

DMSMS & Parts Management Programs

DLA Supply Chain Alliance Conference

April 23, 2024

Robin Brown

Parts and DMSMS Management Program Manager

R&E Engineering Systems & Architecture

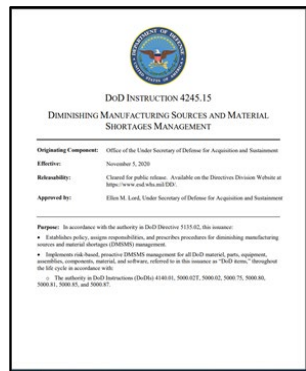
Defense Standardization Program Office

Robin.Brown@dla.mil





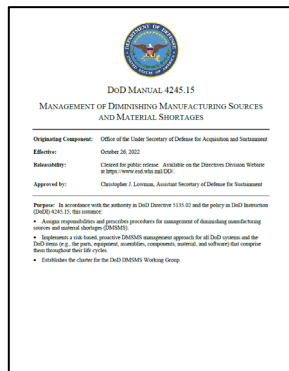
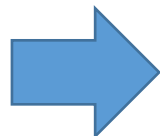
Policy and Guidance



**DoDI 4245.15
DMSMS Management
November 2020**

- Establishes policy
- Assigns responsibilities
- Prescribes overarching procedures

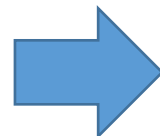
13-page strategic document



**DoDM 4245.15
Management of DMSMS
October 2022**

- Reinforce policy
- Assigns responsibilities
- Prescribes detailed procedures

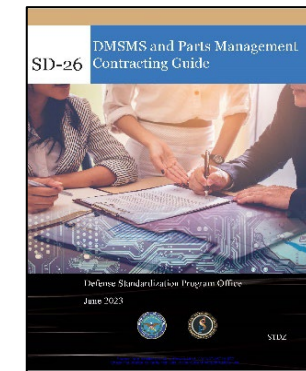
41-page strategic document



**SD-22, DMSMS
Management Guidance,
May 2022**

- Best practices for implementing a robust DMSMS Management Program

335-page guidance document



**SD-26, DMSMS and Parts
Management Contracting
Guidance June 2023**

- DMSMS Contracting best practices
- Parts Management Contracting best practices

79-page guidance document



What is ... DMSMS Management?

Strategic processes weave throughout these steps, to delay or prevent the occurrence of DMSMS issues and increase the likelihood of low-cost resolutions available for implementation.

- DMSMS Management is a multidisciplinary process to:
 - **Prepare** DMSMS Management Program infrastructure
 - **Identify** issues resulting from obsolescence, loss of manufacturing sources, or material shortages
 - **Assess** the potential for negative impacts to schedule and/or readiness
 - **Analyze** potential mitigation strategies
 - **Implement** the most cost-effective resolution strategy

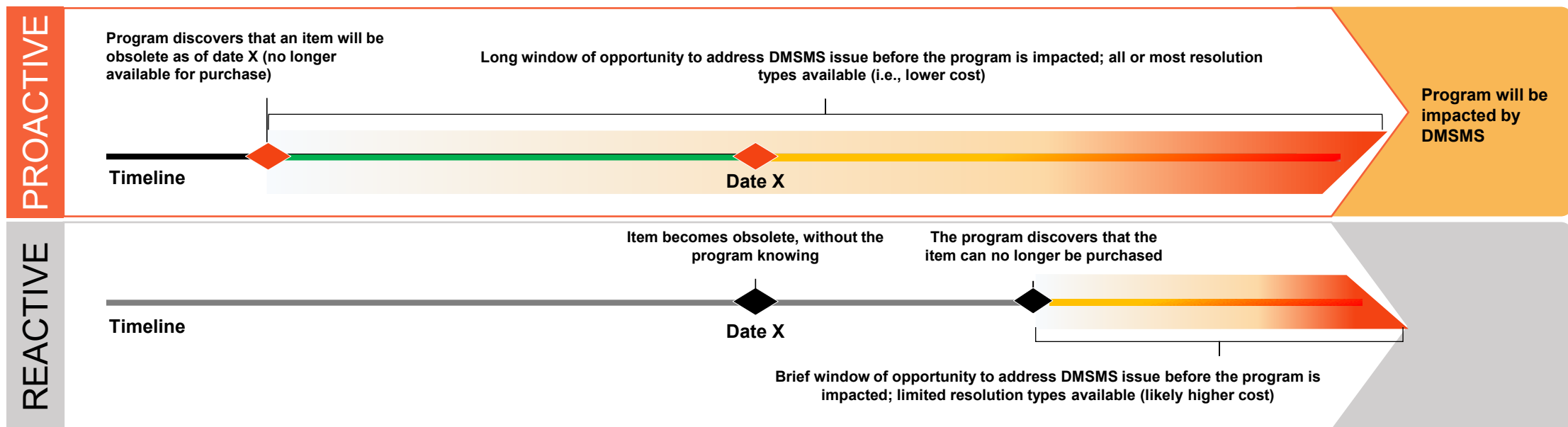


DMSMS Management is a dynamic process and it never ends!



Buys You Time to Make More Cost-Effective Decisions

- DMSMS Forecasting and Resolution -
 - Increases the likelihood of implementing a lower cost resolution / More time to consider all options
 - Eliminate DMSMS-related schedule impacts and readiness degradations
 - Increases operational availability
 - Reduces or controls total ownership cost

