

Requirements (2014)

Counterintelligence and Human Intelligence (CI/HUMINT) & Exploitation Enablers

Persistent & Denied Area Intelligence, Surveillance & Reconnaissance (ISR)

Theater Posture

Strategic Command, Control, Communications, and Computers (C4)

Counter Adversary Information Operations (CAIO)

Building Partnership Capacity (BPC)

Integrated Air and Missile Defense (IAMD)

Counter-Maritime Anti-Access Area Denial (CMA2AD)

Enhanced Cyberspace Capabilities

Improvised Explosive Device (IED) Pre-Detonation, Standoff Detection and Non-Lethal Weapons (NLW)

Light Close Air Support/Armed Reconnaissance Aircraft (LCAS/ARA)

- Cross-Domain IT systems access
- Detection of concealed or buried or submerged explosive devices at a safe distance
- Emerging new media and mobile communications capabilities that posture USCENTCOM to counter adversary efforts funding & recruits
- Systems and approaches for optimizing bandwidth
- Approaches supporting long-endurance aerial platforms capable of carrying multimodal sensors, weapons, communications packages, and a variety of other payloads
- Ability to conduct two-way information sharing across multiple network security domains
- Data standardization and techniques enabling large data transfer and manipulation in bandwidth constrained architectures
- Pre-detonation of detected and undetected explosive devices
- Offensive non-lethal capabilities, which enable warfighters to stop individuals, vehicles, vessels, and air platforms without resorting to lethal means
- Systems which enable the use of non-fossil fuel power sources
- Power management techniques, which enable more efficient use of available power sources
- Techniques enabling indications and warning of ballistic missile and rocket attack, and employment of manned and unmanned aerial systems operating in or out of denied areas
- Defensive non-lethal capabilities, which enable warfighters to distinguish between adversaries and non-combatants and provide clear warning to non-combatants straying into danger
- Wireless biometric match response for timely identification of watch listed individuals
- Counter cellular-initiated IED defeat
- PTT radio direction finding and monitoring system
- Tunnel detect
- Web-based advanced analytical platform to store, organize, access, retrieve, and enable full understanding of intel and info from disparate data sets
- Remote video integration capability

Joint Urgent Operational Needs (JUONs)

- Deep buried low and non-metallic IED detectors
- Explosive residue detectors suitable for extreme conditions
- Standoff detection of IEDs/chemicals
- Route clearance
- Optic Suite reduction of IEDs/all weather
- Increase Loiter time UAV up to months with significant payloads