NEXT GENERATION MATIERIEL READINESS FORGED THROUGH DATA ADVANTAGE, TECHNOLOGY, AND INNOVATION
Military Service Town Halls

Tuesday, December 13, 2022, 1:00 p.m. – 2:30 p.m. | WH4 A-B

Navy Town Hall

OBJECTIVE
To provide an interactive forum by which discussions between senior Department of the Navy leadership and the maintenance and sustainment community focusing the Department and us as we fight. The follow-up refinement, feedback, and dialogues regarding Navy and Marine Corps strategic objectives is paramount to the Department’s ability to tactically adapt to a constantly changing threat environment. Resource constrained, requirements driven operating environment.

ABSTRACT
The Navy/Marine Corps teams’ ability to deliver reliable, affordable, maintainable, and operationally available weapons systems is vital to our national security interests. The ability to project combat power for sustained operations to deter malign actors, blunt hostilities, and respond to disasters and crises while a strategic buffer to also maintain our extended regional and global capabilities to deter the credibility on our forces deliver a global edge. The Department of the Navy is currently transforming our maintenance and sustainment enterprise to meet the demands of the future operating environment and support force modernization initiatives led by the Chief of Naval Operations and Commandant of the Marine Corps. The Navy Town Hall will provide opportunities to engage with these leaders who integrate the capabilities and resources to meet these demanding challenges and understand the relationships, requirements, resources/execution, and technology innovation opportunities to accelerate achieving the Department’s strategic objectives. Following a brief overview, a facilitated Q&A session will be held.

MODERATOR:
Ms. Erica Path
Deputy Assistant Secretary for the Navy for Sustainment

PANELISTS:
Major General Keith Terriere
Commanding General
Marine Corps Logistic Command

Mr. James Moone
Director of Final Readiness
OPRAM/NE35

Tuesday, December 13, 2022, 1:00 p.m. –2:30 p.m. | W414 A-B

Panel:  DevSecOps in DoD Weapon Systems

Overview:  Air Battle Management

Topic 1:  Why Architecture Matters for Open System Environments

Topic 2:  Transitioning Software Bill of Materials to ARChitecTure (SBA)

Topic 3:  Systems; Is it possible?  If so, how?

Topic 4:  Command System Engineering

Keynote Speaker:  Mr. Steve Morani, PDASD(S)
8:45 a.m. | Keynote Speaker:  Mr. Steve Morani, PDASD(S)
9:05 a.m.– 9:30 a.m.

Keynote Speaker: Ms. Sarah Standard, OUSD R&E, ED, DTE&A
3–4:30 p.m.

MODERATOR:
Mr. James Moone
Director of Final Readiness
OPRAM/NE35

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Mr. James Moone
Director of Final Readiness
OPRAM/NE35

Next Generation Materiel Readiness Forged through Data Advantage, Technology, and Innovation | 5
The current international security environment is defined by the re-emergence of strategic competition, rising uncertainties, and technological silos. Within this context, Department of Defense (DOD) and Department of the Air Force (D-AF) strategic guidance underscores a portfolio competitive with pacing adversaries. Strategy and logistics are angles perishable means of competition, and we are therefore keen on preserving strategic competitive space, requiring components of integrated deterrence, andoptimized sustainment of DAF power projection now across the future. We must view developing the logistic, operational, and force protection capabilities needed to compete, deter, and win against pacing adversaries as a strategic imperative.

ABSTRACT

The importance of sustainment innovation development and adoption is increasingly relevant as we strive to accelerate materiel availability by improving the effectiveness and availability of critical data. LTG Charles R. Hamilton, the Deputy Chief of Staff, G-4 will convene a panel of senior leaders across the Army Sustainment Enterprise.

The Army’s Drive Towards Predictive Logistics

OBJECTIVE

Provide a thought-provoking, senior-level discussion about how the Army is increasing sustainment readiness through maintenance-specific data analytics to improve material readiness, control life cycle costs, and sustain organizational efficiencies throughout the Army Sustainment Enterprise.

ABSTRACT

The importance of sustainment innovation development and adoption is increasingly relevant as we strive to accelerate materiel availability by improving the effectiveness and availability of critical data. LTG Charles R. Hamilton, the Deputy Chief of Staff, G-4 will convene a panel of senior leaders across the Army Sustainment Enterprise and lead you to discuss the collective drive toward speed and agility. Predictive Logistics across the Total Army to position itself and the Joint Force for Large-Scale Combat Operations in multiple domains. 

Air Force Town Hall

OBJECTIVE

Provide senior-leader perspective and foster compelling discussion of strategic imperatives shaping DAF’s logistics and logistics enterprise strategy.

ABSTRACT

The current international security environment is defined by the re-emergence of strategic competition, rising uncertainties, and technological silos. Within this context, Department of Defense (DOD) and Department of the Air Force (D-AF) strategic guidance underscores a portfolio competitive with pacing adversaries. Strategy and logistics are angles perishable means of competition, and we are therefore keen on preserving strategic competitive space, requiring components of integrated deterrence, and optimized sustainment of DAF power projection now across the future. We must view developing the logistic, operational, and force protection capabilities needed to compete, deter, and win against pacing adversaries as a strategic imperative.
Next Generation Materiel Readiness Forged through Data Advantage, Technology, and Innovation | Thursday, December 15, 2022 | 8:30 a.m.–12:30 p.m. | W222 A-B

ASSOCIATED MEETINGS

TUTORIALS

THE DAVENPORT GRAND
WASHINGTON ST
38 |The 2022 Department of Defense Maintenance Symposium

Secretary 
of Defense ... MEETINGS
D
B
W315
A
B
W314
A
W320
CHAPIN
THEATER
EXHIBIT 
HALLS BELOW
LEVEL3

Tuesday, December 12, 2022
8:45 a.m. – 9:00 a.m.
Chapin Theater

Mr. Gregory Little
Chief Digital and Artificial Intelligence Office, OSD

Partnerships: Objectives for Building Organic Software Tutorial: An Intense Workshop on Discussion Arrangements

Tuesday, December 12, 2022
9:00 a.m. – 9:30 a.m.
Chapin Theater

Captain William M. Shepherd
USM (Ret.)