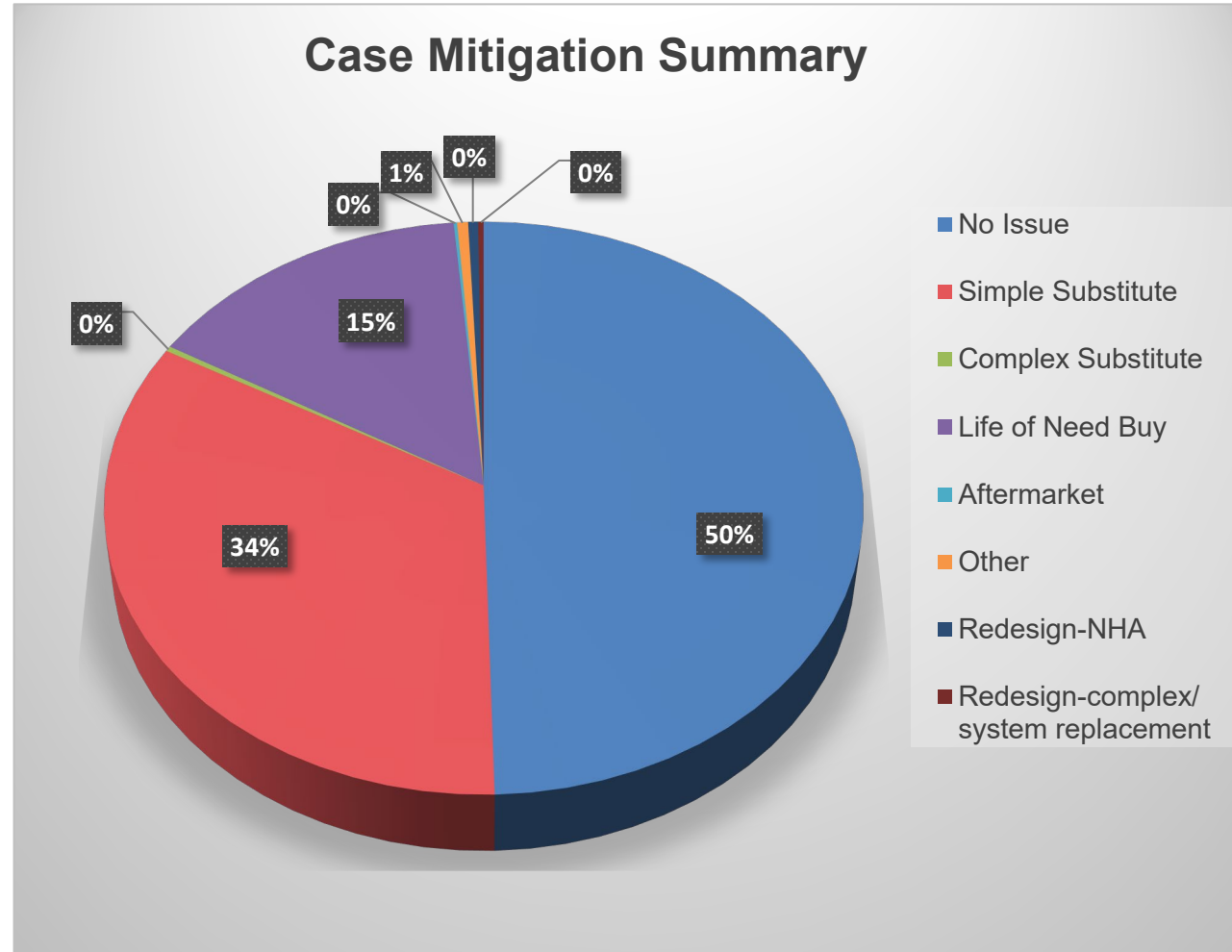


Robust DMSMS management minimizes the impact to Cost, Schedule, and Performance



More Likely to Avoid Out of Cycle Redesigns

| Case Solution | Quantity |
|--------------------------------------|--------------|
| No Issue | 4143 |
| Simple Substitute | 2809 |
| Complex Substitute | 24 |
| Life of Need Buy | 1268 |
| Aftermarket | 13 |
| Other | 42 |
| Redesign-NHA | 38 |
| Redesign-complex/ system replacement | 21 |
| TOTAL | 8,358 |



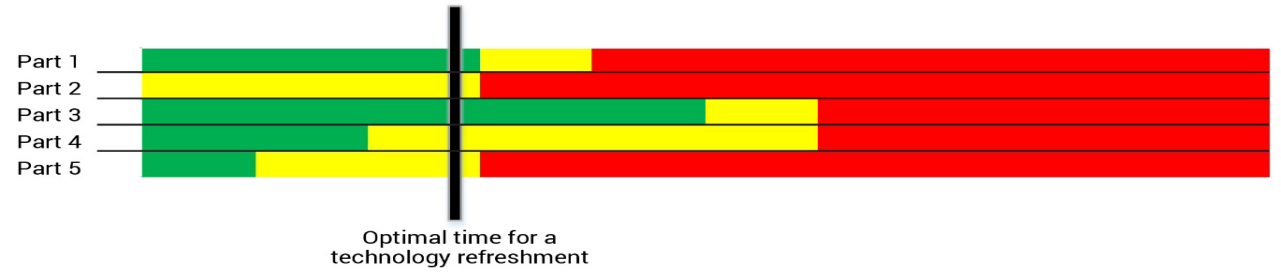
99.3% Cases Resolved without Redesign!



