



eBusiness Innovation DON Card Management



www.don-ebusiness.navsop.navy.mil

***“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 (eBusiness) Operations Office is established to serve as a catalyst for implementing and integrating DON eBusiness 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 transaction systems.

Background:

eBusiness is the interchange and processing of information to accomplish transactions based upon the application of electronic technologies. Further, an integral part of implementing eBusiness is the use of process improvement or reengineering to streamline business processes and the use of electronic technologies facilitating the electronic exchange of information. The Department of Defense (DoD) has adopted eBusiness as a means of providing a possible bridge between today's legacy systems and the future business environment.

eBusiness technologies are rapidly impacting every aspect of the business environment. There has been more efficient exchange of business information and improved warfighter requirements. Recognizing the opportunity for increased collaboration and teamwork, the eBusiness Operations Office will facilitate 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 control of several card and selected electronic transaction systems. Consolidating these functions and systems will provide a consistent and single voice to our Navy and Marine Corps customers and make processes more efficient, and facilitate the evolution to future technological solutions.

Secretary of the Navy and Department of the Navy Chief of Staff
The Department of the Navy eBusiness Operations Office is hereby
Systems Command, Mechanicsburg, PA.

headed by a flag officer designated as a Senior Executive Service
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."

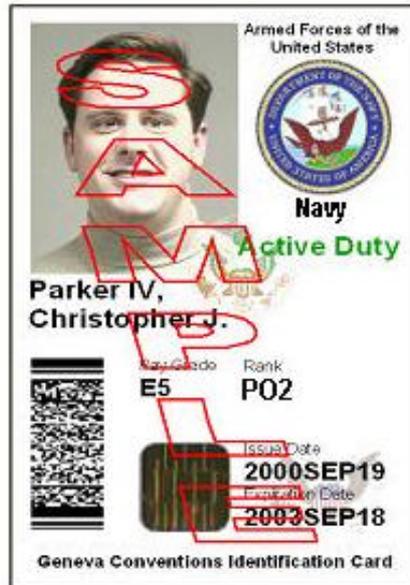
"... centralize operational control of card and selected electronic transaction systems."

Guidance ... Sez who!

DoD
Directive
8190.3

Look at Section
4.5.3!

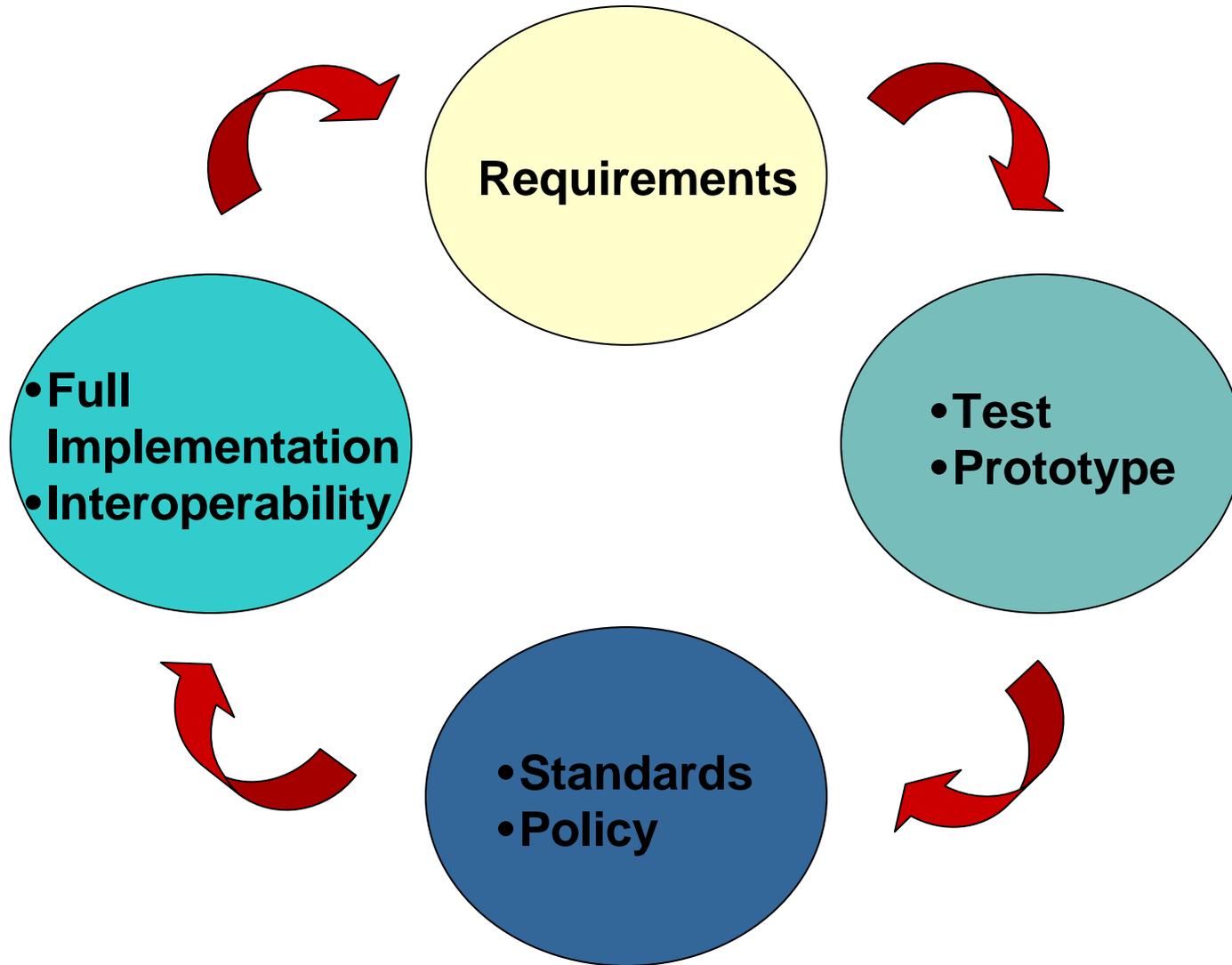
- The Common Access Card (CAC):
- Principal card for physical access
 - Plan for complete migration!



