



SD-22 for an Award-Winning Program

Based on the SD-22 DoD DMSMS Guidebook

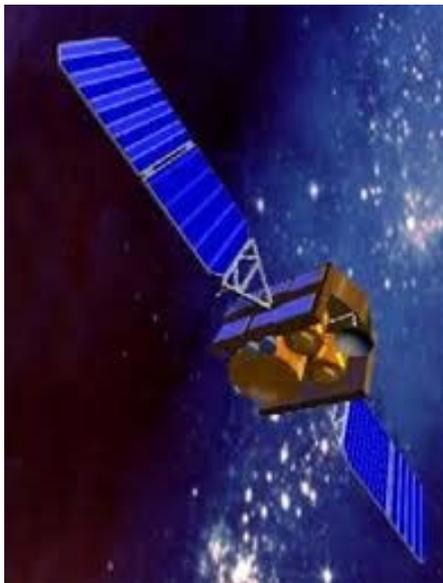
**NCI Information Systems, Inc.
www.nciinc.com
October 2012**

- Space & Command/Control/Communications/Intelligence Programs (415 SCMS)
- Diminishing Manufacturing Sources and Material Shortages (DMSMS) Overview
- Management Buy-In
- Teams, Tools & Training
- Data and the BOM
- Metrics



- Missile warning & space surveillance activities
 - *Missile warning & defense, space control sensors*

- Satellite control & communication activities
 - *Satellite control networks, military satellite com, global positioning*



- Command, Control, Communications, Intelligence
 - *Range threat systems, atmospheric early warning, weather radars & sensors*

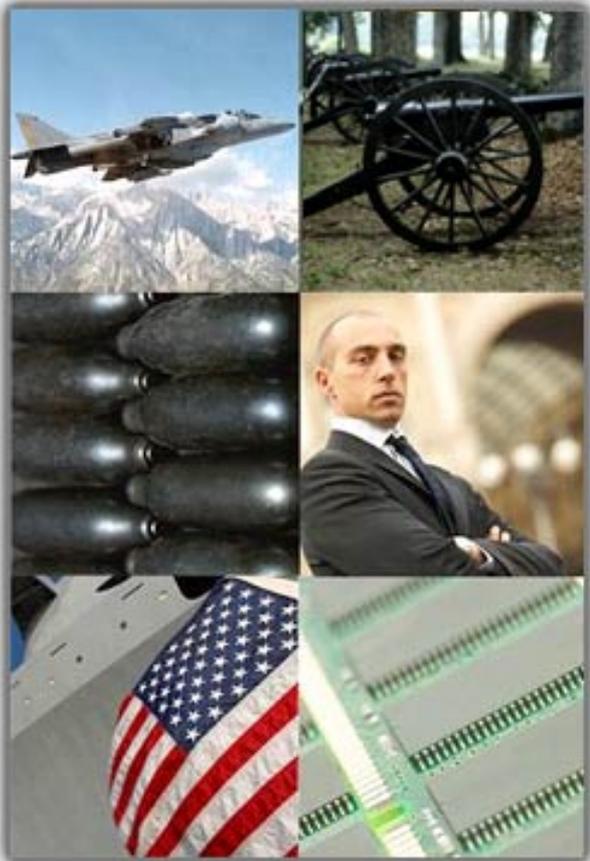


- Reduce Non Mission Capable impacts
- Increase retail stockage effectiveness while reducing backorders by providing up-to-date components
- Improve logistics support through enhanced supply management processes (identify DMSMS issues)
- Reduce overall cost of ownership by:
 - Providing economical proactive DMSMS resolution costs
 - Reduce reactive resolutions with a robust proactive program
 - Improve repair through availability of components



- DMSMS is:
“...loss or impending loss of manufacturers ... or suppliers of items that endanger a weapon system's ... support capability.”
- The DoD Requirement:
“DoD Components shall proactively take ... actions to identify and minimize the DMSMS impact on weapon system’s ... logistics support efforts.”
- DMSMS problems occur mainly with electronic components, but DMSMS affects all material categories
- DMSMS can occur in any phase of a program’s life cycle
- Extends to all products that could jeopardize military readiness