Helps You Prepare & Justify DMSMS Budget Requests

| Level | Display Name | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 |
|-------|---|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| 1 | APL12345::PN54321 Network System, Ship Class 1 | 0.43 | 0.43 | 0.44 | 0.46 | 1.35 | 1.49 | 3.52 | 3.76 | 3.82 | 3.89 | 3.95 |
| 2 | APL23456::PN43210, SERVER ASSY U1 | 0 | 0 | 0 | 0 | 0 | 0 | 2.09 | 2.12 | 2.14 | 2.16 | 2.19 |
| 2 | APL34567::PN32109, SERVER ASSY U2 | 0 | 0 | 0 | 0 | 0 | 0 | 1.81 | 1.83 | 1.85 | 1.87 | 1.89 |
| 2 | APL45678::PN21098, SERVER ASSY U3 | 0 | 0 | 0 | 0 | 0 | 0 | 1.81 | 1.83 | 1.85 | 1.87 | 1.89 |
| 2 | APL56789::PN10987, SERVER ASSY U4 | 0 | 0 | 0 | 0 | 0 | 0 | 1.81 | 1.83 | 1.85 | 1.87 | 1.89 |
| 2 | APL67890::PN09876, SERVER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | APL78901::POWER DIST UNIT (PDU) | 0 | 0 | 0 | 0 | 0 | 2.3 | 2.31 | 2.32 | 2.34 | 2.35 | 2.36 |
| 2 | APL189012::PN198765, SW NETWK | 0 | 0 | 0 | 0 | 1.41 | 1.44 | 4.01 | 4.08 | 4.15 | 4.22 | 4.29 |
| 2 | APL289012::PN298765, SW NETWK | 0 | 0 | 0 | 0 | 1.39 | 1.42 | 3.97 | 4.03 | 4.1 | 4.18 | 4.25 |
| 2 | APL389012::PN398765, SW NETWK | 2.01 | 2.05 | 2.08 | 2.3 | 4.91 | 5.21 | 10.98 | 11.34 | 11.55 | 11.77 | 11.98 |
| 2 | APL489012::PN498765, SW NETWK | 1.88 | 1.92 | 1.95 | 2.16 | 6.02 | 6.32 | 11.77 | 12.14 | 12.37 | 12.6 | 12.83 |
| 2 | APL589012::PN598765, SW NETWK | 1.33 | 1.35 | 1.38 | 1.4 | 2.64 | 2.69 | 5.89 | 6 | 6.11 | 6.22 | 6.33 |
| 2 | APL689012::PN698765, SW NETWK | 1.33 | 1.35 | 1.38 | 1.4 | 2.64 | 2.69 | 5.89 | 6 | 6.11 | 6.22 | 6.33 |
| 2 | APL789012::PN798765, SW NETWK | 1.4 | 1.42 | 1.45 | 1.47 | 2.75 | 2.8 | 6.43 | 6.54 | 6.65 | 6.77 | 6.88 |
| 2 | APL889012::PN898765, SW NETWK | 1.4 | 1.42 | 1.45 | 1.47 | 2.75 | 2.8 | 6.43 | 6.54 | 6.65 | 6.77 | 6.88 |
| 2 | APL989012::PN998765, SW NETWK | 0 | 0 | 0 | 0 | 1.52 | 1.54 | 3.47 | 3.52 | 3.56 | 3.61 | 3.66 |
| 2 | APL089012::PN098765, SW NETWK | 0 | 0 | 0 | 0 | 1.46 | 1.48 | 3.31 | 3.36 | 3.41 | 3.46 | 3.51 |
| 2 | APL555667::Switch, U22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | APL555666::Switch, U22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | APL998866::PN556677, SERVER ASSEMBLY | 0 | 0 | 0 | 0 | 1.3 | 1.31 | 1.32 | 1.34 | 1.35 | 1.37 | 1.38 |
| 2 | APL445588::PN668899 Fiber Optic Cable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.1 | 1.11 | 1.12 | 1.13 |
| 2 | APL228855::PN663399, GIG-E Switch | 0 | 0 | 0 | 0 | 0.9 | 0.91 | 4.2 | 4.27 | 4.34 | 4.41 | 4.48 |
| 2 | APL117744::PN771144, NETWORK SECURITY PROTECTION SYSTEM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2.64 | 2.66 | 2.68 | 2.7 |

- Proactive DMSMS Management:
 - ✓ Allows you to calculate when issues within a subsystem will affect readiness
 - ✓ Helps you determine optimal time for technology refresh
 - ✓ Informs you of what date to buy “end of need buys” up to
 - ✓ Helps you justify budget requests with information to back you up
- You will more likely be successful in obtaining a budget line item that is funded across FYDP for DMSMS Management Operations and Resolutions





Program Office & Services Requirements

■ Program Offices:

- ✓ Develop and Update DMSMS Management Plan
- ✓ Maintain Data
- ✓ Evaluate Designs for DMSMS
- ✓ Mitigate Risks
- ✓ Program and Budget for Operations and Resolutions
- ✓ Include Provisions in Contracts for Reporting, Technical Data, Exit Strategy
- ✓ Evaluate Activities during Logistics Assessments and Technical Reviews
- ✓ Resolve Issues in a Timely Manner
- ✓ Communicate with Supply Organizations to Mitigate Risk
- ✓ Train their Workforce

■ Services:

- ✓ Establish DMSMS management policy, guidance, and training
- ✓ Designate a lead office
- ✓ Designate Working Group member
- ✓ Confirm adequacy of risk evaluation in technical reviews
- ✓ Establish metrics and internal reporting requirements
- ✓ Share cases with GIDEP
- ✓ Direct supply organizations to identify and communicate issues and risks
- ✓ Direct acquisition organizations to follow procedures
- ✓ Coordinate with other organizations to address risk



OSD Responsibilities

▪ USD (Acquisition & Sustainment)

- Establish DMSMS management policy, guidance, and training
- Mitigate DMSMS risk throughout the life cycle

▪ ASD (Acquisition)

- Integrate risk-based, proactive DMSMS management processes in policy, guidance, and training
- Address DMSMS impacts over the life cycle
- **Standardize DMSMS contract language**
- Designate Working Group member
- Support ASD(S) in monitoring

▪ ASD (Sustainment)

- **Serve as the DOD principal for DMSMS**
- **Establish Working Group and appoint a co-chair**
- Integrate DMSMS management into policy, guidance, and training
- **Monitor overall effectiveness and efficiency**

▪ Defense Contract Management Agency (DCMA)

- Integrate DMSMS management into policy, guidance, and training
- **Surveil contractor's DMSMS activities**
- **Communicate risk to DoD customers**
- Designate Working Group member

▪ DASD (Industrial Policy)

- Integrate DMSMS management into policy, guidance, and training
- Communicate industrial base DMSMS issues to DoD Components and assist in resolutions
- Support ASD(S) in monitoring
- **Establish Priority Allocation of Industrial Resources Task Force to address issues**
- Designate Working Group member

▪ USD (Research & Engineering)

