



CURTIS E. LEMAY CENTER

FOR DOCTRINE DEVELOPMENT AND EDUCATION



AIR FORCE DOCTRINE PUBLICATION (AFDP) 3-99 DEPARTMENT OF THE AIR FORCE ROLE IN JOINT ALL- DOMAIN OPERATIONS (JADO)

FIRES

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JADO VISION FOR FIRES

The JADO vision for fires is to achieve convergence across domains—the synchronization and integration of kinetic and non-kinetic capabilities to create lethal and nonlethal effects whose results are greater than the sum of their parts.¹ Air, space, cyberspace, land, maritime and electromagnetic spectrum (EMS) targeting cycles are synchronized and integrated at the [joint force commander](#) (JFC) level. Integration of planning cycles is required to synchronize, sense, target, and execute across domains for effective all-domain operations. To maintain tempo, staffs at each echelon need flexibility to observe and orient on new opportunities and quickly decide, target, and execute across all domains.

“There are no boundaries on this battlefield...there are no hiding places...there are no sanctuaries on this battlefield... So how do you win? I think you win by operating at a tempo that they can’t keep up with, and by putting them on the horns on multiple dilemmas... We need to create enough options for our warfighting commanders, that the enemy doesn’t know where we are going to come from next.”

**-- General James M. Holmes,
Commander, Air Combat Command**

PLANNING AND EXECUTION OF FIRES

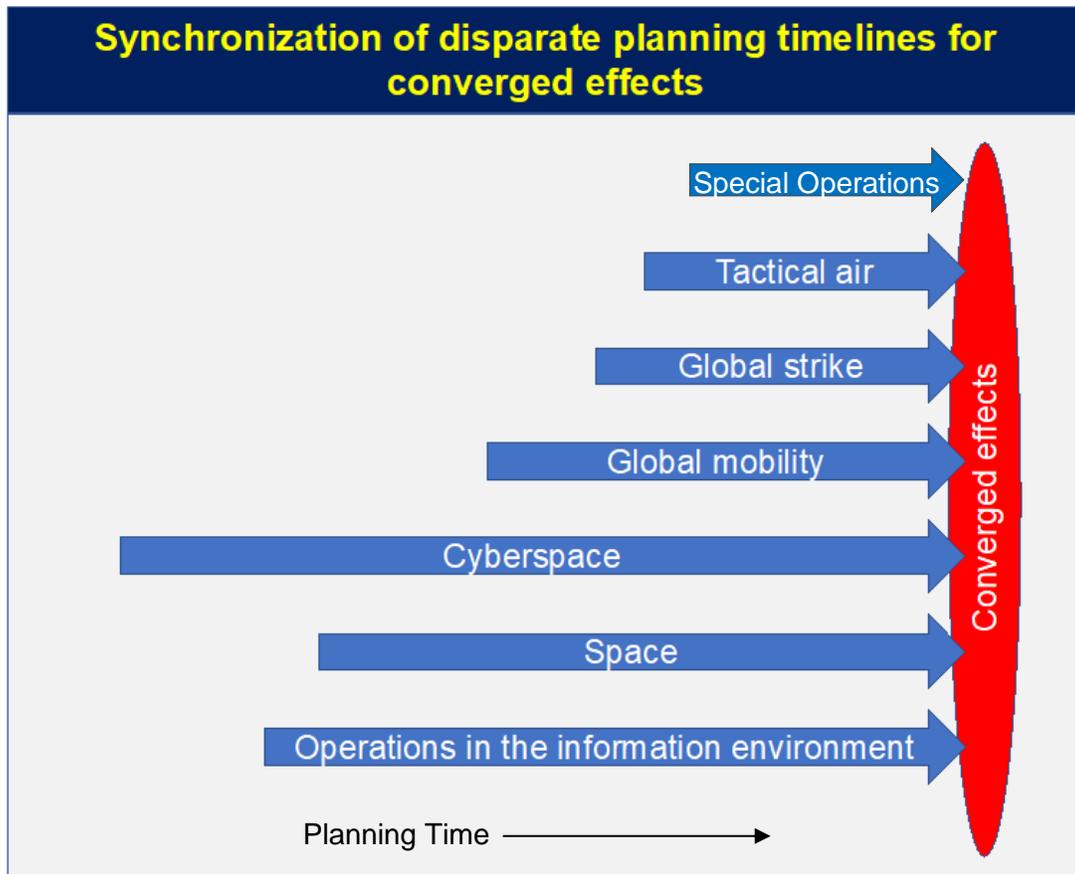
Convergence

Traditional methods for achieving mass² mean generating large quantities of forces to create overwhelming action against a target. Prevalence of precision-guided munitions, enabled by positioning, navigation, and timing, augmented by non-kinetic capabilities, allows for massing of fires with small numbers of dispersed forces. This complicates

¹ AFDP 3-0, [Operations and Planning](#).

² Joint Publication (JP) 3-0, [Joint Operations](#).

adversary defenses and allows friendly forces to create effects. Commanders can employ nontraditional fires to generate mass. As an example, mobility platforms can employ precision munitions from standoff ranges. Non-kinetic fires through space, cyberspace, the EMS, or other means provide additional mechanisms for creating effects. In JADO, mass accrues from synchronized convergence of kinetic and non-kinetic forces and capabilities. Achieving convergence requires alignment of disparate planning timelines so forces and capabilities are brought to bear at the time and place required to create desired effects.



Synchronization of Disparate Planning Timelines for Converged Effects

Targeting and Fires Integration

Targeting supports the process of linking desired fires effects to actions and tasks at the component level.³ For successful cross-domain fires effects, synchronization is necessary. Typically, synchronization occurs at the JFC level during a targeting coordination board as planning capabilities are presented by each component and domain. In JADO, synchronization planning must occur at echelons below the JFC to provide resiliency and speed in execution.

³ [JP 3-0](#).

The current targeting process includes air apportionment, but with JADO, the entire joint force requires an air apportionment-like process to ensure convergence. Using the JFC joint force apportionment decision and through collaboration, component commanders allocate forces, synchronize effects, and ensure weight of effort meets JFC intent and objectives. The integrated tasking order is the mechanism to frame fires synchronization in the targeting process.

CROSS DOMAIN KILLCHAIN EXAMPLE

During a recent operation, an enemy agent was tracked via their digital persona. Utilizing multi-domain intelligence sources, the interagency geolocated the individual in an untargetable location. As a result, the JFC chose to utilize a ground force to disable a critical piece of communications infrastructure which forced the enemy actor to move. Intelligence from multiple domains confirmed his new location, and the enemy agent was eliminated with no collateral damage.

Variations on this historical vignette have played out many times over the last two decades. JADO enables this level of integration at a scope and scale of a major combat operation.