Senior Researcher

Systems Engineering Research Center at Stevens Institute

William Shepherd has served as a Company, NASA Astronaut, and Program Manager in the Department of Defense with the Department of Defense, and has served as the Chair of the Board of Directors of the National Defense University. Prior to this assignment, Mr. Little served as Deputy Comptroller for Business Process and Management in the Office of the Under Secretary of Defense (Comptroller) in January 2021. In this role, he serves as an advisor to the OSD’s, DoD’s Principle Staff Advisors and Deputy Secretary. He is responsible for advancing the National Defense Strategy by leading and managing the Defense Business Council. He is leading a management strategy through collaboration with external and internal partners in the use of data to evaluate, digital transformation, and improved performance across the Defense Agencies/Field Activities as well as the DoD’s Working Capital Fund. Mr. Little holds a Bachelor of Arts in Economics degree from Bates College and has studied abroad at James Cook University in Queensland, Australia.

Bates College and has studied abroad at James Cook University in Queensland, Australia. He has served across the U.S. Army and the Joint Force for more than three decades. Mr. Little retired as a U.S. Marine in 1994 and entered the Army Civil Service as an Army Maintenance Management Intern in 1988. He holds an MS degree from the National War College and an MBA from Marietta University.

In March of 2022, Mr. Gregory Little was appointed Deputy Chief Digital and Artificial Intelligence Office of the Defense Business Ethics Directorate. He oversees the Business Analytics and Strategic Insights, Enterprise Platforms and Capabilities and Strategic Sustainment and Cybersecurity Subdivisions.

As ASD(I), Mr. Little is the principal staff advisor and advisor to the Under Secretary of Defense for Acquisition and Sustainment (FAA(I)), Deputy Assistant Secretary of Defense for Acquisition and Secretary of Defense on DoD logistics, material readiness, and product support. On behalf of the OSD, Mr. Little serves as the Principal Staff Advisor to the Deputy Secretary of Defense and as the principal staff advisor to the OSD’s Deputy Assistant Secretaries. Mr. Little oversees the Defense Logistics Agency and Defense McNamara’swreedy Activity and the principal logistics official within senior DoD management.

He has served across the U.S. Army and the Joint Forces for more than three decades. Mr. Little retired as a U.S. Marine in 1994 and entered the Army Civil Service as an Army Maintenance Management Intern in 1988. He holds an MS degree from the National War College and an MBA from Marietta University.

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He has served across the U.S. Army and the Joint Forces for more than three decades. Mr. Little retired as a U.S. Marine in 1994 and entered the Army Civil Service as an Army Maintenance Management Intern in 1988. He holds an MS degree from the National War College and an MBA from Marietta University.
MEMORANDUM FOR 2022 DOD MAINTENANCE SYMPOSIUM ATTENDEES

Monday, December 12, 2022, 08:30 a.m.–10:00 a.m. | W314 A-B
Tuesday, December 13, 2022, 10:00 a.m.–11:20 a.m. | Chapin Theater
Wednesday, December 14, 2022  8:00 a.m. – 9:30 a.m.  Chicago Theater

Sincerely,

Vic S. Ramdass, Ph.D
Assistant Secretary of Defense for Science, Technology, and Innovation
Next Generation Materiel Readiness Forged through Data Advantage, Technology, and Innovation

MODERATOR:
Mr. Steven J. Marani
Principal Deputy Assistant Secretary of (Sustainment) Officer of the Assistant Secretary of Defense (Sustainment)

PANELISTS:
Lieutenant General Charles R. Haldeman, USA
Deputy Chief of Staff, G-4
United States Army

Lieutenant General Edward D. Beutel, USMC
Deputy Commandant for Installations and Logistics
United States Marine Corps

Vice Admiral Rick Williams
Deputy Chief of Naval Operations for Fleet Readiness and Logistics, 64 Officer of the Chief of Naval Operations

Your Adhere Andy Kyte, MCD
Project Director Increasing Defence Outputs
A Chief Retail Logistics Officer
UK STRACM
Ministry of Defense

Mr. Daniel A. Pri
Assistant Chief of Staff for Logistics, Engineering and Force Protection
Headquarters U.S. Air Force

Ms. Kristina M. O’Brian
Principal Deputy Director for Logistics, Joint Staff J4

Wednesday, December 14, 2022 | 2:30 p.m.–5:30 p.m. | O Douglas Theater
Contested Logistics: The Red Ball Express May Not Be Right Behind You

OBJECTIVE
Holistic potential threats, mechanisms, and vulnerabilities to analyzing logistics operations during a highly volatile, near-peer conflict. Present innovative solutions and opportunities to shift from traditional sustainment paradigms with creative models that may secure the distribution of essential warfighting munitions, fuel, food, water, consumable materials, and equipment for near-peer competition.

ABSTRACT
Record world events presented exceptional case studies on the importance of advanced planning and synchronized supply lines for large military units on the one hand as well as distributed arsenals. The 2022 National Defense Strategy defines China as America’s most consequential strategic competitor, with scale, body from the first modernized forces from North Korea, Iran, and extremist organizations. To win decisively in campaigns against such forces, planners have spent the energy of well-stocked garrisons and traditional freedoms of movement as in the past. The World will rapidly maneuvering central forces in those theaters will be a dynamic logistics enterprise that is resilient, survivable, flexible, and responsive. Beyond adapting tactics, technologies, and procedures, what organizational and technological changes are required to assure vital logistics function? The panel will explore innovations, technologies, and informational capability as force multipliers for optimizing to overcome critical sustainment factors such as time and distance.
Wednesday, December 14, 2022, 10:30 a.m. – 12:05 p.m. | Chapin Theater

Technology and Innovation - Harnessing Multiple Concurrent Transformations

**OBJECTIVE**

Provide perspectives on how technology and innovation solutions are reshaping the way we look at life-long connections. As in the past, we will honor the best maintenance units in the Department at the Secretary of Defense Maintenance Awards banquet. You will also hear from a variety of military, government, academia, and industry experts, partners, and other stakeholders about innovative solutions they are adopting to solve systemic fleet maintenance, and operations.

**ABSTRACT**

Traditional boundaries and approaches are being reasserted to success in this era of great power competition. Concurrent transformations in artificial intelligence, autonomy, social media, training science and medicine are changing the world around us. The DoD is charged to harness these transformations for the defense priorities to sustain and strengthen our military forces. This session will explore opportunities to accelerate domestic and international advancements in technology and the critical-risk innovation adoption plans in the National Defense Strategy.

