



Identity Management as an Enterprise Asset - An HSPD-12 Case Study

About LS3

LS3 Technologies is a full services IT consulting, integration and business consultancy. LS3 brings strategic thinking, architectural vision to practical IT solutions.

Business Consulting

- Program Management
- Business Transformation
- Business Process Modernization
- IT Strategy Development

Technical Solutions

- Enterprise Architecture
- Integration Services
- Compliance
- Identity and Access Management
- Public Key Infrastructure
- HSPD-12 Services
- Smart Card

LS3 Advantage

- Extensive Experience in IT management and technology implementation
- Vendor Agnostic
- Proven Methodology
- Enterprise Architecture Aligned Vision
- GSA Certified HSPD-12 Integrator

Contract Vehicle

- SBA 8(a)
- Schedule 70



Client Situation

Our client is the second largest federal agency, having over 460,000 employees, contractors, volunteers, and affiliates.

The agency is required to be compliant with OMB regulations Presidential Directives (HSPD), the Clinger-Cohen Act, Federal Information Security Act, including National Institute of Standards and Technology requirements for PIV systems as specified in HSPD-12.

Our Relationship

LS3, a GSA certified HSPD-12 solution provider, worked very closely with the agency as a trusted advisor. LS3's in-depth experience, deep technical knowledge, proven methodologies, and objective vendor agnostic approach provided this agency with a comprehensive HSPD-12 solution that not only met all government mandates, but also set a solid foundation for its future enterprise Identity and Access Management solution.

Our Solution

LS3 innovatively developed the HSPD-12 solution by integrating over 16 different "best of breed" technologies, extending out-of-box functionalities, and customizing commercial off-the-shelf (COTS) products to fit the agency's specific needs.

Our unique approach successfully created the HSPD-12 solution with the following enterprise-wide advantages:

- **Built upon Service Oriented Architecture** - The solution was strategically architected as a set of independent components integrated with web services. Each component and its underline COTS products could be replaced independent of the other components. The architecture provided easy paths to future upgrades or replacements as technology evolves.
- **Interoperable** - The solution exposed its key functions that could be consumed by other applications and systems via web services or standard protocols, which allowed HSPD-12 solution to become a building block and solid foundation for

the agency's enterprise IAM system. This unique architecture also enables the agency to leverage this investment across current and future systems with minimal efforts.

• Integration of Best-in-class Technologies -

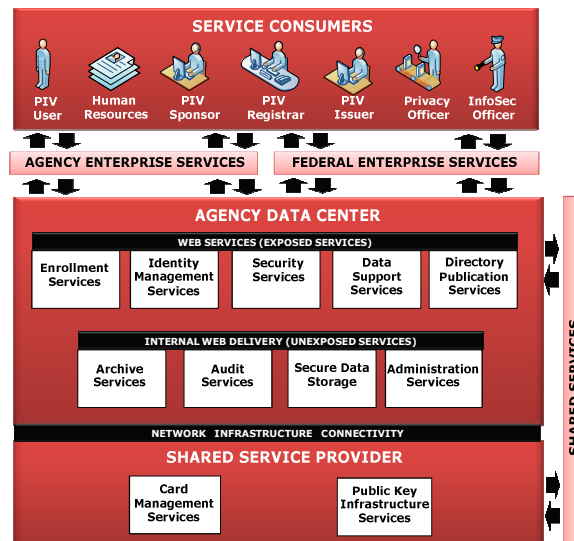
We integrated over 16 best-in-class COTS products in the solution with extensive customization and feature extension. The approach provides flexibility, extensibility, manageability, maintainability, and cost savings. Key technologies included CA IAM, ActivIdentity CMS, Imageware, Crossmatch, IBM Forms, Metastorm workflow, Maxware meta-directory, BEA, F5, nCipher, MS SQL, Cisco PIX, Veritas...

• A Complete Turnkey Solution -

The solution has been designed as a complete and self-sufficient system with built-in supporting sub-systems, including web access management to secure web interfaces and web services; firewall and intrusion detection to secure the network; backup and load balancer to ensure availability; and SSL/XML accelerator to improve performance.

Adopted Role Based Access Control -

As a critical component of the agency's security system, access to the HSPD-12 solution required tight and effective control. With clear understanding of its sensitivity, we adopted role based access control to ensure proper access and enforce separation of duty. We have defined, engineered, managed, and enforced 43 roles in 17 sub-systems of the solution.



Client Benefits

The client received a fully operational and compliant turnkey system, delivered on-time and within budget.

- The solution met all mandated schedules, milestones, and regulations;
- One of first in production HSPD-12 solutions
- Continues in production and has issued over 6,000 PIV cards.
- Benefits can be leveraged by both existing and future systems;

Serving as a key building block of enterprise IAM solution, the true value of the HSPD-12 solution continues to be realized for years to come.

LS3 Technologies, Inc.-

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