

Backwards Compatibility Brief to the SCSCG

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Agenda

- Charter
- Guidelines
- Process
- Applications Considered
- Technical Considerations
- Options
- Recommendations

Charter

- Identify existing functional data elements for the Common Access Card (CAC Release 1) to provide immediate backwards compatibility and functionality for existing applications within DoD.
- Focus solely on existing smart card applications that utilize data stored on a smart card.
- Provide options and recommendations for backwards compatibility.

Guidelines

- Maximize compatibility of existing programs with minimum number of data elements.
- Minimize the space requirements (bytes) being placed on the card for compatibility
- Address schedule, business case, and risk
- Consider functional performance, space availability requirements and allocation.
- If known, provide technical approach for recommendation.
- Eliminate requirement for single use application cards

Process

- Identify existing data elements required by current smart card applications.
 - Eliminate data elements not used or having potential for future use.
- Identify backward compatibility candidates and prioritize applications by CINC and Service utility.
- Minimize application re-write.

Considerations

- Recommend rewrite, elimination, or wait for additional CAC space.
- Data elements should have a clear name; description, format; and type of authentication needed to get access.
- Indicate data element usage. Joint or Service specific.
- If possible, identify the responsible application configuration management team and leader, clear or recommended owner and life cycle manager.

Applications Considered

- Joint Food Services (JFS)
- Joint Manifest Tracking (JMT)
- Morale, Welfare & Recreation Participation Tracking (MWR)
- Joint Warrior Readiness (JWR)
- Joint Weapons Issuance (JWI)
- Supply Asset Tracking System (SATS)
- Personnel Accountability/ Manned Pegcheck/ Pegboard
- Property Accountability
- Security manager W/S (Interface Program)
- Smart Immune (SI)
- Smart Dental Information (SDI)
- SNAP Automated Medical System (SAMS) (Interface)

Technical Considerations

- Card Available Space
- Standardization of Data Base with Defense Data Dictionary Set
- Overhead
- Accessing DoD Data Model
- Data Compression
- CAC Pin vs. SC Read only for JFS and JMT
- Card Performance
- Configuration Changes
- Unit Level Utility program (i.e. Joint Card Maintenance)

Cumulative Bytes Uncomp	Cumulative Approx. Bytes Comp	Per App Bytes Uncomp	Per App Bytes Comp	Total Additional Elements	Application	J/S/C	Type of Action	Responsible Party	Functional Owner
280	275	280	275	4	Joint Manifest Tracking / MWR	CINC	Upgrade Interface	DON SCO	TBD
286	281	6	6	2	Joint Food Service	CIINC	Upgrade Interface	DON SCO	TBD
1963	1661	1677	1380	66	Joint Warrior Readiness	CINC/Army	Upgrade Interface	DON SCO	TBD
2295	1993	332	332	8	Joint Weapons Issuance	CINC/USMC /Army	Upgrade Interface	DON SCO	TBD
2646	2344	351	351	4	SATS (Supply Asset Tracking System)	CINC/USAF	Upgrade Interface	Air Force IL	AF IL
		40	40	2	Manned Peg Check	USN/USMC	Rewrite	DON SCO	
		64	64	1	Ordinance--May be Covered by Re-write (comes with SMW)	USMC	Rewrite	DON SCO	USMC
		0	0	0	Security Manager Workstation-May be Covered By Re-write (comes with Ordinance)	PACOM/USN/USMC	Rewrite	TBD	USN
		279	279	1	Property Accountability	USN/USMC	Rewrite as RADMIN afloat and rewrite ashore	DON SCO and SPAWAR CHESAPEAKE	USMC
		TBD	TBD	TBD	SAMS	USN	Upgrade Interface	SPAWAR CHESAPEAKE	NMIC
		428	411	24	SmartImmune--Used Only within Recruit Location. A utility may be needed to transfer Data from Recruit Cards to CAC	USN	Recruit Only	N/A	USN/USMC
		808	754	38	SDI--Used Only within Recruit locations.	USN	Recruit Only	N/A	USN/USMC

Results

- Identified minimum CINC/Service requirements
- Considered future use (Biometrics, Financial, Medical, MS Logon)
- Eliminates requirement for single use application card

“This solution does not take space from the services, but provides elements that CINC and Services can use”

Recommendations

- **Accept Data Elements associated with JMT,JFS,JWR, JWI & SATS to provide Backward Compatibility for the “interim”**
- Compress Data
- Establish CAC Configuration Management Panel for CINC and Component input
- Identify Executive Agent(s) for recommended applications
 - JMT,JFS,JWR & JWI
 - JS (J4) DoD AIT IPT review process
- Reconcile Data Elements with Defense Data Dictionary Set (DDDS)
- Review Key Management requirements
 - Performance issue with pin access for JFS,JMT & JWI
 - Cost of Hardware Security Module (HSM)