



MAF Maintenance Group Commanders Conference

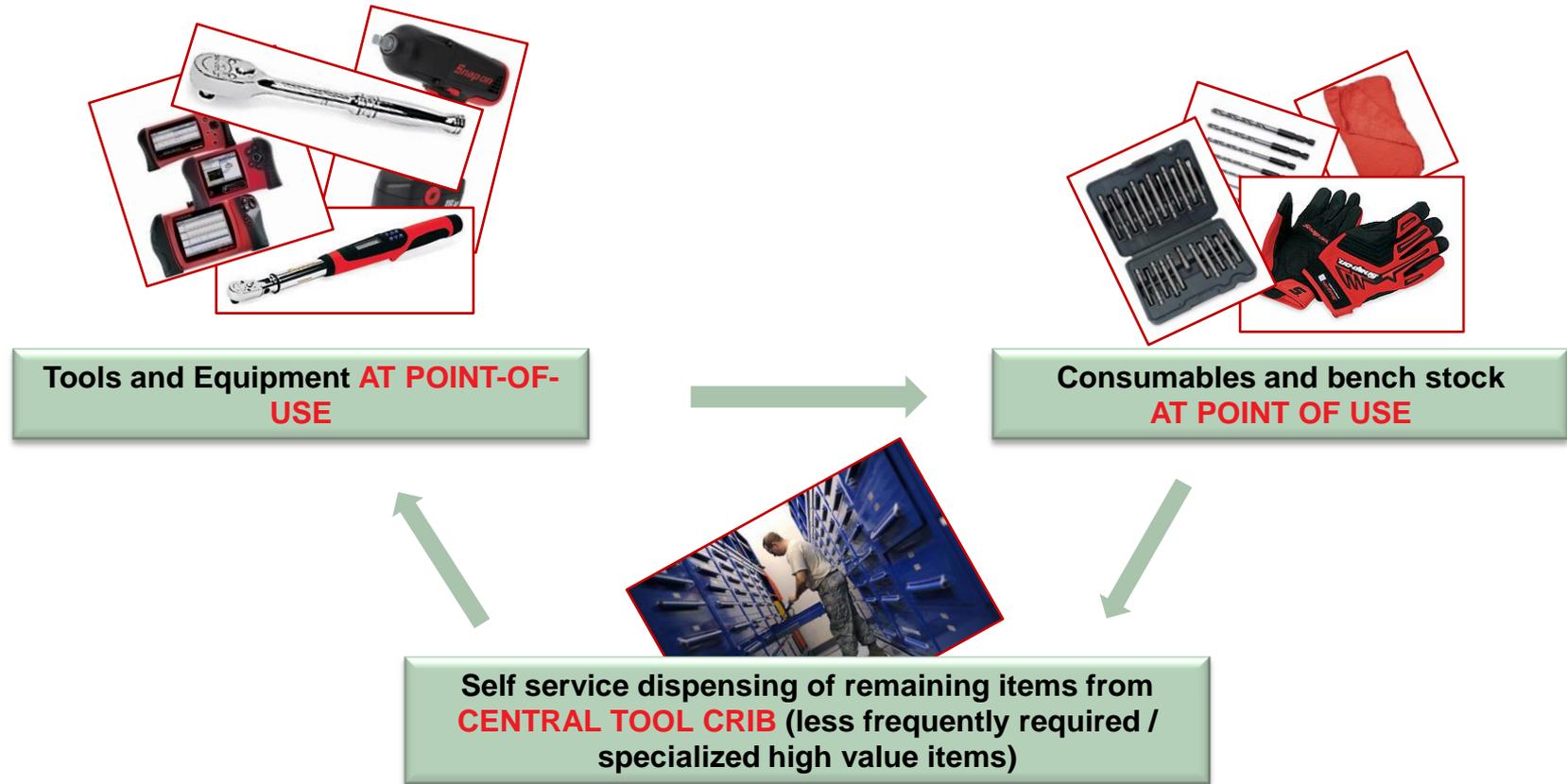
Scott AFB – November 29th 2011

Table of Contents

- Future vision of a Manless Tool Crib

- Snap-on Solutions
 - » Automated Tool Control
 - » Portable Flightline Kits
 - » TCMMax
 - » Custom Kitting And Support Services
 - » Future innovation and connecting technology

The Vision: Manless Tool Crib integrating key needs



BENEFITS

- Increased productivity by not needing to return to crib
- Fewer products in the crib to require management
- Enhanced FOD prevention
- Eliminate/reduce need for crib attendant(s)

