

TACOM LCMC IB and DMSMS Mitigation

Source: RANDAL GAEREMINCK, ASSOCIATE DIRECTOR

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Agenda



- Introductions
- Purpose
- IBIT/ IBET Mission
- Automation Alley Contract
- TACOM Industrial Base Visibility and Communication
Tool description and demonstration
- TACOM Industrial Base Trend / Risk Analysis
- Sustainment Engineering Risk Assessment (SERA)
- Summary/Questions



Purpose



- Provide an overview of the new Industrial Base and DMSMS mitigation tools and capability
- Demonstrate the TACOM Industrial Base Visibility and Communication Tool
- Review the TACOM Industrial Base Trend / Risk Analysis
- Provide an overview of the Sustainment Engineering Risk Assessment (SERA) objective, process, and benefits





TACOM LCMC Industrial Base Integration Team (IBIT)



Testing, Verification and Validation

Operational Impact Analyses

Reverse Engineering

Strategic Materials

DMSMS Management & Operation

Tracking of Bills of Material and
Technical Data Packages

Industrial Capability Assessments

Defense Priorities Allocation System

Industrial Labor Relations

Production Readiness Review

Surge and Contingency Operations

Committee on Foreign Investment in the
United States (CFIUS)

One
Team
One Vision

Industrial Base
Engineering
Team IBET

Industrial Base
Management
Group IBMG



IB Issues
PEOs,
ILSC,
Depots,
OEMs,
Etc.





Automation Alley Contract



Diminishing Manufacturing Sources and Material Shortages



- Automation Alley, Michigan's largest technology business association, is currently on contract with TARDEC to provide industrial base support for the TACOM LCMC Diminishing Manufacturing Sources and Material Shortages (DMSMS) program
- The contract with Automation Alley has created a capability to establish commercial industrial base visibility and communicate TACOM LCMC requirements with companies across the United States
- Similar to STS work directive-based contract



Automation Alley Capabilities



**Diminishing
Manufacturing
Sources and
Material
Shortages**



- Repair part analysis and data mining capability for families of vehicles.
- Manufacturing/Industrial base capability, trend, and risk knowledge
- Reverse engineering and administration to provide replacement parts and Technical Data Packages (TDPs)
- Locating and vetting suppliers for specific components or manufacturing technology
- Industrial Base Visibility and Communication tool – manufacturer's contact information and integrated email communication capability
- Prototype demonstration and test planning and support
- Technical competencies in many mechanical/electrical areas



Contract Work Directives



- WD001 – Program Management
- **WD002 – Industrial Base Visibility and Communication Tool**
- WD003 – High Purity Aluminum Electroplating Sources
- WD004 – Industrial Base Office Sector Study
- WD005 – Transducer Sources
- WD006 – Valve Sources
- WD007 – DMSMS Case Analyses
- **WD008 – TACOM Bi-Annual Industrial Base Trend/Risk Analysis**
- **WD009 – TACOM LCMC Legacy Vehicle Sustainment Studies**
- WD010 – Replacement of Cadmium Hex-Chrome plated material on TACOM LCMC equipment