- Create awareness of the extent and impact of DMSMS issues on DoD systems
- Define robust DMSMS management process
- Define support metrics to measure program effectiveness
- Promote affordable and efficient program support through resolutions that take into account equipment life cycles, technology changes and preplanned obsolescence
- Promote DMSMS best practices throughout acquisition life cycle

- Management Buy-In
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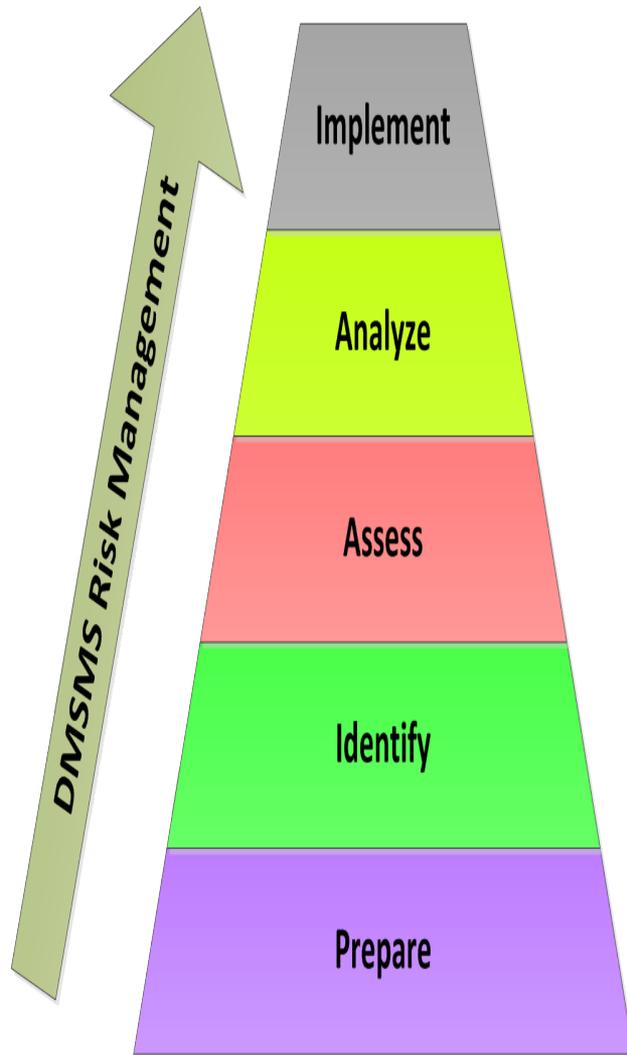


- Senior Management MUST support!
- Senior Management MUST provide funds!
- Empower subordinates to buy-in to the philosophy and processes
 - Listen to their concerns
 - Empower subordinates to create plans, recommendations & solutions
- Your Team efforts directly support the warfighters
- Whether Government or contractor, you are spending taxpayer dollars
- Buy-In to the SD-22 DoD DMSMS Guidebook (Aug 2012)