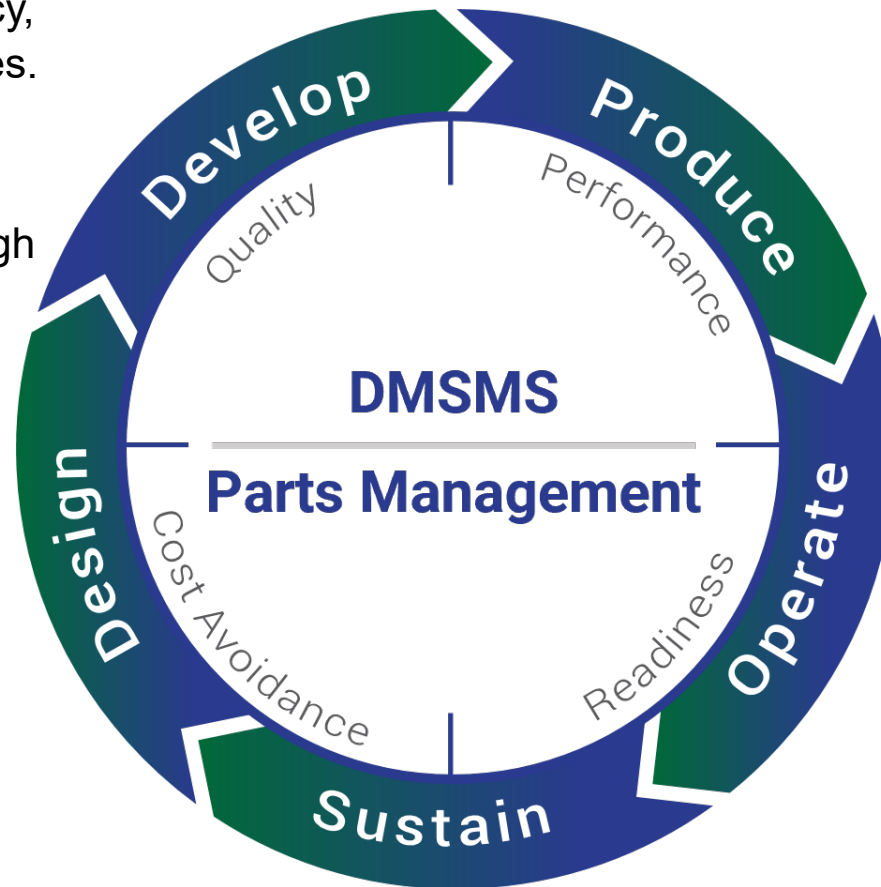
- Integrate DMSMS management into policy, guidance, and training
- Support ASD(S) in monitoring
- **Provide technical assistance to Components**
- Designate a Working Group co-chair
- **Define DMSMS GIDEP requirements**



DMSMS & Parts Management Working Groups

DMSMS Management

- Create and revise DoD DMSMS policy, guidance, and management strategies.
- Champion proactive DMSMS management best practices, synergies, and standardization through education, training, and outreach in DoD and industry.
- Define and assess DMSMS management effectiveness across DoD.
- Establish and pursue DoD-wide strategic DMSMS objectives.
- Prepare and publish guidance documents.
- Facilitate common, collaborative resolutions to crosscutting DMSMS issues.



Parts Management

- Review and revise DoD parts management policy and guidance;
- Assess the effectiveness of DoD parts management activities;
- Research, find, and promote parts management best practices across DoD and industry;
- Prepare and publish SD-19, "Parts Management Guide;"
- Prepare and publish Military Standard (MIL-STD) 11991, "General Standard for Parts, Materials, and Processes"
- Promote parts management education and engagement; and
- Establish and pursue DoD-wide parts management strategic objectives.



DMSMS Policy Implementation Assessment

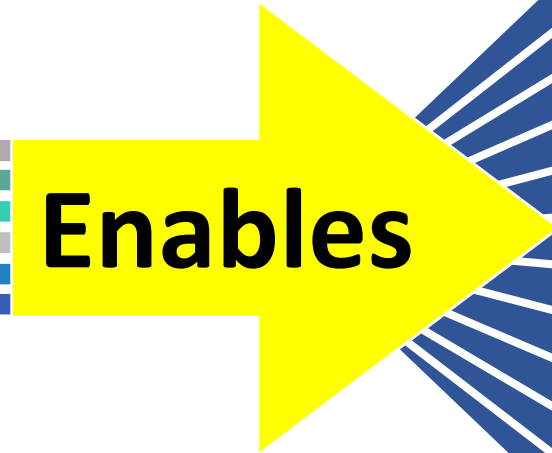
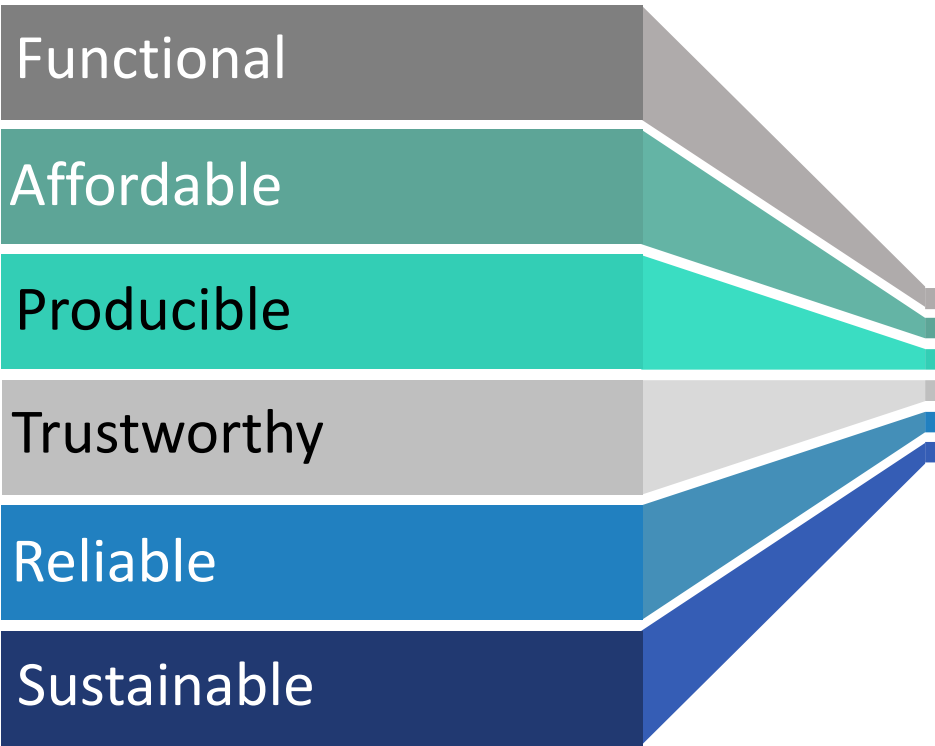


