

Commander Navy Installations Program Resource Sponsor

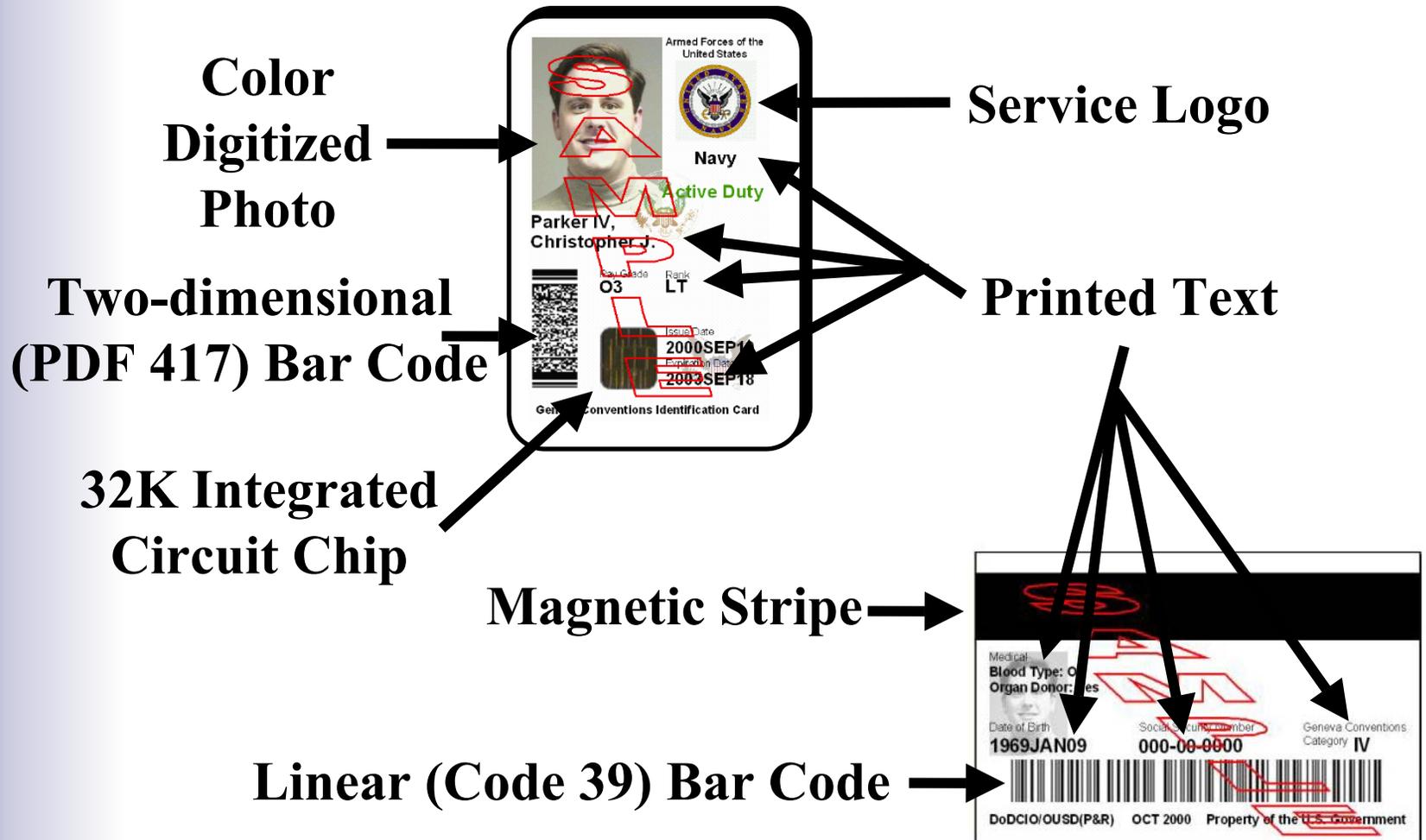


Joint Data Model and BC Applications Overview

Navy
COMMON ACCESS CARD
Program Management Office
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CAC PM



Common Access Card Technology



Joint Data Model (JDM) Overview

◆ The JDM, also referred to as the Backward Compatible (BC) container, provides the necessary data elements for the BC

Applications:

- Card Maintenance Utility
- Food Service
- Manifest Tracking
- Warrior Readiness
- Weapons Issuance