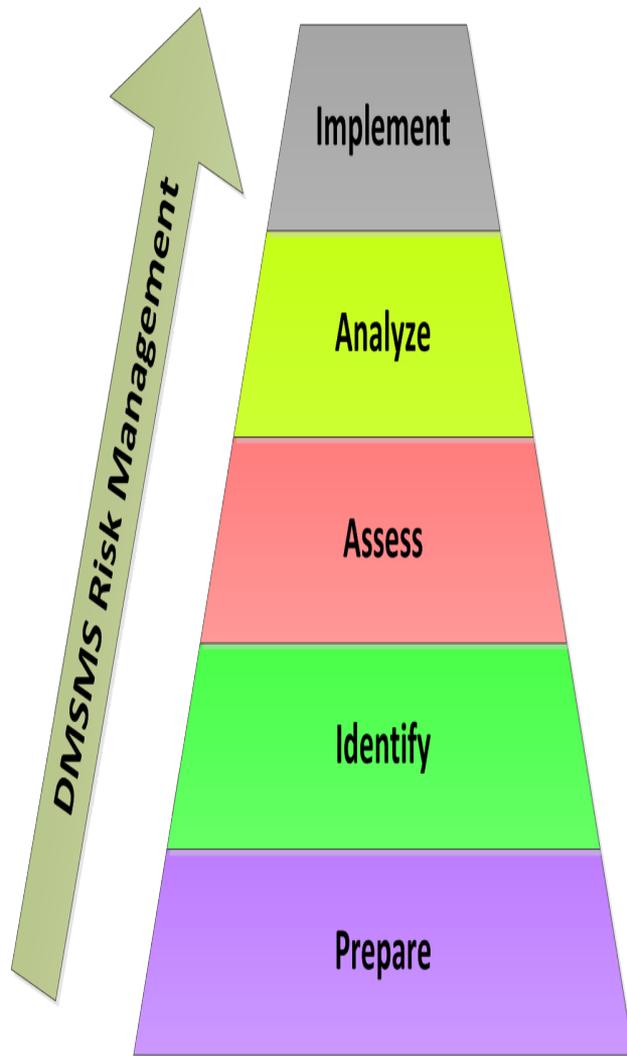


- Senior Management **Government Customer Buy-In!**
- Senior Management **Government Customer Buy-In!**
- Empower subordinates to buy-in to the philosophy and processes
 - Listen to their **Accomplished**
 - Empower subordinates to create plans, recommendations, solutions
- Your Team efforts directly support the warfighter **Improved warfighter metrics**
- Whether Government or **ROI** or, you are spending taxpayer dollars
- Buy-In to the SD-22 DoD DMSMS Guidebook **Buy-In!! (12)**





- **Implement.** Fund, contract, schedule and execute the selected resolutions for the high-priority items.
- **Analyze.** Research the problem items with near-term readiness or availability impact in the high-priority assemblies first and, for each assembly, develop a set of potential DMSMS resolutions.
- **Assess.** Considering the population of problem items, determine and prioritize the higher level assemblies most at risk for current and future readiness or availability impacts.
- **Identify.** Secure access to logistics, programmatic, and item data and tools. Identify items with near-term obsolescence issues.
- **Prepare.** Develop a DMSMS strategy and management plan, document processes. Form a DMSMS Management Team (DMT) representing all stakeholders.



- Implement.* Fund, contract, schedule, and execute the selected resolutions for the high-priority items. Government Working
- Analyze.* Research the program's near-term readiness or availability impacts. Review assemblies first and, for each assembly, develop essential DMSMS resolutions. Accomplished
- Assess.* Consider all problem items, determine and prioritize the items most at risk for current and future readiness and availability impacts. Accomplished
- Identify.* Secure programmatic, and item data and tools. Identify short-term obsolescence issues. Accomplished
- Prepare.* Develop strategy and management plan, document the DMSMS Management Team (DMT) representation. Accomplished

- DMSMS Management Team (DMT)
 - Comprise all disciplines: Logistics, Engineering Technicians, Financial, Support Staff

- DMSMS Management Plan (DMP)
 - Relevant system specific information
 - Program milestones
 - Funded technology refreshment plans
 - Design techniques & strategies for mitigating DMSMS impacts
 - Relevant stakeholders
 - Roles and responsibilities
 - Management tools, databases & systems
 - Case management process
 - Prioritization approaches
 - Metrics collection & analysis

In Place

Accomplished

- DMSMS Tools
 - Must fit the user's needs
 - Predictive tools help status the health of the components
 - Reliability tools help determine the reliability and supportability of on-hand assets
 - Logistics, sustainment and other tools are either government-owned or commercially available



Tool	OPR	Fee?	Usage
ASSIST	DSP0	No	Specifications and standards
CDMD-0A	NAVSEA (DETPAC)	No	Configuration status accounting of systems and equipment
D200C	AFMC	No	LRU and SRU failure data
EMALL	DLA	No	Item of supply information and ordering (DLA Item Catalog)
GIDEP Notices	GIDEP	No	Historical and new discontinuance notices
JEDMICS	AFMC	No	Engineering drawing file system
MEDALS	DLA	No	Engineering drawing location and revision
Microcircuit Query	DSCC	No	Manufacturer part number to standard microcircuit drawings
PC Link	DLA	No	Access to service databases
REMIS	AFMC	No	Reliability data
SDW	DLA Headquarters	No	Discontinuation notices
Sunset Supply Base	NAVSEA	Yes	COTS piece part solutions with OEMs
WebFLIS	DLA	No	Federal total item record
WebLink	DLA	No	Web-based version of PCLink

