



DEPARTMENT OF THE AIR FORCE
AIR FORCE COMMAND AND CONTROL & INTELLIGENCE,
SURVEILLANCE, AND RECONNAISSANCE CENTER (AFC2ISRC)
LANGLEY AIR FORCE BASE, VIRGINIA

MEMORANDUM FOR C4ISR Community

FROM: AFC2ISRC/CC

SUBJECT: AFC2ISRC Warfighter Perspective

1. AFC2ISRC supports AF/XI initiatives to “influence, integrate, and improve” Air Force C4ISR capabilities. As the AF C2ISR Center Commander, my intent is to focus our energies on our ability to control forces. We have a unique opportunity to create the next revolution in Warfighting capability—a network centric information system that, within the next five years, will bring decision-quality situation awareness to commanders and provide full spectrum control of our warfighting forces. I believe in the team-based concept and I know our industry-acquisition-warfighter C4ISR community can make this revolution a reality.

2. The extraordinarily complex challenges facing our community can be outlined in three overlapping categories. We must succeed in each to deliver the operational capabilities needed by our airmen and the joint force to achieve effects-based operations on today’s battlefields.

- **Develop a CONTROLnet for the C2 Constellation.** We are working to achieve a revolution in our ability to control airpower through the Joint Tactical Radio System CONOPS, the Tactical Data Link Roadmap, and supporting waveform advances like the Tactical Targeting Network Technology. JEFX 04 will demonstrate C2 Constellation and CONTROLnet vision.
- **Execute CSAF’s AOC Weapons System vision.** Achieving machine-to-machine exchanges across the AOC—DCGS interface will result in more accurate and timely kill chain execution. As operational requirements lead we’re working with the acquisition community to provide the warfighter sight picture to MC2A, DCAPES, GCSS-AF and GCCS-AF. Advances such as Network Centric Collaborative Targeting and Global Network Centric Surveillance and Targeting will greatly enhance our ability to leverage existing sensors to improve target accuracy, timeliness and combat identification.
- **Engage the Joint Warfighter.** We’re developing a strategic partnership with Army, Navy, and Marine Corps C4ISR commands through our Tidewater C4ISR Integration Working Group. As Air Force lead for the JBMC2 Board of Directors, we’ll ensure Air Force C4ISR supports JFCOM’s development of Joint C2 Capability. Also integral to JFCOM’s JBMC2 mission, AFC2ISRC is Chair of the Family of Interoperable Operational Pictures Multi Service Management Team.

Global Reach-Global Power

3. We must remember our commitment is to the warfighter. As a community, we have concentrated our efforts at the conceptual high end of Network Centric Warfare. We've produced coherent Concepts of Operation that describe what we want to achieve through the CONTROLnet vision of the C2 Constellation. We must now move down into the details and I ask your consideration of the following areas of greatest concern:

- We must focus on control of forces and integration of current and future air and space C4ISR capabilities.**
- Our current requirements and acquisition cycle is UNSAT. We must work together to make capabilities delivered and effects achieved the only criteria for measuring success.**
- The Air Operations Center Weapons System is the C2 Constellation hub. Other nodes, platforms and capabilities are spokes driving the JFACC's warfighting capability.**
- Software must be "plug and play" and supportable 20 years from now. The benchmark is Industry and education "technological popularity." (C++ and JAVA not first and second generation outdated and unused programming languages, NO proprietary PC's)**
- Wireless systems will provide great advances in deployability. Our challenge will be to go wireless as soon as the technology and cryptology allows us to.**
- Our C4ISR community must jointly agree on standards necessary for building the C2 Constellation and JBMC2. Once established we must enforce these standard. An XML standard for database management solutions is but one example. We need a family of interoperable data bases.**
- We will not accept stand-alone, stove-piped, proprietary systems.**

4. I encourage your inputs and specifically challenge each of you to work with your Air Force C2ISR Center to achieve a warfighter's capability revolution.


TOMMY F. CRAWFORD
Major General, USAF
Commander