Industrial Base Visibility and Communication Tool



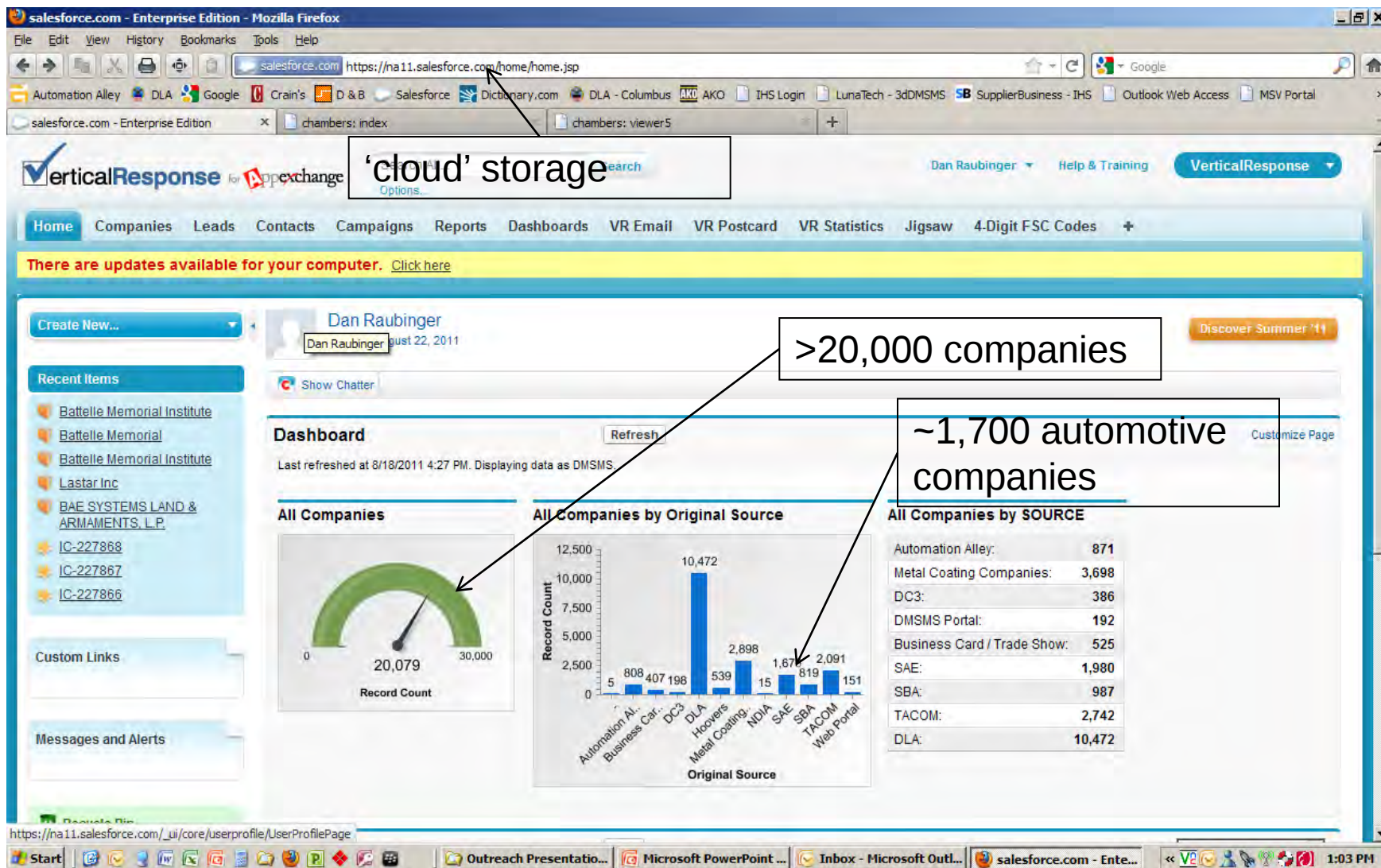
Objective:

- Create, update, and maintain Industrial Source access to support the Diminishing Manufacturing Sources and Material Shortages (DMSMS) effort.
- Identify current TACOM sources and potential industrial supply base sources to provide a maximum number of available options to resolve DMSMS issues.
- Analyze trends and risks associated with the U.S. commercial industrial base.

Linking TACOM LCMC requirements to Industrial Base Capabilities



Industrial Base Visibility and Communication Tool





Geographical View of Suppliers



LunaTech Designs Google Earth plug-in

The screenshot displays the TARDEC-DMSMS Menu interface, which is a web-based application for viewing supplier locations on a map. The interface is divided into several sections:

- Search Filters (Left Panel):** This section contains various filters for searching suppliers. The "High Risk" filter is selected in the "NAICS Code" dropdown. The "Work Directive" filter is set to "TACOM". The "Annual Revenue Between" and "Number of Employees Between" filters are also present, along with a "Contract Awarded" checkbox.
- Map (Center):** A satellite map of the United States is shown, with numerous yellow pins indicating the locations of suppliers. The map is controlled by a compass and zoom controls on the left.
- Search Results (Right Panel):** A list of search results is displayed, including companies like 3TEX Inc, A-J Chemical, Lubricants, AIW-Alton Inc, ASAP Design Inc, Aasa Inc, Advance Mold Co, Advanced Fabricating Machinery, Advanced Finishing Inc, Aerospace Manufacturing Svcs, Air Craftors Engineering Inc, Alkan Shelter LLC, Allon Industries Inc, Alpha Machining, American NDT Inc, Andesco Sales Inc, Anham LLC, Arlington Machine & Tool Co, Ats Workholding Inc, Aura Systems, Inc., Ays Inc, B & L Metal Products Inc, Best Foam Fabricators Inc, and Blue Chip Manufacturing & Sls.



