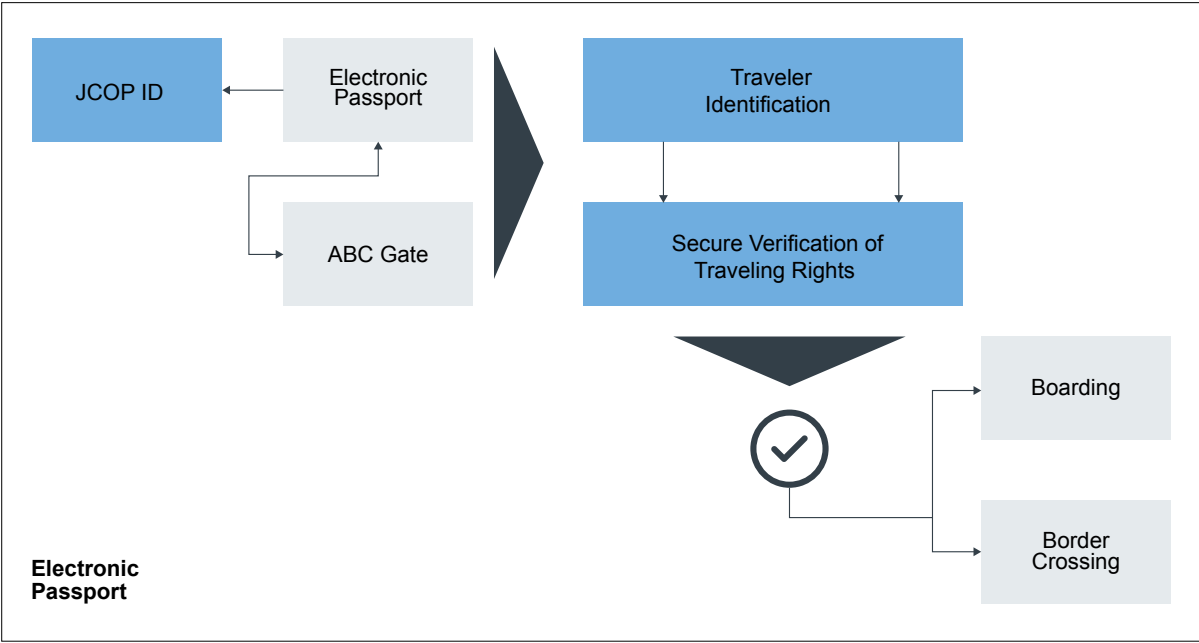# Electronic Identification

Last Updated: Feb 26, 2025

NXP's electronic identification solutions cover a wide range of applications, including electronic passports, electronic IDs, electronic driver licenses, and electronic health cards.

These solutions are designed to boost security, privacy, and efficiency as they are equipped with advanced cryptographic techniques, secure microcontrollers and biometric authentication capabilities.

Electronic documents with NXP's JCOP ID products ensure the integrity and authenticity of electronic identity documents while providing a reliable means of identity verification.

This helps enhance border security and streamline international travel, enables secure access to government and financial services, as well as secure healthcare management and the protection of sensitive information.

