



9TH ANNUAL INFORMATION OPERATIONS & ELECTRONIC WARFARE SYMPOSIUM

CALL FOR PAPERS

October 20-23, 2020 | Honolulu, HI | Camp H.M. Smith, HI

SYMPOSIUM THEME

The theme for the 2020 IO/EW Symposium, “All Domain Operations from Competition into Conflict,” will focus on how IO and EW contribute to all-domain warfighting challenges, as well as their contributions to achieving a Free and Open Indo-Pacific during competition. This year’s theme builds on the work of the 6th Annual Symposium in 2017, which focused on the Army’s Multi-Domain Operations (MDO) Concept. The Army’s now well-established MDO Concept focuses on optimizing the land force contribution to a Joint fight in multiple domains, and provides a strong foundation for the development of a Joint All-Domain Operations Concept, both of which are intended to be employed across the spectrum of operations from competition to conflict. The 2020 theme also benefits from the presentations and work accomplished at the 7th Annual Symposium in 2018, focused on the roles of IO and EW in overcoming A2/AD challenges, which are a driver for the development of an All-Domain Operations (ADO) concept.

WHY FOCUS ON ALL-DOMAIN OPERATIONS?

All-Domain Operations is the latest refinement of an evolving body of thinking focused on improving C2 and situational awareness to optimize the employment of current and future military capabilities against the enemy in all domains, the electro-magnetic spectrum (EMS) and the Information Environment (IE). U.S. Joint doctrine explains that the U.S. military conducts operations in the named operational domains as well as the information environment.¹ According to Gen. John Hyten, Vice Chairman of the Joint Chiefs of Staff, the developing ADO Concept seeks to integrate capabilities in the Air, Land, Sea, Space and Cyber domains, and the electro-magnetic (EM) spectrum, in order to compete with near-peer competitors from competition to conflict.² The next official Joint Warfighting Concept, expected by the end of 2020, will be based on ADO. Addressing the importance of ADO, Gen. Hyten explained that getting ADO right would provide “*a significant advantage over everybody*”

in the world for a long time, because it's the ability to integrate and effectively command and control all domains in a conflict or in a crisis seamlessly.”³

A driving force behind both MDO and ADO are the increasing reach and capabilities of America's adversaries, the most dangerous being China and Russia as the 2018 National Defense Strategy makes clear. Since at least 2016, the U.S. Military has recognized that “A2/AD strategies are a defining characteristic of today's operational environment” and that “Confronting this challenge will require more integration – across all domains and at all echelons – than ever before.”⁴ GEN Mark Miley explained the basic challenge faced by the Joint Force that ADO will address:

Strategic competitors like Russia and China, are synthesizing emerging technologies with their analysis of military doctrine and operations. They are deploying capabilities to fight the U.S. through multiple layers of stand-off in all domains – space, cyber, air, sea, and land. ***The military problem we face is defeating multiple layers of stand-off in all domains in order to maintain the coherence of our operation.***⁵

A foundational concept of both MDO and ADO is that Joint Forces need to be able to link the right fires system against any target that the network can detect, which Gen. Eric Wesley, Commanding General of Army Futures Command, described as enabling “any shooter through any sensor and through any C2 node in near real time with appropriate authorities.”⁶ Recently, ADM Phil Davidson, Commander of U.S. Indo-Pacific Command, described the Indo-Pacific Warfighting Concept and the need for long-range precision strike weapons “from across all platforms, services, and domains to hold at risk a variety of target sets,” supported by Joint C2 networks “that provide speed and flexibility in decision-making, which allows penetration and then disintegration of an adversary's systems and decision-making.”⁷

ADO applies to both competition and conflict. Our adversaries have demonstrated their adeptness at operating across all domains in the grey zone during the competition phase to achieve national strategic objectives. Stressing the need for action in the competition phase, LTG Wesley explains that our adversaries' concept of multiple layers of standoff and A2/AD includes hybrid warfare and information warfare, which are also designed to keep U.S. and Allied forces at bay in competition and conflict.⁸ According to LTG Wesley, the Army envisions a warfighting concept that brings both kinetic and non-kinetic fires to bear on the enemy, whether in competition or conflict in a “contested, access-denied world of near peer competitors such as China and Russia.”⁹ Addressing the competition phase specifically, LTG Wesley explained that future operational and theater level commanders “will have to be in a space where they're competing daily in order to enable any kind of penetration, or in order to enable conflict. If you're not competing, you can't adequately engage in conflict.”¹⁰ During the competition phase, working alongside Allies and partners, the United States must be ready

to “enable the defeat of information and unconventional warfare” and “demonstrate credible deterrence.”¹¹

The 2020 IO & EW Symposium will once again provide a professional venue for both unclassified and classified discussions to address these ADO challenges from competition to conflict.

