



SmartTrack

AGILE ASSET TRACKING & MANAGEMENT

What is SMARTRACK!

SMARTRACK uses CAC cards, PIN's, IUID tags and 2D bar-coding to inventory, track, trace, account, maintain, issue and receive equipment for all critical and non critical unit property. The system produces approved forms and publications for each transaction thus providing an electronic copy of each and every system transaction. Originally designed for Arms Room Management and now used in all commodity areas and warehouse environments.

Go Ahead and Make it Easy!!

Who We Are

- Based in Raleigh NC
- Small Disabled Veteran Owned Business
- Mainly a custom software design firm

What We Do

- Design Custom Effective Software and Hardware Solutions
- Specialize in Asset Management
- We design for the soldier by the soldier, our systems adapt to the soldier and not vice versa

SmarTrack Family of Products



SmarTrack Army Sub-Products



Arms Room
Management
System



Information
Equipment
Management
Tracker



Maintenance
Management
System



Parts
Room/Tool
Room
Management
System

Fundamental Issue

How can a commander?

Assign individual and command responsibility for equipment using current technologies such as CAC Cards and IUID tagging to enhance:

- **Accountability**
- **Life Cycle Management**
- **Asset Management**
- **Maintenance Tracking**
- **Inventory and Management Control**
- **Reduce and Eliminate Paper Transactions**
- **Increase Training and Personal Time**
- **Add Value to Every Unit Member**
- **Provide Portability and Flexibility**

Challenge

UNIT COMMODITY ROOMS

Paper Based

Limited Personnel

50,000
TRANSACTIONS

- **Slow & Inefficient**
- **Inaccurate – lost equipment**
- **Not Responsive (Joint/Allied OPNS)**
- **Lacks standardization**
- **No connectivity**
- **“Antiquated”**

300
Customers

10,000
Maintenance
Services

520
Inventories

2000-3000
Items

Solution

SMARTRACK “Asset Tracking System”

