# SmarTracking & MANAGEMENT





# SmarTrack AIR FORCE

# 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.

### Go Ahead and Make it Easy!!

# Who We Are

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



 Design Custom Effective Software and Hardware Solutions

• Specialize in Asset Management

## **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

1 Soldier

### 50,000 TRANSACTIONS

10,000 Maintenance Services Slow & Inefficient
Inaccurate – lost equipment
Not Responsive
(Joint/Allied OPNS)
Lacks standardization
No connectivity
"Antiguated"

300 Customers

2-3000 Items 520 Inventories



### SMARTRACK "Asset Tracking System")

Fully Automated

Data Base Management Portable & Flexible

Virtual Management

**Business Confidential** 

# **Product Versions**

- SmarTrack US Air Force
- SmarTrack USMC
- SmarTrack US Navy
- SmarTrack US Army
- SmarTrack Drug Enforcement Administration (DEA)
- SmarTrack Advanced Maintenance
- SmarTrack RFID
- SmarTrack Warehouse

### 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

**Business Confidential** 

# 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 10 Installations Stand Alone

# SmarTrack Digital Arms Room And Asset Tracking System

### Levels of Unit Installations



### Individual Companies Flights



# Battalion Group Level

Business Confidential



**Group Level** 

# SmarTrack Digital Arms Room And Asset Tracking System

**Types of Installations** 



### Arms Room



# Commo Room Supply SCIF

# **SMARTRACK FOOTPRINT**

Arms Rooms) (Supply

### Afghanistan

AFGHANISTAN

Restator -

Iraq



CONUS



IT

Japan

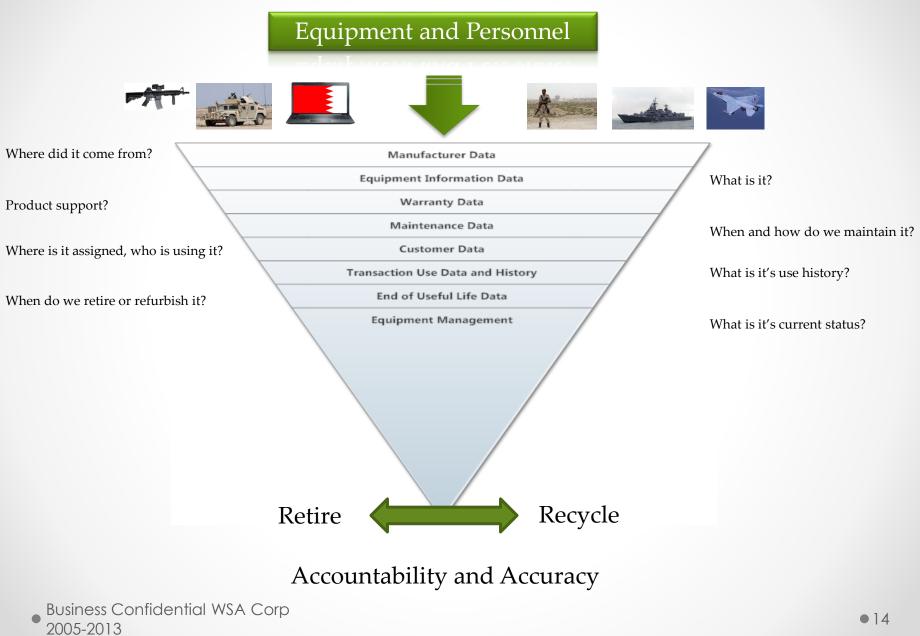
Korea



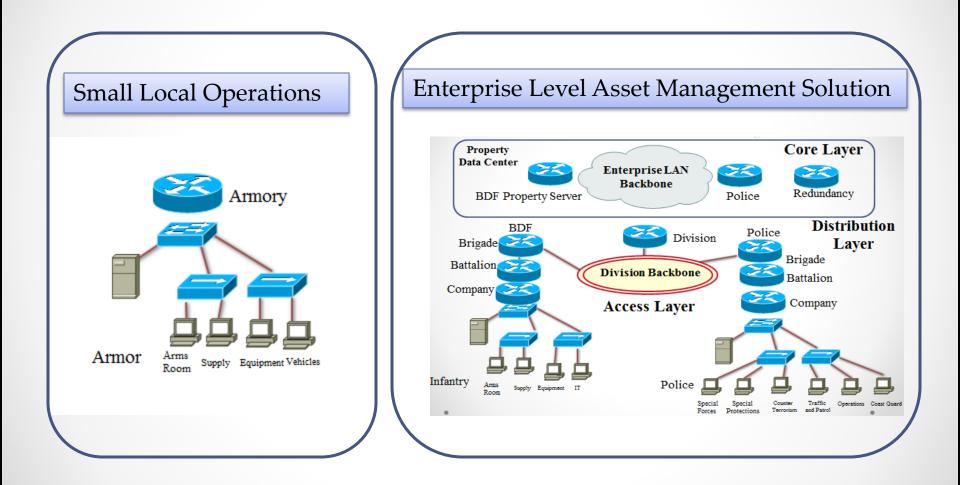
**Tool Room** 



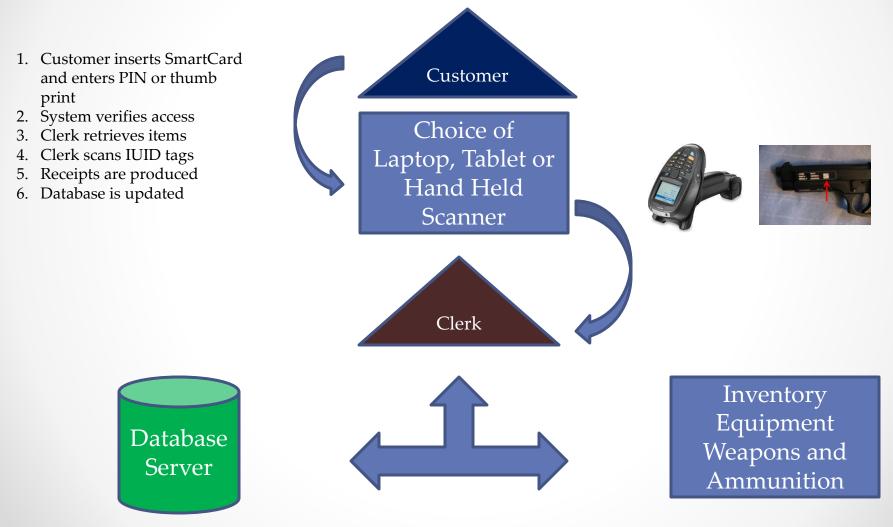
# Asset and Life Cycle Management



# Scope of Possibilities



# **Basic Operation**



# **Example Physical Architecture**



# **SmarTrack In Action**





 Business Confidential WSA Corp 2005-2013





