



C2 In Africa: 3 Case Studies Before And After Tactical C2



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Problem Statement



- USAF Tactical C2 Often Misunderstood
 - C2 Contributions Intangible
 - Overlooked As Silent Success
 - Not Until C2 Fails, Studied
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3 Case Studies AFRICOM



- Operation Odyssey Dawn/Unified Protector
 - Unnamed Operation #1: C2 of ISR
 - Unnamed Operation #2: C2 and SOF
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- E-8C JSTARS Common Tactical C2 Asset
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Libya: OOD/OUP

- 17 Mar 2011 UN Security Resolution 1973
 - Authorize Use of Force
 - Enforce No Fly Zone
 - Enforce UN Arm Embargo
 - Protect Civilians Targeted by Regime of Muammar Gadhafi and Supporters

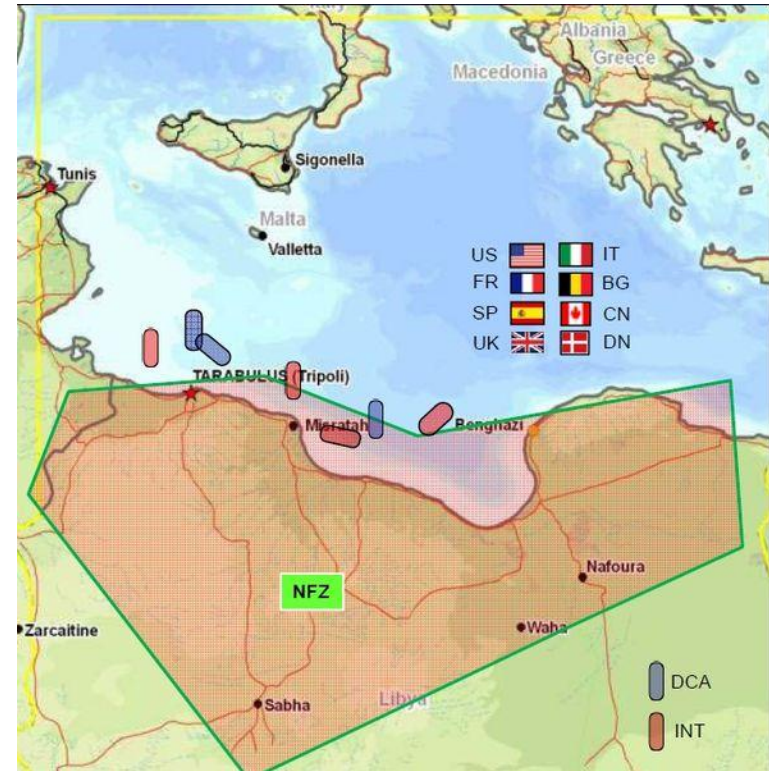




C2 Challenge



- Coalition Air Campaign
- EUCOM CAOC C2
- Operations Began Without Tactical C2
- Communication
- Political Constraints





C2 Challenge



- No Tactical C2
 - Enormous Burden on Aircrews
 - Complete Kill Chain Autonomously
 - No Direction
 - No Boots on Ground
 - Communication Capabilities
 - Aircrew Proficiency
 - Sensor Proficiency/Capability
 - Fuel Management
 - Limited Fuel
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With Tactical C2