**Fully
Automated**

**Data Base
Management**

**Portable &
Flexible**

**Virtual
Management**

What is SmarTrack

Asset Tracking and Management

Track, Trace,
Maintain,
Inventory, Account

Enter
Equipment

Bar Code
Equipment

Assign
Equipment to
People or Places

Enter
Personnel

Assign
Equipment

Assign
Maintenance
Data

SmarTrack Digital Arms Room And Asset Tracking System

Current Services Served



US Army
500 +
Stand Alone
3
Server Based



US Marine Corps
1+ Installations
Server Based



US Air Force
14+ Installations
Stand Alone



SmarTrack Digital Arms Room And Asset Tracking System

Levels of Unit Installations



Individual
Companies



Battalion
Level



Group
Level



SmarTrack Digital Arms Room And Asset Tracking System

Types of Installations



Arms Room

Weapons Warehouses



Commo Room

Supply
SCIF



SMARTTRACK FOOTPRINT

Arms Rooms

Supply

IT

Tool Room



Product Features

Heads Up Display

Master Authorization List

Hand Receipts Management

Personnel Page

Issue & Turn In

Checked Out Items Page

Maintenance

Inventory

Reports and Queries

Training Statistics

Ammo Storage

Key and Lock Control

Forms and Publications Library

Self Inspection

Kit Design

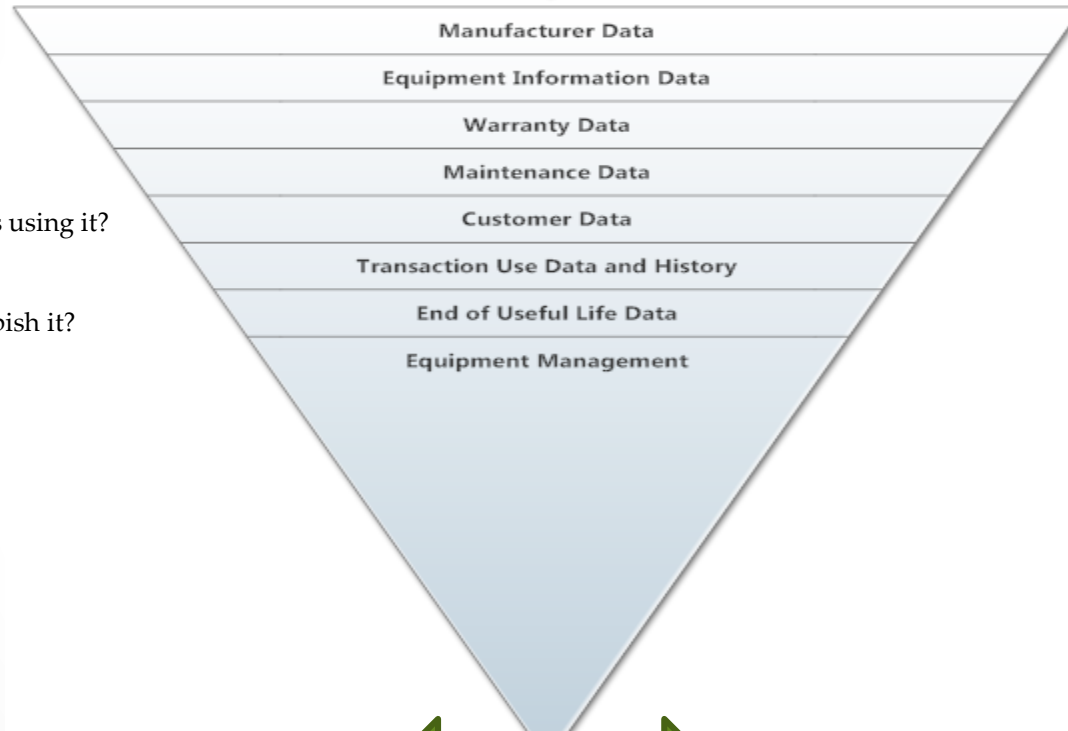
Bulk Items

Property Book Interface

Packing List Design

Asset and Life Cycle Management

Equipment and Personnel



Where did it come from?

Product support?

Where is it assigned, who is using it?

When do we retire or refurbish it?

What is it?

When and how do we maintain it?

What is its use history?

What is its current status?

