

# Resolution Text Working Group

2<sup>nd</sup> Workshop for ANSI/NIST-ITL 1-2011  
March 1-3, 2011

# Charter

- Develop wording describing scanning and transmitting resolution in Section 5 [ANSI/NIST-ITL 1-2007]
- Check references for accuracy throughout the document on resolution
- Include an explanation of how/when PIV certified mobile devices may be used in accordance with the standard
- Investigate the elimination [reduction] of the tolerance for up to 520ppi on transmit resolution



# Membership

- Stephen Bevan (LASD)
- Mike Chaudoin (UPEK)
- **Tom Hopper (Cogent Systems)**
- Eb Krone-Schmidt (LASD)
- **Rick Lazarick (CSC)**
- **Margaret Lepley (MITRE)**
- John Libert (NIST)
- John Mayer-Splain (Noblis)
- **Mike McCabe (IDTP)**
- Chris Miles (DHS S&T)
- TJ Smith (LASD)
- Diane Stephens (DHS/US-VISIT)
- Ambika Suman (NPIA)
- Elham Tabassi (NIST)
- Arun Vemury (DHS S&T)
- **Geoff Whitaker (NPIA)**
- Brad Wing (NIST)
- Bastiaan Zetstra (KLPD)



# Definitions

- native scanning resolution
- scanning resolution
- *class resolution*
- nominal resolution [nominal transmitting resolution]
- *variance*



# Resolution accuracy requirement [Fingerprint resolution accuracy requirement]

Certification	Maximum Variance	Class Resolution	
		500	1000
Appendix F	±1%	±5ppi	±10ppi
PIV (SAP Level 10 or above)	±2%	±10ppi	Not Applicable

# Other Recommendations

- Record type descriptions
  - Type-13 Variable-resolution latent image record
  - Type-14 Variable-resolution fingerprint image record
  - Type-15 Variable-resolution palmprint image record
  - Type-19 Plantar image record
- Type-1 transaction information record
  - Field 1.011: Native scanning resolution / NSR
  - Field 1.012: Nominal transmitting resolution / NTR



# Other Recommendations

- Type-4 fingerprint image records
- Type 8 signature image record
- Type-14 variable-resolution fingerprint image record
  - Fields 14.031: Subject acquisition profile / SAP
- Normative References
  - IAFIS-DOC-01078-9.1 Criminal Justice Information Services (CJIS) Electronic Biometric Transmission Specification (EBTS) May 25, 2010 – Appendix F – CJIS Image Quality Specifications
  - Personal Identity Verification (PIV): Image Quality Specifications For Single Finger Capture Devices; <http://www.fbi.gov/hq/cjisd/iafis/piv/pivspeg.pdf>



# Questions?

John Mayer-Splain  
john.mayer-splain@noblis.org  
(703) 610-2712





noblis<sup>™</sup>  
*For the best of reasons*