

# *Biometric Consortium 2004 Conference*

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**Topic:** Remote Authentication and Biometrics

**Abstract:** NIST Special Publication 800-63, Electronic Authentication Guideline, provides technical guidance to Federal agencies when they must authenticate human users of E-government services. It is a companion to OMB policy guidance in this area. SP 800-63 deals primarily with conventional, widely implemented secret-based authentication protocols, and takes only modest advantage of biometrics. It seems obvious that more fully exploiting biometrics for remote authentication could potentially improve both security and convenience. However, it is much harder to do remote biometric authentication securely, where the verifier has no control over the biometric capture system, than it is to do local authentication, where the verifier controls the capture system and process. This talk will sketch out the issues NIST sees with using biometrics for remote authentication and plans for exploring how to better exploit biometric technology in this area.

**Biography:** Bill Burr is the manager of the NIST Security Technology Group, which is responsible for Federal Information Processing Standards for Cryptography, a member of the Advanced Encryption Standard (AES) team, and Chairman of the Federal Public Key Infrastructure Technical Working Group. Mr. Burr is now heavily involved in supporting the Federal E-Authentication initiative and is one of the authors of NIST Special Publication 800-63, Electronic Authentication Guideline, which provides guidance to Federal agencies implementing E-Government services through the Internet. He has done research in the measurement of computer instruction set architecture, and, since joining NIST in 1978, has worked to develop standards for computer peripheral interfaces, high speed networks and security. Mr. Burr was the Chairman of the X3T9.2 standards committee that developed the Small Computer Systems Interface (SCSI), and since 1990, when he became a member of the NIST Computer Security Division, he has worked on standards for PKI and Encryption.