Requirements



Tools & equipment **AT**
POINT-OF-USE

- A secure mobile crib containing all tools and equipment required to perform standard work
- Authorized access and electronic audit trail
- Broken tool and calibration monitoring
- Network and integration capable
- Meet Automated Multiuser Tool Box specification FA4452-11-R-0007



Consumables and bench
stock **AT POINT OF USE**

- Vending machines with secure access
- Authorized access and electronic audit trail
- Network and integration capable



Self service dispensing of
remaining items from
CENTRAL TOOL CRIB (less
frequently required /
specialized high value items)

- Incorporation of vending and dispensing machines
- Bar coding or electronic tagging of shelf products
- Portability
- Network and integration capable

POINT-OF-USE



TOOLS AND EQUIPMENT



CONSUMABLES AND BENCH STOCK

Snap-on Solutions to deliver on the vision of Manless Tool Crib



THE CRIB



STORAGE SOLUTIONS



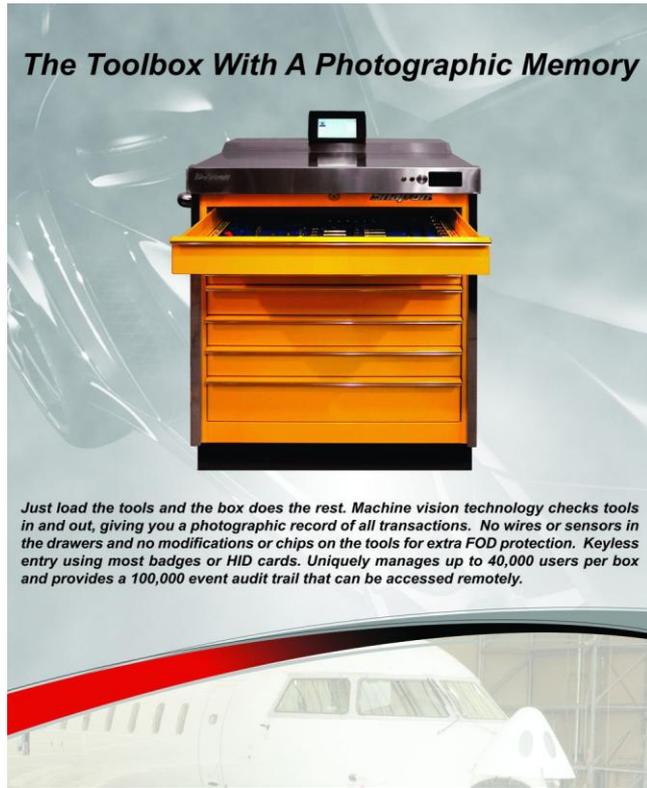
RFID TAGS & INTERROGATORS



PORTALS



Automated Tool Control



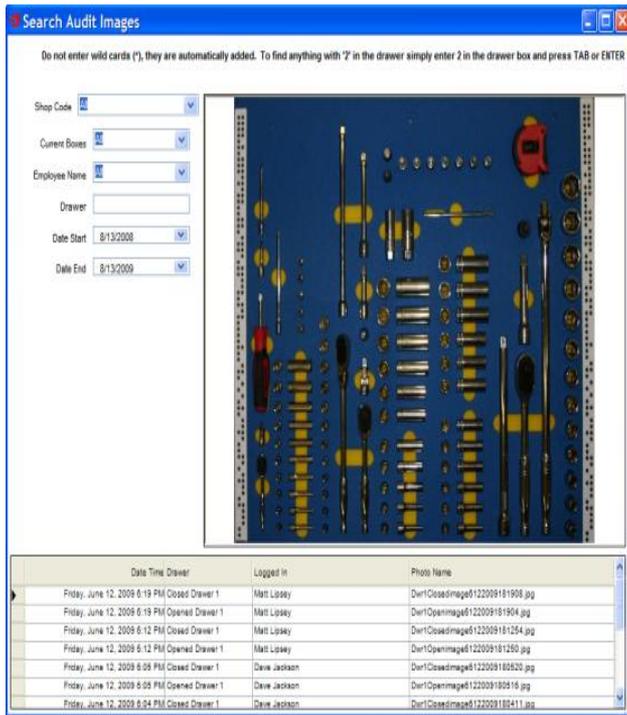
- Machine Vision Technology
- “Works at the speed of work”
- Digital Audit Images
- Accountability & Tracking –In real time
- Connects with and acts as single Automated system with TCMax
- Foundation component for “The Manless tool Crib”
- Soldier updates at ATC box to TCMax

Machine Vision Summary

- No alterations to the tools or tool box
- No Chips –No Wires –No Sensors on the tools, the tools box or the foam
- Manages items as small as an Apex (1/4")
- Simple to use and cost effective to maintain
- Robust Digital Audit Trail
- May be integrated with other solutions



Digital Audit Trail Military reports



- Stores data, history, detailed log and audit images for review or analysis
 - Audit image of every soldier drawer activity archived.
 - Digital image of every drawer for all Box Audits
 - Electronic keyed entry ID's user
- Remote Access for Administrators gives a seamless connectivity of ATC units, their contents through TCMax.