Retire

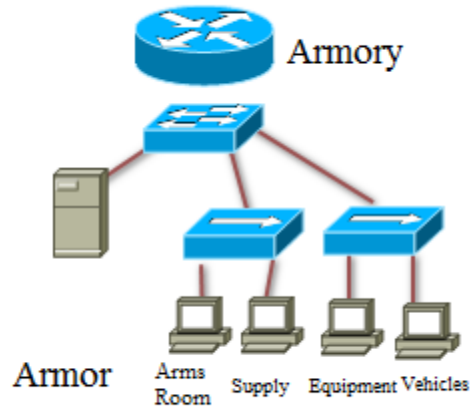


Recycle

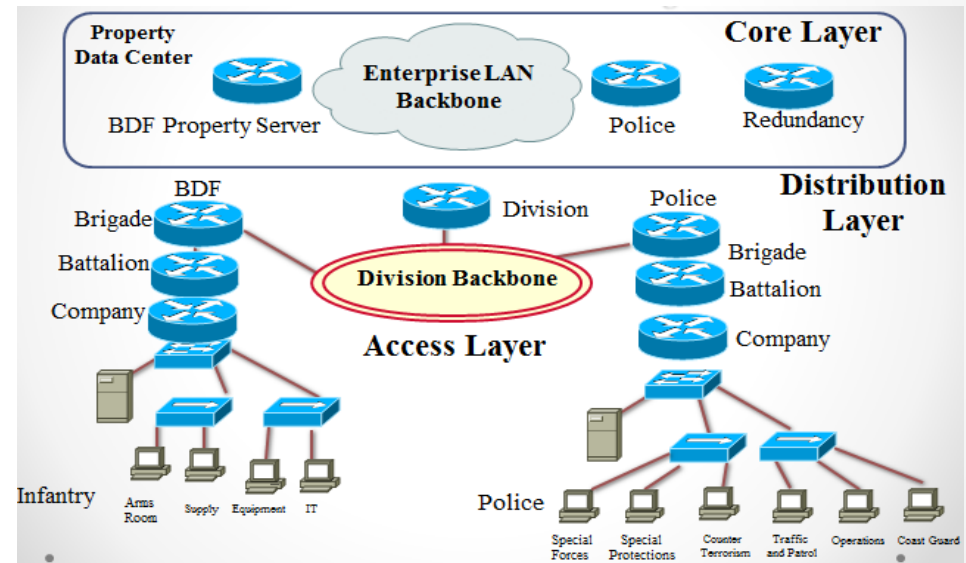
Accountability and Accuracy

Scope of Possibilities

Small Local Operations

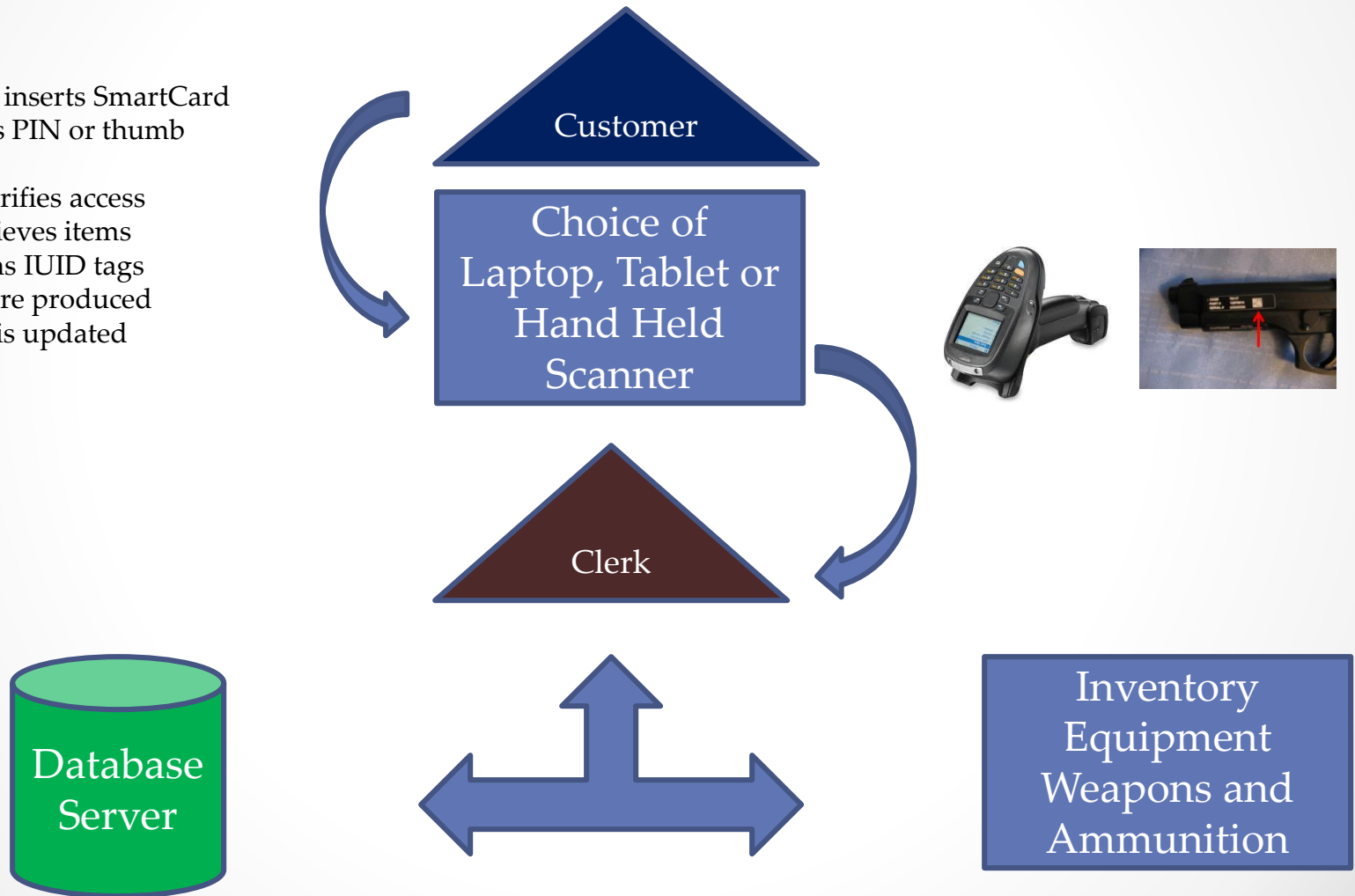


Enterprise Level Asset Management Solution



Basic Operation

1. Customer inserts SmartCard and enters PIN or thumb print
2. System verifies access
3. Clerk retrieves items
4. Clerk scans IUID tags
5. Receipts are produced
6. Database is updated



Example Physical Architecture

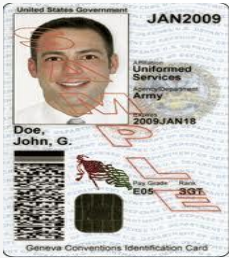
Main equipment property data base servers
Managed by highest level property management office



Intermediate equipment property limited data base sever
Managed by intermediate level property management office