# Hardware Options

### PC Based











**Tablet Based** 







**Business Confidential** 



# 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
- SMARTRACK 3.0
- SQL db

### **Installation & Training**

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

<u> Business comaenna</u>

\* See vendor for multi purchase discounts

A DECEMBER OF A

# Product Support

One Call, One Answer, Problem Solved!!

- 3 Year 24 hour replacement for all hardware
- 24/7 tech support
- No need for Air Force 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

**Business Confidential** 

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



M4 Rifle with IUID Metal Label



### Shotgun with IUID Metal Label



Shotgun with IUID Metal Label



- Uses Air Force CAC and PIN
- Automated Air Force Forms such as AF 1297, 105, 629
- Air Force Manuals and Regulations
- Air Force Inventory Procedures

# System Capabilities

**Business Confidential** 

**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 AF1297/Equipment Sign Out Log
- Eliminates armorer transcription errors
- Speeds the issue & turn-in
- Provides historical equipment data
- Tracks Rounds fired/Rounds remaining

Turning in and Issuing equipment is conducted in a fraction of the time it used to take. All forms such as the Air Force Forms 105, 629, 1297, 1473 and SF 153 are automatically populated and printed while instantly updating the MAL in real time. Security is vastly improved through the use of the Smart Cards and personnel identification numbers.

Unique features such as rounds fired tracking, issued items reports and personnel issue restrictions allow the user to customize the system to fit the organization. SMARTRACK® Air Force adapts to the organizational structure and requirements of the US Air Force.

