



Cyber Blitz 2019

The traditional battlefield is changing in the fast-paced information age as our adversaries are developing anti-access/area denial capabilities in physical and logical spaces. The U.S. must prepare for multi-domain operations (MDO) that include non-kinetic engagements in the realms of spectrum, space, cyber and information operations.

Cyber Blitz is a discovery experiment co-led by the U.S. Army Combat Capabilities Development Command's Command, Control, Communications, Cyber, Intelligence, Surveillance and Reconnaissance Center (CCDC C5ISR Center) and the US Army Training and Doctrine Command's Cyber Center of Excellence (TRADOC CCoE). Cyber Blitz is informing the Army how to perform information warfare across the full spectrum of operations. Cyber Blitz is helping the Army to

- **Synchronize** Science and Technology (S&T) prototypes and investment strategies for MDO.
- **Operationalize** innovative technology development and investments in alignment with total Army priorities
- **Identify** technical capabilities and integrate prototypes for future TRADOC operational validation
- **Experiment** with force design updates and operational products – including doctrine, concept of operations, concepts of employment and Tactics, Techniques and Procedures (TTPs).

Executed from Sept. 4-22, Cyber Blitz **2019** is helping answer questions about how the Army should conduct Intelligence, Information, Cyber Electronic Warfare and Space (I2CEWS), operations and what the Army needs to do across the doctrine, organization, training, materiel, leadership and education, personnel, facilities and Policy (DOTMLPF-P) spectrum to support MDO.

With more than 700 personnel operating and supporting more than 65 different systems & technologies, Cyber Blitz 2019 provided a live-virtual-constructive representation of a battle space in the 2025 timeframe and gave more than 30 participating organizations from the Army, Navy, Air Force and Japanese Ground Self Defense Force (JGSDF) a realistic first look at how the I2CEWS could fight and win as part of the Multi-Domain Task Force (MDTF).

Cyber Blitz 2019 was executed simultaneously and in conjunction with U.S. Army Pacific's (USARPAC) Orient Shield Exercise in Japan. This marked the first time that the Army combined field-based experimentation with an Army service component command tier 1 exercise. It was also the first event to feature bilateral defensive cyber operations with the JGSDF, who sent personnel to Cyber Blitz to operate along with their U.S. Army counterparts.

Cyber Blitz executed I2CEWS functions at Joint Base McGuire-Dix-Lakehurst, NJ, which in real time supported geo-spatial maneuver and live kinetic fires missions being executed in Japan. Missions included intelligence planning and support, information operations, offensive and defensive cyber operations, converging signals intelligence and electronic warfare as an operational capability, and space surveillance and effects.

Now in its fourth year, Cyber Blitz 2019 is built on the previous three experiments.

Cyber Blitz **2016** focused on converging Cyber Electromagnetic Activities, or CEMA, across multiple warfighting functions within current operations to inform and synchronize DOTMLPF-P efforts throughout the Army and by demonstrating assured electromagnetic operations while denying that to a regional-peer adversary.

In **2017**, Cyber Blitz planners investigated how an interim Brigade Combat Team (BCT) in 2025 could integrate CEMA, intelligence, and information operations across multiple echelons and classifications to support multi-domain maneuver, with enterprise reach back, against a regional-peer in a contested, congested operational environment.

Cyber Blitz **2018** helped the Army pioneer a new task force design update for the MDTF by examining how the integration of I2CEWS, could help a BCT gain and maintain the advantage against a regional peer in multi-domain operations. While primarily executed in New Jersey, the exercise had connectivity to Aberdeen Proving Ground, MD, the Urban Training Complex at Camp Atterbury- Muscatatuck, IN, and Guam, where a response cell in USARPAC's Valiant Shield exercise leveraged Cyber Blitz mission reports.

Not to be confused, Cyber Quest and Cyber Blitz are complementary events which are advancing CEMA integration at different points in the Joint Capabilities Integration and Development System and the Army Acquisition timeline. While Cyber Quest is an annual prototyping experiment that addresses documented intelligence, signal, cyber and electronic warfare concept and capability gaps, Cyber Blitz supports decisive overmatch for our warfighters through the timely transition of innovative CEMA capabilities that align with Army priorities.

Cyber Blitz leverages the C5ISR Center's Flight and Ground Activities (CFA and CGA) at JB MDL, NJ to offer a safe, non-attribution, "fail-to-fix" environment to test new ideas. The complementary capabilities of the CFA and CGA allow interaction between aerial and varying terrestrial layers of wooded and urban terrain, which is helping the S&T community explore and advance innovative concepts and technologies that will support Army Modernization priorities.

Both are extensions of the C5ISR Center's engineering environment at APG that bring together lab-based and field-based experimentation, allowing technology developers to understand and address integration challenges early in the development process – and ultimately helping to expedite capabilities to the hands of Soldiers.

Cyber Blitz is at the forefront of the Army's MDO success, bringing together technical, institutional and operational objectives and personnel into an integrated framework for immersive training and immersive demonstration of emerging technologies and material solutions that will help the Army maintain Readiness and decisive overmatch in future conflicts.

The C5ISR Center at Aberdeen Proving Ground, MD, is the Army's applied research and advanced technology development center for C5ISR capabilities: Command, Control, Communications, Cyber, Intelligence, Surveillance and Reconnaissance. As the Army's primary integrator of C5ISR technologies and systems, the center develops and matures capabilities that support all six Army modernization priorities, enabling information dominance and tactical overmatch for the joint warfighter.

The C5ISR Center is an element of the U.S. Army Combat Capabilities Development Command. Through collaboration across the command's core technical competencies, CCDC leads in the discovery, development and delivery of the technology-based capabilities required to make Soldiers more lethal to win our nation's wars and come home safely. CCDC is a major subordinate command of the U. S. Army Futures Command.

The U.S. Army Cyber Center of Excellence (CCoE), Fort Gordon, GA, is the Army's premier and innovative learning institution designed to assure Army and joint forces deploy the optimum tactical force to execute effective cyberspace, electronic warfare (EW), and signal support to unified land operations. The CCoE's Cyber and Signal schools train and educate the world's best cyberspace and EW operators while building Army capacity to provide integrated cyberspace, EW, and signal formations and capabilities in support of operations across multiple domains.

The CCoE serves as the force modernization proponent for Army cyberspace, EW, and signal force structure and capabilities. The CCoE determines and integrates capabilities across the Army force structure to shape the future force to operate in increasingly contested, congested and complex multi-domain environments while simultaneously denying the same to the adversary. The CCoE is the Army's leader for cyberspace, EW, and signal innovation – driving future concepts and generating relevant doctrine.

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