Front line equipment property management
Managed by local clerk



Smartcard



Weapons



Ammo

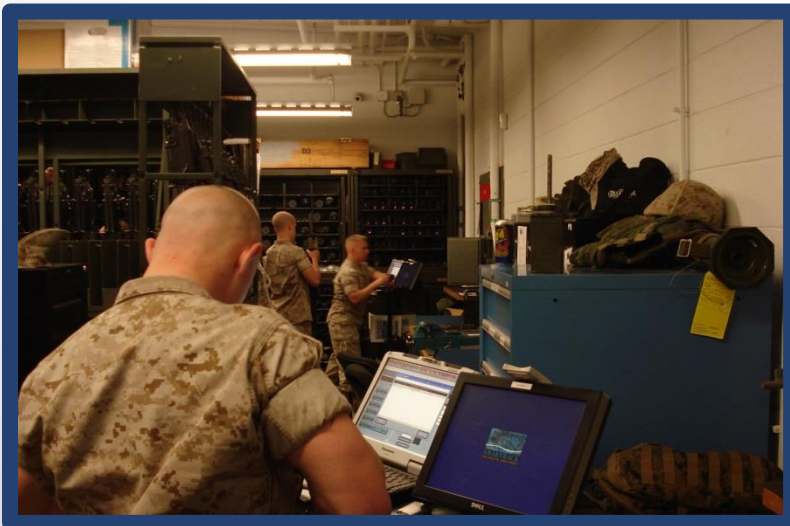
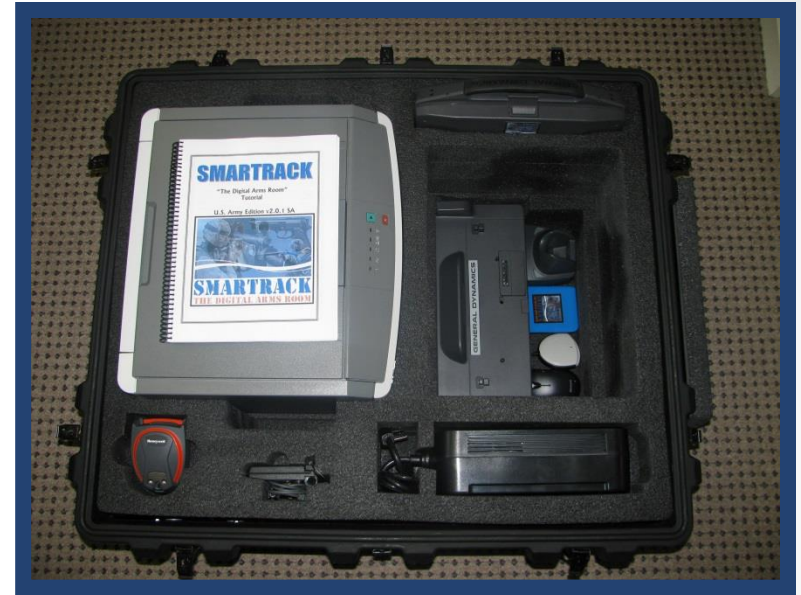


Clothing



Vehicles

SmarTrack



SMARTTRACK Configurations

1

PC Based



2

Laptop Based



3

Tablet Based



4

Client Server
Based



Cisco 2900 XL



192.168.1.106

PC Based Hardware/Software

| Item | Description | Quantity |
|--------------------------------|--|----------|
| Dell Optiplex 920 | Intel I7 Quad Core, 8 GB RAM 500 GB HD | 1 |
| Dell Touch Monitor U2313 | 24 Inch Touch USD Wide Angle | 1 |
| Dell Key Board and Mouse | QWERTY | 1 |
| SCM CAC Reader | SCM 331 | 1 |
| Topaz Signature Pad | TS 460-HSB | 1 |
| Motorola MT2070 Govt 2D Imager | 64 GB Memory | 1 |
| Motorola MT2070 Charging Base | Power Cables and Dock | 1 |
| Motorola 15" Coil Cable | USB 2.0 | 1 |
| Black Box20 ft Cable Extender | USB 2.0 | 1 |
| Dell B2360DN Printer | Laser Black and White USB | 1 |
| Adata Back Up Device | 500 GB 3.0 | 1 |
| Microsoft Operating System | Windows 7 Pro Windows 8 Pro | 1 |
| Productivity Software | Microsoft Office 2013 | 1 |
| Application Software | SmarTrack 3.0 Asset Tracking System | 1 |
| Application Software | SmarTrack 3.0 Advanced Maintenance | 1 |
| Pelican Shipping Container | Protective Case | 1 |

Laptop Based Hardware/Software

| Item | Description | Quantity |
|--|---|----------|
| Dell Precision M3800 Mobile Work Station | Intel I7 Quad Core, 16 GB RAM, 512 GB SSD | 1 |
| Dell Mouse | QWERTY | 1 |
| Dell Docking Station | Smart Dock Expansion Dock | 1 |
| SCM CAC Reader | SCM 331 | 1 |
| Topaz Signature Pad | TS 460-HSB | 1 |
| Motorola MT2070 Govt 2D Imager | 64 GB Memory | 1 |
| Motorola MT2070 Charging Base | Power Cables and Dock | 1 |
| Motorola 15" Coil Cable | USB 2.0 | 1 |
| Black Box20 ft Cable Extender | USB 2.0 | 1 |
| Dell B2360DN Printer | Laser Black and White USB | 1 |
| Adata Back Up Device | 500 GB 3.0 | 1 |
| Microsoft Operating System | Windows 7 Pro Windows 8 Pro | 1 |
| Productivity Software | Microsoft Office 2013 | 1 |
| Application Software | SmarTrack 3.0 Asset Tracking System | 1 |
| Application Software | SmarTrack 3.0 Advanced Maintenance | 1 |
| Pelican Shipping Container | Protective Case | 1 |

