

NLIT 2008 Title: Entrust PKI: Data Encryption in Transit at Sandia**Abstract**

Data encryption is becoming more and more important as we rely on E-mail, mobile computing and Blackberrys to move sensitive data around the labs and the world. Sandia National Laboratories is one of 7 DOE PKI CA sites and provides Entrust services to over 6,200 users and looking to expand that to over 10,000. Sandia is currently using Entrust Desktop Solutions (EDS) 7 and planning to migrate to Entrust Security Provider (ESP) 8. This presentation will cover testing with the new ESP 8, inoperability with the old client, and migration from V1 to V2 digital IDs. Other issues that will be covered include architecture, lessons learned, Blackberry S/MIME integration, and testing. Some of the major issues with Blackberrys include directory issues with multiple CA sites and large CRL files. This presentation will review other options including OCSP and Entrust Messaging server. Finally, the talk will go over PKI integration with 2-factor and the new HSPD12 badge.

Bio**Jeremy Baca, Sandia National Laboratories**

Jeremy Baca works in the Cyber Security Technologies Department for Lockheed Martin at Sandia National Laboratories. He manages and works on various projects in the areas of encryption, 2-factor and secure desktop configurations. He has also worked on the Cyber Forensics Team and Computer Support Server Team. He has obtained his GSEC, GCIH and GGSC security certifications from the SANS Institute and is a SANS Mentor Instructor. He has also taken advanced and expert courses in computer forensics at Guidance. He has worked in a number of different server-management and security related roles at Sandia for the past 12 years.