**MODERATOR:**

Mr. Tom McDermott
Chief Technology Officer of the Systems Engineering Research Center
Science Applications International Corporation

**PANELISTS:**

- Col. Peter Newell, USA (Ret)
  Chief Executive Officer
  BBVA

- Dr. Steven J. Spear
  Senior Lecturer, MIT’s Sloan School of Management
  Massachusetts Institute of Technology

- Major General Cedric George, USAF (Ret)
  Director, C2S Strategic Business Development
  Amazon Web Services

- Major General Linda S. Murray
  Director of Logistics, Deputy Chief of Staff for Logistics, Engineering and Force Protection
  Headquarters U.S. Air Force

For more information, please visit: [event website]
Monday, December 12, 2022, 08:30 a.m.–10:00 a.m. | W314 A-B
Sustainment Planning During Acquisition

OBJECTIVE
Highlight the importance of sustainment planning early in the acquisition phase and the impact across the weapon systems and equipment life cycles. Describe recent developments in policy, statutes, regulations, and leadership emphasis on life cycle sustainment planning and management. Present the new initiatives, current facets, areas, and new capabilities can monitor sustainment performance and cost metrics across the life cycle.

ABSTRACT
Designing for sustainment outcomes is equally important with workforce requirements to ensure that new weapon systems are available and ready when needed. This topic examines early in the development of weapon systems the impact on acquisition strategies and life cycle sustainment planning and management. Develop strategies and process to ensure sustainment requirements make it into system specifications and responsible stakeholders. In addition, initial sustainment impact actions are needed to be sufficiently measured in a system orders production to ensure the cybersecurity requirements are met. Parallels will review the impact of proper sustainment metrics in the requirements documents and the necessity for early collaboration. Parallel will discuss the critical need to ensure readiness is measured across the life cycle for all acquisition frameworks processes. To include funding innovative sustainment technologies that reduce the sustainment burden and lower ESH costs. Weapon system data must be transferred across the life cycle, and parallels will discuss how common metrics in executable analytics frameworks can assist senior leaders making critical decisions.

MODERATOR:
Mr. Jeffery F. Franklin
Director, Naval Readiness Programs and Life Cycle Sustainment
Office of the Deputy Assistant Secretary for Defense for Materiel Readiness

PANELISTS:
Mr. John E. Smith
Deputy Assistant Secretary of Defense (Naval Plans and Policy)
Office of the Deputy Assistant Secretary for Defense (Sustainment)

Mr. John J. Currie
Director, Cyber Warfare
ODASD(Policy & Plans) & Weapon Portfolio Management

Mr. Nicolas Loyka
Research Engineering Director
Lockheed Martin

Mr. Robert Thomas
Deputy Assistant Director for Engineering & Logistics
United States Coast Guard
Establishing Organic Software Capabilities for DoD Weapon Systems is Critical to Efficient Life Cycle Management

Objective
Software sustainment for weapon systems involves the application of continuous software engineering processes throughout the life-cycle of a system. This identification of organic sustainment resources early in acquisition is critical to the success of a systems life-cycle management. Sustained software sustainment leaders will provide clarity on “what is software sustainment?” and address the application of establishing organic sustainment resources early in acquisition.

Abstract
Software is a fundamental component of DoD platforms that is critical to the operation and functionality of weapon systems. It is closely linked to aircraft, ships, submarines, and combat vehicles. The supplementation of these software systems is a critical area of focus for the DoD with funding estimates exceeding $31 billion over the next five years. The DoD’s “25% by 25” process world-class organic software capability across all services. DoD software operations occur within a variety of organizations including military branches, Software Engineering Centers, Naval Air and Sea Warfare Centers, Software Support Activities, and Life Cycle Software Engineering Centers. Panelists will describe sustainable strategies to deliver efficient Warriorfight readiness while meeting Title 10 U.S.C. stability and DoD regulatory requirements for C2 capabilities and SDO3 compliance. Following panel presentations, a hashtagged Q&A session will be held.

Moderator:
Mr. John Shultz
Director, Industrial Base Strategy
Office of the Deputy Assistant Secretary of Defense for Material Readiness

Panelists:
Mr. Michael Jennings
Senior Leader, Technical Advisor for Weapon Systems Software Sustainment
Air Force Sustainment Center

Mr. Daniel J. Jakobs
Deputy Program Manager
PDD Integrated Warfare Systems 1

Mr. Garrett Sheeveauker
Associate Director, Intelligence Electronic Warfare and Sensors
U.S. Army Communications-Electronics Command Software Engineering Center

Dr. Jason Hamilton
Professor
Defense Acquisition University

Dr. Sean Brady
Deputy Senior Lead for Software Acquisition
Office of the Under Secretary of Defense for Acquisition and Sustainment

Monday, December 12, 2022, 10:30 a.m. – 12:00 p.m. | W224 F and W224 G-H

Perspectives on DoD Field-Level Maintenance

Objective
Highlight and categorize key issues and themes affecting field-level maintenance for DoD weapon systems.

Abstract
Field-level maintenance is critical to sustaining readiness and ensuring that weapon systems are available to perform their missions. This field-level maintenance—ensuring on-equipment maintenance and shop-type work—costs over $30 billion in annual expenditures and is performed by over 500,000 military and civilian maintainers. The U.S. Government Accountability Office (GAO)—an independent, nonpartisan agency that provides auditing, evaluation, and investigative services for Congress—recently issued four reports reviewing the performance of field-level maintenance affecting ships, Army combat helicopters, aviation weapon systems, and the F-35. Panels will offer insights on issues such as using reliable data and mitigating maintenance challenges.

Moderators:
Ms. Diana Maurer
Director
U.S. Government Accountability Office

Panelists:
Mr. John Sager
Assistant Director
U.S. Government Accountability Office

Ms. Jodis Sobel
Assistant Director
U.S. Government Accountability Office

Mr. Chris Watson
Assistant Director
U.S. Government Accountability Office

Mr. Richard J. Frey
Director, Depot Policy and Performance
Office of the Deputy Secretary of Defense for Material Readiness

MODERATOR:  
Ms. Diana Maurer  
Director  
U.S. Government Accountability Office

PANELISTS:  
Mr. John Sager  
Assistant Director  
U.S. Government Accountability Office

Ms. Jodis Sobel  
Assistant Director  
U.S. Government Accountability Office

Mr. Chris Watson  
Assistant Director  
U.S. Government Accountability Office

Mr. Richard J. Frey  
Director, Depot Policy and Performance  
Office of the Deputy Secretary of Defense for Material Readiness

18 | The 2022 Department of Defense Maintenance Symposium

Next Generation Materiel Readiness Forged through Data Advantage, Technology, and Innovation | 19
Monday, December 12, 2022, 1:00 p.m. – 2:30 p.m. | W314 A-B

Maintenance Innovation Challenge

**OBJECTIVE**

Elevate and expand sustainment innovation beyond new technology, to include value-added partnerships, measuring strategies, business practices, processes, or other transformational capabilities that produce weapon system and equipment maintenance and sustainment more agile, effective, and affordable.