Name	OPR	Usage
Haystack Gold®	IHS	Combines data from many databases
AVCOM®	BAE	Predictive tool and basic system analysis
Total Parts Plus®	Total Parts Plus, Inc	Predictive tool and basic system analysis
Q-Star®	Q-Tech	Predictive tool and basic system analysis
Sustain	Georgia Tech	System Sustainment Tool
Relex®	Relex	Reliability Tool
PRISM®	SRC	Reliability Tool
ILSmart.com®	ILS	Technical Research Tool
SMART	RAC	Predictive tool and basic system analysis
PartMiner®	PartMiner	Technical Research Tool

- Available Computer Based Training (CBT) Modules at DAU:
 - DMSMS Fundamentals (CLL 201)
 - DMSMS for Executives (CLL 202)
 - DLA DMSMS Essentials (CLL 203)
 - DMSMS Case Studies (CLL 204)
 - DMSMS for Technical Professionals (CLL 205)
 - Preventing Counterfeit Parts (CLL 032)

Developed
By NCI

Developed
by ARINC

- **Bill of Materials (BOM):** a listing of parts and required quantities, electronic, electrical, mechanical and materials, used to identify repair parts or parts needed to produce a system or assembly:
 - A “Flat File BOM” is a BOM that lists parts without indenturing relationships.

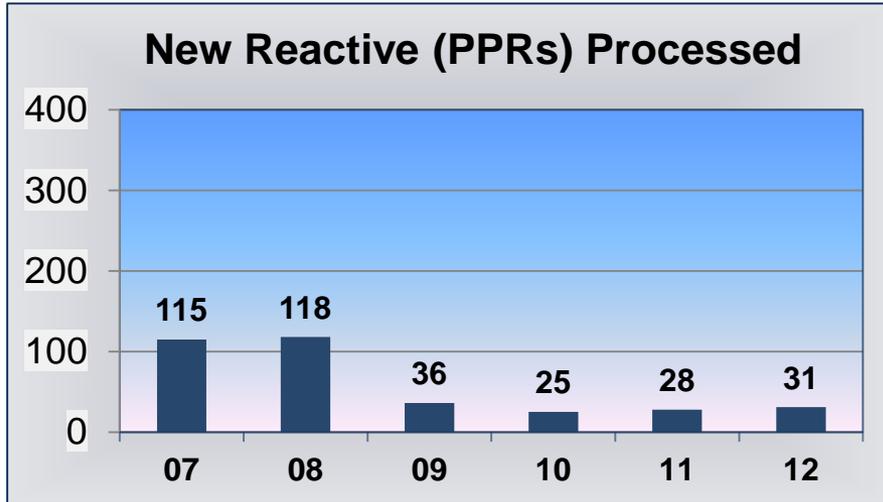
CAGE	Part Number (P/N)
49956	G123456-1
81349	M38510/20302BEA
82577	3100024-54
01295	SNJ54S00

- An “Indentured BOM” is a BOM that shows the relationships of components from component to board, to box, to system; generally in a top down break-out format.

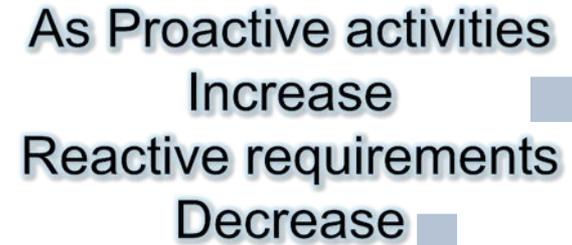
System CAGE	System P/N	Box CAGE	Box P/N	Card CAGE	Circuit Card	Component P/N
49956	System	07187	Box A	07187	Circuit Card	G123456-1
49956	System	07187	Box A	07187	Circuit Card	M38510/20302BEA
49956	System	07187	Box A	09344	Circuit Card 2	3100024-54
49956	System	07187	Box A	09344	Circuit Card 2	SNJ54S00
49956	System	09344	Box B	82577	Circuit Card 1	G123456-1
49956	System	09344	Box B	82577	Circuit Card 1	M38510/20302BEA
49956	System	09344	Box B	49956	Circuit Card 2	3100024-54
49956	System	09344	Box B	49956	Circuit Card 2	SNJ54S00