JDM Container (108 data elements)

DoD Generic Container (33 data elements)

Tab 4 contains a spreadsheet with all the data elements

- ◆ 86 Admin Data Elements include:
 - Unit Identification Code
 - Meal Entitlement Code
 - Military Occupational Specialty
 - Body Weight
 - Readiness Data
 - Service Dates
 - Training Data
 - Weapons Data
 - Weapons Qualifications

- ◆ 32 Medical Data Elements include:
 - Immunization Data
 - Medical Information
 - Dental Information

Note: The BC applications also require some of the 33 data elements from the DOD Generic Container (e.g. Name, Rank, Branch, SSN, Card Expiration Date, etc.)

Events Leading to the Joint Data Model (JDM)

- ◆ **1994** Multi-technology Application Reader Card (MARC) Data Elements (473) approved by DoD 3CI
- ◆ **1997** Joint Services Data Elements (293) approved by DON Configuration Management Board
- ◆ **20 - 21 Nov 2000** Williamsburg Summit to identify applications for CAC conversion (DOD ACO, all services and uniformed application users)
- ◆ **12 Dec 2000** Smart Card Senior Coordinating Group (SCSCG) BC Data Element Approval and Technical Review (Tab 5 for brief)



DoD and Smart Card Applications

- ◆ **Card Maintenance Utility**
- ◆ **“Cash-on-card” e-purse**
- ◆ **Food Service**
- ◆ **Logical/Secure Network Access**
- ◆ **Manifest Tracking**
- ◆ **Medical and Dental Information**
- ◆ **Morale, Welfare and Recreation**
- ◆ **Personnel Accountability**
- ◆ **Physical Access**
- ◆ **Portable Electronic Clipboard**
- ◆ **Property Accountability**
- ◆ **Recruit Smart Applications**



- ◆ **Smart Dental Information (SDI)**
- ◆ **Smart Immune (SI)**
- ◆ **Time and Attendance**
- ◆ **Training and Qualifications**
- ◆ **Warrior Readiness**
- ◆ **Weapons Issuance**



Many Applications Government-owned!

CAC Chip Component Specific Space



7478 Bytes Available
(SCSCG Directed)

Overhead **3510 Bytes**

+

BC Containers **3968 Bytes** Useable

Admin Container **2048 Bytes**

+

Medical Container **1920 Bytes**



JDM Security, Testing and Implementations

- ◆ **27 Aug 2000** DMDC announces PIN only container configuration
- ◆ **11–13 Feb 2002** Field Verification Test, NAS Oceana (Card Maintenance and Food Service)
- ◆ **20 Feb–15 Mar 2000** Field Verification Test, Oahu, (All applications)
- ◆ **Apr 2000 – current** BC application implementation (Tab 6 for the CAC Program Management Office Site Listing)

JDM Meetings between the Services

- ◆ **24 Jan 2003** Joint Services Discussion on the JDM (Tab 7 for the meeting minutes)
- ◆ **29–30 Oct 2003** CAC Program Management Review (Tab 8 for the Issue Paper)
- ◆ **21 Jan 2004** Military Services Meeting
 - JDM Brief and Discussions
 - User Maintenance Portal/Post Issuance Portal versus the DEERS/RAPIDS Issue Station Discussion
 - BC Applications Brief, Discussion and Demonstration
 - Navy CAC Issue Procedures

The Navy's CAC Application Implementation Plan

- ◆ Early in 2003 the Navy's Shore Installation Programming Board (SIPB) approved the use of the BC Food Service application in galleys across the Shore infrastructure
- ◆ For the past year the Navy's BC Food Service implementation has been on hold until resolution to the JDM download is finalized
- ◆ It is CNI's intent to follow the Food Service implementation by rolling out additional smart card applications across the enterprise
- ◆ Therefore, it is in our best interest to begin the download of the JDM to all Navy service member's as soon as possible

Navy Plan for CAC Applications

Goal 1: Instantiate the JDM on the CAC at issuance to all Navy personnel

Goal 2: Schedule JDM downloads to CACs to precede and/or coincide with the rollout of the CAC enabled Food Service application at Navy galleys

Preparatory Steps:

- ◆ SCSCG approval
- ◆ Navy Message alerting the DEERS/RAPIDS sites of the timeframe and methodology for the JDM download, to include Cross-servicing procedures without the JDM
- ◆ Identify Points of Contact
- ◆ Establish priority listing of DEERS/RAPIDS site IDs to DMDC

Program Management Office



Established

1 October 2002

- ◆ Management of 4 Backward Compatible (BC) Applications and 1 Card Utility
 - **Food Service**
 - **Manifest Tracking**
 - **Warrior/Deployment Readiness**
 - **Weapons/Asset Issuance**
 - **Card Maintenance Utility**

Food Service

- ◆ A two application suite
 - **Client Point of Sales**
 - **Back Office**
- ◆ Client (POS)
 - **Standard Interfaces for:**
 - **Non-a-la-carte**
 - **A-la-carte**
 - **Transactions (electronic headcount)**
for all diners/meals
 - **Used by the Army, Marine Corps and Navy**
- ◆ BackOffice
 - **Network data management tool for the Clients**
 - **Data consolidation tool for numerous reports**
 - **Used by the Army, Marine Corps and Navy**





Benefits of Food Service



- ◆ Eliminates the need for a paper meal card
- ◆ Allows managers a real-time transaction view of diner data from a single or all Client stations
- ◆ Automates diner headcount transactions
- ◆ Automates the BackOffice reporting
 - **Standard Food Service reports**
 - **Detailed reports on overrides, voids, and other Transaction-specific information**
- ◆ Reduces manned point of sales positions
- ◆ Allows for payroll deduction





Manifest Tracking



- ◆ CAC created personnel tracking files for:
 - Meetings
 - Training events
 - Manifests (including baggage)
- ◆ The data provides an accurate “real time” record of:
 - Individual events
 - Unit deployment or operational activities
- ◆ Prints or electronically imports/exports:
 - Meeting attendance (individual demographic information)
 - Training attendance (instructor, class and participants)
 - Manifest rosters (air, land and sea)





Benefits of Manifest Tracking

- ◆ Creates accurate electronic or paper roster reports
- ◆ Improves on personnel and asset visibility
 - On-demand, real time reporting of meetings, training, and manifesting and tracking events
 - Manifests includes personnel, baggage and location
- ◆ Reduces manifesting time from four hours to less than forty-five minutes when used with the individual's CAC
- ◆ Used in numerous real world deployments, contingencies and operations



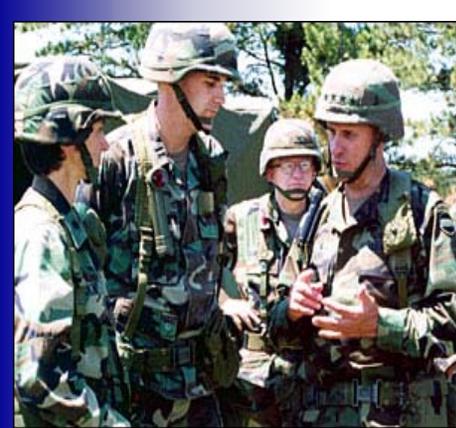


Warrior/Deployment Readiness

- ◆ Performs annual or deployment readiness checks
- ◆ Can be readiness configured to meet specific deployment or operational needs
- ◆ The readiness configuration is compared to each individual's CAC related information
- ◆ Readiness information is stored on the CAC and in the application database
- ◆ Readiness currencies or deficiencies in the following functional areas:

- Commander
- Dental
- Medical
- Personal
- Training





Benefits of Warrior/Deployment Readiness

- ◆ **Automated readiness tool to process individuals for deployments, contingencies and operations**
- ◆ **Eliminates redundant data entry and paper record reviews**
- ◆ **Stores immunization and other readiness information on the CAC**
- ◆ **Reduces the need for paper dental, medical, shot and other readiness related records**
- ◆ **Good Example – Soldier’s Readiness Processing:**
The Army’s 25th Infantry Division (L) used Warrior/Deployment Readiness to process 1,700 soldiers a day for annual or deployment readiness versus the previous 200 per day using their paper based system.

