

C4

Weapon System Team (WST)	Area of Interest	Rationale
C4.1 Command & Control (C2)	C4.1.a Human-machine teaming for accelerated decision making	Multi-Domain Planning, Execution & Assessment technologies including multi-domain effects characterization and quantification, autonomous course of action (COA) development and assessment, human machine teaming, distributed multi-domain coordination and tasking
	C4.1.b C2 capability in ACE (agile combat employment) environment	Resilient, distributed C2 capabilities to allow resource challenged forward operations to continue multi-domain planning and assessment when C2 operations center connectivity is degraded or contested
	C4.1.c C2 of manned/autonomous systems	Advanced C2 Battle Management capabilities to provide command & control over distributed forces (manned & unmanned teams) over a wide area to include contested environments
	C4.1.d All Domain Situational Awareness	Coordinated and synchronized ElectroMagnetic Spectrum Operations (EMSO) across multi-mission (cyber, EW, communications, radar, SIGINT, etc.) spectrum dependent systems
C4.2 Communications	C4.2.a Assured comms in HCE	Tactical information technologies for secure, seamless mission responsive information exchange and information fusion across the enterprise, including the disadvantaged user at the tactical edge
	C4.2.b Self healing mesh network	Advanced networked communication technologies that provide a seamless, agile, resilient, and secure network across the C2ISR enterprise to include reliable wideband Line of Sight/Beyond Line of Sight links, spectrum maneuverability, and secure tactical mesh inter-networking
	C4.2.c Open, software defined systems	Techniques and technologies that promote communication systems with open interfaces and interoperability leveraging open architecture standards and emerging agile software-based approaches