Tablet Based Hardware/Software

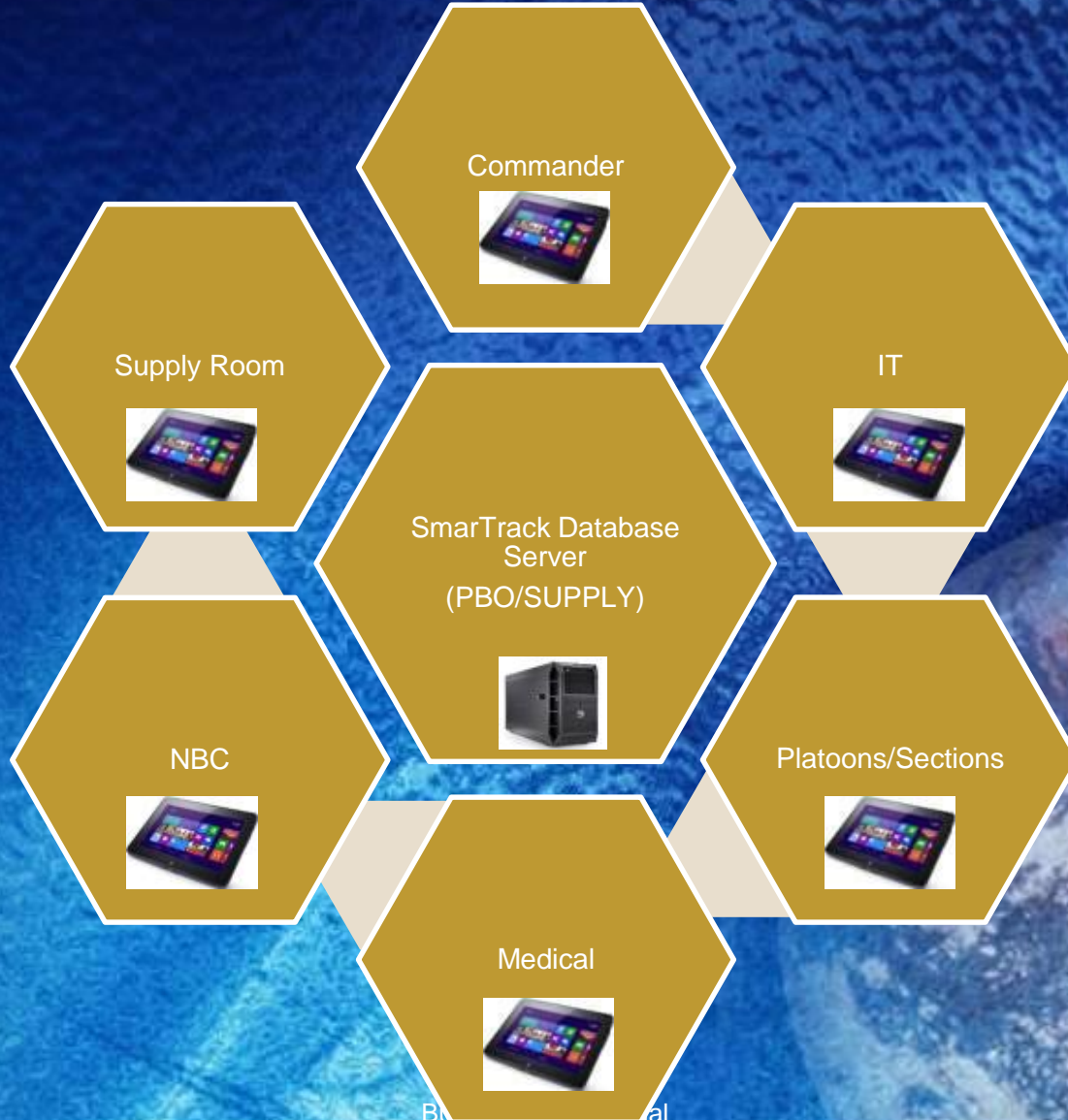
| Item | Description | Quantity |
|---|-------------------------------------|----------|
| Dell Venue 11 Pro | Intel I5, 4 GB RAM, 128 GB SSD | 1 |
| Dell Keyboard and Mouse | QWERTY | 1 |
| Dell Venue Docking Station | Smart Dock Expansion Dock | 1 |
| SCM CAC Reader | SCM 331 | 1 |
| Topaz Signature Pad | TS 460-HSB | 1 |
| Motorola MT2070 Govt 2D Imager | 64 GB Memory | 1 |
| Motorola MT2070 Charging Base | Power Cables and Dock | 1 |
| Motorola 15" Coil Cable | USB 2.0 | 1 |
| Black Box 20 ft Cable Extender | USB 2.0 | 1 |
| Brother PocketJet 6 Portable Printer - 200dpi | Laser Black and White USB | 1 |
| SD Card Back Up Device | 500 GB 3.0 | 1 |
| Microsoft Operating System | Windows 7 Pro Windows 8 Pro | 1 |
| Productivity Software | Microsoft Office 2013 | 1 |
| Application Software | SmarTrack 3.0 Asset Tracking System | 1 |
| Application Software | SmarTrack 3.0 Advanced Maintenance | 1 |
| Pelican Shipping Container | Protective Case | 1 |

