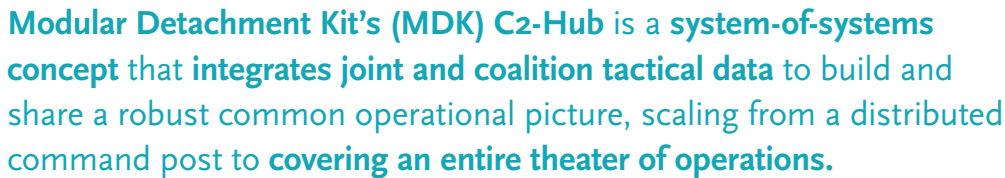# Booz Allen | Modular Detachment Kit

C2-Hub
Operations elevated. Control unmatched.

Modular Detachment Kit's (MDK) C2-Hub is a **system-of-systems concept** that **integrates joint and coalition tactical data** to build and share a robust common operational picture, scaling from a distributed command post to **covering an entire theater of operations.**

C2-Hub provides a solution for establishing distributed radar/tactical data link fusion and radio coverage across an entire Joint Area of Operations while connecting data across all echelons. C2-Hub establishes an open architecture for data sharing across a non-contiguous front-line trace, integrating relatively ambiguous boundaries between the air, land, maritime, and space domains and components.

MDK's C2-Hub integrates Counter-Unmanned Aircraft System (C-UAS) and Integrated Air and Missile Defense (IAMD) sensor capabilities across the force, extending early warning coverage to minimize or eliminate sensor gaps across the joint and combined common operational picture. C2-Hub employs sensor-agnostic fusion capabilities that can receive multiple types of military, civil, and non-traditional sensor data, maximizing battlespace visibility and accelerating the transition to Joint All-Domain Command and Control (JADC2). When interconnected with other C2 systems, the MDK C2-Hub creates a seamless C2 capability, blending ATAK, MSCT, FAAD, AMDWS, ADSI, TAIS, Advanced Simulation Combat Operations Trainer (ASCOT), and Common Aviation C2 System (CAC2S) to bridge theater-wide joint and combined remote and early warning sensors.

The systems engineering methodology provides our forces with unmatched operational advantage. Our C2-Hub architecture exemplifies our commitment to embracing technological trends that redefine the boundaries of military capability. Throughout the development process, our close engagement with warfighters ensured that their unique insights and needs were integrated—resulting in a system that not only aligns with tactical requirements but offers leaders enhanced situational awareness to make better decisions, faster across the joint and combined battlespace.

FEATURES

- **FULLY CONVERGED C2 SYSTEM:** Hardware, software, and vendor-agnostic design eliminates stove-piped system deployment and allows shared C2 data, ensuring information superiority and decision advantage

- **MODULAR, SERVICE-BASED PACKAGING:** Scalable deployment based on operational needs, enabling distributed command post and passive air defense

- **FLEXIBLE HOSTING:** Supports mission tailoring and future growth, including integration with sensor grids, cloud-based C2 apps, and AI/machine learning software

- **ALL-DOMAIN ADAPTABILITY:** Provides increased situational awareness; eliminates the need to move data via voice, email, or chat; and enables joint fires

Contact Information:

Nick Cornelius
cornelius_nicolas@bah.com

Jeremiah Johnson
johnson_jeremiah@bah.com

For additional resources, go to BoozAllen.com/MDK

C2-HUB CAPABILITIES USING MDK

Modular, Mobile, Survivable

The system is backwards compatible through its message management system that handles message formats such as Variable Message Format, J-Messages, Link-16, and is expandable to accept and translate international formats such as United States Message Text Format (USMTF) and Allied Data Publication 3 (ADaP-3). This approach allows the C2-Hub to adapt to changing mission requirements and enables interoperability with evolving combat systems to include coalition mission partners. C2-Hub updates connected user interfaces (UI) with the data available in native format, providing greater visibility and SA using their native interface.

Ease of Transition

Requires minimal retraining of the force as 35T, 13J 140A, 14G, 14H, 15Q, 150A, and 255N and other applicable Military Occupational Specialties (MOSs) will find it easy to integrate with the existing suite of mission command information systems.

The MDK C2-Hub supports training for Long-Range Precision Fires (LRPFs) and IAMD by incorporating a proven air-to-air, air-to-surface, and surface-to-air simulation with voice and data recording after-action review capability.

Long-Term Vision

The Booz Allen roadmap for additional advancements ensures our C2 approach consistently provides a rock-solid foundation for the future, as outlined in pertinent Army concepts and objectives supporting rapid innovation via cloud technologies. Our current configuration operates in an on-prem configuration that will soon support cloud-based containers and Kubernetes to enable both platforms as a service (PaaS) and software as a service (SaaS) capabilities. A Booz Allen-developed tactical data fabric will further expand the C2-Hub capabilities, interconnecting dissimilar data lakes into an artificial intelligence/machine learning abstraction layer supporting Army Linchpin.

Our Services and Approach

Built on a cloud-enabled foundation, MDK's C2-Hub provides a consolidated approach to fusing disaggregated sensors, tactical datalink (TDL), and remote radios on an open architecture for processing and sharing across domains.

Link components effortlessly to tailor your solution to the mission at hand. Create networked distributed tactical operations centers with ease. Distributing critical data across the formation in the consumer's native format, C2-Hub integrates fielded and emerging air defense sensors and shooters in the C-UAS fight. Scalable from a single laptop to theater-wide dominion, C2-Hub's open framework guarantees adaptable, efficient command and control for joint and combined forces. Your operations elevated. Your control unmatched.

Legend:
- Mission Command Information
- SATCOM
- Commercial 4G/5G

Booz | Allen | Hamilton®