eBusiness Innovation
DON Card Management

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"Adding Physical Security Applications to the Common Access Card"

Presented by:
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8 July 2003

Agenda

- Office Mission
- Guidance
- Framing the discussion
- The Requirements cycle
- Access control rudder orders
  - Increase security
  - Reduce manpower requirements
  - Reduce inconvenience to the member
- Common Access Card Pilots
  - Norfolk
  - Pacific Command
- What’s next

DON eBusiness Operations Office Charter

21 September 2000

21 September 2000

Charter for the Department of the Navy eBusiness Operations Office

Mission:

The Department of the Navy (DON) Electronic Business (*e*Business) Operations Office is established to serve as a catalyst for implementing and integrating DON *e*Business efforts, highlighting emerging uses of electronic business (both from within DON/government and from the private sector), and making DON processes more efficient and effective. Further, the Office will centralize operational control of several card management and selected electronic

Background:

*e*Business is the interchange and processing of in
accomplishing transactions based upon the applic
Further, an integral part of implementing *e*Busine
improvement or reengineering to streamline busi
technologies facilitating the electronic exchange
Defense (DoD) has adopted *e*Business as a means
possible bridge between today's legacy systems a
environment.

*e*Business technologies are rapidly impacting eve
has been more efficient exchange of business info
warfighter requirements. Recognizing the opport
collaboration and teamwork, the *e*Business Opera
business capabilities and facilitate their application in making Navy and Marine Corps business processes more efficient and effective.

An office is needed to centralize operational of several card and selected electronic transaction systems. These functions and systems will provide a consistent and single voice to our Navy and Marine Corps customers and ces more efficiently, and facilitate the evolution to future

ry of the Navy and Department of the Navy Chief
nent of the Navy *e*Business Operations Office is hereby
Systems Command, Mechanicsburg, PA.

headed by a flag officer designated as a
The Office is staffed by a Senior Executive Service
civil service personnel. The Office draws primarily from industry expertise to support these efforts. The Office leverages key DON stakeholder resources and academia as appropriate.

"... serve as a catalyst for implementing and integrating DON eBusiness efforts ... facilitate the evolution to future technological solutions."

"... centralize operational control of card and selected electronic transaction systems."

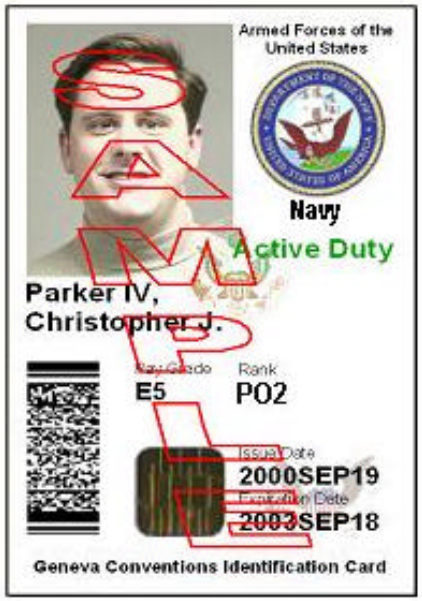
Guidance … Sez who!

DoD Directive 8190.3

Look at Section 4.5.3!

The Common Access Card (CAC):

