SECURITY DISCUSSION

George A. White
Technical Architecture Group
FBI/CJIS Division
OVERVIEW

- Directives
- Potentials
- Relevance
- Discussion
Directives

- OMB Memorandum, Protection Of Sensitive Agency Information, June 23, 2006…

- Deputy Attorney General Memorandum; Feb. 15, 2007…
  - The Plan Must Address: Use Of Two-factor Authentication.

- FBI Response:
  - Layered Authentication Using Two Or More Authenticators To Establish The Identity Of Sender & Receiver Of Information.
Potentials

- Direct Users are Vetted via CJIS Identity and Authentication process
  - Factors based on information access requirement and home agency
- Federated Users are Asserted via Trust Relationships
  - Trust relationship parameters based on SLA
Relevance

- Device Protection
  - Authentication to Device
  - Data Encryption
- User & Device Authentication
  - Two-Factor Authentication to Agency
- Transmission Protection
  - Wireless Encryption
    - NIST SP 800-48
- Risk Mitigation
  - Security-in-Depth
Open Discussion

- Technologies
- Trends
- Economics
- ??????
Questions

George A. White
304-625-5849
gwhite3@leo.gov
Authentication Factors

- **Something You Know:** Username/Password,

- **Something You Have:** Hard Token, Soft Token, Common Access Card.

- **Something You Are:** Fingerprints, Retinal Scan, Voice Pattern.

- **Something You Do:** Dynamic Biometrics, E.G. Writing Signature, Keystroke Rhythm, Use Patterns.