IDmachines' Services

Identity, Credentialing and Access

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# Introduction

IDmachines provides strategic and tactical consulting products and services to the identity, credentialing and access control markets.  IDmachines' subject matter expertise in the National Institute of Standards and Technology (NIST) Personal Identity Verification (PIV) program  stems partly from its leadership role in trade and standards development organizations circa 2004 addressing Homeland Security Presidential Directive 12 (HSPD-12).  IDmachines continues in a leadership or active role in the Smart Card Alliance, the Security Industry Association (SIA), the American Society for Industrial Security (ASIS), and the Kantara Initiative among others.

IDmachines was directly involved in developing and establishing the credential validation infrastructure for many United States government defense, intelligence and civilian agencies.  Physical security experience includes design, build and integration of identity and security system components of the Pentagon and United States Capitol.  IDmachines' work on multiple early projects leveraging PIV credentials has established reference architectures and best practices for industry.  An early publication co-authored by IDmachines's CEO and made available through SIA was "The Roles of Authentication, Authorization and Cryptography in Expanding Security Industry Technology".  This still describes best practice and guidance to the security industry.

Internationally, IDmachines has been involved numerous deployments of Nation ID or related population scale credential and validation programs.  Inside and outside the beltway, IDmachines services effectively initiate and then leverage Personal Identity Verification Interoperability (PIV-I) identities in commercial organizations.  IDmachines has shown how the PIV-I framework provides the highest possible level of identity assurance and a flexible technology platform capable of strong multifactor authentication using x.509 and many other standards.

Trusted identity of employees, contractors, vendors and network devices has always been a crucial part of any enterprise's security solution.  More recently identity theft, identity fraud, mobile and remote workforces and distributed enterprise facilities has placed a premium on the need for modern identity and access control solutions.  The PIV and PIV-I standards enable the use of a single multipurpose identity credential for logical and physical access.  It also provides a basis for device authentication.  Over 5 million credentials were deployed by the end of 2009 in the United States and this number is expected to more than double over the next 3 years as shown in the following chart[1].

PIV and PIV-I credentials brings numerous economic, privacy and security benefits to the table including; highest possible strength of authentication, commercial off the shelf solutions that can be integrated to meet customer needs, multiple solution sources, flexibility in solution scale from small enterprise to population scale deployments, reduced administrative costs, reduced capital expenditures, increased collaboration with vendors and partners, and enabling workforce mobility, to highlight a few.

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[1] Estimates based on http://www.fedidcard.gov/  , http://twicinformation.tsa.dhs.gov/twicinfo/index.jsp  and other sources (e.g. DoD CAC, PIV-I deployments)