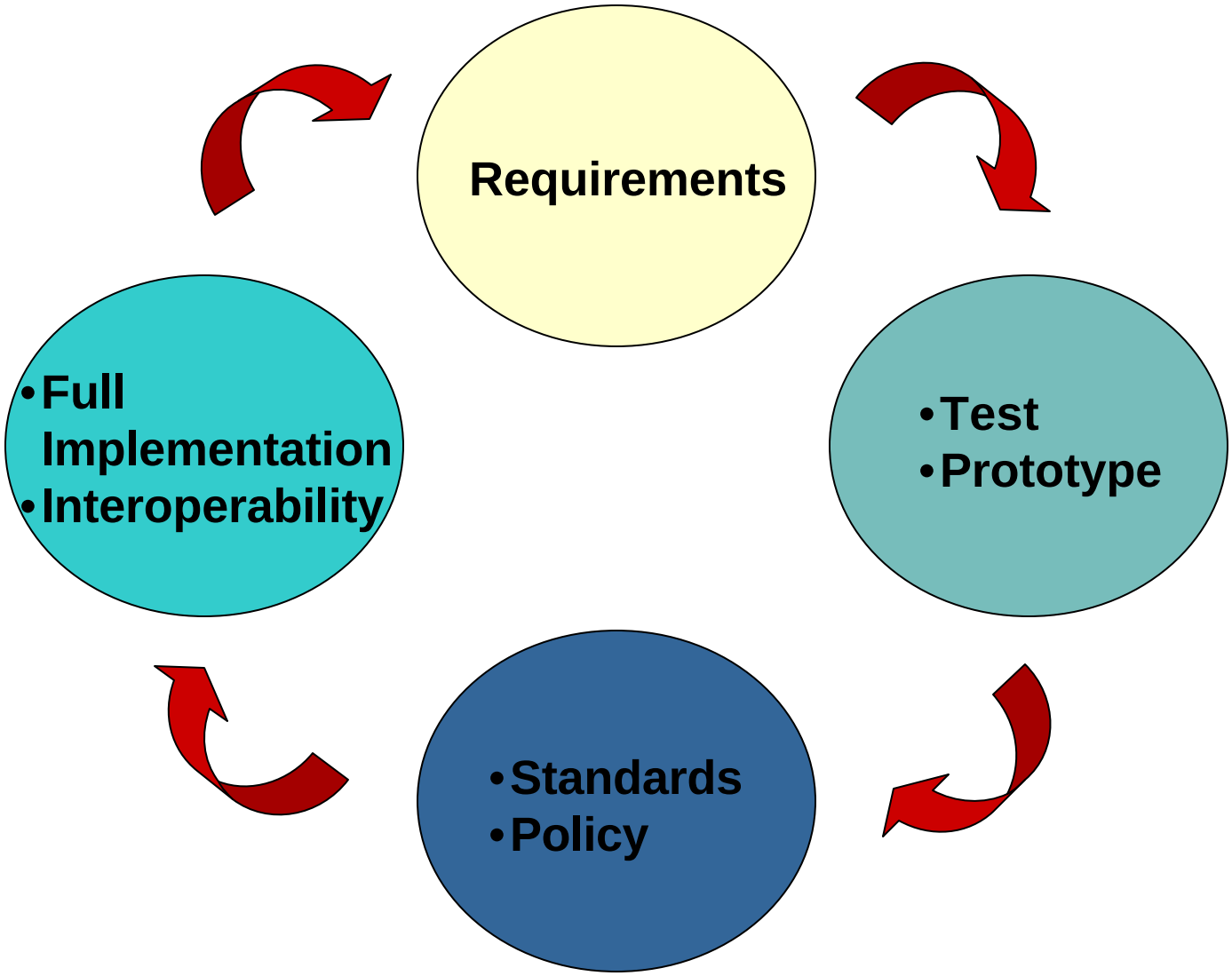
- Principal card for physical access
- Plan for complete migration!