Industrial Base Trend/Risk Analysis



- Health and Risk Analysis of TACOM Industrial Base sorted by the 489 Federal Supply Classes.
- Evaluation Criteria used
 - Number of companies per FSC
 - Financial Health
 - Trends
- Bi-Annual Assessments



Industrial Base Trend/Risk Analysis



Cage_FSC_Database Query Final_6_21 : Database (Access 2007) - Microsoft Access

Home Create External Data Database Tools Add-Ins

Final_Query Cage_SM_Business SFRM_FSC_Cage_FRisk_SmB_Src

FSC: 5341 Select an FSC: 5341

Description: Brackets

Total # of CAGE Codes: 1

Total # of Small_Business: 0

ICP_Code: Not Available

City: Not Available

CAGE Code Breakdown:

Count of Financial Risk Scores

High_Risk:	1
Medium_Risk:	0
Low_Risk:	0
Not_Available:	0

FSC Prescreen Scores

Click to see Chart

FSC:	5341	Small Business Classifications										TACOM Databases			DLA Databases		
Cage_ Number:	Company Name:	Prescreen_ Score:	HUB_Zone_XX	SDV_QF	Self_Cert_SDB_27	SBA_Cert_SDB_A4	8(a)_A6	VOB_A5	WO_A2	AbilityOne_A7	Natick	Rock_Island	Warren	Natick	Rock_Island	Warren	
1U339	LABARGE PRODUCTS INC.	High Risk	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐	

Record: 1 of 1

Record: 256 of 489

Form View

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Industrial Base Trend/Risk Analysis



Cage_FSC_Database Query Final_6_21 : Database (Access 2007) - Microsoft Access

Home Create External Data Database Tools Add-Ins

Final_Query Cage_SM_Business SFRM_FSC_Cage_FRisk_SmB_Src

FSC: 1915 Select an FSC 1915

Description: Cargo and Tanker Vessels

Total # of CAGE Codes: 4

Total # of Small Business: 0

ICP_Code: Not Available

City: Not Available

CAGE Code Breakdown:

Count of Financial Risk Scores

Risk Level	Count
High_Risk	0
Medium_Risk	0
Low_Risk	1
Not_Available	3

FSC Prescreen Scores

Click to see Chart

FSC:	1915															
Small Business Classifications																
Cage Number:	Company Name:	Prescreen Score:	HUB_Zone_XX	SDV_QF	Self_Cert_SDB_27	SBA_Cert_SDB_A4	8(a)_A6	VOB_AS	WO_A2	AbilityOne_A7	Natick	Rock_Island	Warren	Natick	Rock_Island	Warren
36232	LINCOLN ELECTRIC HOLDINGS INC.	Low Risk	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐
3B213	HALTER MARINE INC.	Not Available	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐
81349	MILITARY SPECIFICATIONS	Not Available	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐
81996	U S ARMY AVIATION AND MISSILE	Not Available	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☐	☐

Record: 1 of 4

Form View

Record: 60 of 489

Start draft report Inbox - Micro... chambers: vie... Microsoft Acc... TARDEC Indus... W56HZV-09-C... 5:51 PM



Escalating Support Challenges



- Increasing O&S requirements (65-80% of Life Cycle Cost)
- Equipment condition due to deployments (Degradation)
- Obsolescence of Army systems due to age (25-40 yrs)
- Loss/change of manufacturing sector for COTS (Support Strategy Risk)
- Inconsistent lifecycle sustainment policy & planning (Organic vs. CLS vs. TDPs?)
- Inconsistent engineering/design influence for sustainment (Poor Lifecycle Planning)
- Stove-piped industrial base issue investigation & resolution (ILSC & PM vs. LCMC)
- Negative economic trends impacting commercial industrial base (Industrial Base Risk)
- Environmental and safety impacts (e.g., cadmium, asbestos, Pb-free electronics)

