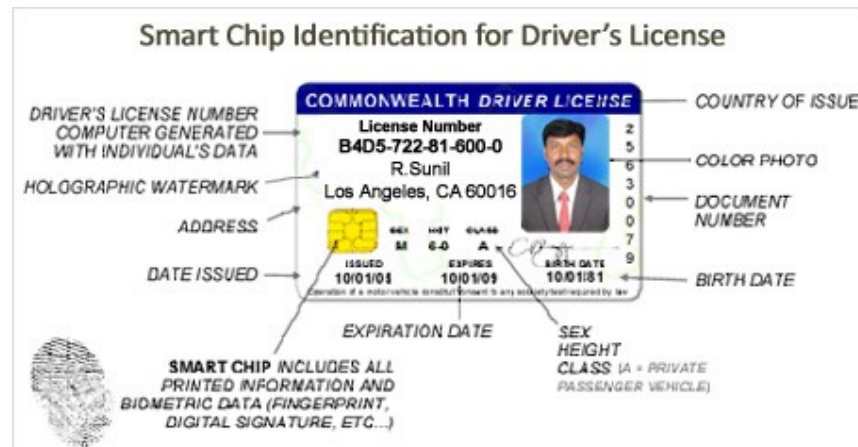


Smart Chip Identification - Government Department

Smart cards can be used for identification, authentication, and data storage. A Smart Identification Card contains government confirmed identity and complete with biometric information that would help verify the identity of card holders and prevent multiple and fake Identification Cards from being issued. Such Smart Identification Cards can store personal data that would be used in real emergencies such as medical information etc. They can provide a means of effecting business transactions in a flexible, secure, standard way with minimal human intervention including strong authentication for single sign-on or enterprise single sign-on to computers, laptops, data with encryption, enterprise resource planning platforms.

Solution



Enhanced Security Features

- Name and Address
- Date of birth, height and gender
- Photograph in color
- Biometric fingerprint stored on memory chip
- Signature
- Unique computer generated driver's license number
- Unique Driver's license document number
- License Class (private passenger, commercial, motorcycle, etc...)
- Special lamination with holograms and other tamper evident features

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- All data including biometric fingerprints, photograph and signature stored on driver's license database created for issuing authority
- Information stored in the memory chip cannot be changed after issue of driver's license
- Licenses issued by any office will be immediately synced with other offices. This guarantees that the same person will never be issued multiple license under different names due to biometric recognition even in another state
- License can be tied to national identification card so that the visiting foreign nationals can get driver's license without the national benefits.
- Violation and other details is stored in the backend application, as loss or destruction of license will result in loss of prior violation information



- Digital photo taken
- Fingerprint scans taken for all fingers
- Digital signature captured
- Information verified
- Identification record created and approved by authorized personnel
- Data is synced with other offices
- Card printed
- License issued after final verification

On The Spot Moving and Parking Violation

- Officer inserts the license in the handheld device
- Device verifies the validity and identity of the card and alerts the officer for fake cards
- Handheld contacts the central server via GPRS using secure connection and records the violation
- The driver can pay fine on the spot or get court date
- If driver pays on the spot, the receipt is printed and the violation is recorded on the central server

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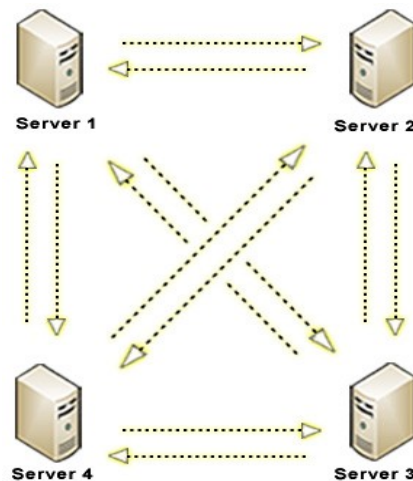
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- If driver requests a court date, a date is issued from the central server and violation is recorded and citation is printed on the spot
- If fine is paid at a later date, the central server records the payment
- Officers can verify if prior violations are present for the driver

Backend Security



- Fingerprint storage and fingerprint verification performed on smart card
- Storage for up to multiple fingerprint templates
- Security: Optional Three - Factor Authentication like Token, PIN and Fingerprint
- Security: Biometric credentials securely stored on smart card. Not susceptible to service outages and Man-in-the-middle attacks
- Convenience: Roaming - User can use fingerprints and certificates stored on the card to authenticate on any computer
- Privacy: Match performed on the card: Biometric credentials never leave the smart card
- Non Repudiation: User cannot deny operating the application or the transaction
- Compliancy: Certain countries have regulations preventing storage of biometric data in central repositories
- Technology: Maturity, accuracy and performance
- Communication is on SSL given only via GPRS
- Prevents abuse by violations added by authorized personal only

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