



United States Air Force



Armory Management & Security Weapons, Gear, Ammo Tracking



Weapons, Gear, Ammo Registry

CAC Card Personnel Validation

Track Issues and Returns

Electronic Signature Pad to Validate
Custody Transfers

Rapid Armory Inventories

Weapon Tracking and Security System

Challenge

U.S. Air Force security armories typically have two security shifts per 24 hours, each requiring issues and returns of weapons, gear and ammunition. The Air Force was utilizing paper-based methodologies for tracking issues and returns and for armory inventories. The Air Force sought advanced tracking technology and software functionality to enhance armory operations and productivity.

Solution

The U.S. Air Force selected Virtual Doxx Corporation's ARMS Armory Management System to modernize military armory operations. U.S. Air Force and Virtual Doxx staff collaborated to define needs and to define solution parameters that established the ARMS Armory Management System as it is today. ARMS was developed according to U.S. military 'best practices' and 'standard operating procedures'.

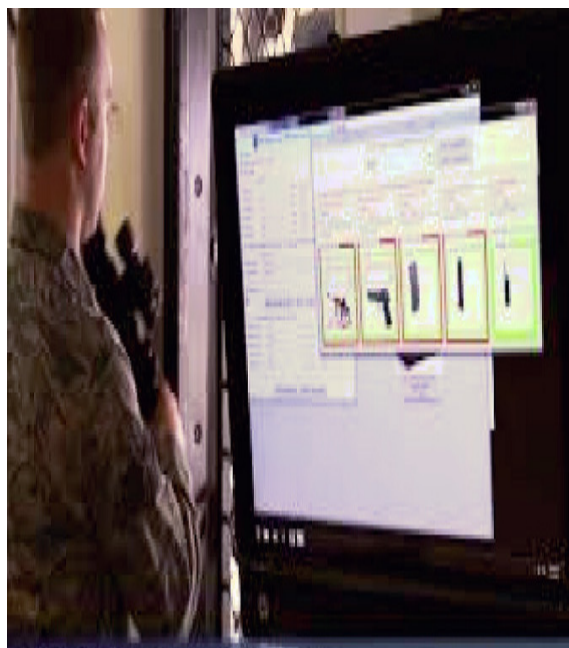
System Components

- Personnel validation by CAC card and ARMS photo
- Weapons, gear and ammunition tracking utilizing touch screen computer, bar coding and RFID
- Personnel Certification and ARM/Do-Not-Arm tracking
- Post-assignment weapon requirements tracking
- Photo-display on armory touch screen computer of all weapons, gear and ammo being issued or returned
- Authorized item photos border in green when scanned
- Unauthorized item photos border in red when scanned
- Electronic signatures validates custody transfers
- Portable scanner rapidly inventories armory

Personnel Validation, Weapon Accountability and Armory Security

Armory Issue-Return Window

- Personnel are validated by CAC card scan and personnel photo-display on Armorer's screen (PIN # entry and/or biometrics also supported)
- Personnel weapon certifications and 'arm / do-not-arm' status are validated
- Post-assignment and officer's assigned weapons display as photos on touch-screen
- Armory issue-return window includes RFID antennas that passive track RFID tagged weapons and gear being issued-by or returned-to armory
- Bar coded weapons, gear or ammo are scanned with hands-free bar code scanner
- Authorized weapons, gear and ammo are bordered in green when scanned, and unauthorized weapons are bordered in red
- Personnel accept custody of transfers via electronic signature pad



Custody Transfer Validation

- All weapons, gear and ammo issued to officer displays as rows of data on electronic signature pad
- Recipient signs pad accepting custody
- Event saves as audit trail record
- ARMS also supports touch-screen PIN # entry and/or fingerprint recognition to validate personnel and to validate issue and return transactions



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