- Determine the extent to which the Military Departments are following DMSMS policy
 - Provides improved understanding to enable additional, more targeted DMSMS management process assistance.
- Identify and rank challenges and obstacles to implementing and benefitting from DMSMS policy
 - Helps practitioner community gain insight into the types of additional resources and strategic objectives to pursue to further mature DMSMS management policy, guidance, training, and tools.
- Characterize the scope and scale of DMSMS risk facing DoD systems to inform senior leaders.
 - Helps DMSMS management community better characterize the DMSMS risk faced by to the Department
 - Alleviates leadership assumption that Program Offices are not engaged in proactive DMSMS management
- Establish a baseline against which to measure the effect of DMSMS policy.

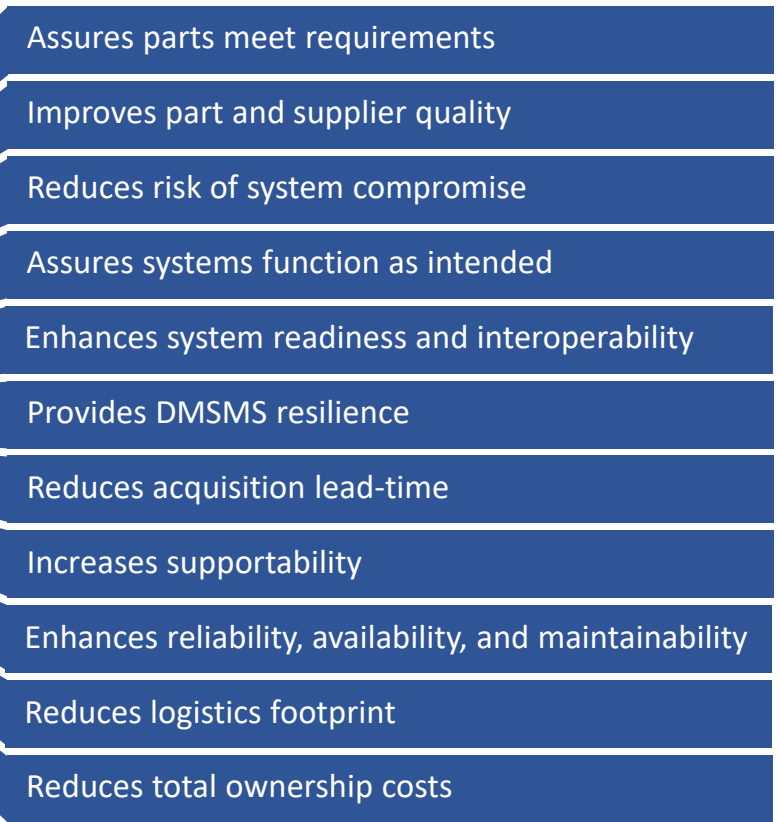


Parts Management Improves System Outcomes

Effective Parts Selection and Management Yields Parts That Are:



Better System Outcomes:



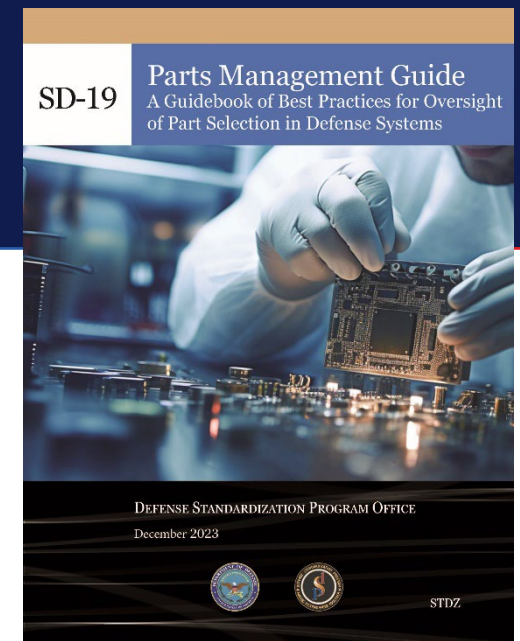
Part selection decisions impact all aspects of system operation & sustainment costs



SD-19 Parts Management Guidebook

Definitions, Responsibilities, Importance, Policy and Guidance

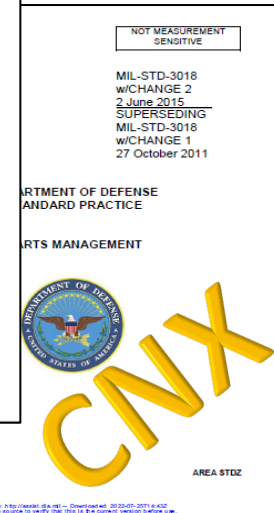
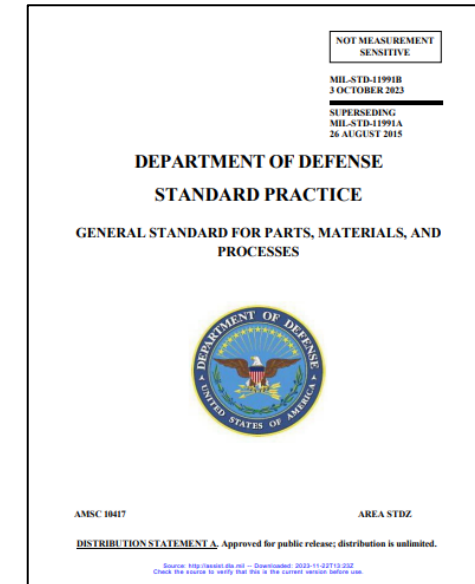
- Program Offices should make an initial assessment of the specific risks associated with parts selection, procurement, and use on the systems of interest
- Program Offices should determine the type and extent of oversight necessary to reduce risk to an acceptable level
- Program Offices should secure sufficient subject matter expertise to conduct oversight
- Based on the risks and available subject matter expertise, Program Offices should develop, approve, and implement a risk-based government Parts Management Plan to:
 - Oversee contractors' Parts Management activities and ultimately the parts selected for system designs and part selections made during production and sustainment
 - Ensure sound parts selection, procurement, and usage when design or support/sustainment activities *performed or provided* organically by the government (where applicable)
 - Mitigate the risks associated with changes to parts selected



