analyser is designed to allow you to test that card payment applications comply to Private/Smart Debit Credit Requirements. With this tool you can simulate a transaction, read EMV TAGS, ATC, pin management, validate cryptograms, emv scripting. It also incorporates a dictionary of tags to facilitate learning EMV.