Framing the Discussion

- eBusiness Operations Office implements pilots across the Department of the Navy (DON)
- We do not own the physical security domain
- Physical security community working towards developing comprehensive policy across the enterprise

The Requirements Cycle



Access Control Rudder Orders

- ✓ Increase Security
- ✓ Reduce manpower requirements
- ✓ Reduce inconvenience to the member

Balancing Requirements

Increase Security

- ***Unmanned*** *(building, doors, gates, brows)*: biometric validation between reader & smart card token

- ***Manned*** *(gates,brows)*: secure access to picture, personal information and access authorities from a centralized database

Eliminate the Reliance on Paper Tokens

Reduce Manpower Requirements

- Technology for eliminating the need for manned sentries

- Centralized access control monitoring

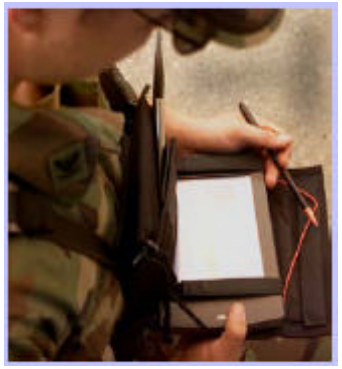
- Increased effectiveness of pass and ID staff

Streamlined Functions

Reduce Inconvenience to the Member

Passes distributed at point of entry via centralized physical security system

Quicker access when at increased Force Protection levels

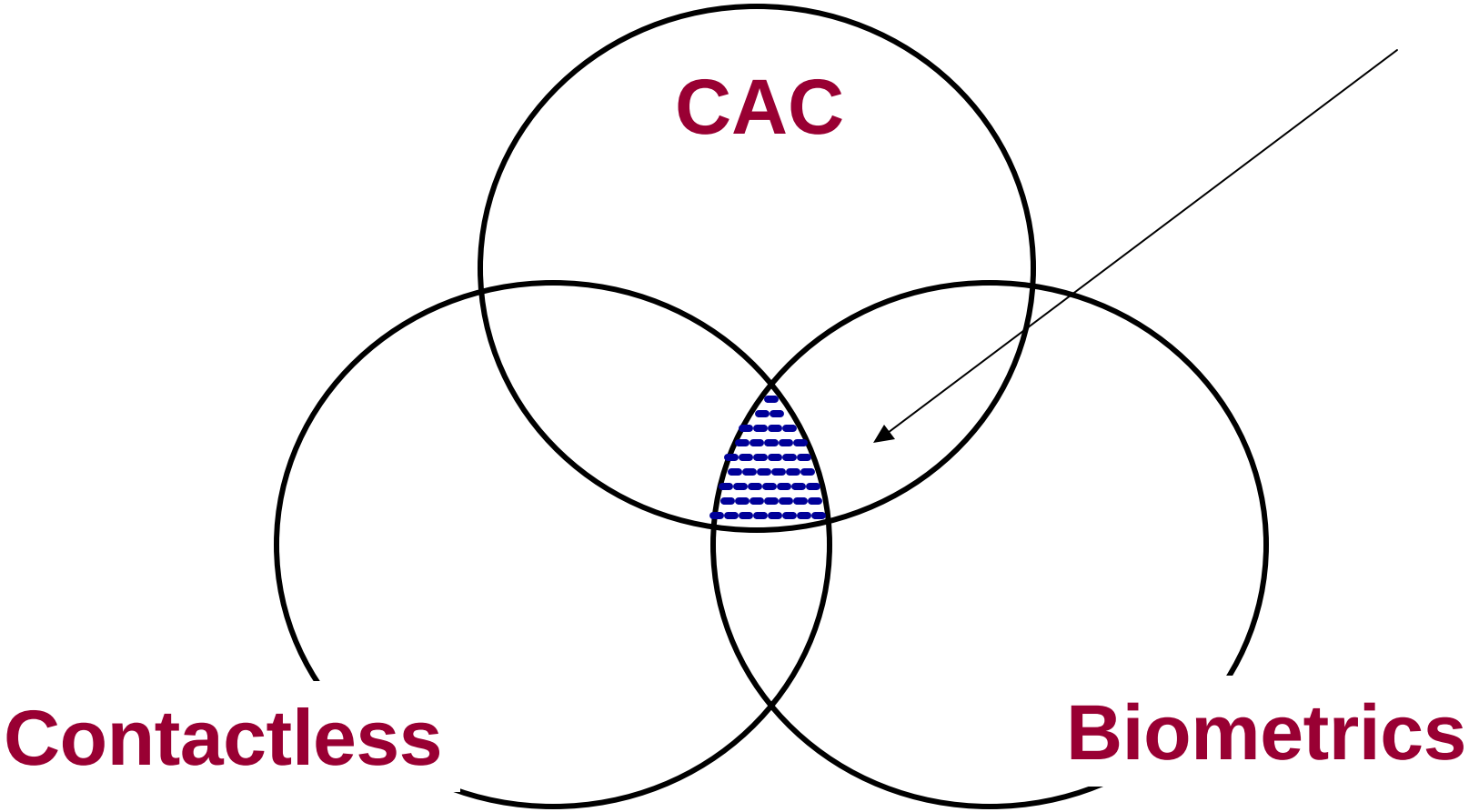


DoD Retiree and dependents stored with the system for a number years

DON eBusiness Operations Office

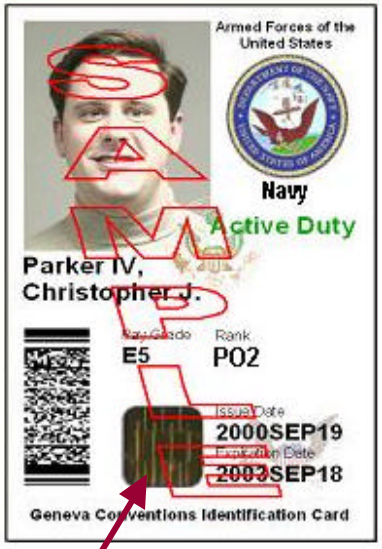
Putting theory into practice

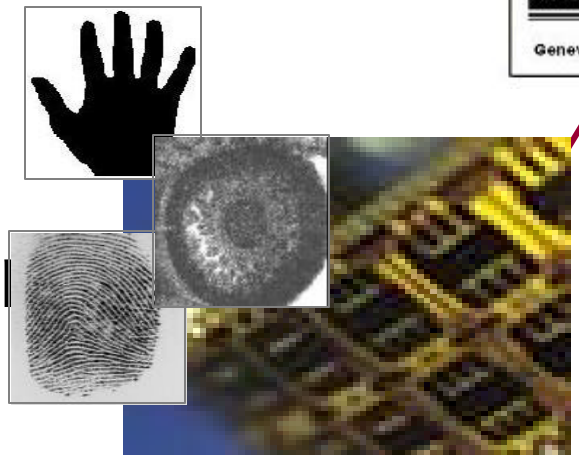
The Intersection of Technology



Next Generation CAC Physical Access Control Pilots

- Utilize contactless chip technologies
- Store biometric templates
- Interface with existing backend software
- Establish standards
- Enhance access syste

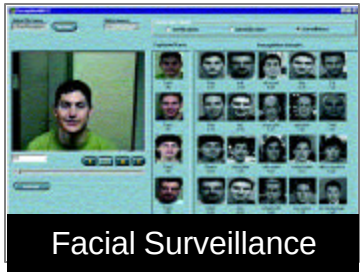




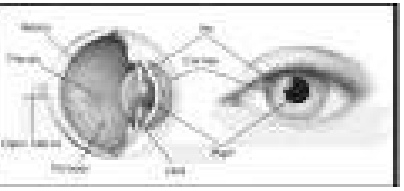
Space and Naval Warfare Center, Norfolk *completed*; Pacific Command *commenced* 14 April 03

