# Public PIV Workshop: Update on U.S. Government Smart Card Standards Efforts

October 7, 2004

# Standardization work

- Based on NISTIR 6887 Government Smart Card Interoperability Specification v2.1
- U.S. Body - ANSI International Committee for Information Technology Standards (INCITS) B10 Committee, Identification Cards and Related Devices

  http://www.incits.org/tc_home/b10.htm
- International body - ISO Subcommittee 17, Cards and Personal Identification

  http://www.sc17.org

# ISO/IEC JTC 1/ SC 17

- Ballot on US new work item on smart card interoperability approved by NBs
- Work assigned to new task force
  - ISO/IEC JTC 1/SC 17/WG 4 Task Force 9, Chaired by US
  - Very good WG4 national body involvement
- TF9 scope
  - New suite of standards to support interoperability
  - Includes identification, signature, and authentication services
- New ICC standard: ISO WD 24727, 3 parts
- Aggressive timeline: CD candidate required by Mar ’05

# Current Situation

- GSC-ISv2.1 (NISTIR 6887 2003 Edition)
- Formal standardization
- PIV FIPS, short timeframe

# GSC-ISv2.1 Issues

- Major step forward but...
- Ambiguities allow divergent implementations
- NIST GSC Reference Implementation provides one interpretation
- Card Capability Container was a bridge to legacy cards 4 years ago

# PIV Implications

- Streamlined, clearly defined card platform
- Expand contactless/physical access module
- Pluggable data models
- Card management functions
- Complicated balancing act
  - GSC-ISv2.1
  - Existing federal deployments
  - Formal standards work (ANSI/ISO)

# Current PIV Strawman

- Simplified GSC core + card management
- Supports filesystem and VM cards
- Single ISO compliant card edge
- No Card Capability Container
- Core credential set managed by 7816-15
- Aligned with formal standards
- Starting point for discussion!

# Conclusion

- GSC must evolve
- PIV needs a card platform specification that is:
  - Clear, simple, easily implementable
  - Based on GSC
  - Standards compliant
  - Interoperable