Program Office's Parts Management Program

Recordkeeping and Metrics

Tools and Training





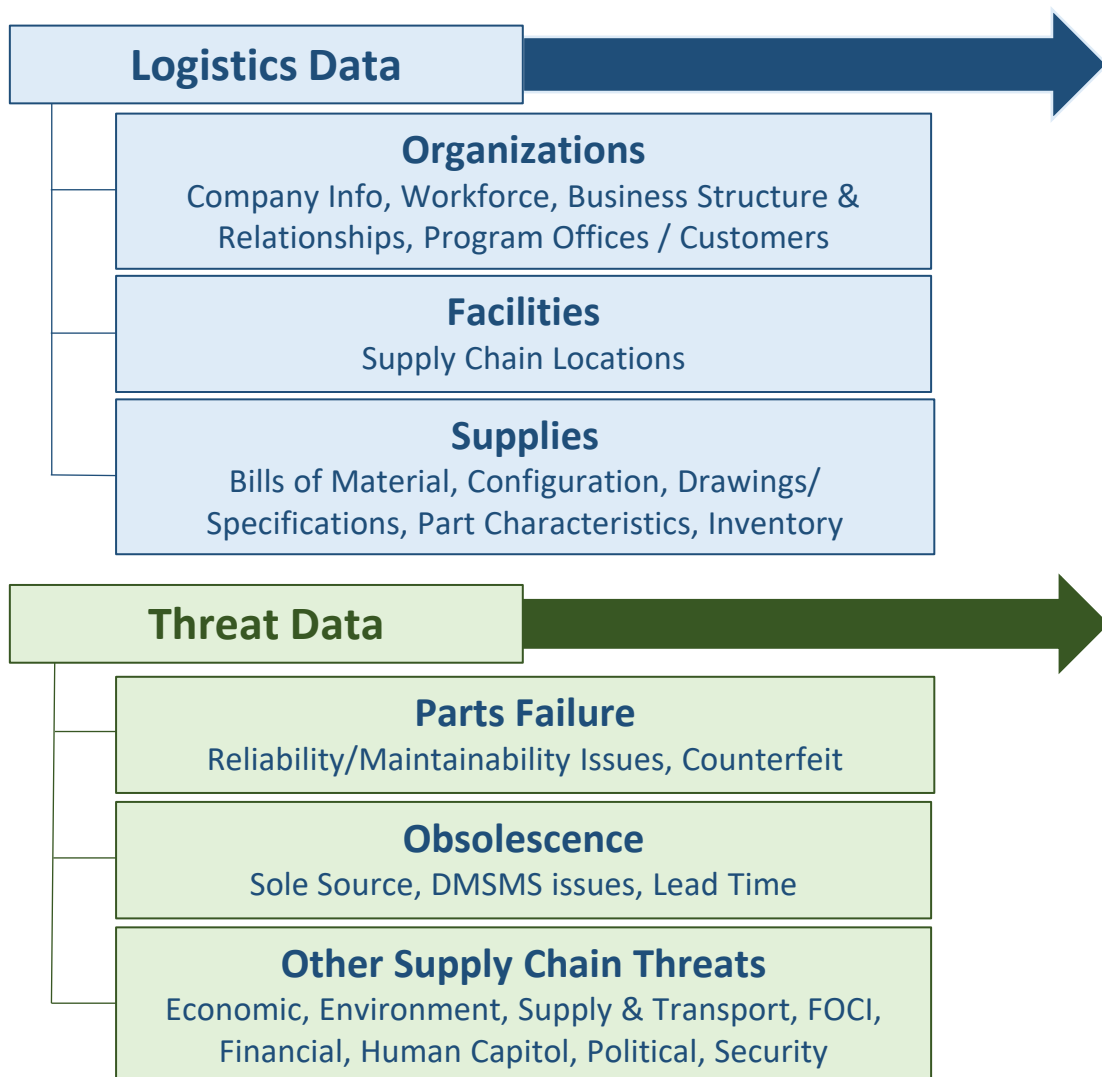
Parts Management Policy

- Effective parts management is important to the long-term success of DoD programs.
- Parts management is mentioned in DoDI 5000.88; however, the policy does not comprehensively address the procedures for parts management for applicable DoD systems.
- The new DoDI on Parts Management will -
 - Establish policy, responsibilities, and procedures for parts management throughout the lifecycle of all applicable DoD systems.
 - Be consistent with the new parts management oversight paradigm in the SD-19.
 - Implement the parts management oversight process for parts selection during system design and modification as well as for part changes during production and sustainment - ensures the most optimum parts are used in weapon systems and equipment.
 - Require the MILDEPs to maintain parts management record keeping and report information to support assessing and improving the DoD's parts management effectiveness.