Result = Increase in Reactive Support Issues

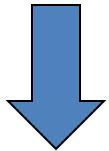
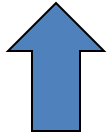
Solution = Proactive Logistics Engineering Support



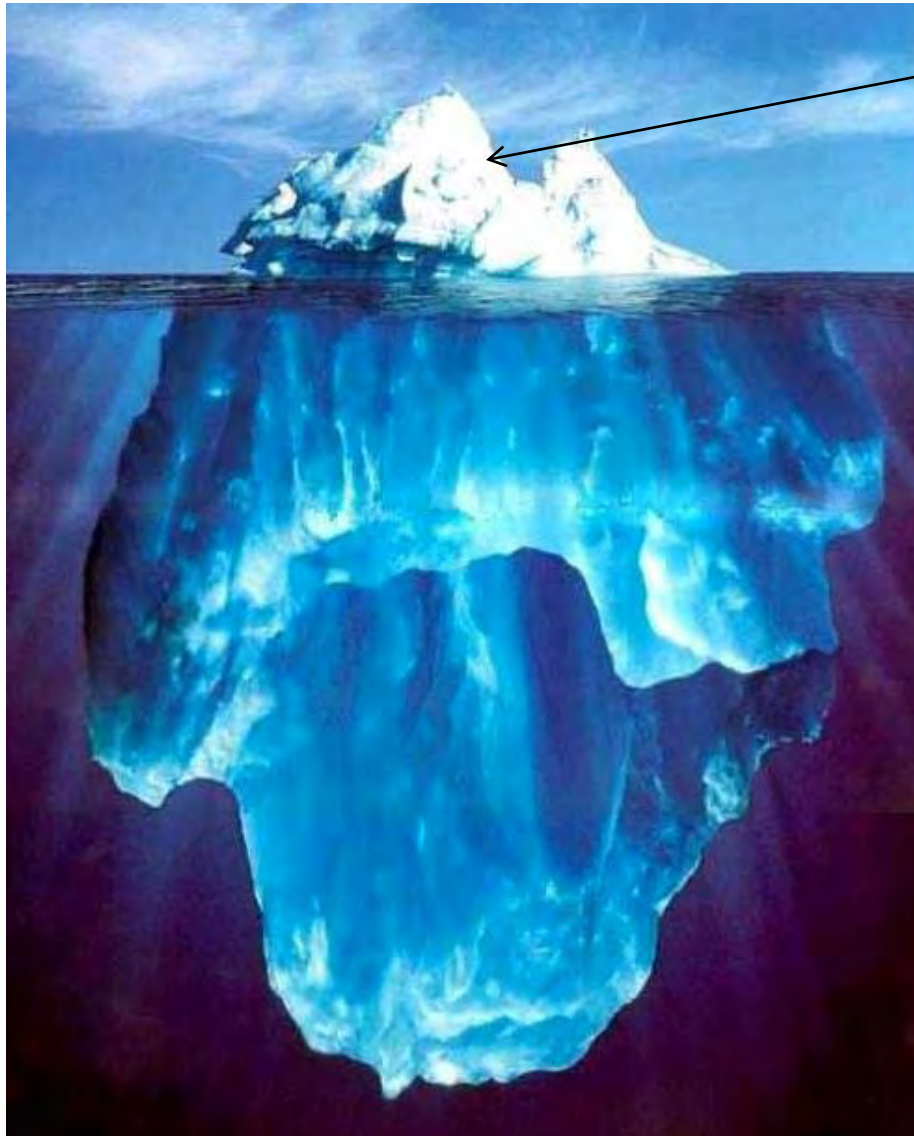
Reactive vs. Proactive



REACTIVE



PROACTIVE



- Backorders
- DLA 339s
- Shortages
- Obsolescence
- Etc.

