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PRODUCT BRIEF

SafeNet IDPrime PIV 2.0

Personal and corporate identity verification-interoperable ID credentials for private sector, government suppliers, state and local governments

Gemalto's IDPrime PIV (Personal Identity Verification) Card is a standards-based card for private sector, state and local government organizations to issue credentials that the federal government can trust. The same card can be used for either a CIV or PIV-I based deployment depending on use requirements and infrastructure. IDPrime PIV Cards deliver high levels of security for identity management and authentication, as well as interoperability and trust with federal agencies and departments.

Uses of PIV

> Provides strong proof of cardholder identity that meets federal standards

> Digitally authenticates identity for information systems and enables physical access

> Digitally signs and encrypts eDocuments, email and files

> Works with federal government PIV-based IT infrastructures, and new and legacy physical access control systems

> Biometric fingerprint and iris delivers highest level of identity assurance

PIV Technology and Standards

PIV card technology features a dual interface microprocessor chip for use with contact and contactless smart card readers, making it easily adaptable for a wide range of use cases, including physical access. IDPrime PIV Cards are certified Federal Information Processing Standard 201 (FIPS 201) and FIPS 140-2 Level 2 validated.

PIV and the U.S. Federal Government

Most federal government employees and subcontractors have a PIV card. Driven by the issuance of Homeland Security Presidential Directive 12 (HSPD-12) in 2004, the U.S. federal government has invested significant effort and resources in implementing robust, interoperable credentialing processes and technologies. The resulting standard, FIPS 201, Personal Identity Verification (PIV) for Federal Employees and Contractors, provides a framework of the policies, processes, and technology required to establish a strong, comprehensive identity credentialing program.

PIV-I —Trusted and Interoperable

The goal of the PIV-I initiative is to widen the availability of identity cards that are able to interoperate with the federal government PIV systems and contain credentials that can be trusted by federal agencies. Organizations that issue PIV-I credentials must follow strict identity vetting guidelines including in-person proofing, two identity source documents and other requirements. This enables federal agencies and departments to trust PIVI credentials and identities. Since PIV-I leverages federal standards and established best practices, PIV-I credentials and IT access systems are interoperable with federal PIV-based systems.

Government Contractors and Critical Infrastructure Organizations

Implementing PIV-I identity credentialing and security systems helps enterprises, including those involved with the nation's critical infrastructure, to significantly upgrade the security of their information systems and networks. In addition, the fact that PIV-I credentials are trusted and interoperable with the federal government makes it much more efficient and secure for contractors to exchange information securely with their government clients. It also creates opportunities to improve business processes, such as digitally signing and encrypting contracts or specifications.

State and Local Government

State and local governments can leverage the federal PIV program by using PIV-I as the basis for their identity credentialing and information system security. Many point to the PIV standard as a way to achieve a more holistic approach to issuing identity credentials and improving their own business processes and information systems security. Many states are currently planning or implementing some form of PIV-I or CIV (Commercial Identity Verification) strategy. PIV-I credentials are being used in regional and national interoperability exercises sponsored by the Federal Emergency Management Agency (FEMA) for First Responder Access Cards (FRAC). These credentials, typically issued by state and local governments, identify emergency responders for secure access to remote networks to pilot operations and access to Federal systems.

Gemalto's SafeNet Family of Authentication Solutions

Offering flexible management platforms, the broadest range of strong authentication methodologies and form factors, and transaction verification capabilities, as well as identity federation and Single Sign-on, SafeNet solutions create a future-ready security foundation that allows organizations to adopt a modular, forward-looking identity management strategy, ensuring that their security needs are met as new threats, devices, and use cases evolve. To learn more about the complete SafeNet portfolio of authentication solutions, please visit our website at safenet.gemalto.com.

Technical Specifications

Memory	This module is based on a Java Card platform (TOP DL V2) with 128K EEPROM memory and the PIV Applet loaded on the Java Card platform
Certifications	FIPS 140-2, FIPS 201-2 and GSA APL Overall Security level: 2 > Roles, Services, and Authentication: Level 3 > Physical Security: Level 3 > EMI/EMC: Level 3 > Design Assurance: Level 3 SCP01 and SCP02 supported with scripting according to GP2.1.1 Amendment A SCP03 supported according to GP2.2 Amendment D ECC (256, 384) Asymmetric algorithms supported and FIPS certified
Cryptographic algorithms	**Hash** SHA-1 SHA-256 SHA-384, SHA-512 **Symmetric** AES (128-, 192-, 256-bit), Triple DES, double- and triple-length keys with (ECB or CBC modes) **Asymmetric** ECC (256-, 384-bit), RSA (1024-, 2048-bit) using an on-card security controller with key pair generation and true random number generator
ISO specification compliance	> ISO 7816 contact interface > ISO 14443 contactless interface compatible with NFC > ISO 7811 high coercively magnetic stripe

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