



NDIA Disruptive Technologies Conference

Supporting the Warfighter: Building a Robust, Joint Triad Network

COL Bill Hickman Joint Staff J8 / United States Joint Forces Command J8F

Command and Control Functional Capabilities Board







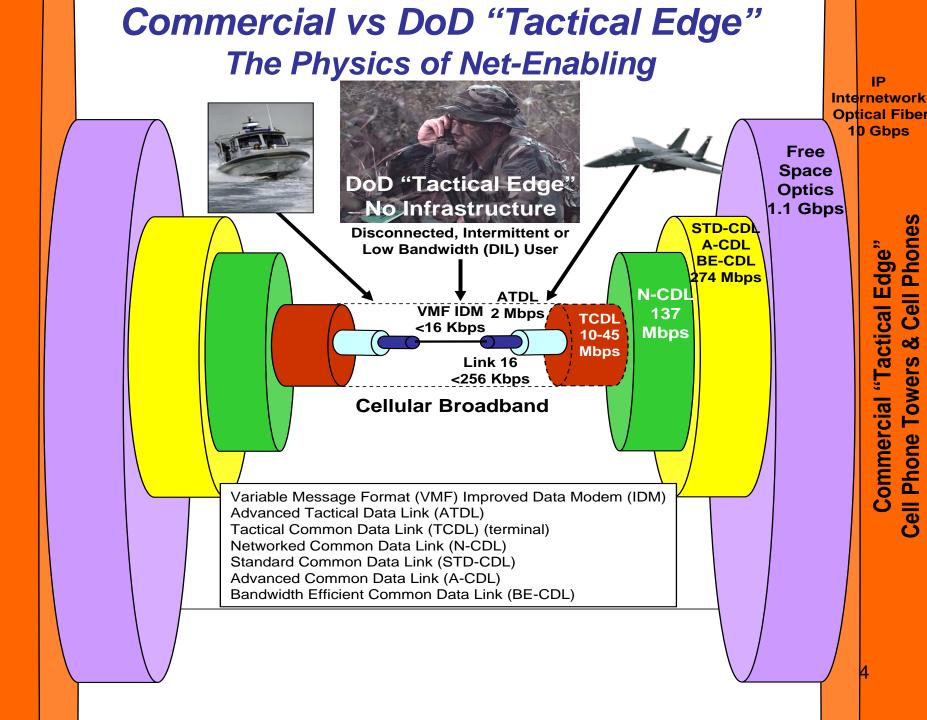
Inform industry of Joint Command and Control (C2) Capability Gaps as industry develops future C2 solutions in support of the warfighter across the range of military operations



US Joint Forces Command (USJFCOM)



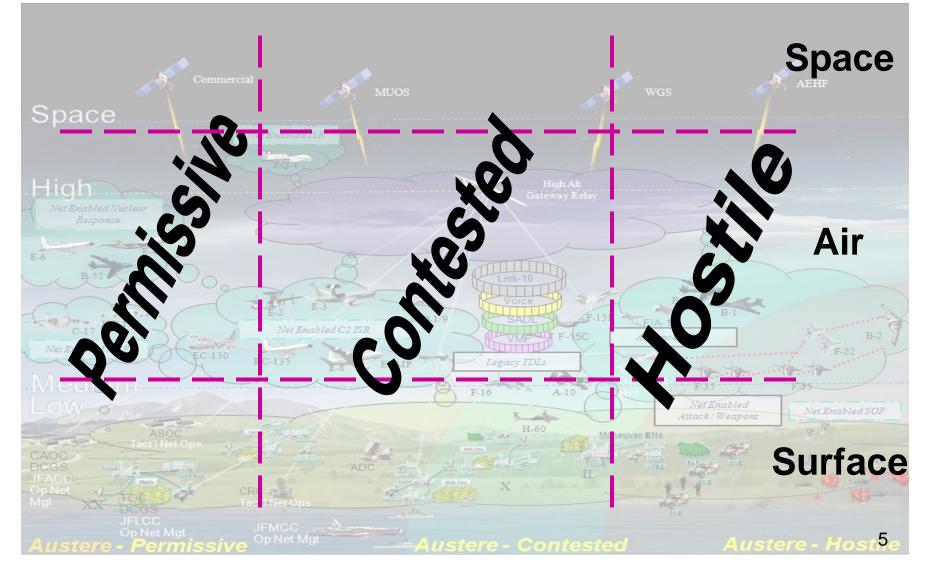
- C2 Capability Portfolio Manager -- Manage designated Joint C2 portfolio programs, systems, and capabilities across the whole spectrum of doctrine, organization, training, material, leadership and education, personnel, and facilities
- Delegated authority to manage & recommend approval to Joint Requirements Oversight Council (JROC) for Command and Control portfolio
 - C2 JCB Makes recommendations on JROC interest documents and assists JROC in carrying out its duties and CJCSI 3170.01G responsibilities
 - C2 FCB -- Integrates stakeholders views on C2 concept development, capabilities planning, and force development to ensure U.S. military can execute assigned missions