**ABSTRACT**

The importance of sustainment innovation development and adoption is increasingly recognized as no other to accelerate material capability by improving the effectiveness and viability of the Defense industrial base, including our organic capabilities. The COVID-19 pandemic has once again illustrated the gaps we have in our organic resources, industrial capabilities, and supply chain approaches and has highlighted this innovative spirit and world-class capabilities sustained in our sustainment community during our response. Novel innovations can provide significant advantages in capabilities for our sustainment enterprise and strength through our military and defense challenges. This session will address the 2022 Maintenance Innovation Challenge (MIC) criteria as they present their technologies, best practices, and innovative maintenance processes. The finalists, selected by an evaluation board of maintenance technology subject matter experts from the Joint Technology Exchange Group and industry will be given 15-minute slots to present their promising innovations and approaches. The single MIC winner will be selected by DoD’s senior maintenance leaders from the Maintenance Executive Steering Committee, the Joint Group on Software Systems, and the Industrial Base Commanders. Breakout attendees will have the opportunity to cast a ballot to select the “People’s Choice Award,” which will be presented along with the winner of the MIC during a plenary session.

**MODERATOR:**

Mr. Steve McKee
Director, Enterprise Maintenance Technologies
Office of the Deputy Secretary of Defense for Material Readiness

**FINALISTS:**

**Cold Spray Pop-Up Production Cell** submitted by Jeff Campbell, NAVSEA 05T / VRC Metal Systems

**E-Del: A New Way to Remove Aircraft Fasteners** submitted by Jared Wright, Naval Air Systems Command

**Optic Fusion Splice Repair** submitted by Brett Jordan, Air Force Research Laboratory

**Lethality Army Depot Innovative Cold Spray Repairs** submitted by San Dhama, The Pennsylvania State University Applied Research Lab

**Metal Components from Hybrid Additive Manufacturing** submitted by Sadek Garlic, Big Metal Additives

**Witness Integrity Sensor Platform** submitted by Seth G. Kosinski, Ph.D., Metis Design Corporation

**AWARDS**

**NETWORKING LUNCH IN EXHIBIT HALL**

1–2:30 p.m.

**Innovation**

10:30 a.m. – 11:30 a.m.

**Organic Software**

7–8:30 a.m.

**MON, DECEMBER 12**

**TUES, DECEMBER 13**

**WED, DECEMBER 14**

**THURS, DECEMBER 15**

**BREAK**

**EXHIBIT HALL OPEN**

4:30–6 p.m.

**Attend SecDef Maintenance Awards Reception and Ceremony**

**EVENT AT A GLANCE**
MODERATOR:
Mr. Richard J. Frey
Director, Depot Policy and Performance
Office of the Deputy Assistant Secretary of Defense for Material Readiness

OBJECTIVE
Examine the use of data, analytical tools, and metrics across the DoD acquisition enterprise. Discuss how the Department can better compile, analyze, and synthesize weapon system sustainment metrics to improve material readiness, control lifecycle costs, and institutionalize efficiencies throughout the maintenance, logistics, operations, and planning.

ABSTRACT
Learning Objectives:
- Discuss how current processes and tools are being used to capture, analyze, and synthesize data across the acquisition enterprise.
- Examine the potential impact of various types of DevOps on the acquisition enterprise.
- Explore the potential benefits and challenges associated with the transition to DevSecOps in DoD weapon systems.
- Discuss the need for a data-centric approach to acquisition and the role of metrics in driving improvements.

MODERATOR:
Mr. Michael P. Hynes
Director, Data/Information and Readiness Assessments
Office of the Deputy Assistant Secretary of Defense for Material Readiness

OBJECTIVES
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- Discuss how the Department can better compile, analyze, and synthesize weapon system sustainment metrics to improve material readiness, control lifecycle costs, and institutionalize efficiencies throughout the maintenance, logistics, operations, and planning.

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Next Generation Materiel Readiness Forged through Data Advantage, Technology, and Innovation

**Growth and Exploitation of Data Analytics: The Next Big Thing**

**OBJECTIVE**

Explore the emerging possibilities that data analytics offer the Department of Defense in maximizing economic and military advantages over near-peer competitors. Discuss how DoD and industry partners can exploit data analytics, modeling, and simulation as digital tools to improve weapon systems readiness and make lifecycle sustainment more affordable.

**ABSTRACT**

Senior DoD leadership to direct them to brand the Department as a data-centric organization and accentuate the adoption of enterprise data management have transformed data analytics into a gigantic growth industry. Sustained leadership and stakeholders are already exploiting the true power of data analytics to enhance the decision-making processes across the entire lifecycle of weapon systems, but the opportunities are only beginning. The possibilities that data analytics, modeling, and simulation provide exceed highlighting weapon system cost, schedule, and performance efficiencies and are applicable to all aspects of the Department. Bayer believes, however, in order to fully harness the capabilities of data analytics, the desired outcome must prove to be cost-effective, reliable, and accurate. Users must have confidence in the data, and it must be accessible across the enterprise. Inexpensive or on multiple systems, accessible to those in need, operable on all autonomous infrastructure, and stored in secure environments.

A panel of experts will share their thoughts on successes, constraints, and opportunities for data analytics to provide reliable solutions to the ever-growing sustainment challenges. Panelists will explore industry best practices in scaling data capabilities, integrating and consolidating systems, and learning where to avoid those that fail short of expectations.