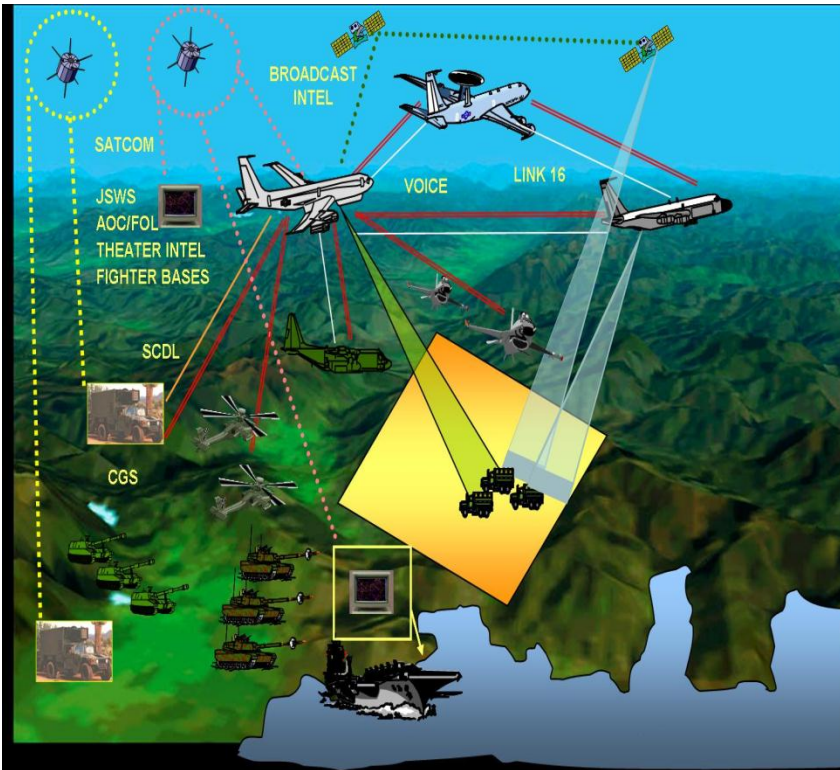
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- Orient Shooters
 - Pair Shooters With Targets
 - Solve Battlespace Problems
 - Speed Accurate Decision Making

Kill Chain Reduced From 20 Minutes to 20 Seconds



C2 and ISR

- Target Detection
- Apply ROE
- Commander's Intent
- Sensor Fusion
- C2 of ISR
- Detection + Intelligence = Refinement
- Refinement + Orientation = Targeting Efficiency





Unnamed Operation No.1

C2 ISR



- Sensitive Reconnaissance Operation
 - OPE – “Find/Fix/Track” Portion of Kill Chain
 - Mission Type Order
 - Layer Intelligence -- Cross Cue IAW CC’s Intent
 - Decentralized ISR Operations Demands C2
 - Avoid Stovepiped PED Organizations with No Action Arm
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Unnamed Operation No.2

C2 of SOF



- Africa – Austere and Remote Locale
 - TAC C2
 - Connect Multiple Operational C2 Nodes to Ensure Common Understanding (3 AOCs)
 - Bridge interservice, intraservice, or coalition agencies
 - Efficient Use of Air Assets in Resource Constrained Environment
 - C2 of ISR
 - Fog and Friction between SOF, Conventional Armies and Air Split Across Countries
 - Brought Clarity/Order to A Chaotic Ground and Air Situation
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War Demands More Robust C2 Not Less



- Culture
 - More Precision
 - More Detailed Information
 - Surgical Strike – Political Ramifications for CDE
 - US Likely To Provide Majority of C2, Electronic Warfare, Tanker Support
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Six Observations C2 in Africa



- 1. C2 By Definition is Joint
 - 2. Capacity To Provide C2 Usually US Assets
 - 3. Lack of TAC C2 = Less Decisive Operational C2 Structure
 - 4. TAC C2 Speeds Kill Chain
 - 5. Information Exchange Between Operational and Tactical C2 has to be Robust/Redundant
 - 6. Solving Problems at TAC C2 Level Permits Continuous Prosecution of Warfare
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Future C2 Thoughts



- Virtual Presence is Actual Absence
 - Communication in Contested Environments
 - Operate Effectively—Cyber, Anti Satellite Systems, EM Jamming
 - Technology – Reliable, Resilient, Interoperable, Easy
 - ISR Feeds C2
 - Meet C2 Needs of Non-Permissive Combat Environments
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Questions?