### Smart Card 101 - Technology & standards





### 4/19/2010

# Background

- IBIA members are manufacturers of fixed and portable biometric/smart card reader devices used for TWIC, PIV and other applications
- IBIA members appreciate the opportunity to provide comments for consideration by NIST and DHS in planning for an on-going program of product certification
- Following is a summary of the comments raised by IBIA members

## **Modularize Testing**

- Reduce the direct and indirect cost of manufacturer participation by modularizing the testing process
- Create one certification for elements that are common between programs
  - Example: FIPS 140-2, matching algorithms, etc.
- Require program-related testing only on unique elements not previously tested

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# **Provide Reciprocity**

 Once an accredited lab has certified a common element, other labs should accept this certification without re-testing

## **Publish a Compliance Matrix**

- Publish a "matrix" of tested features that can be checked off
- Many features are optional
  - May choose to implement limited functions
  - Example: Indoor vs. outdoor operation, magnetic stripe read + contactless vs. contact only, etc.
- Helps inform the buyer and reduces procurement cost by not paying for unneeded functions/features

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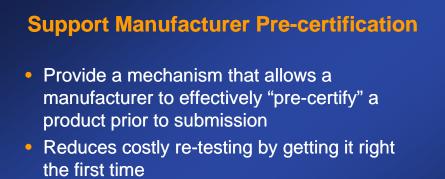
### Consider Alternatives to Human Subject Testing of Biometrics

- Human subject testing is desirable and can demonstrate that a system functions as intended
- However, it can be very expensive
- Also, small human subject sample size may not provide a statistically valid indication of biometric performance
- Technology testing can "imply" comparative performance in the field between different manufacturer s biometric algorithms
  Example: NIST MINEX
- Recognize previously completed human subject testing if performed by accredited lab



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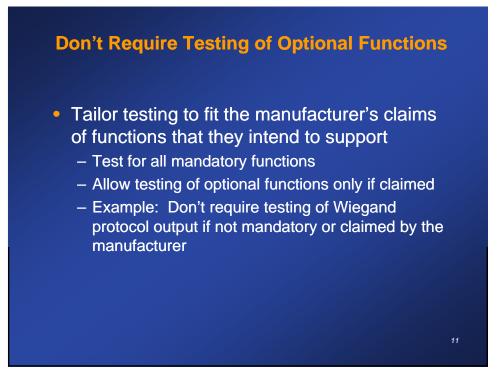


- Requires clearly defined test scripts
- Requires pre-certification tools
  - Example: "Gold" test cards that demonstrate normal behavior and stress the device by introducing errors



 Provide a redress process whereby a manufacturer is given the opportunity to correct compliance issues without requiring a complete "do-over"

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