**MODERATOR:**

Mr. Michael P. Rynes
Director, Data Integration and Readiness Assessments
Office of the Deputy Assistant Secretary of Defense for Material Readiness

**PANELISTS:**

Mr. Robert J. Thurston
Director Army MC4 Enterprise-Support
U.S. Army HQ-Deputy Chief of Staff, G-4

Mr. Gregory B. Little
Deputy CIO for Enterprise Platforms and Business Optimization
Chief Digital and Artificial Intelligence Office

Ms Kimberly M. Jackson
Deputy Assistant Secretary for Defense for Future Readiness
Under Secretary of Defense for Personnel & Readiness

Mr. Eric Herberg
Fellow Emeritus, Logistics Engineering
LMI

Mr. David Rabal
Sr. Technical Business Development Manager
 Worldwide AQS Sold To-Market

**Tuesday, December 12, 2022, 2:30 p.m. – 4:30 p.m. | W314 A-B**

**Investments in the OIB: A Modernization Journey**

**OBJECTIVE**

Show insights into the DoD Strategy to Improve Organic Industrial Base (OIB) Infrastructure. Explore opportunities and initiatives for improving the OIB infrastructure and equipment, provide the context of tangible improvements for nearly all Services. Focus on optimization influence, highlight investment opportunities, and share best practices.

**ABSTRACT**

Some organic depot-like work has been continuous since the Civil War; aircraft depots were constructed for the Army Air Corps, and most army depots were built during World War II. The DoD has kept the infrastructure of the Organic Industrial Base on the support front for expected and programmed service life. At present, modernization must consider with least-costed priority characteristics, standing historical building, environmental factors, and interrupting workload during construction. As a result, depots are forced to plan maintenance for future for modern weapon systems in anticipated facilities rather designed now configured for efficient depot maintenance. This presentation will focus on the relationship between the OIB infrastructure, its installation, and modernization needs within the DoD agencies to optimize and improve the OIB infrastructure, but is enough and is it enough? This session will highlight the most pressing needs for infrastructure improvement and examine proposed solutions.

**MODERATOR:**

Mr. Richard J. Frey
Director, Deputy Policy and Performance
Office of the Deputy Assistant Secretary of Defense for Material Readiness

**PANELISTS:**

Colenel Richard A. Martin, USA
Director, OIB Modernization Task Force
US Army Materiel Command

Ms. Erica P. Noffs
Deputy Assistant Secretary of the Navy for Sustainment
Office of the Assistant Secretary of the Navy for Research, Development and Acquisition

Mr. Jeffrey R. Sick
Director of Logistics
Air Force Sustainment Center, Air Force Materiel Command

Mr. Thomas C. Cakourek
Deputy Director, Weapons Systems Management Center
Marine Corps Logistics Command

Mr. James C. Lecake
Secretary Analyst, Defense Capabilities and Management
Government Accountability Office
Memorandum for 2022 DOD Maintenance Symposium Attendees

Event Information

Event at a Glance

MODERATOR:
Mr. Kivela D. Hale
Deputy Director, Enterprise Maintenance Technologies (DoDX/AR)

PANELISTS:
Ms. Lazmarie Youens
Advanced Technology and Innovation Lead for FPG-2E

Friday, December 16, 2022, 2:00 p.m.–3:30 p.m. | W313 A-B

Transitioning Solutions into Sustainment – How to Bridge the Valley of Death

OBJECTIVE
Participate in the interactive session to learn how our sustainment workforce is transitioning traditional DoD repair practices through ingenuity and honesty to get through the “Valley of Death.” Hear the personal testimonies of the journey to successfully transition solutions across the Department to achieve maximum benefits at lower costs and provide increased flexibility to meet warfighter demands.

ABSTRACT
A resilient Joint Force family relies upon a sustainment ecosystem that rapidly adapts with evolving technologies. To continuously achieve advantageous outcomes, the Department must become more proficient at harnessing revolutionary sustainment solutions at a right pace. Participate in this session to dissect current practices from a series of dynamic sustainment leaders. Learn how they are successfully transitioning sustainment activities to achieve maximum benefits at lower costs and provide increased flexibility to meet warfighter demands.

PANELISTS:
Mr. Chris Lampe
Director, Quality Procedures & Coatings Credentialing at AMPP

Ms. Jennifer S. Szmol
Acquisitive Program Manager

Director, Corrosion, Deputy Assistant Secretary of the Navy for Research, Development, Test & Engineering

Thursday, Dec 15, 2022, 8:00 a.m.–12:00 p.m. | W224 F-G-H

Developing Workforce Corrosion Control Competencies

MODERATOR:
Mr. Robert A. Herron
Director, Corrosion Policy and Oversight
Office of the Deputy Assistant Secretary of Defense for Material Readiness

PANELISTS:
Mr. Dave Evans
Director, Dacchi Procedures & Codings Credentialing at AMPP

Association for Materials Protection and Performance

Wednesday, December 14, 2022, 2:00 p.m.–3:30 p.m. | W313 A-B

Next Generation Materiel Readiness Forged through Data Advantage, Technology, and Innovation
MEMORANDUM FOR 2022 DOD MAINTENANCE SYMPOSIUM ATTENDEES

WASHINGTON, DC  20301-3500

From: AFSC.DOD.WS_SWSummit@us.af.mil

To: All Attendees

Subject: More Information on the 2022 DOD Weapon Systems Software Summit

As you know, the 2022 DOD Weapon Systems Software Summit (DoWSSS) will be held at the Washington Marriott Wardman Park Hotel in Washington, D.C., on December 12-14, 2022. This year's summit will feature keynote speakers, panel discussions, technical sessions, and networking opportunities for attendees to learn about the latest developments in software engineering for defense systems.

We encourage you to attend the summit and take advantage of the following opportunities:

- Keynote Address by Qasim Ishaq, Director of Software Engineering, U.S. Army
- Panel Discussions on topics such as DevSecOps, Agile Systems Engineering, and System Environments
- Technical Sessions on a variety of subjects, including Continuous Verification & Validation, Improved Embedded Software Testing, and Panel: Overcoming Challenges in Hiring for Critical Software via DevSecOps
- Networking Opportunities to connect with other experts in the field

If you have any questions or need further information, please contact AFSC.DOD.WS_SWSummit@us.af.mil.

Thank you for your participation.