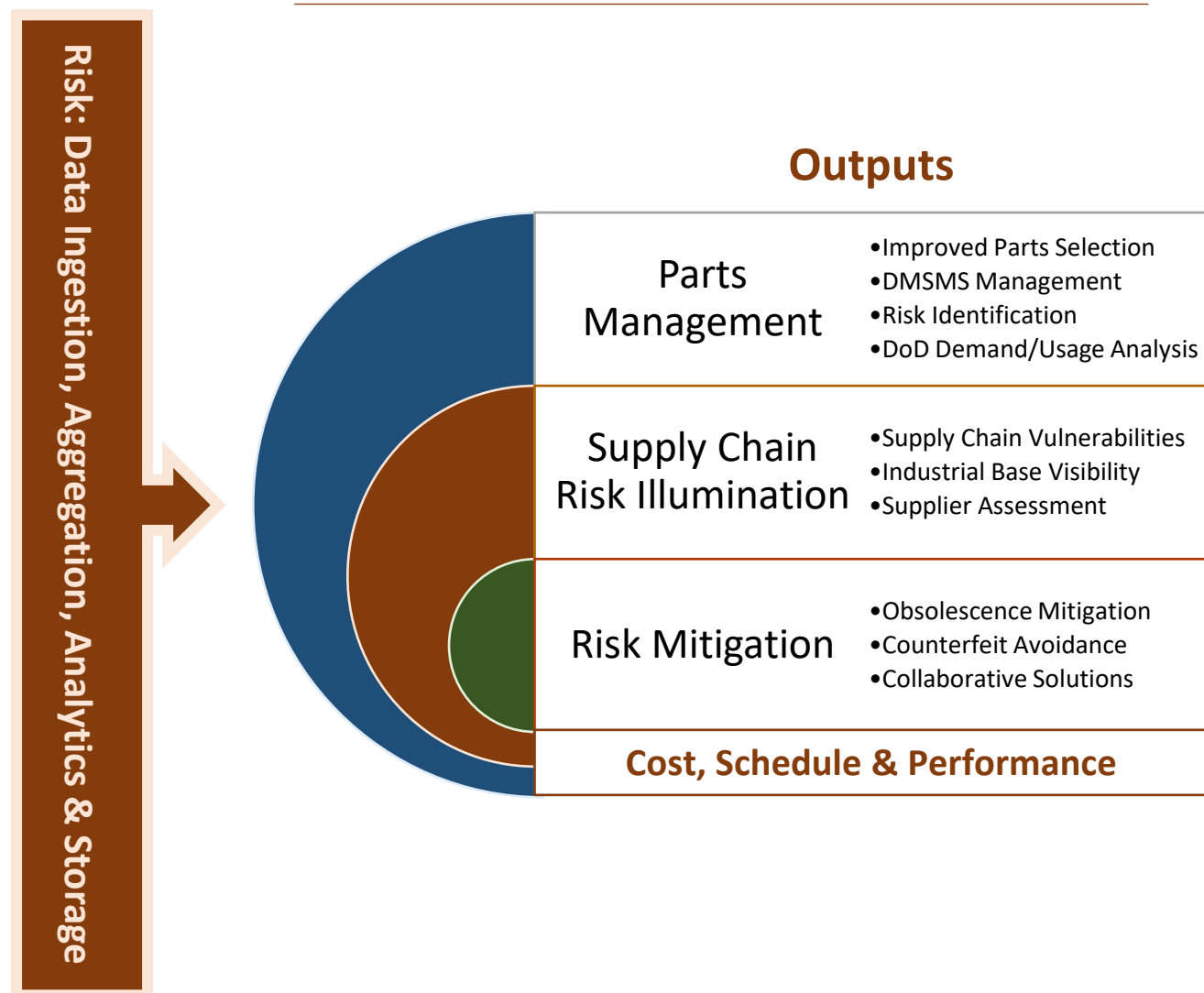


Enterprise Parts Management System (EPMS)

Inputs (Multiple Sources from Commercial & Government)



Secure, DoD-Wide Solution for Managing Microelectronics





Training, Networking Opportunities, and Recognition

Working Groups

- May 14-15, 2024 (virtual)
- August 2024 (DMEA)
- December 2024 (virtual)

Webinars

- Monthly DAU (see back-up)



Conferences

- October 21-25, 2024, IIOM Symposium (Williamsburg, VA)
- August 11-15, 2025, DMSMS & Parts Management Conference (Ponte Verda, FL)



Awards

- Call for nominations (August 2023)
- Deadline (December 29, 2023)
- Winners (March 27, 2024)
- Award Ceremony (August 6, 2024)





CLCL 014A Parts and Material Life Cycle Management Credential

- Deployed February 2022 and January 2023; 14 On-line Training Courses (~40 hours)
- Provides a comprehensive overview of DoD DMSMS and Parts Management
- Topics also include Counterfeit Prevention, Additive Manufacturing, and Provisioning, Sustaining Engineering, among others
- You may Register for DAU training at <https://www.dau.edu/training/p/apply-for-a-course> and access online training course materials

- ✓ CLE 019 Modular Open Systems Approach
- ✓ CLE 026 Trade Studies
- ✓ CON 0040 Market Research
- ✓ LOG 0320 Preventing Counterfeit Electronic Parts from Entering the DoD Supply System
- ✓ LOG 0380 Provisioning and Cataloging
- ✓ LOG 0390 Additive Manufacturing Overview
- ✓ LOG 0400 Additive Manufacturing Case Studies
- ✓ LOG 0470 Sustaining Engineering
- ✓ LOG 0510 System Retirement, Disposition, Reclamation, Demilitarization & Disposal
- ✓ LOG 0630 Introduction to Parts Management
- ✓ LOG 0640 Diminishing Manufacturing Sources and Material Shortages (DMSMS): What the PM Needs To Do and Why
- ✓ LOG 0650 Diminishing Manufacturing Sources and Material Shortages (DMSMS) Fundamentals
- ✓ LOG 0660 Diminishing Manufacturing Sources and Material Shortages (DMSMS) Executive Overview
- ✓ LOG 0670 Diminishing Manufacturing Sources and Material Shortages (DMSMS) Basic Component Research



DMSMS & Parts Management Knowledge Sharing Portals

- Repositories of DMSMS and Parts Management related information and tools, policy and guidance, training, and document libraries
- Intended for DoD and Industry acquisition communities
- Supports implementation of best practices for monitoring, tracking and resolving DMSMS and Parts Management issues

Accessing the Portals -

DKSP: <https://www.dau.edu/cop/dmsms/>

PMKSP: <https://www.dau.edu/cop/pmksp/>

DAU Training Resources Topic Areas About DAU Help My Training My Transcripts Sign In

Home > Communities Of Practice > DMSMS Knowledge Sharing Portal

COMMUNITY

DMSMS KNOWLEDGE SHARING PORTAL

The DMSMS Knowledge Sharing Portal (DKSP) is focused on being a non-biased one-stop provider of DMSMS related information, resources and material to empower the Department of Defense (DoD) community, both Organic and Industrial, to implement best practices for monitoring, tracking, resolving, and performing analytical logistic and engineering analysis related to obsolescence impacts.