Weapons/Asset Issuance

- ◆ Automated check-in/out of any asset with the CAC
- ◆ Dynamic database that maintains:
 - The inventory of items
 - User demographic information
 - Operator demographic and permissions information
 - Historical information of items stored, issued, retrieved and maintained
 - Integrity through access permissions assigned by the application administrator
 - Enhanced security, accuracy and backup of all records

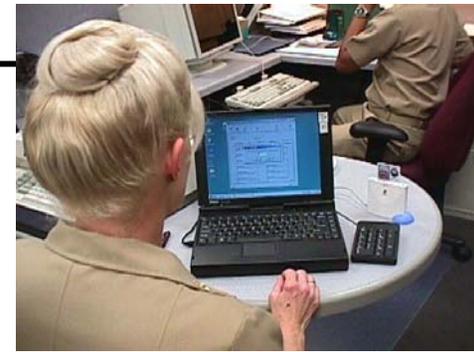


Benefits of Weapons/Asset Issuance

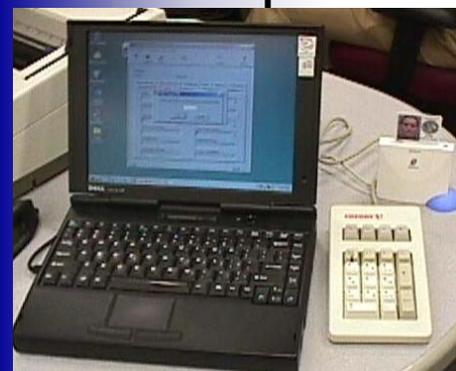
- ◆ Identifies and controls hardware, software, equipment, uniforms, rations, weapons, etc.
- ◆ Automates many labor intensive paper based armory/warehouse custodian responsibilities
- ◆ Identifies personnel through CAC usage
- ◆ Retrieves database information automatically
- ◆ Writes asset data information to the CAC
- ◆ Generates printed hand receipts if desired
- ◆ Creates numerous reports for asset, operator and personnel tracking



Card Maintenance Utility



- ◆ Used locally at a Personnel Support Detachment or the organization's Administrative Office
- ◆ Updates cardholder's demographic information in the Joint Data Model container (data elements used with the CAC functional applications)
- ◆ Performs other utility functions, such as:
 - Change PIN (if user knows the current PIN)
 - Backs up CAC cardholder's data in the utility database
 - Moves backed up data to a new CAC
 - Moves legacy smart card data to the CAC via the utility database
 - Creates custom reports developed from selected queries





Current BC Applications within Services

	Card Maintenance Utility	Manifest Tracking	Food Service	Warrior/ Deployment Readiness	Weapons/ Asset Issuance
TOTALS	185	106	649	42	17
USN	51	97	80	0	14
USMC	57	7	7	4	1
USA	75	0	562	36	0
USAF	0	0	0	0	0
PACOM	1	1	0	1	1
SOCPAC	1	1	0	1	1

A Day in the Life of a Smart Card User



Access Control

- Replaces Paper-based Records
- Verifies Qualifications
- Monitors/Tracks Personnel
- Automates Reporting
- Physical Access
- Logical Access



Reduce Paperwork

- Verifies Identity
- Automates Transactions
- Eliminates Redundancy
- Quality of Life
- Easy win for Policies
- Eliminates input error



Medical

- Verifies Identification
- Protects Personal Information
- Increases Readiness for Mobilization
- Safeguards Benefits

Public Key Infrastructure



- Verifies Identification
- Key Management
- Secure Communications
- Automates Transactions

A Day in the Life continued

Interoperability



Automation of Processes
Minimizes Dual Entries
Leverages Infrastructure
Minimizes Training
Reduces technical issues

E-Commerce



Meets Agency Business Rules
Fits into existing infrastructure
Not a stand alone “system”
Automation Enabler
Increases customer satisfaction

Entitlements



Reduces Money Handling
Identifies Entitlements
Automates Headcount

Web Enabling

Paperless Reports
Verifies Qualifications
Virtual Office Support
Information Visibility





Smart Card Technology

- ◆ This is not about *chasing technology*
- ◆ Smart Card technology is an *enabling tool* for business performance improvement and business process reengineering.
- ◆ The main focus is to support the Defense Reform Initiative:
 - ⌘ Cost Savings (Reduce Infrastructure)
 - ⌘ Mission enhancement (Improved Value to Warfighter)
 - ⌘ Customer Satisfaction and Quality of Life





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The Navy would like to offer their Program Office to other Services as a shared resource for CAC applications