Server Based Hardware/Software

| Item | Description | Quantity |
|----------------------------|--|----------|
| Dell Power Edge T620 | RAID 5 2 TB 32 GB RAM Server | 1 |
| Dell Touch Monitor U2313 | 24 Inch Touch USD Wide Angle | 1 |
| Dell Key Board and Mouse | QWERTY | 1 |
| SCM CAC Reader | SCM 331 | 1 |
| Dell Power Back Up | UPS Power Protection and Back Up | 1 |
| Cisco Switch | 8 Port Switch 1GB | 1 |
| Microsoft Operating System | Microsoft Server 2012 | 1 |
| Microsoft Database | Microsoft SQL Sever 2012 | |
| Productivity Software | Microsoft Office 2013 | 1 |
| Application Software | SmarTrack Server 3.0 Asset Tracking System | 1 |
| Application Software | SmarTrack Server 3.0 Advanced Maintenance | 1 |
| Sever Rack | Server Storage Rack | 1 |

Comes with 2 Licenses for Clients

SmarTrack Digital Arms Room And Asset Tracking System



Track and Trace all People, Equipment and Training

Asset Tracking Operations

- **PBUSE Based System of Record/Integration**
- **PBO/Supply TEC Managed**
- **Commander Direct Visibility**
- **All commodity areas, platoons, SF teams linked into to asset management, hand receipts, sub hand receipts and inventory**
- **Inventory based at every user level and passed to higher level**
- **Unit 100 percent, cyclical and on demand inventory scanner based**
- **CAC/ PIN IUID OR BARCODE managed asset tracking**
- **Disconnected tablet asset tracking for deployed units**
- **Drag and drop lateral transfer from unit to unit**
- **Automated DA Form 2062, 3161 and other applicable property accountability forms**
- **Track PBUSE Based and Non PBUSE based equipment, virtually any property deemed tractable by the commander**
- **7TH NETCOM Certificate of Networthiness for DoD Network**

What's Included

Hardware

- Laptop
- Duplex Printer
- Touch Monitor
- Wireless Scanner
- Signature Pad
- CAC Card Reader
- UPS
- A/V Cart
- Back Pack
- Back Up Drive

Software

- Windows 7 Pro, Windows 8
- SMARTRACK 3.0
- MSSQLServer

Installation & Training

- 1 on 1 Instruction
- 1 week training on site
- Data Migration
- Bar Coding
- Installation

* See vendor for multi purchase discounts

Product Support

“One Call, One Answer, Problem Solved”

- 3 Year 24 hour replacement for all hardware
- 24/7 tech support
- No need for army maintenance and support, it's included
- All items adjust to local electricity

Unique Identification Tagging

SmarTrack reads:

- 1D Bar Codes
- 2D Bar Codes
- Data Matrix Tags
- DOD IUID Tags

TESA IUID Labels: TESA IUID labels are a special durable label. They are designed and printed by many defense contracting companies or may already exist on government equipment. Each serial numbered item is assigned a construct 1 or 2 UID number that is unique to that piece of equipment. The IUID information is reported to the Wide Area Work Flow WAWF and the labels are then shipped to the property custodian and applied to each piece of equipment. Each surface is cleaned with a cleaning solution before the label is applied. An overcoat is then sprayed over the label to increase the durability. IUID Labels are not included with the SmarTrack system purchase. Williams Software does offer IUID services and solutions.



M9 Pistol with IUID TESA Label



SCAR Rifle with OEM TESA Label



TAC Light with TESA Label



M4 Rifle with IUID TESA Label

TESA IUID Labels



Scope with IUID TESA Label

Metal Photo IUID Labels: Metal Photo IUID labels are a special durable metal label. They are designed and printed by many defense contracting companies or may already exist on government equipment. Each serial numbered item is assigned a construct 1 or 2 UID number that is unique to that piece of equipment. The IUID information is reported to the Wide Area Work Flow WAWF and the labels are then shipped to the property custodian and applied to each piece of equipment. Each surface is cleaned with a cleaning solution before the label is applied. An overcoat sprayed is sprayed over the label to increase durability. Metal Photo IUID Labels are not included with the SmarTrack system purchase. Williams Software does offer metal photo IUID services and solutions.



