



Joint Airspace Control Issues

We Produce the Future

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Overview



Develop America's Airmen Today ... for Tomorrow



- Airspace Control Doctrine
- Joint Air Ground Control Cell Update



Purpose



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- To provide background information and identify key issues concerning various Airspace Control Doctrine Publications and the new Joint Air Ground Integration Cell



Airspace Control Doctrine



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- **Issue: Multiple Key Joint/Service AC2 Pubs up for review in 2009**
- **Background:**
 - JP 3-52 Airspace Control in the Combat Zone 1st draft Jan 09
 - AFDD 2-1.7 Airspace Control in the Combat Zone in final draft
 - FM 3-52 Airspace Command and Control (AC2) draft Jul 09
 - AF/Army ALSA Airspace MTTP in final draft Jan 09
- **Discussion:**
 - These pubs will lay the foundation for the future of AC2
 - USAFCOE is actively involved with the AF on AC2



Joint Air Ground Control Cell (JAGCC) Update



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- Issue: JAGCC was AF-Army effort to integrate airspace control and fires deconfliction over/within a Gnd Cdr's AO
- Background:
 - Four year long effort
 - AF Champions are ACC/A3F, HAF/A3-A5XS, LeMay Ctr
 - Concept briefed to AF and Army Chiefs at Feb AF Army Warfighter talks
 - **JAGCC is now officially Joint Air Ground Integration Cell (JAGIC) due to concerns on the word control**
- Discussion:
 - TRADOC is Army OPR, USAFCOE is Army OCR
 - AF and USAFCOE held concept conference Mar 9th at Sill
 - USAFCOE/DCG to brief 82 ABN Div CG on JAGIC prior to OEF
- JAGIC is alive and well



Joint Air Ground Integration Cell



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A modular and scalable cell designed to fully integrate and coordinate fires and air operations over and within the division commander's AO. The JAGIC collocates decision making authorities from the land and air components with the highest levels of situational awareness to support the maneuver commander's concept of operations, JFACC objectives and intent, and requirements of JFC designated authorities; e.g. ACA, AADC, etc. This cell collaborates to more effectively execute the mission and reduce risk at the lowest tactical levels.

Note: JAGIC description developed by Joint Army-Air Force mission analysis working group at Ft Leavenworth, KS, Feb 08; re-assessed and finalized during Army-AF operating concept working groups in Jul and Nov 08.

Command Relationships: IAW Existing Joint Doctrine



JAGIC Cliff Notes



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AETC

- Cell composed of ASOC, TACP, Fires, Intel, AC2, Air Defense, and other elements as required
- JAGIC does not replace any of these cells or C2 nodes; it defines the way they integrate organizationally and procedurally to conduct operations
- Established at each of the 10 active divisions within the Current Operations Integration Cell (COIC)
- Composed of those personnel directing and monitoring the current fight; i.e. crewmember-like functions
- Places operators performing related functions in close proximity
- Primary component for integrating air-ground operations into the ACA's airspace
- Critical work remains to identify key personnel, tasks and functions, crew makeup and optimum size



Army Way Ahead

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AETC

- **Army OPR initiate formal staffing of JAGIC Concept**
- **In conjunction with the Air Force:**
 - **Complete review of Concept and develop Army position**
 - **Assess during:**
 - **Omni Fusion 09**
 - **Earth, Wind and Fire 09**
 - **Staffing and experimentation insights to ARCIC**
 - **Revised Operating Concept to:**
 - **Army Air Force Integration Forum (AAFIF)**
 - **Army Air Force Board (AAFB)**



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Questions



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Backups



JAGCC Problem Statement



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Lessons learned from US combat operations repeatedly highlight significant difficulties integrating airspace control and fires deconfliction over and within a ground commander's Area of Operation (AO), particularly in areas of high density operations. This problem is due to the significant increase in Unmanned Aircraft Systems (UAS), multiple supported commanders within the same AO, doctrinal disconnects, the lack of reliable communications and a common operating picture resulting in ad hoc organizations and processes. Currently there is no single C2 authority/system facilitating horizontal component integration of air-ground operations at the lowest tactical levels. The inability to integrate all airspace users, fires, air defense and air traffic control in near-real time restricts combat effectiveness, efficiency and increases risk .



Army Investment in AC2



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- Multiple AARs and UONs
Army to invest in a low altitude airspace control capability
 - Prior to BC3 CRC unable to deconflict airspace in small enough volume to suit LC
 - Army will have 1600+ personnel dedicated to AC2
 - Significant investment in equipment
 - TAIS integrates AF Link 16 picture
 - Army investing in self reporting aircraft/UAS systems (BFT, Mode 5)
- Army changed A2C2 to AC2 in new (Feb 08 FM 3-0)
 - Branches are still not in total agreement who should be in charge of AC2
 - Branches still push back on concept of control
 - CAC at Ft LVN is Army AC2 proponent
- Army has embraced JAGCC concept in theory
 - JAGCC would enable Army, with AF augmentation and ACA authority to control a volume of airspace, less air defense



Army AC2 Transformation



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People

SBCT/HBCT/IBCT*	77	12 person ADAM/BAE
BfSB	5	12 person ADAM/BAE
CAB	19	9 person ADAM**
Fires	13	9 person ADAM
CSB	15	9 person ADAM

ADAM/BAE and ADAM total 1407

Division / Corps and Army AC2 cell are dedicated AC2 elements

Divisions	18	10 AC2
Corps	3	10 AC2
Army	5	6 AC2***

Total Div and higher 287



Total 1652 assigned
(no LNOs)

Pre-modular Force (AOE)
 - 16 Assigned
 - 180 LNOs



Army AC2 Transformation



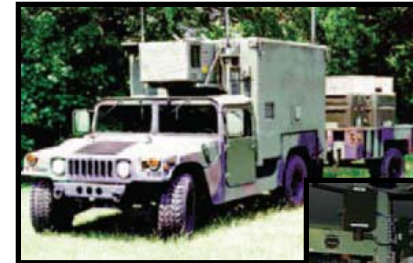
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Equipment

TSQ-221 TAIS

1 per Div and Corps	21
1 Per Div ATS company	19
1 per Airfield Detachment	



TSQ-253

1 per div and Corp	21
1 per I, S, H, BCT	77
1 per Fires, CAB, CSB, BfSB	52

AN/MPQ-64 Sentinel Air Defense Radar

2 per Div none per Corps (Sentinel)	36
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AN/TPN-31 ATNAVICS ASR / PAR Radar

1 per ATS company or Airfield Det	18
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