To briefly review how we arrived in this situation let's quickly look over the last ten years.  The use of smart cards by the United States government began in earnest with the deployment of the Navy Smart Card around 1999.  This evolved into the Department of Defense Common Access Card (CAC) which is currently deployed to approximately 3.5 million individuals.  In August of 2004 Homeland Security Presidential Directive 12 (HSDP-12) was signed mandating a common identity vetting and issuance process and the use of a multi-purpose smart card for access to United States government facilities and networks.  Importantly this means that any PIV or PIV-I card issued to any employee or contractor can be used to permit access.  There are now over 5 million credentials that leverage this approach.
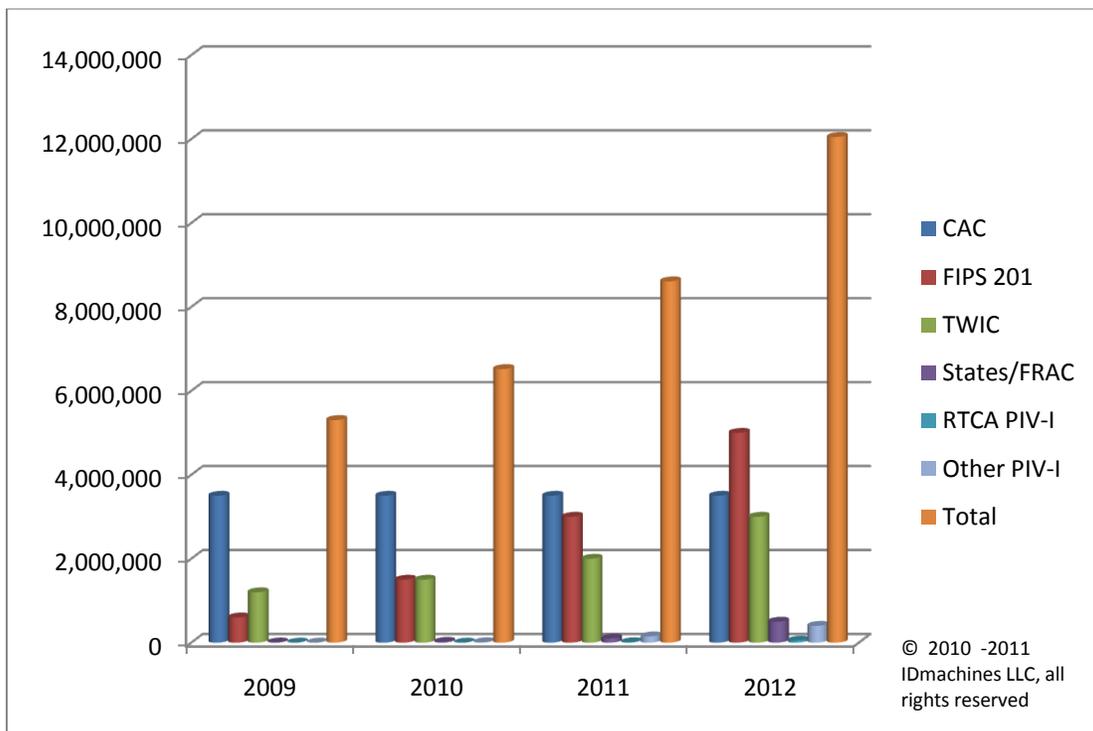
IDmachines subject matter expertise and our services are relevant to programs that include the Transportation Workers Identification Credential (TWIC), Airport Credential Interoperability Solution (ACIS) has now turned slightly toward PIV-I via the RTCA Airport Access Control Specification, slow but continued credentialing of emergency response official (ERO) and first responder authentication credential (FRAC) and by state and local governments.  The standard has been adopted by public safety agencies in the United Kingdom, by an aerospace consortium via CertiPath and the Transglobal Secure Collaboration Program (TSCP), by the pharmaceutical industry via SAFE/Bio-Pharma and so PIV and PIV-I use continues to evolve and expand.   The largest 2011 market was expected to be in credentialing of Defense Industrial Base and PIV-I credentials to Federal contractors, this still looks to be the case.  Most of this is shown in the FIPS 201 category in the above chart.

**ID**machines works with its customers to put forth a common value proposition across government, critical infrastructure and consumer identity.  **ID**machines can show any organization how to benefit from high assurance multi-purpose identity, credentialing and access control.  **ID**machines customers include end-users, solution providers and system integrators.  Examples of **ID**machines' services follow:

# Manufacturers

IDmachines provides manufacturers with strategic and sales consulting services.

### Manufacturer Strategic Services

IDmachines manufacturer strategic services include:

- Business plans
- Executive coaching
- Fundraising and investor support
- Market and competitive research
- Technology assessment and technology transfer
- Product architecture and roadmap
- Product certification

### Manufacturer Sales Services

IDmachines manufacturer sales services include:

- Sales plans
- Targeted account sales
- Channel strategy and management
- Contract vehicles

# System Integrators

IDmachines provides system integrators with strategic and sales consulting services and product solutions.

### System Integrator Strategic Services

IDmachines system integrator strategic services include:

- Business plans
- Executive coaching
- Fundraising and investor support
- Market and competitive research
- Technology assessment
- Vendor assessment
- Solution architecture

**System Integrator Sales Services**

IDmachines system integrator sales services include:

- Sales plans
- Targeted account sales
- System bid, design, build, install, operate and maintain support
- Contract vehicles and schedules
- Partner strategy
- Public relations and marketing support
- PIV and PIV-I components (e.g. credentialing, readers, mobile devices, access control and identity and public key infrastructure).

# End-users

IDmachines provides end-users with enterprise consulting services in the areas of security, access, credentialing, video, biometrics, sensing, automation and machine learning.  These include program management, acquisition, as well as security system assessments, audits and designs.

For further inquires:

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## Selected IDmachines articles, presentations and press releases since 2010

http://www.secureidnews.com/2010/01/05/the-gsa-approved-products-list-a-year-end-review

http://www.secureidnews.com/2010/01/08/aviation-security-counter-terrorism-information-sharing-and-fips-201

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http://www.digitalidnews.com/2010/08/26/the-next-step-in-realizing-hspd-12

http://www.digitalidnews.com/2010/09/08/the-key-to-piv-i-ficam-fips-201-and-trusted-identities

http://www.secureidnews.com/2010/11/02/smart-card-alliance-announces-new-officers-piv-i-workshop-at-government-conference

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http://www.securityinfowatch.com/Columns/new-id-solutions

http://www.digitalidnews.com/2011/01/06/11-identity-trends-to-watch-in-2011

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