You must sign in to join this group

Members

HOME DISCUSSIONS EVENTS ANNOUNCEMENTS RESOURCES DOCUMENTS

DAU Training Resources Topic Areas About DAU Help My Training My Transcripts Sign In

Home > Communities Of Practice > Parts Management Knowledge Sharing Portal

COMMUNITY

PARTS MANAGEMENT KNOWLEDGE SHARING PORTAL

The Parts Management Knowledge Sharing Portal (PMKSP) is designed to provide an easily accessible knowledge base for parts management related information and a forum for parts management related discussions. The purpose of the DoD Parts Management Program is to establish parts management best practices across DoD in order to increase weapon system availability and reduce total ownership costs. Selecting preferred parts during weapon system design drives positive outcomes throughout the life cycle of a system.

You must sign in to join this group

Members

HOME DISCUSSIONS EVENTS ANNOUNCEMENTS RESOURCES DOCUMENTS



Questions ??



TOGETHER EVERYONE ACHIEVES MORE!



Back Up Slides



CY23 DAU DMSMS & Parts Management Proven Processes Webinars

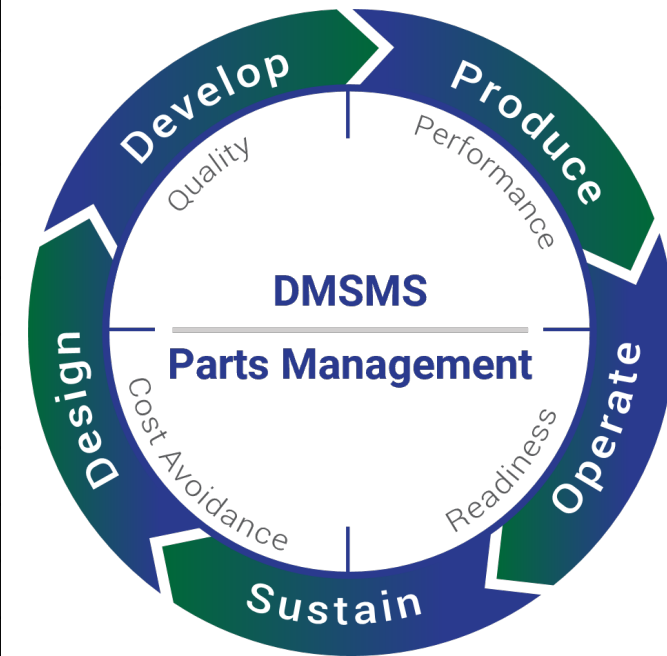
| Month | Title | Description |
|-------|--|--|
| Mar | Laying Down the Law: DMSMS and Parts Management Policy and Guidance | Overview of relevant policy and guidance addressing DMSMS activities. |
| Apr | Setting Yourself Up for Success: Newly Published Manual on DMSMS Management (DoDM 4245.15) | Overview of DoDM which provides mandatory procedures for implementing DoD Instruction 4245.15 on DMSMS Management. |
| May | DMSMS Management Best Practices and Lessons Learned: SD-22 DMSMS Guidebook | The SD-22 provides best practices for implementing an effective DMSMS management program throughout a system's life cycle. |
| Jun | What Makes Them So Great: DMSMS Management Achievement Award Winners | A panel of team, individual, and lifetime DMSMS award winners draw on their perspectives and knowledge to stimulate a lively discussion of how DMSMS management should evolve. |
| Jul | Effective Communication: Increase the Impact of Your Ideas | Recalibrate your thoughts on effective communication using skills from disciplines such as psychology, copywriting, negotiation, and storytelling. |
| Aug | The Benefits of DMSMS Recordkeeping | Connect the dots on why we need good recordkeeping, and the impacts it can have on programs--helps establish, defend, and execute DMSMS requirements! |
| Sep | SD-19 Parts Management Guidance | Overview of new SD-19 Guidebook and its role in establishing Parts Management Plans early in development to dramatically affect Availability and Affordability over the entire life cycle. |
| Oct | If You Don't Put it on Contract, It Won't Get Done: SD-26 DMSMS and Parts Management Contracting Guide | Spotlights the SD-26 as the "must have" resource to obtain clear and concise contracting language to deliver the support your program deserves! |
| Nov | Designing for Resilience | DMSMS awareness starts with system design and embodies parts resilience. Panel of govt/industry SMEs discuss challenges & opportunities to promote sustainment. |

The [DMSMS and Parts Management Proven Processes](#) webinar series will continue to be the one-stop shop for all things DMSMS and Parts Management webinars! With your feedback, we continue to refine topic delivery to bring value to the community.



CY24 DAU DMSMS & Parts Management Proven Processes Webinars

| Date | Title |
|---------------|--|
| Jan 18th, 1pm | Obsolescence Strategy vs Action – Who Has Time To Think!? |
| Feb 15th, 1pm | Stop Acting Surprised--Program and Budget for DMSMS! |
| Mar 21st, 1pm | Begin with the End in Mind--Technology Management |
| Apr 10th, 2pm | Ideas for Enhancing DCMA Support |
| Apr 18th, 1pm | No Plan Ever Failed Due to Good Planning |
| May 23rd, 1pm | Risk Based Approach: What Does that Mean for DMSMS and Parts Management? |
| Jun 20th, 1pm | CDRL and DID 101 (DMSMS and Parts Management) |
| Jul 18th, 1pm | DMSMS and Parts Management--How Can I Convince Leadership to Do This? |
| Aug 15th, 1pm | Supply Chain Risk Management and Supply Chain Resiliency |
| Sep 19th, 1pm | How to Effectively Research Parts |
| Oct 17th, 1pm | Practical Uses of the Capability Matrix in DMSMS Management Planning |
| Nov 21st, 1pm | Redesign & End of Need Buys Are Not Your Only Options! |
| Dec 19th, 1pm | Day in the Life of DMSMS and Parts Management Practitioners |



Webinars are typically scheduled at 1pm Eastern Standard Time and will vary from 60 to 90 minutes based on panel composition. Check the [DMSMS and Parts Management Proven Processes](#) webinar series site for ongoing updates!