HUD NAL Check In Out Ammo In Out Inventory Internance Inspector Reports Forms Library System HelpInfo Log Out												
Check In/Out AF IMT 1297/AFZP 2015												
Report Viewer												
🛅 🚔 Print   💏   🛅 🗒 • 🚔   🔩 🗞 Page Width •   🔯 🛃 1/2 🛛 😽 Backward 🛞 Forward 😰 Refresh 📆 Save as PDF   🏈 •												
	I acknowledge receipt of ar	d responsibility IAW AFI 23-111 for items de	scribed below and will return t	hem by the return date in	ndicated.							
	ISSUED TO: SIGNATURE											
	ISSUED TO: NAME, GRADE, ORGN (Typ Tom Brady - E8-SMS	e or print) 200TH ASOS	ORGN ACCT NO.	DATE OF ISSUE RETURN DATE 8/6/2012 12/4/2012								
	STOCK NUMBER	DESCRIPTION OF ITEM				QTNY						
	6625-01-266-3494	8025B - Multi-Meter										
		ART318, L0990		2								
	6130010896467	B-9 - POWER SUPPLY										
		140		1								
	5810-00-434-3644	KY-57/TEC/0014 - Crypto	EACH									
		25945		1								

### **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 AF form 103 for the user
- Tracks round counts and populates records 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

Conduct scheduled and un-scheduled maintenance with ease. With automatic maintenance scheduling maintenance is no longer a monumental task. All maintenance requirements are automatically presented to the user, applicable forms are auto populated, maintenance statuses are then tracked from beginning to end to include parts and repair warranty services, ordering and off site maintenance tracking.

The system produces useful maintenance status reports for all of your equipment to provide the organization's leadership with additional decision making tools for mission planning.

Х

Print



### MAL Maintenance Overview

FRS/MS-200M Light Marker Distress IR

					Maintenance Select Unit Overview Report				
Unit - 200TH ASOS									
Equipment	Assigned	Deadlined	Available	% Available	*				
532-A1	9	0	9	100%					
8025B	3	0	3	100%					
AN/PAS-21 See Spot III	16	0	16	100%					
AN/PEQ-1C Laser Marker	10	0	10	100%	-				
AN/PRC 148	31	0	31	100%	-				
AN/PRC-117F	14	0	14	100%					
AN/PSN-13A	8	0	8	100%					
ANC/PRC 117 G	6	0	6	100%					
ANPVS -7D	42	0	42	100%					
AV 2055/UHF SATCOM ANTENNA SYSTEM	11	0	11	100%					
B-9	1	0	1	100%					
BNVD-3G	6	1	5	83%					
CHARGER, BATTERY	4	0	4	100%					
Dummy Load	1	0	1	100%					
ELECTRIC COUNTER	9	0	9	100%					

0

10

100%

10

Conduct scheduled and un-scheduled maintenance with ease. With automatic maintenance scheduling maintenance is no longer a monumental task. All maintenance requirements are automatically presented to the user, applicable forms are auto populated, maintenance statuses are then tracked from beginning to end to include parts and repair warranty services, ordering and off site maintenance tracking.

The system produces useful maintenance status reports for all of your equipment to provide the organization's leadership with additional decision making tools for mission planning.

					1		CONTRACTOR OF STREET, S	and the second	1 N N N	all in the second
	MAL	Check In/Out Ammo In/Out Airman	Equipment	Inventory	Maintenance	Inspectio	Reports Forms Library	System	Part Help/Info	Log Out
		TION MAINTENANCE FIRING		WEAPON 2. SERIAL NUMBER 3. MANUFACTURER						
		FOR GROUND WEAPONS		TYPE	MODEL CALIBER					
	DAIA	TOR GROUND WEAPONS	RIFI	LE	M4A1	5.56 MN	M W123456789	COLT		
4. WEAPON LOO	CATION				5. ORGANIZATIO					
UNIT					1ST AIR WING					
	ACTION					ACTION				
CONDITION	TO BE TAKEN	REMARKS	INITIALS	DATE OF INSP	CONDITION	TO BE TAKEN	REMARKS		INITIALS	DATE OF INSP
CONDITION	IAREN	Remonito -	INTIALS	INOP	CONDITION	IAKEN	NEMANO		INTIALS	INOP
A	В	С	D	E	A	В	С		D	E
U 🔻	v 🔻	Missing Parts	ALW	20120714						
• •				20120/14						
V V	V 🔻	-								
• •		1				-				
V V	V 🔻									
•										
V V	V 🔻	-								
•		1			-	-				
	-					-				
<b>T</b>		-								
· ·										
		-			<b>T</b>	•				
· · ·										
		-			<b>T</b>	•				
					•	•				

Conduct scheduled and un-scheduled maintenance with ease. With automatic maintenance scheduling maintenance is no longer a monumental task. All maintenance requirements are automatically presented to the user, applicable forms are auto populated, maintenance statuses are then tracked from beginning to end to include parts and repair warranty services, ordering and off site maintenance tracking.

