

Migrating Our PKI to a Shared Service Provider



Transformation
through Partnerships

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- Consistency with the *25-Point Implementation Plan to Reform Federal Information Technology Management* , and other Federal objectives and goals
- A cost-effective, efficient, and reliable DOE Public Key Infrastructure (PKI) cross-certified with the Federal PKI community and operates with a formal DOE governance infrastructure
- Support the federated DOE environment by meeting the business needs of Program Offices, field sites, and business partners alike
- A PKI solution that also
 - Seamlessly integrates with the DOE *ICAM Framework*
 - Allows us to communicate securely and reliably both inside and outside the DOE community

- PKI TWG: business drivers not met with current legacy PKI
 - Modern, agile, effective PKI that does not adversely impact site operations
 - Reliable service delivery – customers perceive their business needs not met
 - Cost-to-service ratio is too high
 - Lack of ICAM support (PIV, PIV-I, and smart card support)
 - Inability to effectively meet the aggressive technical and HSPD-12 needs of field sites
 - Inability to reliably and efficiently share communications (email) securely, especially with external entities (business partners and other agencies)
 - Not just with desktop email, but email on smart mobile devices and others
 - Lack of effective, reliable, high availability support
 - Lack of formal, approved PKI governance that meets Federal PKI standards and supports trust of digital certificates outside of DOE

A reliable and agile Infrastructure as a Service (IaaS) to cost effectively manage digital identities, enable the missions of DOE, and meet the business needs of DOE Federal employees, contractor personnel, and business partners

- On the basis of a Cost Benefit Analysis completed in November 2011 Entrust selected a the DOE Public-Hybrid PKI Provider
 - Contract award: March 2012
- Projected cost savings for HQ/EITS: ~\$1.5M in year 1 and ~\$1.3M in the out years
 - Example: current certificate cost is approximately >\$50, anticipated cost under Public-Hybrid model is \$3.52
- DOE M&O cost reductions are a reality, but cost-benefit analyses at M&O sites will determine how much the M&O savings will be
- Meets PKI needs for field sites and Program Offices, and supports DOE ICAM Program

- Benefits of migration:
 - Cross-certified with Federal Bridge and its community of trust
 - Provides a formal governance structure that is currently in place in the Federal government PKI community
 - Significant improvements in
 - Service delivery
 - Meeting business needs
 - Supporting the ICAM framework
- OCIO, NLCIO Council support enhanced performance of DOE Enterprise PKI
- Planned Transition: planning now, begin June 2012, complete June 2013