Utilize methods (SERAs) to identify and prevent reactionary measures



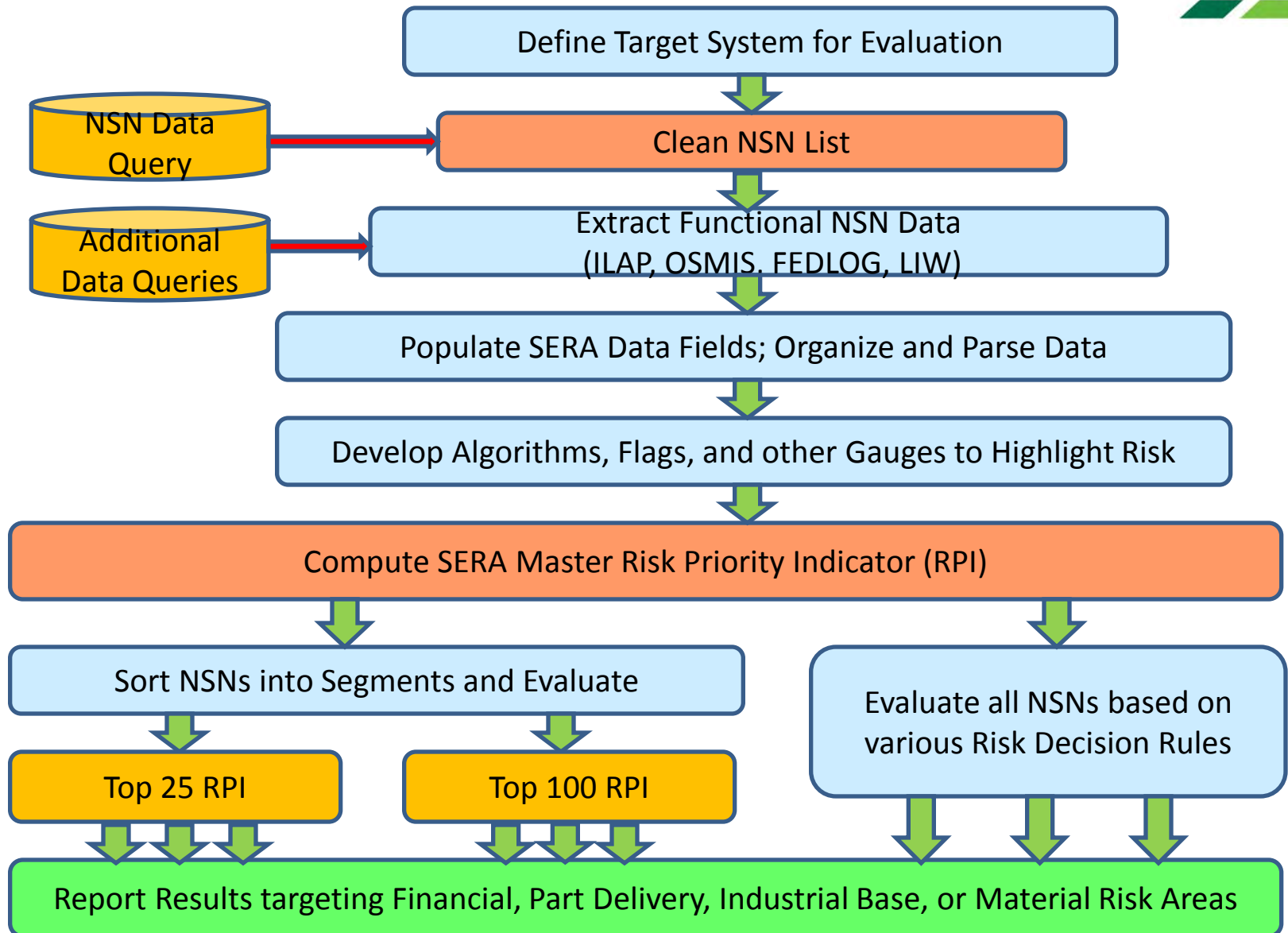
Sustainment Engineering Risk Assessment (SERA) Objective



- Proactively evaluate equipment data and identify industrial base related obsolescence and sustainment risk.
 - Leverage all existing available data (support strategy, usage, organic, and commercial).
 - Identify and document evidence of system, platform, or vehicle level obsolescence.
 - Provide platform or equipment managers factual documentation necessary to forecast resources via Army Working Capital Fund (AWCF), Sustainment System Technical Support (SSTS), and plan corrective actions and material change efforts.
 - Support AR 700-127 (Post Fielding Sustainment Readiness Reviews (SRR)).