CALL FOR PRESENTATIONS

INDOPACOM J39 and the AOC are soliciting original unclassified English language presentations and/or papers for the 9th Pacific IO & EW Symposium from subject matter experts in the U.S. and Allied militaries / government, as well as from academia and industry on the conference theme. Presentations for the full plenary session in the first two days of symposium must be UNCLASSIFIED. Presentations for the classified session on 22 October for cleared personnel at Camp H. M. Smith should be at the SECRET REL/FVEY, FRA, JPN level (or at higher classification for smaller US-only break-out sessions held in smaller conference rooms at the HQs). Presentations on the final day of the FVEY session on 23 OCT should not be higher than SECRET REL FVEY.

Potential Speakers are invited to note the conference sessions topics and specific areas of interest:

- * Warfighting perspectives from the Information Related Capability areas with respect to the requirements of ADO.
- * Historical and current perspectives of the application of IO and EW to overcome anti-access strategies and to reach target audiences in denied or contested environments.
- * Analysis of current and potential A2/AD threats to the U.S. and her Indo-Pacific Allies and partners.
- * Analysis of adversary¹² and potential adversary offensive EW and information warfare for competition and conflict.
- * Experimentation, Exercises and Innovation to improve the application of IO and EW in support of ADO.
- * Service efforts to organize, man, train, equip, educate in support of ADO.
- * Current and emerging technology solutions for the effective employment of information-related capabilities in ADO.

Please contact the Symposium Chair, Dr. Arthur Tulak, COL USA, Ret, at arthur.n.tulak.ctr@pacom.mil if you are interested in speaking or want more information. For paper/presentation proposals, please provide the title of the proposed paper/presentation with a brief 1-2 page synopsis, and a short biography or curriculum vitae. Industry presentations that support the conference theme may be submitted for either the UNCLASSIFIED or SECRET REL FVEY, FRA, JPN days. Company product-focused briefs will not be accepted, and industry presentation should adhere to the theme. The deadline for submitting is close of business Friday, August 21, 2020, but earlier is better.

End Notes:

¹ JP 1, *Doctrine for the Armed Forces of the United States*, Incorporating Change 1, July 12, 2017 p. I-5. Retrieved from: https://www.jcs.mil/Portals/36/Documents/Doctrine/pubs/jp1_ch1.pdf Emphasis added.

² Colin Clark, "Gen. Hyten on the New American Way of War – All Domain Operations," *Breaking Defense*, February 18, 2020. <https://breakingdefense.com/2020/02/gen-hyten-on-the-new-american-way-of-war-all-domain-operations>

³ Ibid.

⁴ U.S. Joint Staff J7, *Cross-Domain Synergy in Joint Operations*, January 14, 2016, p. 6.

⁵ GEN Mark Milley, then serving as the 39th Chief of Staff of the Army, in the Foreword to TRADOC Pamphlet 525-3-1, *The U.S. Army in Multi-Domain Operations 2028*, December 6, 2018, Fort Eustis VA, p. i.

⁶ George Seffers, "Army Invests Heavily in Multidomain Operations," *Signal Magazine on-line*, Armed Forces Communications and Electronics Association, October 16, 2019. <https://www.afcea.org/content/army-invests-heavily-multidomain-operations>

⁷ Paul Mcleary, from interview with ADM Davidson. See "Indo-Pacom Presses All Domain Ops; Sends Plan To Hill Soon," *Breaking Defense*. Retrieved from: <https://breakingdefense.com/2020/03/indo-pacom-presses-all-domain-ops-sends-plan-to-hill-soon/>

⁸ DefAero Report, "U.S. Army's Wesley on Future War, Multi-Domain Ops, Inter-Service Partnership," March 29, 2019.

⁹ Todd South, "This 3-Star Army General explains what multi-domain operations mean for you," *Army Times*, August 11, 2019. <https://www.armytimes.com/news/your-army/2019/08/11/this-3-star-army-general-explains-what-multi-domain-operations-mean-for-you/>

¹⁰ Ibid.

¹¹ U.S. Army Training and Doctrine Command, *The U.S. Army in Multi-Domain Operations 2028*, December 6, 2018, Fort Eustis VA, p. v.

¹² The DoD Dictionary of Military and Associated Terms defines adversary as, "A party acknowledged as potentially hostile to a friendly party and against which the use of force may be envisaged" See Office of the Chairman of the Joint Chiefs of Staff (OCJCS), *DOD Dictionary of Military and Associated Terms*, 2019, Washington D.C. Retrieved from: <https://www.jcs.mil/Portals/36/Documents/Doctrine/pubs/dictionary.pdf>