M9 Pistol with IUID Metal Label



Shotgun with IUID Metal Label



M4 Rifle with IUID Metal Label



Shotgun with IUID Metal Label

Latest Developments 2014

- **SmarTrack is approved for use by the Army G4**
- **Release of SmarTrack Drug Enforcement**
- **SmarTrack Received CoN from NETCOM**
- **SmarTrack Releases Windows 8 Tablet Version**

Contact Information

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System Capabilities

Heads Up Display

- **Expired ETS and DEROS/PCS**
- **Check Out Status off all equipment and ammo**
- **Overdue maintenance items**
- **Ammo storage expiration**
- **Maximum rounds fired notification (80-100 percent)**
- **Readiness rating alerts for non-mission capable systems**
- **Required reports and inspections**

Master Authorization List

- Core elements of data base, visual status icons, real time decision making tool
- Visual indication of what is: assigned, un-assigned, checked out, non-mission capable, and round count status
- Facilitates drag and drop changes
- Lists required MAL Items, Property Book Info, Personnel Info, checked out items detail, and bulk items tracking
- Prevents the assignment of non-mission capable equipment
- Bundles equipment (connects machine gun, spare barrels, spare bags, scopes and aiming device as a set)

Property Book

- **Inventory and Reconcile Property and Sensitive Items Inventories against property books such as PBUSE**
- **Accurate property book of all arms room equipment down to assigned level by team, squad, platoon and company**
- **Prints property books for leaders at each level showing what they their unit is responsible for**
- **Includes quantity authorized, on hand, LIN, SUB LIN, NSN, Nomenclature, Type to include POW's**

Personnel Page

- **Fills authorized personnel database with CAC cards to include signature**
- **Allows drag and drop assignment of personnel to teams, squads, sections and platoons**
- **Identifies do not issue personnel (court marshal, suicide watch etc.) from drawing equipment**
- **Allows assignment of attached personnel**
- **Prints personnel reports by team through company level**
- **Lists all equipment assigned and unassigned that is check out of the system**

Issue & Turn In

- **CAC Card issue with PIN Verification**
- **Prevents issue of non mission capable equipment**
- **Prevents issue of equipment to the wrong individual**
- **Prevents issue to Lautenberg Act personnel**
- **Generates instantaneous 2062/Weapons Sign Out Log**
- **Eliminates armorer transcription errors**
- **Speeds the issue & turn-in**
- **Provides historical equipment data**
- **Tracks Rounds fired/Rounds remaining**

Checked Out Items Page

- Real time checked out items tracking
- Shows who equipment is assigned to, who actually checked it out and for what reason equipment was checked out
- Query by reason, unit (team- company), by person and by type of weapon
- Constantly updates equipment counts for all items on property book

Maintenance

- **Automates scheduled maintenance tasks**
- **Maintains a real-time DA form 2404/5988/2405/2407 for the user**
- **Tracks round counts and populates DA from 2408-4-1 for all round counts and maintenance tasks**
- **Maintains maintenance history records for all equipment**
- **Notifies armorer when gauging and calibration is due**
- **Notifies armorer when organizational and user maintenance is due**

Inventory

- **Automated daily, monthly, property book and command directed inventory**
- **Provides for 100 percent accuracy of all arms room equipment**
- **Conduct inventories from multiple locations**
- **Verifies inspectors minimum rank and ensures non consecutive monthly inspector**
- **Inventory by type, status, location and more**
- **Instant comparison to master data base**
- **Conduct cyclic, 20 percent and other types of inventory**

Reports and Queries

- **Facilitates chain of command reporting**
- **Non-mission capable reports for all equipment. Report provides dead lined items, where they are, how long they have been in maintenance, when they are due, and reason**
- **Query weapons systems readiness reports for all equipment**
- **Instantly prints weapons cards through drag and drop function**