SERA Process





Sustainment Data Elements



Weight Factor	Indicator Description	Risk Condition (Indicator =1)
5.0	Single or no CAGE Code	1: <=1 CAGE Code
5.0	PBO 6-Month	1: Y
4.0	Zero Immediate OH Stock with Due Out	1: ZBAL="Y" and OH<0.5*RO
3.5	Acquisition Advice Code	1: AAC= Y,V,N,X,T, Inactive or Nomenclature = Inactive
3.5	Top 15% CWT	1: >= top 15% in latest year
3.5	Warehouse OH Stock < RO	1: OH<RO
3.0	Zero Stock with Recent Demand	1: OH=0 with Dmd in last 2 yrs
3.0	No Recent Demand	1: OSMIS & ILAP=0 in last 2 yrs
3.0	D&B High Risk Indicator	1: Y
2.5	OCONUS Only CAGE Code	1: All CAGE Codes(>0) = OCONUS
2.5	Top 15% Closed Maintenance Work Order	1: >= top 15%
2.5	Top 15% Open Maintenance Work Order in past 12M	1: >top 15%
2.5	Readiness Driver	1: Y
2.5	Technical Data Unavailable	AMC/AMSC & DAC
2.0	Closed Maintenance Work Order	1:>0
2.0	Open Maintenance Work Order in past 12M	1:>0
2.0	CWT Increasing	1: Latest FY >1.1*Prev FY AND Latest FY > Median
2.0	Recent Back Order (60 day)	1: Y
2.0	Hazardous Materials	HMIC, HCC, & characteristic
1.5	Shelf Life Exceeded	1: Y



MS Access Views and Reports



Menu - AADO SERA

Home Create External Data Database Tools Add-Ins

Views Paste Copy Format Painter Clipboard Font Rich Text Refresh All New Save Delete Records Totals Spelling More Filter Selection Advanced Toggle Filter Sort & Filter Size to Fit Form Switch Windows Window Find Replace Go To Select Find

AADO SERA - M915 FOV Exit

Risk Indicator Matrix

Risk Indicator Matrix (M91Z Only)

NIIN Lookup

Cages

Supply Classes

Utilities Menu

Risk Grouping Reports

Single CAGE Code Plus...

PBO 6 Mos + Zero Stock w/ Due Out

No TDP + High D&B Score

High D&B Score

No TDP

Acquisition Advice Code

No Orders in Past 5 Years + No TDP

No Orders in Past 5 Years (Single CAGE)

OCONUS Only (Single CAGE)

Summary by Cage

Detail by Cage

Detail by Cage (Govt or Standard only)

Summary by FSC

No Active CAGE Code

Top 100 RPI List

PBO 6 Mos

PBO 6 Months + Rand Readiness Driver

Zero On Hand Stock w/ Due Out

Zero On Hand Stock

Rand Readiness Driver + High D&B Score

Rand Readiness Driver by Demand

Top 15% Customer Wait Time

RoHS Indicator (HMIC and HCC)

Warehouse On Hand Stock

No Orders in Past 5 Years (All)

OCONUS Only (All)

TDP Available (AMC, AMSC are 1G & 2G)

Top 100 RPI NIINs - Count by CAGE

General Reports

FSGs with NIIN Count

FSGs with NIIN Count (All)

FSCs with NIIN Count

FSCs with NIIN Count (All)

There are **0** null FSC descriptions

There are **3** CAGES with no status

There are **3700** CAGES with no prescreen score

There are **137** NIINs with no SC

There are **137** NIINs with no Rand

Form View



Risk Priority Indicator Matrix



Home

Create

External Data

Database Tools

Add-Ins

View

Cut

Copy

Paste

Format Painter

Views

Clipboard

Font

Rich Text

Refresh All

New

Save

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Totals

Spelling

More

Filter

Selection

Advanced

Toggle Filter

Size to Fit

Switch Windows

Find

Go To

Select

Close

Rank

Norm RPI

Total weight

NIIN

Single or no CAGE

PBO 6-month

Zero stock with due out

Acquisition advice code

Top 15% CWT

Warehouse OH stock < RO

No recent demand

Zero stock with recent demand

D&B high risk flag

OCONUS only CAGE code

Top 15% closed maint workorder

Top 15% open maint w/o in past 12M

Readiness driver

Technical data availability

Closed maint workorder

Open maint w/o in past 12M

CWT increasing

Recent back order (60 day)

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Average weight:

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Count:

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Record:

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Unfiltered

Search

Form View

Start

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Micros...

