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

Maj Jason “Jaybird” Scott
116 ACW/Plans and Programs

Authors:
Maj Damon Matlock, USAF
Maj Jon Gaustad, USAF
Maj Jason Scott, GA ANG
Capt Danni Bales, USAF

CAO 18 June 2014
Problem Statement

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

- Operation Odyssey Dawn/Unified Protector
- Unnamed Operation #1: C2 of ISR
- Unnamed Operation #2: C2 and SOF

- E-8C JSTARS Common Tactical C2 Asset
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
With Tactical C2

• 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
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
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
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
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
Questions?