Commanders Reports Sampler

| Report Name | Use |
|-------------------------------------|---|
| Company Equipment Quick Count | Snap Shot of all unit equipment, what should and should not be in the arms room |
| Company Personnel Report | Lists all authorized users, 90 day ETS, PCS notification, and do not issue personnel |
| Condensed MAL | Shows required commanders information to comply with AR 190-11 |
| Arms Room Property Book Listing | Shows all equipment similar to PBUSE with additional info such as a rack/butt number and actual number currently in arms room |
| Monthly Serial Number Inventory | Lists all equipment on property book, items scanned, items checked out, reason out and whom currently has the equipment |
| Ammunition Storage Report | Lists all ammo being temporarily stored, with info on who turned ammo in and out of arms room |
| Physical Security Inspection Report | Displays physical security inspection results |
| Issued and returned Items Reports | Displays all information by unit, sub unit or individual on all equipment checked in and out of the arms room in real time |
| Deadline Deficiency Report | Lists all deadline items and the deadline deficiencies for each item |
| Deadline Downtime Report | Lists all deadline items and provides information on how long items are dead lined and shows all ordered parts to include due in info |
| Maintenance Readiness Report | Provides readiness ratings for all equipment types |
| Scheduled Maintenance Report | Allows armorer to query scheduled maintenance |
| Unqualified and untrained reports | Provides information on all unqualified individuals and crews |

Training Statistics

- **Track qualification, hits, qualification levels, next qualification date, by individual and crew served equipment**
- **Provides qualification reports by team through company**
- **Assists leaders with proper personnel assignment**
- **Query upcoming qualification requirements**

Ammo Storage

- Provides inventory ability for temporary storage of ammo
- Produces appropriate paperwork for the transaction
- Automatic notification of past due storage dates

Key and Lock Control

- **Reminder of inspection dates**
- **Reminder of key and lock rotation dates**
- **Provides digital key control register**

Forms and Publications Library

- **Supplies local drive and web based static and fill-in forms that apply to the arms room**
- **Contains all Regulations, Technical Manual and Field Manuals that apply to the arms room**

Property Book Interface

- **Fill the SmarTrack database using the Property Book excel export feature**
- **Conduct reconciliation of the monthly inventory between the property book and SmarTrack**
- **Provides discrepancy reports between the two systems**

Self Inspection

- Prepares unit arms rooms for internal and external inspections
- Inspection forms can be tailored to specific unit

Kit Design

- **Design kits**
- **Assign kits**
- **Allows units to design kit for individual and crew served weapons, optics and lasers**
- **Allows units to design kits for mission specific purposes**
- **Design BII tracking kits**
- **Allows you to track non PBUSE and non serialized valuable equipment**

Bulk Items

- **Track bulk items included or not included on property book**
- **Inventory and track bulk issue items separately from property book items**
- **Improve accountability of the little things that degrade the mission when missing**

Packing List Design

- **Design shipping and packing lists on DD Form 1750**
- **Design shipping containers, boxes within shipping containers, scan all items into boxes and assign master barcodes per box**
- **Auto produce DD Form 1750 for each box and overall container**
- **Inventory by box and container**
- **Produce property book listing for each box and container**

Due Date Notification

- **System tracks each items return date**
- **System notifies clerk of any items not returned on time**
- **System alerts during start up and shut down**

Advanced Maintenance Features For Intense Maintenance Operations

Advanced Maintenance is a comprehensive all inclusive maintenance management program. The enhanced maintenance capabilities will track all maintenance activities and processes to include equipment life cycle and usage, technician productivity, part ordering, parts usage, man hour costs, parts costs and supervisor managerial tasks.

In the end all activities for all equipment, technicians and parts are nano-tracked and computed to allow for detailed accounting and auditing.

Advanced Maintenance Equipment Operations

- **Complete Management of Maintenance Process**
- **Equipment Maintenance Scheduling**
- **Non Scheduled Maintenance Processing**
- **Time in service, time out of service, total time in service**
- **Total cost to maintain**
- **Maintenance history tracking**

Advanced Maintenance Technician Operations

- **Technician parts ordering history**
- **Technician parts usage history**
- **Man-hours by item, item type, total items, by day, week month and years**
- **Cost of Man-hours by item, item type, total items, by day, week month and years**
- **Total and average time to inspect and repair per item**
- **Daily, Weekly, Monthly and Yearly technician productivity levels**
- **Technician costs per repair**
- **Graduated technician qualification tracking**

Advanced Maintenance Parts Operations

-
- **Parts Ordering, cost, technician use, man-hours**
- **Parts Tracking. cost, technician use, man-hours**
- **Used parts turn in tracking**
- **De-milled parts tracking**
- **Parts Inventory, parts reordering**
- **Total parts costing**
- **Parts auditing**

Advanced Maintenance Manager Reporting & Decision Making

- **Detailed Work Order Tracking and History of all performed maintenance checks and services and parts data**
- **Detailed history of all technician activities, man hours and costs**
- **Tracking of all code outs and end of life data**
- **Shipping tracking of all items sent to and from repair facility**
- **Automated maintenance manager work processing and assignment and work order progression**

Portability

- **System comes with its own DoD custom shipping container**
- **System has been deployed to Iraq and Afghanistan on several deployments with multiple systems on their second rotation**

Contact Information

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