Introduction

For more than 40 years, Cosmocolor has been offering photographic and identification solutions in Mexico and Central America area, including turn-key solutions to issue Passports, driving licenses, firearm permits, visas and national ID cards.

In its search for security and technological innovation, Cosmocolor was the first company in Mexico to include biometrics in the issuing process to ensure the identity of people (1998), first with fingerprints, and later, with iris (2010). Also, Cosmocolor was able to offer the first smartcard-based driving license in the Central America area back in 2004, adding a security measure, which up to today, has been able to prevent forgery and fraud.

Cosmocolor's driving licenses are listed in the I.D. Checking Guide book as some of the most secure documents issued worldwide.

Currently, Cosmocolor validates the identity of more than 3,000,000 citizens and issues nearly 2,500,000 secure documents yearly.

The need

Proven to be one of the hardest security measures to counterfeit, smartcards were identified by Cosmocolor as the next step in security that was to be offered to DMV's and Government entities to securely issue their ID's.

Cosmocolor was looking for a smartcard with the highest level of security which could support decentralized issuance and personalization in more than 100 offices among the country, and the possibility to include applications from different actors (government, insurance companies, etc.) without compromising the data's integrity and confidentiality.

Also, Cosmocolor needed a product which could be flexible enough to be supported by different actors within the supply chain, including:

- Silicon providers
- Card manufacturers
- Application providers

Our Product

For the last 5 years, Cosmocolor has being issuing Driving Licenses in the Mexican states of Chiapas and Tabasco based on MULTOS' Step/One 8K chip, using two different Silicon providers and 2 different card embedders.

The use of the MULTOS Solution has been able to:

- Keep an uninterrupted supply chain, by seamlessly interchanging silicon providers with different card manufacturers.
- Provide a secure decentralized personalization
- Provide a secure card lifecycle management, by allowing

the upgrade of the smartcard applications in the field.

- Offer our clients an open, interoperable platform, instead of closed, proprietary products.

Cosmocolor smartcard driving licenses securely store cardholder's:

- Name, blood type.
- Face picture
- Document data such as License type, issue and expiry date.

Also, it is able to store traffic tickets, including:

- Car ID
- Place where the traffic ticket was issued
- Police Officer's ID number
- Description of the ticket
- Fine

Cosmocolor's smartcard based driving licenses solutions include:
- Secure issuance on DMV decentralized DMV offices.
- Secure renewal on offices or in self-attended kiosks.
- In-field issuance of traffic tickets through PDA's

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