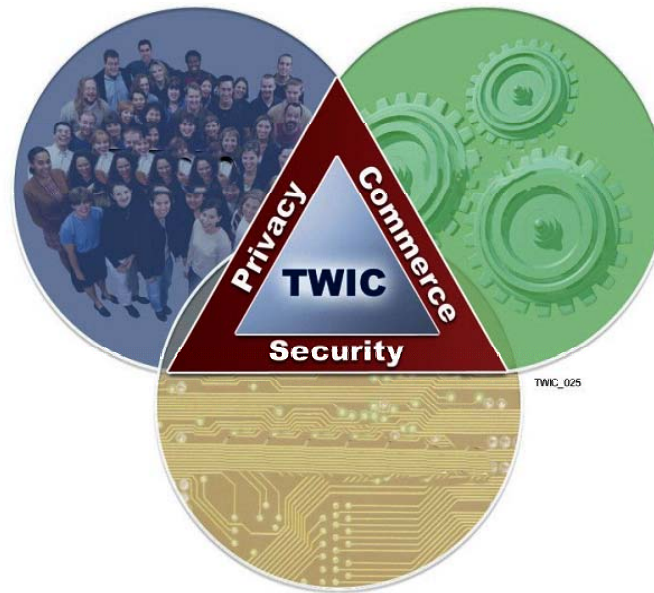


# Transportation Worker Identification Credential (TWIC)



## Adoption of Biometrics Standards



Transportation  
Security  
Administration

September 2004

# TWIC Program

## Vision

Improve security by establishing a system-wide common credential, used across all transportation modes, for all personnel requiring unescorted physical and/or logical access to secure areas of the transportation system.

## Goals

- Improve security
- Enhance commerce
- Protect personal privacy



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# Threat

**Terrorists may gain access to secure areas of the transportation system by compromising current identity management and access control systems**

## ▪ **Potential Methods Employed**

- Falsifying identity to obtain valid credential
- Obtaining valid credential without a background check
- Stealing, or otherwise obtaining, a valid credential that allows access without secondary protection (i.e., biometric)
- Tampering with, or creating a counterfeit credential
- Using a properly issued credential subsequent to being identified as a terrorist threat



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# Prototype Participants

Participants include transportation workers from maritime, rail, aviation, and ground modes of transportation.



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# Standards Drive Success

- Interoperability
- Technology stability and availability
- Security and integrity



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# Key Biometric Standards

## **ANSI/INCITS 383 – 2004**

### ***Biometric Profile - Interoperability and Data Interchange - Biometrics-Based Verification and Identification of Transportation Workers***



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# INCITS 383 Normative References

- *ANSI/INCITS 358-2002* - IT - BioAPI Specification
- *NISTIR 6529-A* - Common Biometric Exchange Formats Framework (CBEFF)
- *ANSI/INCITS 377-2004* - Finger Pattern Data Interchange Format
- *ANSI/INCITS 378-2004* - Finger Minutiae Format for Data Interchange
- *ANSI/INCITS 379-2004* - Iris Image Interchange Format
- *ANSI/INCITS 381-2004* - Finger Image Based Interchange Format
- *ANSI/INCITS 385-2004* - Face Recognition Format for Data Interchange



# INCITS 383 Cited Standards Under Development \*

- ***BSR INCITS PN 1602D*** – Biometric Performance Testing and Reporting
- ***BSR INCITS PN 1603D*** – Signature and Sign Based Format for Data Interchange
- ***BSR INCITS PN 1643D*** – Hand Geometry Format for Data Interchange



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As of Aug 04, these are in the INCITS adoption process

# Technology Integration



**Cross Match 300 USB  
Finger recognition  
Reader**



**Smith-Heimann LS2/Check Ten  
fingerprint Scanner**



**ST Micro TouchChip  
Combined fingerprint  
reader & Smart Card  
Reader**



**SAFCard & Bioscript Reader**



**Iris Reader**



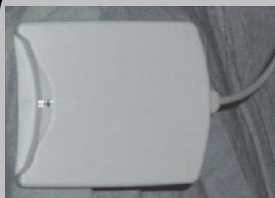
**SAFCard Reader +  
integrated SecuGen  
Reader**



**AssureTec iIdentify ID-  
300RA Document Reader  
& Authenticator**



**SAFCard and Hand  
Geometry Reader**



**Contact & Contactless  
Reader**



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# Development and adoption of biometric standards do drive success



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# For additional information...

Look at the TWIC Website at:

<http://www.tsa.dot.gov/public/display?theme=68>

*AND*

E-mail the TWIC Program at

[Credentialing@dhs.gov](mailto:Credentialing@dhs.gov)



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# Transportation Security Administration