Physical Access Security

Biometric Options


Facial Surveillance

Access Control



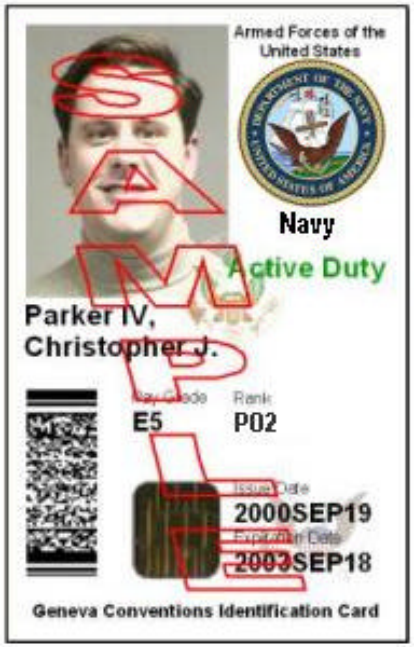
Fingerprint

Hand Geometry

Iris Scan

Facial Recognition

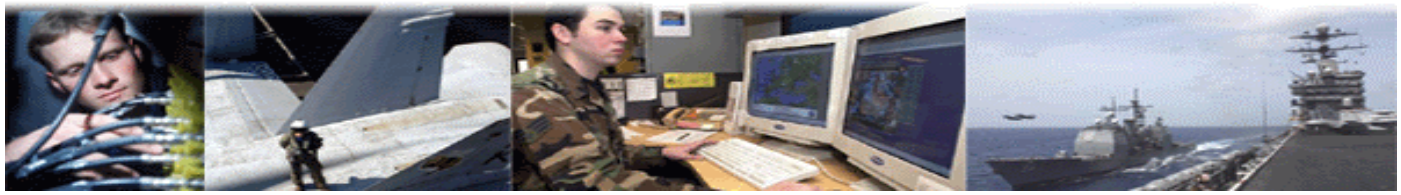
Voice Recognition



Tools in Our Toolkit

SPARWAR System Center- Norfolk

SPAWAR SYSCEN Norfolk **Readiness-Centered Solutions Now!**

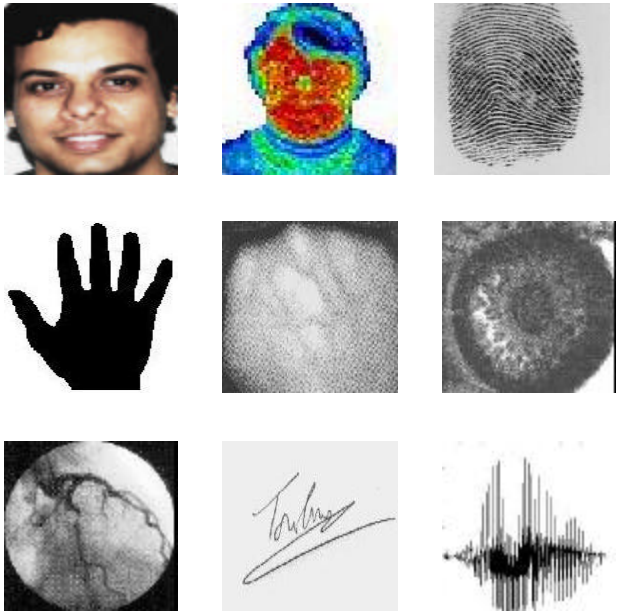


Store fingerprint as biometric template using a contactless chip

Interface with existing physical access/backend software

Provide two factor authentication for individuals attempting physical access

Pilot ran Aug – Nov 2002, still in use … Opportunity Analysis on the eBusiness website



- ✓ **Enhance secure personal ID systems**
- ✓ **Improve identity verification**

U.S. Pacific Command

- Utilization of contactless technology
- Multiple biometric hardware devices
  - Hand geometry
  - Fingerprint
- Approximately 350 personnel,15 doors
- Two templates stored on contactless card
- Integrate unique coding to eliminate need for separate command badge
- Pilot ran Apr – Jun 2003, still in use … Opportunity Analysis in development

What's next?

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- Share lessons learned from our access control pilots
- Support development of comprehensive physical security policy
- Way ahead should be requirements-based!

QUESTIONS?

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