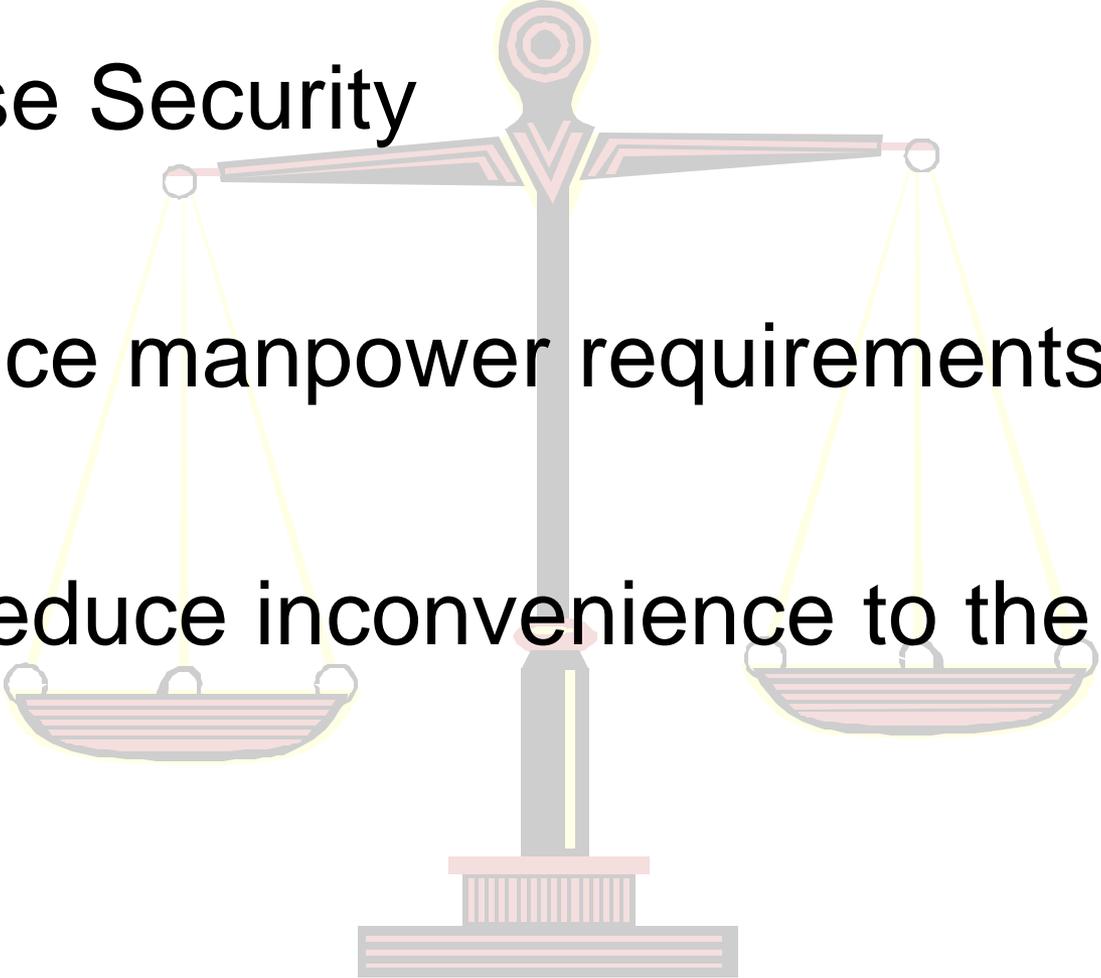
Framing the Discussion

- 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

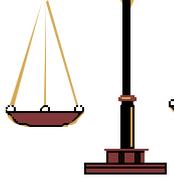


Access Control Rudder Orders

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

Balancing Requirements

Increase Security



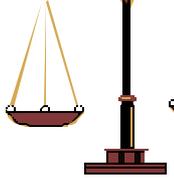
- **Unmanned** (building, doors, gates, brows): biometric validation between reader & smart card token