Near Term Enhancements

- DC power
 - Cordless ATC System
 - 16 hour runtime
 - Hot swappable batteries
- Parent child pallet issue return
 - Manage pallets of tools within ATC
 - Allows for auditable drawers in portable tool kits
- ID tool to box
 - Combination of ATC and RF technology



Portable Flight Line Kits – All Weather Mobile Storage Chest

PRODUCT FEATURES

- Heavy duty butterfly hinges
- Auto Pressure Equalization Valves
- Wide 24” wheel base for stability
- Single motion latches
- Stackable design – even when fully loaded
- Over-top opening on front cover
- Drawers fully extend on slides
- Drawers interchangeable with other mobile tool chests
- Snap-in padlock holder – withholds 250 lbs of pull
- 250+ lb weight capacity

PLUS ...

- Unique blow molded drawers have anti rust and biodegradable agents added to material
- Foam drawer inserts can be used for low volume Tool control designs
- Workable with Snap-on ATC system

APPLICABLE STANDARDS

- MIL 810 Environmental Resistance and Performance
- MIL 1916 Quality Standard

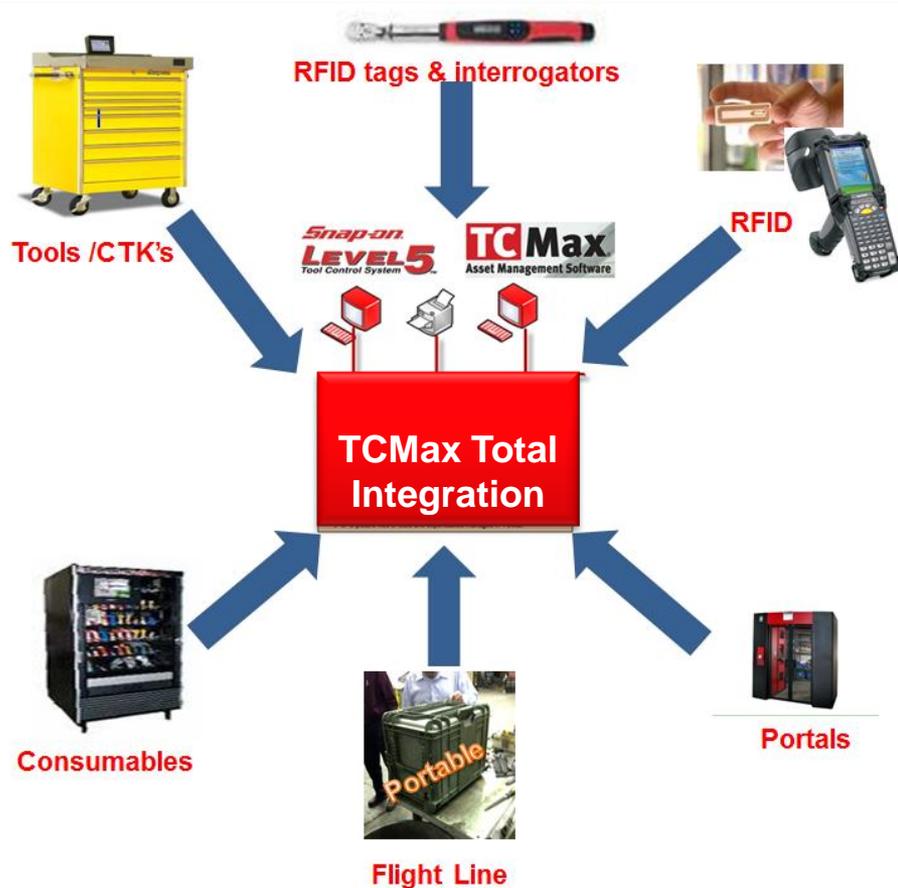


TCMax – The keystone to the tool crib of the future

- TCMax® is asset management
“Software that TALKS”™
- It is the most accurate, easiest to use
and the FASTEST to use asset
management software available
- Use the same asset management
process to manage your tools
 - Accurate records
 - Easy processing
 - Simple but complete reporting
- Designed for the soldier – Designed for
our military



TCMax



Foundation to the future

- Interfaces with Electronic keyless entry
- Portable or stationary
- Electronic keyless entry with electronic tool issue and return capability
- Software that Talks™.
- Database management system for tool tracking