Leader Centric C2 ↔ Tactical Edge Very Technical / Very Complex

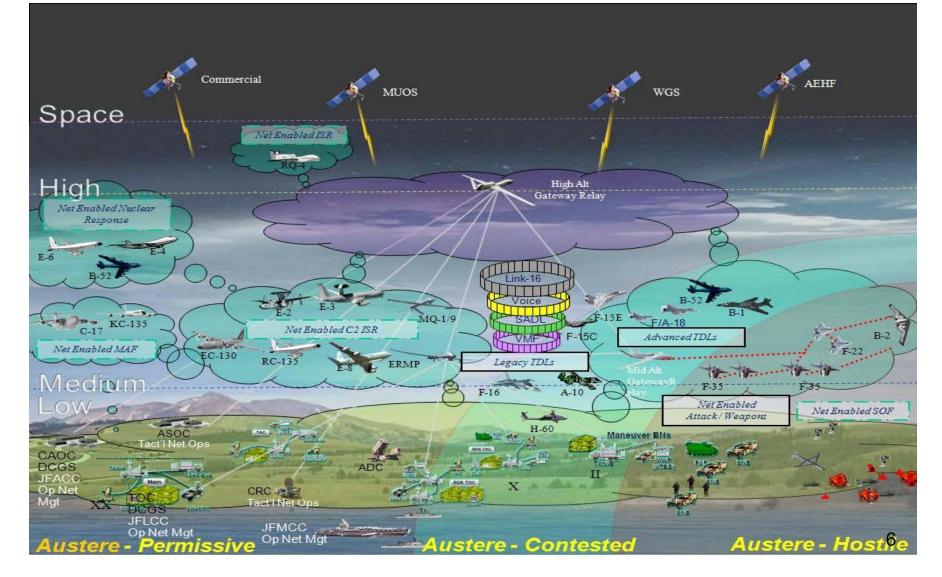






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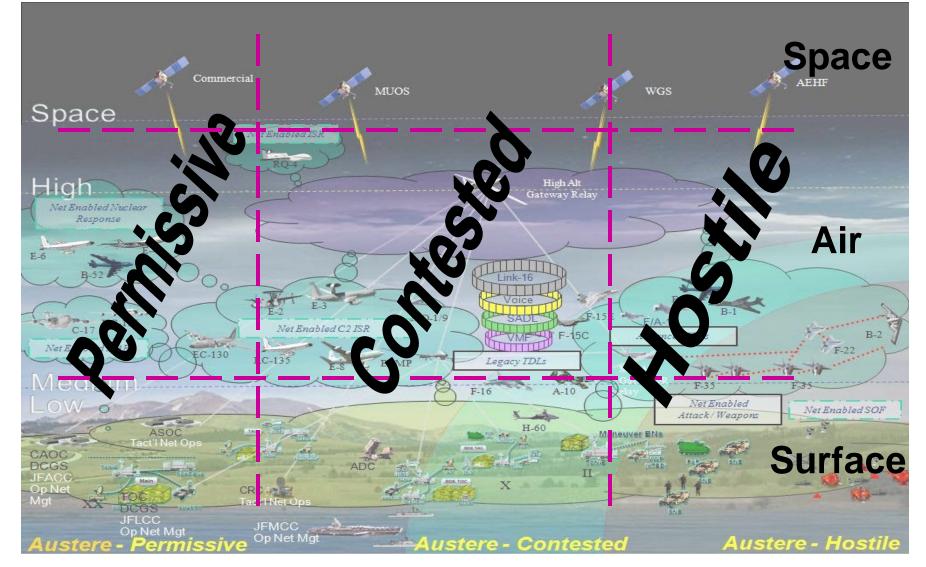






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Supporting Tactical Edge

Command and Control (C2) Capability Gaps & Challenges







JSCL Provides persistent survivable assured beyond line of sight communications that facilitate C2 for all users including coalitions/allies across the range of military operations

- Operational Challenges / GAPS
 - Global coverage and capacity when & where needed
 - Seamless communication
 - Integration into the Global Information Grid (GIG)
 - Survivability
 - Interoperability with COCOMS, JTF, & Coalition Partners







JALN Integrated with space and surface networks enables Leader Centric C2 and Battlespace Awareness in a netenabled environment, enabling advanced warfighter information exchange capabilities across the range of military operations

- JALN Capability GAPS
 - Connectivity
 - Capacity
 - Aerial Layer Network Management
 - Share Information and Data



Command and Control On The Move (ICD)



C2OTM is the capability to maintain situational awareness and make timely and informed decisions while moving anywhere within the operational environment across the range of military operations

- <u>C2OTM Capability GAPS</u>
 - Disconnected, Intermittent, Low Bandwidth Environment (DIL)
 - Common Interoperability Standards
 - Maintain & Share Situational Awareness
 - Accurate C2 to Subordinate Units & Mission Partners
 - Collaborative Planning
 - Shared Information with Mission Partners







- Common Interoperability Standards
- Global coverage and capacity when and where needed
- Connectivity
- Integration into Global Information Grid (GIG)
- Survivable
- Network Management
- Seamless communication ensuring accurate C2 to Subordinate Units and Mission Partners
- Shared Information/Data with COCOMS, JTF, and Coalition Partners
- Provide Collaborative Planning

Warfighter Tactical Edge

- Very Technical, Very Complex
 - Jointness is <u>Not</u> Natural
- Information Age Making it...

More Important and More Difficult

Need Processes for Collaboration / Consensus Building
Need to Work Solutions Through Multiple Lanes

With Partners

- Requirements

- Acquisition
- Programs

Need Technically Competent, Operationally Focused Assessment

 \bigstar Collaboration \bigstar Consensus Building \bigstar Compelling Logic \bigstar_{13}





Questions and Discussion

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