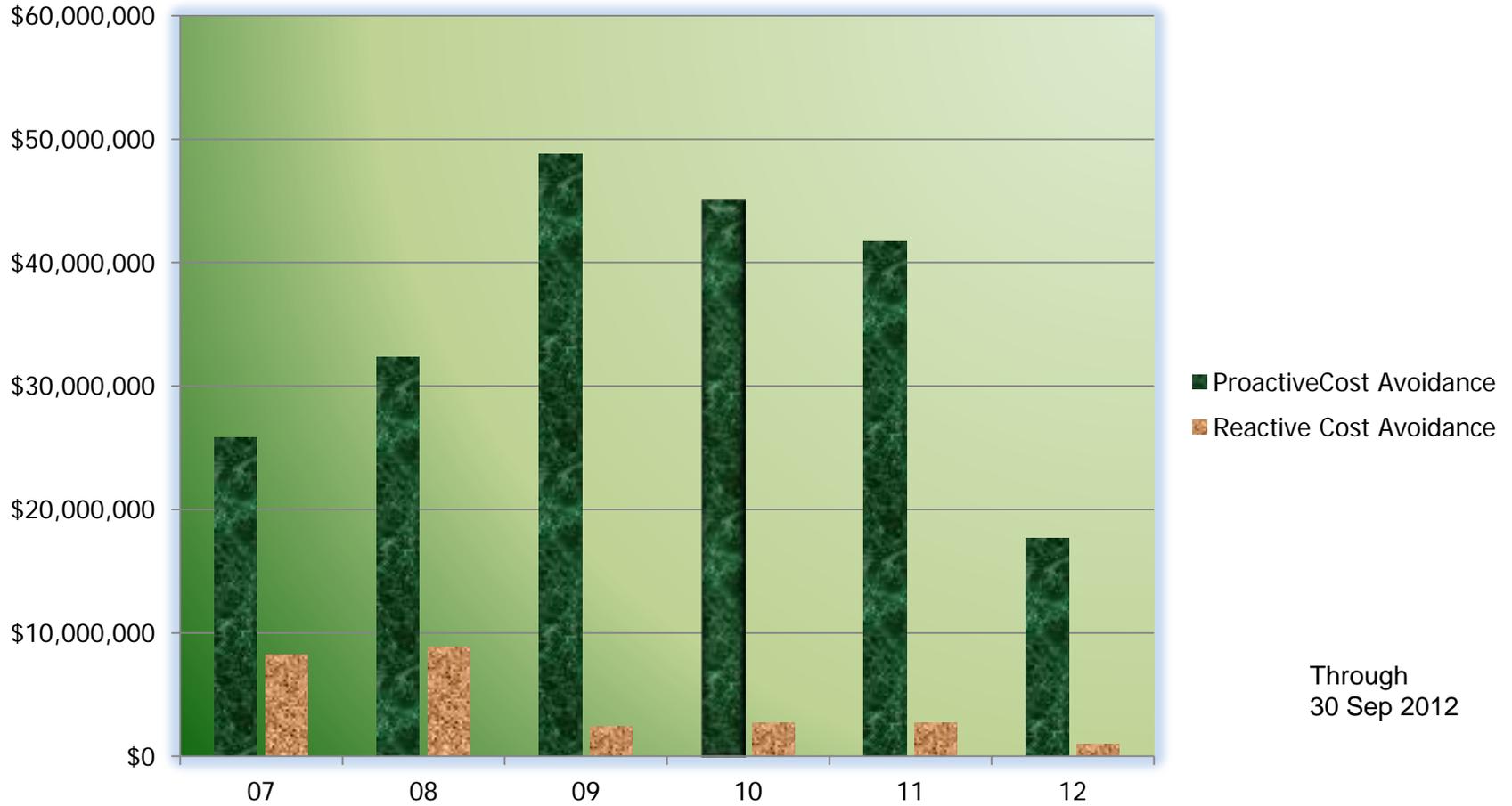
Resolutions



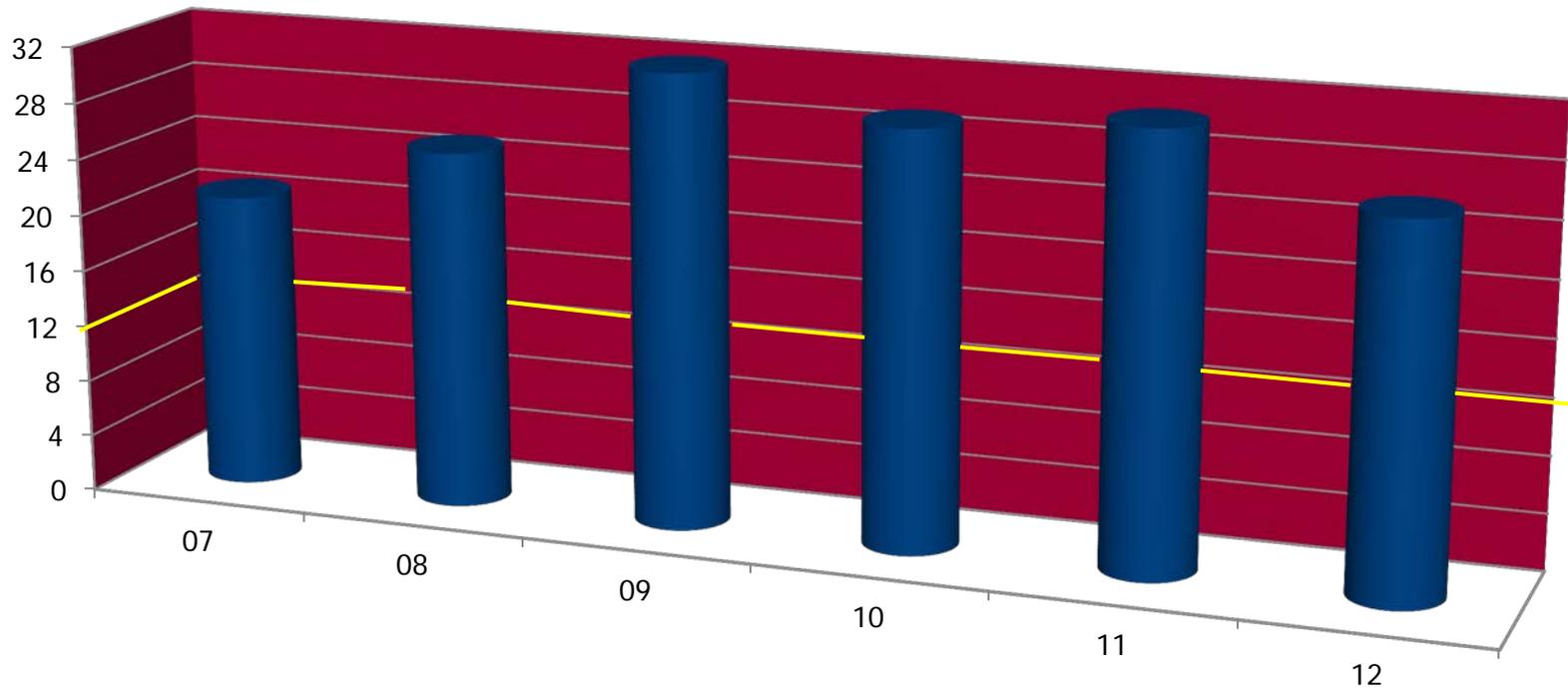
As Proactive activities
Increase
Reactive requirements
Decrease




Cost Avoidance



Return on Investment



Space & C3I DMSMS Analysis & Resolution Program

Using SD-22 for an Award-Winning Program at Hill AFB





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