- **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

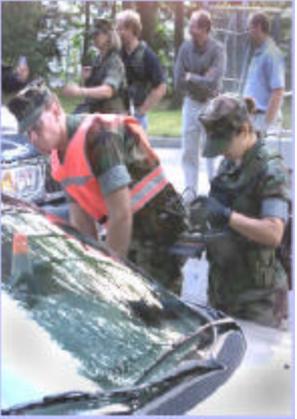
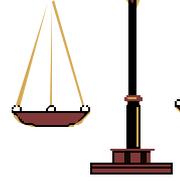


- Increased effectiveness of pass and ID staff



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



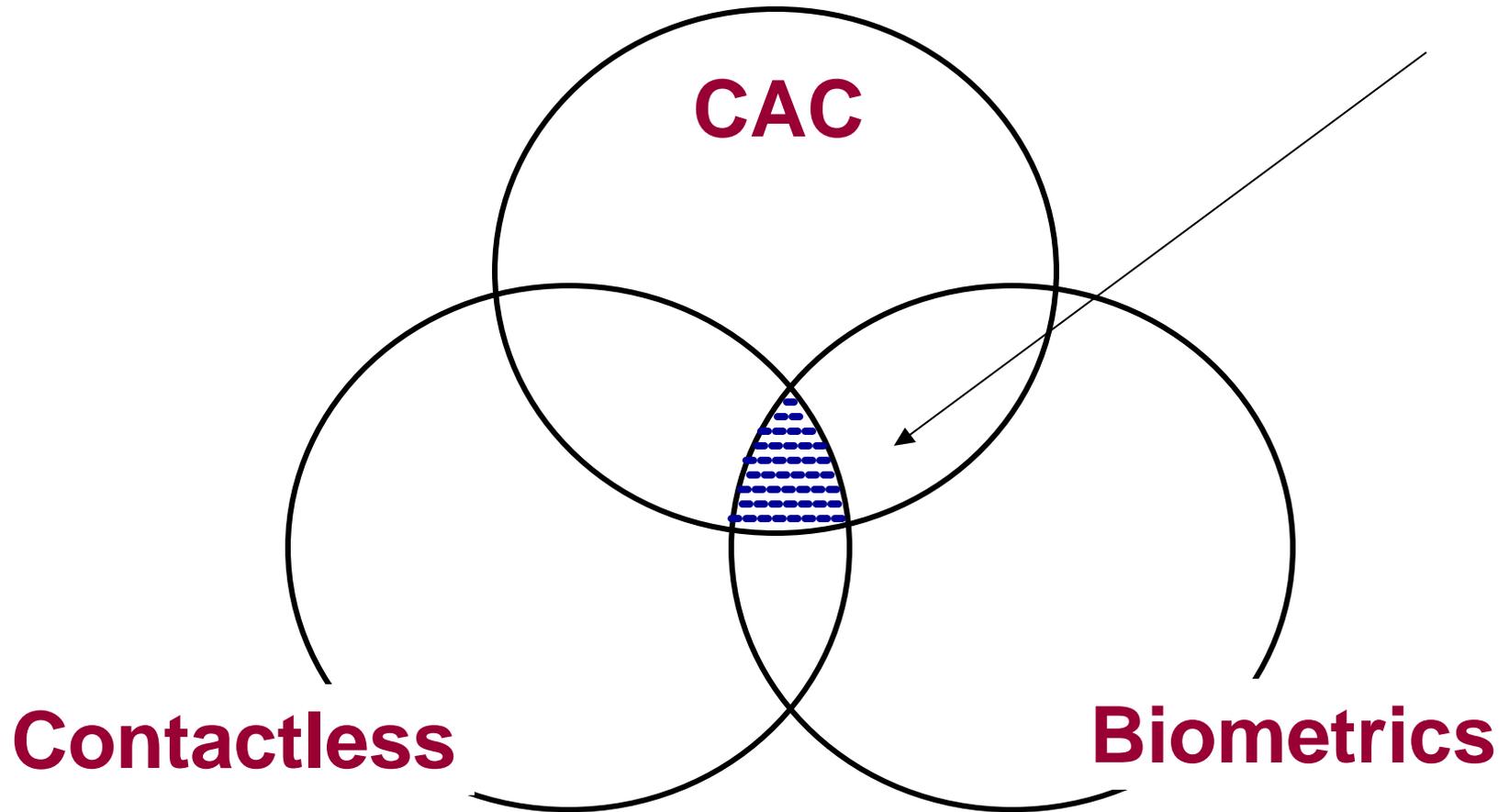
DoD Retiree and dependents stored with the system for a number years