Best regards,

[Your Name]

The 2022 Department of Defense Maintenance Symposium

MEMORANDUM FOR 2022 DOD MAINTENANCE SYMPOSIUM ATTENDEES

WASHINGTON, DC  20301-3500

From: AFSC.DOD.WS_SWSummit@us.af.mil

To: All Attendees

Subject: More Information on the 2022 DOD Weapon Systems Software Summit

As you know, the 2022 DOD Weapon Systems Software Summit (DoWSSS) will be held at the Washington Marriott Wardman Park Hotel in Washington, D.C., on December 12-14, 2022. This year's summit will feature keynote speakers, panel discussions, technical sessions, and networking opportunities for attendees to learn about the latest developments in software engineering for defense systems.

We encourage you to attend the summit and take advantage of the following opportunities:

- Keynote Address by Qasim Ishaq, Director of Software Engineering, U.S. Army
- Panel Discussions on topics such as DevSecOps, Agile Systems Engineering, and System Environments
- Technical Sessions on a variety of subjects, including Continuous Verification & Validation, Improved Embedded Software Testing, and Panel: Overcoming Challenges in Hiring for Critical Software via DevSecOps
- Networking Opportunities to connect with other experts in the field

If you have any questions or need further information, please contact AFSC.DOD.WS_SWSummit@us.af.mil.

Thank you for your participation.

Best regards,

[Your Name]

The 2022 Department of Defense Maintenance Symposium

MEMORANDUM FOR 2022 DOD MAINTENANCE SYMPOSIUM ATTENDEES

WASHINGTON, DC  20301-3500

From: AFSC.DOD.WS_SWSummit@us.af.mil

To: All Attendees

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Thank you for your participation.

Best regards,

[Your Name]
The objective of this engagement is to increase awareness of the collaborative tools that Army Materiel Command (AMC) has undertaken to develop, standardize, and then technology enabled artifact libraries to drive process efficiencies, improve readiness, and positive results has earned recognition of Command of the Army to sustain multiple-domains operations.

Supply chain management is a readiness enabler that must be modernized to meet the needs of the Army for future campaigns. The Army needs a flexible and adaptable supply chain to meet our global commitments. We are developing a resilient supply chain with necessary supply chain demands with the vision that the Army faces a dynamic, complex, and increasingly complex environment.

Exhibit Hall: 7–8 a.m. | The 2022 Department of Defense Maintenance Symposium

Keynote Speaker: Lt Col Michael Tanner, USAF

Solution and Maintenance (CSM) is the central community of practice to support the maintenance and sustainment programs. The CSM is a technical working group comprised of more than 2000 members across the Department of Defense (DoD) and federal agencies.

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The Marine Corps will host numerous associated meetings at the Maintenance Innovation Challenge in order to improve the agile combat support and mission generation capabilities of the United States Air Force.

**ABSTRACT**

In the ever-changing threat landscape, the U.S. military is experiencing a rapid pace of change, and it needs to adapt accordingly. The Marine Corps is working to enhance its readiness and capability to support the Joint Force. Dr. Paul G. Bogyo, Director of the Office of the Deputy Under Secretary of Defense for Operations and Intelligence, will discuss the current state of the Marine Corps' efforts to modernize and expand its capabilities.

**EVENT AT A GLANCE**

**MON, DECEMBER 12 | TUES, DECEMBER 13 | WED, DECEMBER 14 | THURS, DECEMBER 15**

**CONTINENTAL BREAKFAST | 7–8:30 a.m.**

**CONTINENTAL BREAKFAST | 9:30 a.m.–10:30 a.m. | W312C**

**USAF Tesserac Mission Brief | 10–11 a.m. | W312C**

**USAFA Tesserac Mission Brief**

Innovation and the Joint Military Service community about Tesserac. Briefers will discuss the mission, organizational structure, how it works, how it fosters a culture of innovation, and share examples of innovations that have been applied to the Air Force.

**ABSTRACT**

Innovation is the unrelenting drive to break the status quo and develop new avenues where few have dared to go... and our Airmen, Guardians, Soldiers, Sailors, and Marines are leveraging the culture of innovation to spur and catalyze innovation. This presentation will describe the operational challenges that the Tesserac mission seeks to overcome and how Tesserac is facilitating innovation to inform the Joint Military Service Community. Briefers will discuss leveraging the Tesserac mission to support DoD leaders and the Department of Defense in the future.

**EVENT AT A GLANCE**

**MON, DECEMBER 12 | TUES, DECEMBER 13 | WED, DECEMBER 14 | THURS, DECEMBER 15**

**CONTINENTAL BREAKFAST | 7–8:30 a.m. | DMLE Exhibit Hall**

**EXHIBIT HALL OPEN | 4:30–6 p.m. | DMLE Exhibit Hall**

**Attend SecDef Maintenance Awards Reception and Ceremony | DMLE Exhibit Hall | 4:30–5:15 p.m. | W231**

**FOOD & BEVERAGE**

**Networks, Tutorials, and Exhibits**

**Breadth and Depth: The Collision of Defense and Business**

Thursday, December 15, 2022 | 9:30 a.m.–10:30 a.m. | W312C

**Accelerating Innovation Across the Air Force Logistics**

In the Joint Military Service community about how Tesserac scales and manages the innovation idea within the Air Force directed innovation portfolio (the Air Force’s Challenge, AF Space Task, and AF Logistics Officer/Infusion Team Innovation). All efforts ultimately focus on enhancing fleet readiness and effective effectiveness in order to meet known and emergent threats.

**ABSTRACT**

To deliver and sustain persistent mission-ready generation against pacing adversaries in a contested environment that is shaped by, declining resources, aggressive global competitors, and rapid technology development, the Air Logistics enterprise must develop strategies within a culture of innovation that are designed for identifying and applying innovation across the enterprise. The discussion will explain how the Tesserac mission is enabling the innovation ideas that will drive innovation in the Force and can complement Tesserac’s role in selecting the best ideas from the challenges.

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**Breadth and Depth: The Collision of Defense and Business**

Thursday, December 15, 2022 | 9:30 a.m.–10:30 a.m. | W312C

**Theory of Constraints Across the Air Force Logistics**

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Thursday, December 15, 2022 | 9:30 a.m.–10:30 a.m. | W312C

**The Path to Partnerships: Establishing Relationships for Stronger Business Power**

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**AWARDS**

The Path to Public-Private Management Critical to Efficient

2:30–3 p.m.

EXHIBIT HALL OPEN

3–4:30 p.m.