Audio Warnings

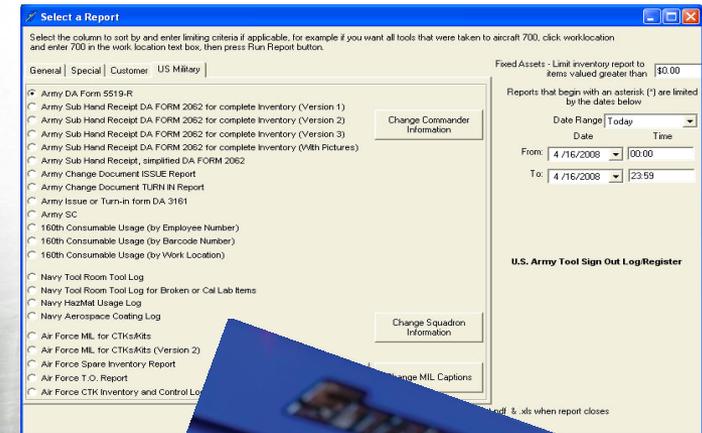
- “Overdue Calibration” warning when you issue a tool that is overdue calibration
- “Inspection Overdue” warning when you issue a tool that has an overdue inspection. Unlimited number of inspections for every “tool”
- “Employee not certified” warning if you are not certified to take this “tool”

Additional Features

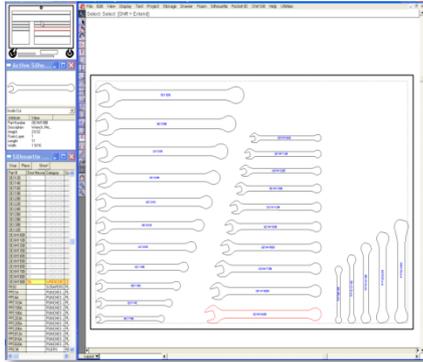
- TCMAX can be used to do **physical inventories** of tools and equipment
- Easily add new tools and employees all from one screen
- Issue and turn in tools from a remote location
- Block tools to be issued to an airplane

As systems and platforms are integrated into the Manless tool crib, TCMax will be the single point for reporting, analysis and management of all assets

Easy to train, easy to use and very easy to report



Custom Kitting Capabilities



LAYOUT DESIGN



FOAM PRODUCTION



KIT ASSEMBLY



IUID LABELING



TOOL ETCHING

*We can build a kit of any size...
from a portable case to a 40 ft container*

Future innovation and connecting technology

- Portability
- Traceability
- Applying the most current technology to tool control solutions
- Total integration of tool control services into the vision of a Manless
Tool Crib

Contact Information

Robert R. Blake Jr.
Snap-on Industrial
2801 80th Street , Kenosha, WI 53143
ph: 1-877-727-4468
Robert.R.Blake@snapon.com

To download this document and additional information, please visit:

http://www1.snapon.com/Industrial/Government_Military/MAF.html

INDUSTRIAL PROFILE INFORMATION

LEGAL NAME: Snap-on Industrial, a division of IDSC Holdings LLC

TAX ID: 36-4070294

CAGE CODE: 55719

DUNS NO: 806095217

CENTRAL CONTRACTOR REGISTRATION (CCR): We are registered, use DUNS# to see our registration

ONLINE REPRESENTATIVE AND CERTIFICATIONS APPLICATION (ORCA): Registered

LARGE BUSINESS: YES

GSA CONTRACT NUMBER: GS-06F-0006L; TERM 2/1/2006 THRU 1/31/2016

INDUSTRIAL CORPORATE INFORMATION:

Snap-on Industrial, a division of IDSC holdings LLC

2801 – 80th Street

Kenosha, WI 53141 www.snapon.com

ORDER POINT:

Snap-on Industrial, Industrial Customer Service Center (ICSC)

P.O. Box 9004

Crystal Lake, IL 60039

Phone: 1-877-740-1900 or 1- 815-479-5900

Fax: 1-877-740-1880 or 1-815-479-6930

GOVT. Phone: 1-888-418-5600, Fax: 1-888-418-5900

[Crystal Lake ICSC - RegionalOrderEntryPOD@snapon.com](mailto:CrystalLakeICSC-RegionalOrderEntryPOD@snapon.com)

GOVT. contractsales@snapon.com

REMIT TO:

Snap-on Industrial

21755 Network Place

Chicago, IL 60073-1217

KEY CONTACT:

Robert R. Blake Jr.

Snap-on Industrial

2801 80th Street , Kenosha, WI 53143

ph: 1-877-727-4468

e-mail: robert.r.blake@snapon.com