



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 No. 2

1. It has now been six months since I discussed our C4ISR partnership and how, with your support, the AFC2ISRC intends to execute the C2 Constellation vision of our Air Force leadership. With your support, we have made great progress in all three challenges facing our community. Our command intent remains to engage the joint warfighter, develop the ConstellationNet infostructure that will enable the C2 Constellation, and execute the Chief of Staff's AOC Weapons System vision.
2. Engage the Joint Warfighter. We are deeply engaged with Joint Forces Command and making great progress working with our Army, Navy and Marine Corps C4ISR partners supporting the JBMC2 Roadmap initiative and the Family of Interoperable Operational Pictures. We're also engaged in solving critical combat capability shortfalls like blue force situation awareness and tracking highlighted by recent Operation Iraqi Freedom lessons learned along with many other areas of common interest across the joint community.
3. Develop the ConstellationNet. Development of the C2 Constellation has advanced through publication of an in-depth description of its ConstellationNet infostructure. We continue to work the critical data link, wideband waveform and Joint Tactical Radio System issues necessary to achieve our net centric operational goals. We continue to make impressive progress in partnership with many of you as our efforts to demonstrate the potential of the C2 Constellation take shape in this summer's JEFX 04 at Nellis AFB.
4. Execute the CSAF AOC WS Vision. The third challenge facing us, executing the Chief's AOC Weapons System vision, was advanced recently when, with many of you in attendance, General Tom Hobbins, AF/XI, hosted the Chief at the 15 January 2004 AOC Weapons System Lead Systems Integrator (LSI) Industry Day here at Langley. Many of you heard General Jumper's thoughts on our requirements process and his ultimate vision of an AOC, deployable on a single aircraft, consisting of airmen and laptops.
5. I saw that vision through the lens of the AF Future Capabilities Wargame that I attended at General Jumper's direction during the Industry Day. The wargame was a very enlightening experience and drove home the critical importance of ensuring the AOC Weapons System is fully capable of performing as the hub of our C2 Constellation's Net Centric Operations of the future. Success of the AOC WS along with the LSI initiative will be crucial to our efforts to achieve that net centric future and achieving our immediate top goals for our Air and Space Operations Centers. Our immediate goals for the AOC WS are to standardize the weapons

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system and field five Falconer, nine tailored and two functional AOCs along with the FTU and Help Desk. The challenges we face:

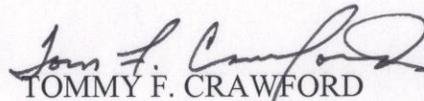
- Achieve machine-to-machine processes, a smaller footprint, enhanced deployability and scalability, and configuration flexibility will require the support of the entire C4ISR community.
- Migrate the AOC WS to a web-enabled, PC-capable application environment, redesign our databases and applications for network centric operations, and utilize portal technologies to share information and reduce legacy equipment costs. Our current flight plan achieves much of this goal through fielding TBMCS 1.1.2, then 1.1.3 and 1.1.4
- Break lock in the seemingly never-ending battle with proprietary systems and source code. The notion of “open systems” has to expand to include software that can be ported from the thick client world of UNIX to tomorrow’s thin client, web-enabled PC environment. TAP/EMR is a classic case of our need for industry to step up on a critical warfighter requirement—we need an affordable solution today, not five years and five million dollars down the road.
- Reinvigorate innovation, spiral development and experimentation and combine them with a “less money, more product” mentality that delivers, now. A great example is the simplicity of using Link 16 messages in the AOC. We’ve already paid for this information, it exists today and could provide incredibly detailed, critical warfighting information; unfortunately, these packets of information are simply dumped in the “bit bucket” because we didn’t ask for them to be displayed in the AOC ten years ago.

6. To ensure we remain focused on net centric capabilities for our future, I’ve directed colonel-level, internal AFC2ISRC “Application Boards” to meet quarterly. These boards will perform an in-depth review of a single application and develop metrics to determine applications

- Functionality – Does the application meet its design goals?
- Integration – Does the application function properly with other programs or is it an internal stovepipe? What are the applications data source requirements and “customers”?
- Cost – Is the application program properly funded?
- Schedule – When is the next deliverable and what capability will it add?
- Performance – Is the application being well-managed

7. I encourage your input and look forward to a productive, lively exchange on our net centric way ahead for the AOC Weapons System as well as the other programs AFC2ISRC is providing oversight to such as MC2A, DCAPES and DCGS. Together these systems and applications will build the C2 Constellation of the future. My bottom line is simple: we are at war and our community must deliver C4ISR net centric capabilities to the warfighter that our airmen can “plug and fight” the same day we deliver them.

8. I want to reiterate General Jumper's hope expressed to you at Industry Day that industry should scream loudly if they get something dumb from the AF. I continue to encourage your inputs and challenge each of you to work with your Air Force C2ISR Center to achieve a warfighter's capability revolution—capabilities we'll need when we're fighting a sophisticated enemy instead of the primitive ones encountered in both OIF and OEF. I look forward to hearing from you and receiving your support in continuing to provide our airmen the absolute best command and control capability possible as we engage the joint warfighter, develop the ConstellationNet and execute the AOC Weapons System vision to pave the road ahead towards our network centric future.



TOMMY F. CRAWFORD

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