**Same…or Are They?**

Do It Wanted – A Real or a Mirage?

noon

**Monday, December 12, 2022 | 8:30 a.m.–10:00 a.m. | WAH 4-A-B**

**Overview of Correction Control for Weapon System Sustainment**

**OBJECTIVE**

To provide an overview of the impacts of corrosion on DoD weapon systems and review corrosion prevention and control processes relevant to system sustainment.

**ABSTRACT**

Corrosion is defined as "the deterioration of a material or its properties due to a reaction of that material with its chemical environment." Corralling or preventing corrosion of U.S. Department of Defense assets costs approximately $20B annually, represents between 10 to 25% of all maintenance costs, and results in millions of hours of DoD weapon system non-availability directly impacting our warfighters. Corrosion negatively affects equipment, and facility availability and safety as well. This training session is intended to provide attendees with a top-level overview of corrosion, corrosion prevention, and corrosion control. Topics covered include corrosion basics; fundamentals of corrosion control; surface preparation for coatings; coatings application and quality; and cleaning defects, failure, and inspection.

**PRESENTER:**

Dr. Gregory A. Sheats

Director, Center for Aircraft Structural Life Extension (CAStLE)

USDFA Academy

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**Monday, December 12, 2022 | 10:30 a.m.–12:00 p.m. | WAH 4-A-B**

**Contract Authority: Understanding the Multi-billion Dollar Authority that Drives the DoD Supply Chain and the Risk and Rewards of Using It to Meet Requirements**

**OBJECTIVE**

Provide details on the relationship between Department of Defense supply chain element planning and requirements determination and the due diligence working capital funds required with contract authority. Offer considerations for changes to both planning and executing.

**ABSTRACT**

Department of Defense Services and Agencies continue recurring supply chain element planning processes to develop inventory requirements. The majority of those requirements will be supported by Defense Working Capital Fund (DWCf). DWCf activities will use those requirements to obligate contract authority in advance of customer orders to build inventory. This puts billions of dollars of working capital funds at risk if those purchases do not result in sales needed to replace the outlay of the cash used to make those investments. Additionally, recent decisions to adjust budgetary authority to protect DWCf cash balance has created a "supply chain tax" that will create readiness issues through the next two years. This session will present plans for the future to better balance risk and its inconsistent improvement in supply chain demand planning processes.

**PRESENTER:**

Mr. Joe Diana

Portfolio Manager for Army and Air Force Materiel Command

CAStLE Systems, Inc.

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**Monday, December 12, 2022 | 1:00 p.m.–2:30 p.m. | WAH 4-A-B**

**Delivering Microelectronic Technology in Support of the Warfighter**

**OBJECTIVE**

Engage participants in a lively discussion related to innovative organic/industrial base research that can act as a defense strategy to secure your microelectronic issues.

"The Department will continue to invest in programs to secure U.S. microelectronics interests, remove the erosion of domestic innovation and supply, and establish a strong foundation for the next generation of microelectronics technology for DoD applications, while also sustaining current systems."

Lloyd Austin III

Secretary of Defense

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**Tuesday, December 13, 2022 | 8:30 a.m.–10:00 a.m. | WAH 3-A-B**

**Portion of Critical Software via DevSecOps**

**ABSTRACT**

The unavailability of a simple electronic device might ground a critical weapon system during a crisis. When a part no longer meets its intended purpose, maintenance timelines will shatter the product line and move on to new perils. It is the mission of Defense Microelectronics Activity (DMA) to ensure that the warfighter never compromises the warfighter’s ability to complete their mission. DMA develops and incorporates strategic solutions for all the services that address the problems of microelectronics technology obsolescence and reduce the effects of Diminishing Manufacturing Sources. This session will feature the results of several solutions organically developed by DMA engineers and how they have benefited the maintainability of the impacted systems, such as C-5, F-35, F-22, Virginia Class Submarines, HH-60, Minuteman III, Evolved Sea Sparrow Missile and PRC117G Radios.

**PRESENTER:**

Mr. Marc Martin

Director

Defense Microelectronics Activity
**AWARDS**

**BREAK**

10–10:30 a.m.

**Innovation Management**

Critical to Efficient DoD Weapon Capabilities for

**EXHIBIT HALL OPEN**

They? Do It

Anyone Could

Perspectives on Acquisition Planning During Sustainment

**|The 2022 Department of Defense Maintenance Symposium**

**– Rear Admiral Grace M. Hopper Award for Software**

PRESENTER:

Mr. Shawn Harrison

3–4:30 p.m.

**Monday, December 12, 2022**

3:00 p.m. – 4:30 p.m. | W414 A-B

**DAU: Your Professional Development Partner**

**OBJECTIVE**

Provide an insightful, timely and impactful discussion about the myriad of en-route, multi-disciplinary, readily available learning assets available to the defense acquisition and sustainment workforce, defense industry and interagency colleagues, and international partners. Connect railheads with professional development resources and opportunities, and use their Defense Acquisition University (DAU) colleagues can serve as your professional development partner today and in the future.

**ABSTRACT**

Professional development is more than just training; it is a tool to pay professional development as an integral part of professional growth, organizational success and ultimately mission accomplishment. This session will provide insights into the rapidly evolving nature of defense acquisition and sustainment, life cycle logistics, and product support of professional development, along with information about the myriad of transformational initiatives underway at the Defense Acquisition University. Attendees will gain a better understanding of the range of available, multi-disciplinary learning opportunities, resources, and resources, including on coursera, on-demand, workshops, and web-based job support tools. Attendees will also learn about how to access and leverage their life cycle management focused resources to facilitate and enable their own personal growth, professional development, and organizational success. The discussion will include learning assets available in the AP* key areas of affordable repair costs, reduce the product support burden,” among others in APO*. Instruction (CBI), as well as training opportunities for high visibility and emerging topic areas such as digital manufacturing, sustainability analysis, digital product to support, data analytics, and supply chain readiness, among others.

**PRESENTER:**

Mr. Bill Baben

Director, Logistics & Sustainment Center

Defense Acquisition University

Mr. Shawn Harrison

Learning Director, Product Support & Sustainment

Defense Acquisition University

Productions, Coordination & Optimization Directorate

& Optimization Directorate

Wednesday, December 13, 2022 2:00 p.m. – 3:30 p.m. | W414 A-B

**Take Four: The Good, the Bad, and a Little Bit of Ugly—A SecDef Maintenance Awards Tutorial**

**OBJECTIVE**

Provide feedback directly from selection board members and engage in frank discussions regarding submissions for the annual Secretary of Defense Maintenance Awards.