AADO ...

TARDE...

W56H...

W56H...

Docu...

2:53 PM



Additional NIIN Data



NIIN Lookup - AADO SERA

Home Create External Data Database Tools Add-Ins

Select a NIIN: Rank: 17 Norm RPI: 0.44 Total weight: 25.5

NATO Item Identification Number (NIIN): **01-505-7554** Replaced by:

Nomenclature: **RADIATOR,ENGINE COOLANT**

Source: **PMR - total pmr.txt of 2/18/2011**

Supply Class (SC): **9 - Repair Parts**

Federal Supply Group (FSG): **29 - Engine Accessories**

Federal Supply Classification (FSC): **2930 - Engine Cooling Sys Comps - Nonaircraft**

Consumable/Repairable: **Consumable** FEDLOG systems used on:

Rand readiness driver/flag: **2.5**

AMDF Pricing

AMDF price	Added	Source
\$1,061.00	5/23/11	Spreadsheet - Automation Alley-M915

Customer Wait Time

Year	Days
2008	10.1
2009	15.0

Reference/Part Numbers

Sources

Valid	All
CAGE codes (CONUS): 3	3
CAGE codes (OCONUS): 0	0
Total: 3	3

Single or no CAGE code flag: **0.0**

OCONUS only CAGE code flag: **0.0**

D&B high risk flag: **0.0**

Maintenance Work Orders

Closed	Opened
NIIN quantity: 71	
Workorders (2005-10): 72	Past 12 months: 31
Flag: 2.0	Flag: 2.0
Top 15% flag: 2.5	Top 15% flag: 2.5

Back Orders

Persistent (6 months consecutive)/flag: **0.0**

Recent (since 1 Sep 2010)/flag: **2.0**

Warehouse Authorized Stockage List

Current on hand balance: **5**

Current requisition objective: **11**

Zero stock with recent demand flag: **0.0**

Warehouse OH stock flag: **3.5**

Zero stock with due out flag: **0.0**

CAGE Codes

Cage	Valid	Name	City, State	Country	Prescreen score	Status
2A413	✓	BEHR HEAT TRANSFER SYSTEMS II	NORTH CHARLESTON,	UNITED STATES	Medium Risk	A - Active, Com
55683	✓	WHEELER BROS. INC.	SOMERSET, PA	UNITED STATES	Low Risk	A - Active, Com
64678	✓	DAIMLER TRUCKS NORTH AMERIC	PORTLAND, OR	UNITED STATES	Low Risk	A - Active, Com

Count: 3

Contracts

Date	Cage	SOS	Contract number	Contract X	Quantity	UI	Price	Total amount
9/8/10	55683	AKZ	W56HZV07D0081	VD040024AA	40	EA	\$916.77	\$36,670.80
12/30/09	55683	AKZ	W56HZV07D0081	VD030023AA	29	EA	\$873.11	\$25,320.19
12/30/09	55683	AKZ	W56HZV07D0081	VD030023AA	29	EA	\$0.00	\$0.00
9/11/09	55683	AKZ	W56HZV07D0081	VD020023AA	40	EA	\$873.11	\$34,924.40

OSMIS

Year	Quantity
2005	47.0
2006	26.9
2007	27.0
2008	18.7
2009	22.0
5 year total:	141.6

ILAP Demand

Year	Quantity
2005	22
2006	27
2007	30
2008	37
2009	46
5 year total:	162

No demand weight: **0.0**

Hazardous Materials

HMIC: **II**

Hazard count: **0**

Hazardous material flag: **0.0**

SWA/Non-SWA ILAP DOCHNO CT

SWA count:

Non-SWA count:

SWA/Non-SWA ratio:

Ordered as a RESET Docno: **II**

Form View

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Additional NIIN Data



NIIN Look Up - AADO SERA

Home Create External Data Database Tools Add-Ins

Select a NIIN: Rank: 17 Norm RPI: 0.44 Total weight: 25.5

NATO Item Identification Number (NIIN): **01-505-7554** Replaced by:

Nomenclature: **RADIATOR,ENGINE COOLANT**

Source: **PMR - total pmr.txt of 2/18/2011**

Supply Class (SC): **9 - Repair Parts**

Federal Supply Group (FSG): **29 - Engine Accessories**

Federal Supply Classification (FSC): **2930 - Engine Cooling Sys Comps - Nonaircraft**

Consumable/Repairable: **Consumable** FEDLOG systems used on:

Rand readiness driver/flag: **2.5**

Sources

	Valid	All
CAGE codes (CONUS):	3	3
CAGE codes (OCONUS):	0	0
Total:	3	3

Single or no CAGE code flag: **0.0**

OCONUS only CAGE code flag: **0.0**

D&B high risk flag: **0.0**

Maintenance Work Orders

Closed	Opened
NIIN quantity: 71	
Workorders (2005-10): 72	Past 12 months: 31
Flag: 2.0	Flag: 2.0
Top 15% flag: 2.5	Top 15% flag: 2.5

Back Orders

Persistent (6 months consecutive)/flag: **0.0**

Recent (since 1 Sep 2010)/flag: **2.0**

Warehouse Authoriz

Current on hand

Current requisition o

Zero stock with recent dem

Warehouse OH st

Zero stock with due

Used On

Model	PCCN	UOC
<UNK>	<UNK>	<UNKM915>
<UNK>	<UNK>	<UNKM916>
<UNK>	<UNK>	<UNKM917>
M915A3	C915A2	5A3
M916A3	C915A2	6A3
M917A2	C915A2	7A2
M917A2 w/MCS	C915A2	7E2

Count: 7

CAGE Codes

Cage	Valid	Name	City, State	Country	Prescreen score	Status
2A413	✓	BEHR HEAT TRANSFER SYSTEMS II	NORTH CHARLESTON,	UNITED STATES	Medium Risk	A - Active. Com
55683	✓	WHEELER BROS. INC.	SOMERSET, PA	UNITED STATES	Low Risk	A - Active. Com
64678	✓	DAIMLER TRUCKS NORTH AMERIC	PORTLAND, OR	UNITED STATES	Low Risk	A - Active. Com

Reference/Part Numbers

Ref	Cage	Nom	RNCC	RNVC	DAC
68925	2A413	RADIATOR,ENGINE COO			
68925	2A413	RADIATOR,ENGINE COOLANT	3	2	1
BHT/68925	64678				
BHT/68925	64678	RADIATOR,ENGINE COO			
BHT/68925	64678	RADIATOR,ENGINE COOLANT	5	2	5

Count: 3

Hazardous Materials

HMIC: [H](#)

Hazard count: **0**

Hazardous material flag: **0.0**

SWA/Non-SWA ILAP DocNo CT

SWA count:

Non-SWA count:

SWA/Non-SWA ratio:

Ordered as a RESET Docno: **N**

Count: 5

9/8/10

12/30/0

12/30/0

9/11/09 55683 AKZ W56HZV07D0081 VD020023AA 40 EA \$873.11 \$34,924.40

Close

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Sustainment Engineering Risk Assessment (SERA) Benefit



- Proactively evaluate equipment data and identify industrial base related obsolescence and sustainment risk.
- Leverage all existing available data (support strategy, usage, organic, and commercial).
- Identify and document evidence of system, platform, or vehicle level obsolescence.
- Provide platform or equipment managers factual documentation necessary to forecast resources via Army Working Capital Fund (AWCF), Sustainment System Technical Support (SSTS), and plan corrective actions and material change efforts.
- Support AR 700-127 (Post Fielding Sustainment Readiness Reviews (SRR)).



Available SERA Capability



- Application:
 - Component
 - Vehicle
 - Family of Vehicles
 - PM/PEO Portfolio
 - LCMC/Command
- Data refresh:
 - One-time study (M915)
 - Quarterly, semiannual, annually (Abrams)
- Potential for other sustainment opportunities – cost and sector studies, VE, commonality assessments



Summary



- Provided an overview of the new Industrial Base and DMSMS mitigation tools and capability
 - Demonstrated the TACOM Industrial Base Visibility and Communication Tool
 - Reviewed the TACOM Industrial Base Trend / Risk Analysis
 - Provided an overview of the Sustainment Engineering Risk Assessment (SERA) objective, process, and benefits
- Discussion and questions.