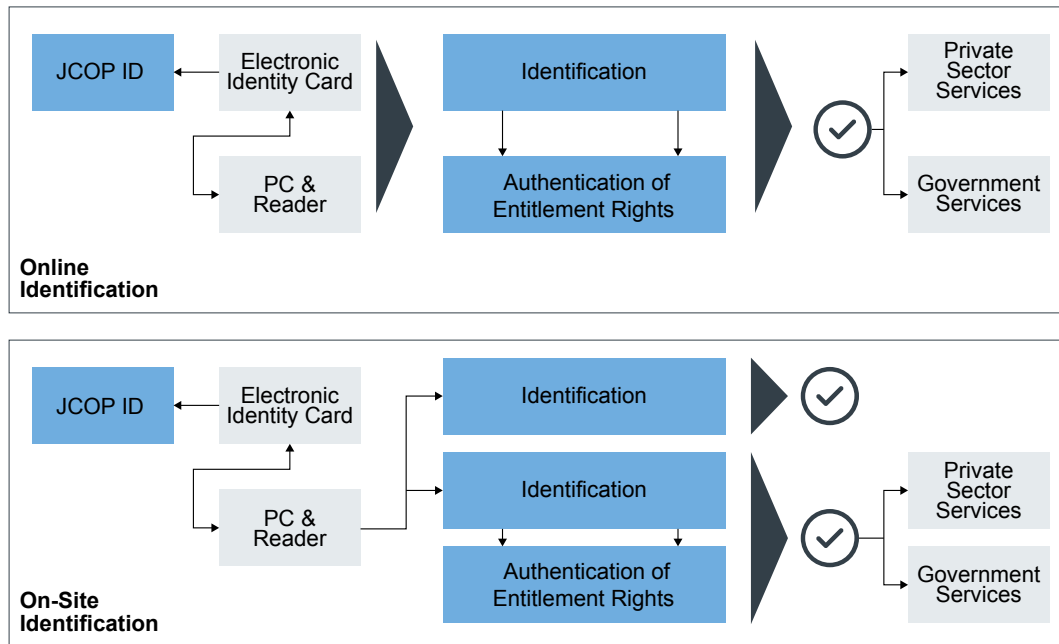**Electronic Passport Block Diagram**

Electronic Passport

■ NX Technology ▢ Non NX Technology ⬚ Optional Technology

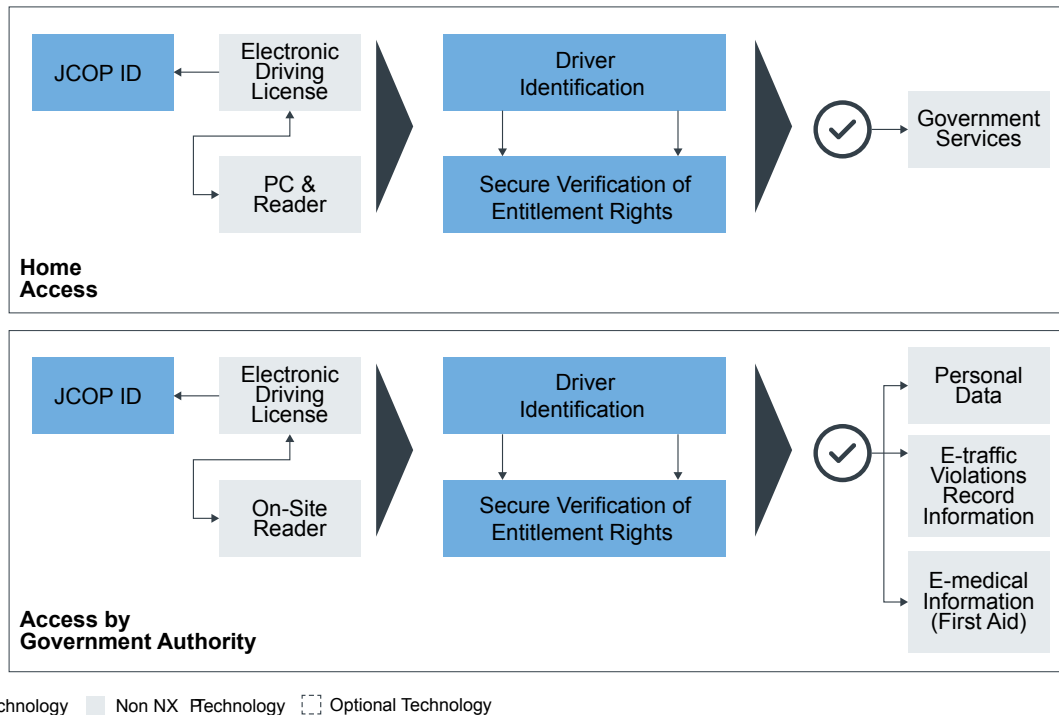| Recommended Products for Electronic Passport	
JCOP ID	• JCOP-ID-1: JCOP® ID 1 • JCOP-ID-2: JCOP® ID 2 Secure eID Solutions • SMARTMX3-P71D321: SmartMX3 P71D321: Secure and Flexible Microcontroller
Identification and Security	• CLRC66303HN: CLRC663 plus Family: High-Performance NFC Frontends • PN5190: NFC Frontend supporting challenging RF environment for payment, physical access control
Identification and Security	• CLRC66303HN: CLRC663 plus Family: High-Performance NFC Frontends • PN5190: NFC Frontend supporting challenging RF environment for payment, physical access control