**ABSTRACT**

Does scoring a winning Secretary of Defense Maintenance Awards nomination package seem elusive? Selection board members from the last competition cycle will describe what they look for, what they see fails, and what is difficult. Examples of what to do and what to do to be precluded. Actual excerpts from previous nomination packages will be shared. Considerable time will be allotted for Q&A.

**MODERATOR:**

Mr. Stuart L. Paul

Aviation Fleet Readiness, Deputy Branch Head

Food Readiness Division, Chief of Naval Operations

**PANELISTS:**

Mr. Jeffrey W. Franklin

Director, Naval Readiness Programs and Life Cycle Sustainment

Office of the Deputy Assistant Secretary of Defense for Naval Operations

Mr. Kathleen Becker

Chief, Process & PM Engineering Support Branch

Battlefield Systems & Software Engineering Division

Naval Engineering Center

Weapons & Software Engineering Center

**Mr. Bill Baben**

Director, Logistics & Sustainment Center

Defense Acquisition University Production, Coordination & Optimization Directorate

**TOUR**

Lockheed Martin Missiles and Fire Control

Thursday, December 15, 2022 | 12:00 p.m. – 2:45 p.m.

**SOLD OUT**

Tour Departs from the Orange County Convention Center, Outside Woolsey Lobby

Bus Check-in: 12:30 p.m. – 12:15 p.m.

Tour Check-in: 12:30 p.m. – 12:45 p.m.

Tour Cost: $50 | Pre-Registration, CAC holder, and US Citizen Required

Tour reserves the right to pre-screen tour attendees

PEO STRI and NAWC-TSD, Orlando, Florida

Thursday, December 15, 2022 | 7:30 a.m. – 2:45 p.m.

Tour Departs from the Orange County Convention Center, Outside Woolsey Lobby

Bus Check-in: 7:30 a.m.

Tour Check-in: 8:00 a.m. – 8:45 a.m.

Tour Cost: $50 | Pre-Registration and US Citizen with State or Government Issued ID Required

Tour reserves the right to pre-screen tour attendees

**EVENT AT A GLANCE**

MON, DECEMBER 12 TUES, DECEMBER 13 WED, DECEMBER 14 THURS, DECEMBER 15

CONTINENTAL BREAKFAST

7–8:30 a.m.

CONTINENTAL LUNCH

11:15 a.m.–noon

EXHIBIT HALL OPEN

4:30–6 p.m.

Attend SecDef Maintenance Awards Reception and Ceremony

**EVENT AT A GLANCE**

THE DAVENPORT GRAND

WASHINGTON ST

38
Secretary of Defense Maintenance Awards

Secretary of Defense Maintenance Awards Reception
Tuesday, December 13, 2022 | 6:00 p.m. – 7:00 p.m.

Secretary of Defense Maintenance Awards Banquet & Ceremony
Tuesday, December 13, 2022 | 7:00 p.m. – 9:00 p.m.

Each year, the Secretary of Defense Maintenance Awards are presented to recognize the best maintenance units within the Department of Defense. Awards are presented in four categories:
- Field-Level Award, including the Phoenix Award
- Robert T. Mason Award for Depot Maintenance Excellence
- Sustainment Training, Advice, and Assistance of Foreign Military Forces
- Rear Admiral Grace M. Hopper Award for Software Maintenance Excellence

EVENT AT A GLANCE

Next Generation Materiel Readiness Forged through Data Advantage, Technology, and Innovation
ATTIRE GUIDANCE

Civilians

Business attire is appropriate for both the DoD Maintenance Symposium and Secretary of Defense Maintenance Awards banquet and ceremony.

Military Members

Please refer to the following table for appropriate military attire.

<table>
<thead>
<tr>
<th>Service</th>
<th>DoD Maintenance Symposium</th>
<th>Maintenance Awards Banquet and Reception</th>
<th>Speakers and Panels</th>
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<tbody>
<tr>
<td>Army</td>
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DoD attendees are reminded not to claim provided meals when completing their DSTOY vouchers.

REGISTRATION

Register at www.sae.org by November 28, 2022, to qualify for early-bird pricing. For assistance with registration, contact SAE Customer Service.

+1 877.606.7323 (USA and Canada)
+1 724.776.4570 (Outside of USA and Canada)

Fax: +1 724.776.0790 Email: CustomerService@sae.org

Before registering, please contact pr@sae.org.

After 11/28/2022

Attire Types

Only Technical Session Technical Session & Luncheon Only Technical Session Technical Session & Luncheon

Government Employee

No Fee No Fee No Fee No Fee

Local Government Employee

$995 $995 No Fee No Fee

Military O-1 to O-3 and below

$995 $995 No Fee No Fee

Military O-1 to O-3 and below (service sweater or lesser sweater optional)

$995 $995 No Fee No Fee

Academia

No Fee No Fee No Fee No Fee

Industry Registration

Exhibitor/DMLE Exhibit Hall 6 (DMLE Required) Limit 2 per 10’x10’ Exhibit Space

$995 No Fee No Fee No Fee

Industry Display Exhibitor (DMLE Required) Limit 2 per 10’x10’ Exhibit Space

$995 No Fee No Fee No Fee

Industry Display, Redesigned Rate Exhibitor (DMLE Required) Limit 2 Fire Extinguishing Company

$995 No Fee No Fee No Fee

Industry Display, Non-Exhibitor Rate and Non-Alcoholic Exhibitor (DMLE Required)

$995 $1995 No Fee No Fee

Press (Credentials Required)

Before registering, contact press@sae.org.

Before registering, contact pr@sae.org.

HOTEL RESERVATIONS

Event Dates: December 12-15, 2022

Hotel Reservation Deadline: November 22, 2022

Make your hotel reservations now at www.sae.org/attend/dod/hotel-travel

HOTELS

Rosen Centre
9840 International Drive
Orlando, FL 32819
Room Rate: $129

Rosen Plaza
9700 International Drive
Orlando, FL 32819
Room Rate: $129

DoubleTree by Hilton Orlando at Seaworld
10100 International Drive
Orlando, FL 32821
Room Rate: $129
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ENGAGE COLLABORATE INFLUENCE

December 12-15, 2022 | Orange County Convention Center | Orlando, Florida | SAE.ORG/DOD