



Trinidad-Tobago Police Services



RFID (radio wave) Technology to Track Weapons and Evidence



Weapons, Gear, Ammo Registry
Personnel Validation via ARMS Software
Track Weapon Assignments
Track Officer Designations and
Certification Testing Cycles
Rapid Armory Inventories

Seized Weapons and Evidence Tracking

Challenge

Trinidad-Tobago Police Services utilized 'registry books' for enrolling new weapons and evidence into the department's custody, and, for tracking the transfers and returns of weapons and evidence. Weapons and evidence were stored at over 100 precinct locations, and standardization and accountability became problematic. Trinidad-Tobago Police Services had significant difficulties in validating chain-of-custody and there was inadequate security capabilities.

Solution

Trinidad-Tobago Police Services selected Virtual Doxx Corporation's ARMS Armory Management System to computerize and automate weapon and evidence registration and tracking. RFID infrastructure was installed at weapon and evidence storage areas, linked to IP-connected lightstack/alarm system to prevent unauthorized removals.

System Components

- Computerized registry of officers, weapons, seized property and seized evidence
- Solution encompasses management of weapons, vehicles, narcotics, currency and other evidence-types
- Weapon and evidence are tagged with RFID
- RFID infrastructure at storage room doorways passively track incoming and outbound weapons and evidence
- Includes digital scales to weigh narcotics and automatically populate ARMS database
- Electronic signatures validates custody transfers
- Portable scanner rapidly inventories all weapons and evidence in armory and storage facilities

Police Department Weapons Management 'Best Practices'

Doorway Tracking and Security

- Doorways include RFID reader, RFID antennas (4), motions sensors (2), alarm/lights and video camera
- Motion sensors provide automated directionality, indicating whether weapons and evidence are entering or leaving premises
- Weapons and evidence entering facilities are automatically updated to storage location
- Weapons and evidence exiting facilities are automatically updated to 'out of facility'
- Recipients of weapons or evidence view received items on electronic signature pad and sign for acceptance-of-custody
- Unauthorized removals of weapons or evidence triggers alarm and flashing lights
- Unauthorized removals create time-date stamped audit trail record in ARMS that can be adjudicated against video footage



Find and Inventory

- To achieve 'real time' accountability of weapons and evidence, storage facilities are inventoried utilizing portable RFID scanner for rapid accountability
- Portable scanner utilizes color scale, sound, vibration and numeric index to FIND missing or needed weapons and evidence
- Portable scanner automatically monitors expected-and-found, unexpected-and-found and expected-and-not-found conditions for all tagged objects



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