The system produces useful maintenance status reports for all of your equipment to provide the organization's leadership with additional decision making tools for mission planning.

	Check In/Out Ammo In/Out Aim	nan Equipment	Inventory	Maintenance	Inspection		s Library Syst	tem Help/I	nfo Log Out
	MAINTENANCE RECORD		PART IV FIRING RECORD						
	PART II FAILURE RECORD								
PART NUMBER	REMARKS	DATE REPLACED	INITIALS	DATE	TOTAL FIRED	CUMULATIVE	DATE	TOTAL FIRED	CUMULATIVE TOTAL
A	D	с	D	A	В	с	A	В	с
348723984723948	Pin Retaining Replaced	20120714	ALW	20120701	5	5			
				20120704	5	10			
				20120705	10	20			
				20120707	100	120			

#### 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

SMARTRACK® Air Force provides the ability to conduct daily, monthly and on demand equipment inventories in less than 30 percent of the time it used to take saving you hours of work. Inventories provide you with valuable information such as world wide asset location, authorized and on hand quantities, check in and out details, owner and user data and maintenance status.

Inventory reports are automatically produced, reconciled and stored into history. Inventory is conducted by specialized tagging and scanning devices which allow for batch and real inventory that can be conducted in real time or saved for transmission at a later point in time

HUD MAL Check In Out Ammo In Out Airman Equipment Inventory Maintenance Inspection Reports Forms Library System HelpInfo Log Out MAL Assign to Airman Unit Inventory X										
								Done	Start Scanning	Save
Choose Invent	orv	Monthly				Scan Items to be counted in Inve	ntory			
nspector - S				Unit - 200TH	ACOC					_
inspector - 5	ys Admin				A305					
		Unscanne					Scanned items	Ê		
	Туре	NSN	Rack #	Serial #	Bar	Item	Serial Number			
		61500	BAY	1137	D1T	PLRF 15C	000462			
a state of the second se		61300	Bay	140	D1T	SMP-1000	00576			
Dummy L			BAY	165	D1T	B-9	140			
VRC-83 A			BENCH	AA0026	D1T	Dummy Load	165			
and the second		6625-0	Contraction of the second	ART318	D1T	(	Scan Count!			
and the second		6625-0		L0990	D1T		Scan Count:			
AN/PRC-1		5820-0	-	2590	D143		En langet Hang		Questitu Care	
AN/PRC 148		5811-0	-	550395	A802		Equipment Name		Quantity Scan	
M19 BINO			-	A802539	A802		B-9			1
M22 BINO			-	A802540	A802		Dummy Load			1
M22 BINO			-	D1TZJ40X7			PLRF 15C			1
M22 BINO			100 million (100 m	D1TZJ40X7			SMP-1000			1
M22 BINO			-	D1TZJ40X7						
M22 BINO				D1TZJ40X7						
	LASER		Cage 2	000462	DS7					
		N/A	Cage 2	00576	A802					
	Beacon	N/A	Cage 2	00589	A802	Serial Sca		Total Items Scann	and:	4
	Beacon	N/A	Cage 2	00593	A802	Number o		Total Items Scann	ieu.	4
SMP-1000	Beacon	N/A 691	Cage 2	00614	A802				rint E	Exit

## **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**

and the second						
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 AF Regs					
Arms Room Property Book Listing	Shows all equipment similar to PBUSE with additional info such 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					

**Business Confidential** 

## **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



 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



 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



### System tracks each items return date

 System notifies clerk of any items not returned on time

 System alerts during start up and shut down

**Business Confidential** 

### 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**



Williams Software Associates Corp

910 263-1933 or 910 481-0719

E-Mail Al Williams al@wsacorp.us

Web space:

www.smartracksite.com www.digitalarmsroom.com www.wsacorp.us

**Business Confidential**