Electronic ID Block Diagram

Online Identification

On-Site Identification

NX Technology   Non NX Technology   Optional Technology

Recommended Products for Electronic ID	
JCOP ID	• JCOP-ID-1: JCOP® ID 1 • JCOP-ID-2: JCOP® ID 2 Secure eID Solutions • SMARTMX3-P71D321: SmartMX3 P71D321: Secure and Flexible Microcontroller
Identification and Security	• CLRC66303HN: CLRC663 plus Family: High-Performance NFC Frontends • PN5190: NFC Frontend supporting challenging RF environment for payment, physical access control
Identification and Security	• CLRC66303HN: CLRC663 plus Family: High-Performance NFC Frontends • PN5190: NFC Frontend supporting challenging RF environment for payment, physical access control

Electronic Vehicle License Block Diagram

Home Access

Access by Government Authority

NX Technology | Non NX Technology | Optional Technology

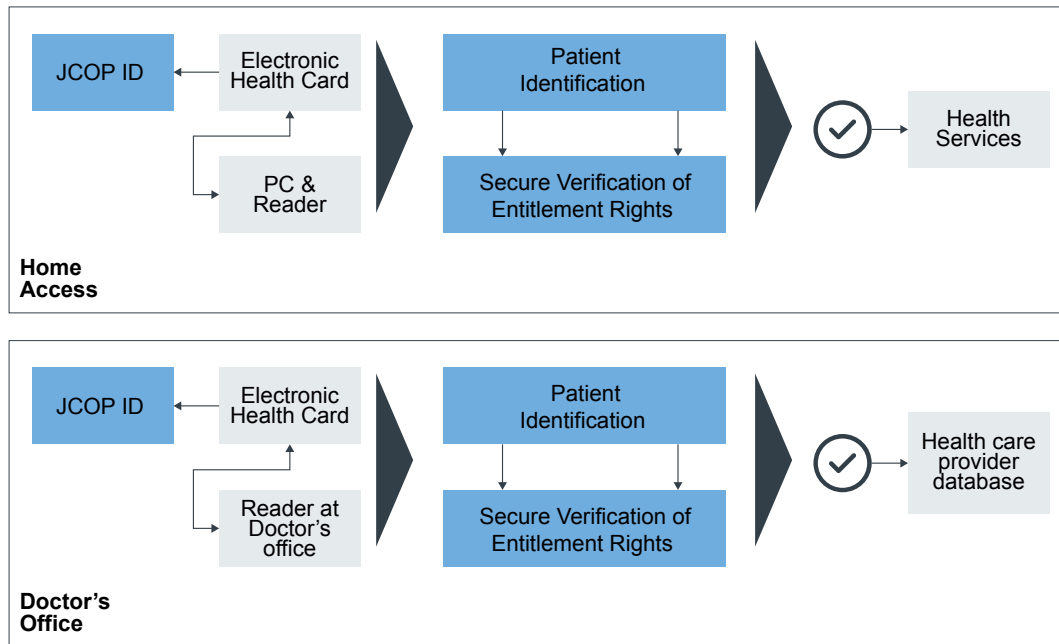| Recommended Products for Electronic Vehicle License	
JCOP ID	• JCOP-ID-1: JCOP® ID 1 • JCOP-ID-2: JCOP® ID 2 Secure eID Solutions • SMARTMX3-P71D321: SmartMX3 P71D321: Secure and Flexible Microcontroller
Identification and Security	• CLRC66303HN: CLRC663 plus Family: High-Performance NFC Frontends • PN5190: NFC Frontend supporting challenging RF environment for payment, physical access control
Identification and Security	• CLRC66303HN: CLRC663 plus Family: High-Performance NFC Frontends • PN5190: NFC Frontend supporting challenging RF environment for payment, physical access control

Electronic Health ID Block Diagram

Home Access

```
JCOP ID → Electronic Health Card
              ↑↓
           PC & Reader
```

Patient Identification → Secure Verification of Entitlement Rights → ✓ → Health Services

Doctor's Office

```
JCOP ID → Electronic Health Card
              ↑↓
          Reader at Doctor's office
```

Patient Identification → Secure Verification of Entitlement Rights → ✓ → Health care provider database

■ NX Technology   ▢ Non NX Technology   ⬚ Optional Technology

Recommended Products for Electronic Health ID	
JCOP ID	• JCOP-ID-1: JCOP® ID 1 • JCOP-ID-2: JCOP® ID 2 Secure eID Solutions • SMARTMX3-P71D321: SmartMX3 P71D321: Secure and Flexible Microcontroller
Identification and Security	• CLRC66303HN: CLRC663 plus Family: High-Performance NFC Frontends • PN5190: NFC Frontend supporting challenging RF environment for payment, physical access control
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View our complete solution for Electronic Identification.

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