DON eBusiness Operations Office

*Putting
theory into
practice*

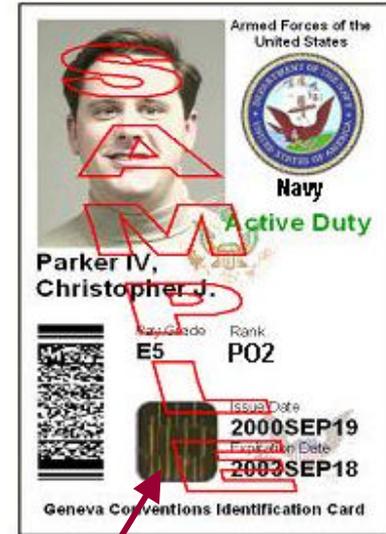
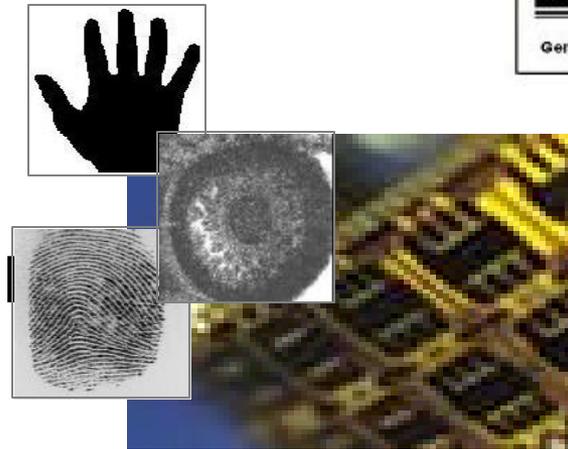


The Intersection of Technology



Next Generation CAC Physical Access Control Pilots

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



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

Physical Access Security

Biometric Options

Fingerprint

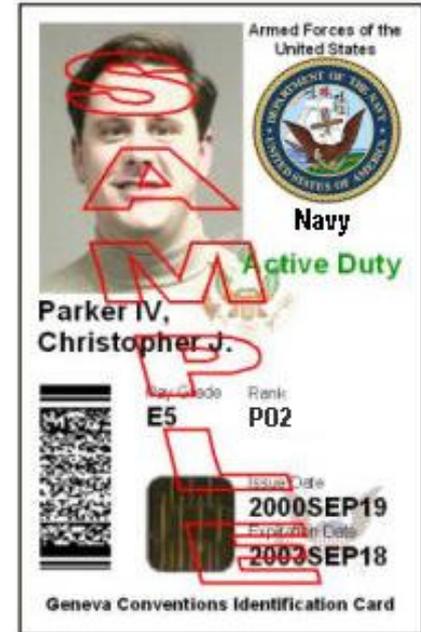
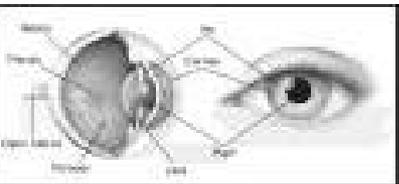
Hand Geometry

Iris Scan

Facial Recognition

Voice Recognition

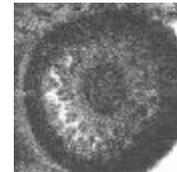
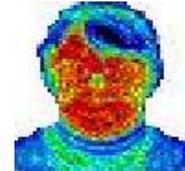
Tools in Our Toolkit



SPARWAR System Center- Norfolk



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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Department of the Navy
eBusiness Operations Office

Creating The Future Today

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

Card Management

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Purpose

...mandate includes:

- communicating the purpose, policies, and benefits of each card solution to encourage and promote permanent improvement of DON processes

QUESTIONS?

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