

MIDDLE EAST Civil/Military Cooperation in Air Traffic Management (ATM) Seminar Jeddah 16 – 19 September 2012

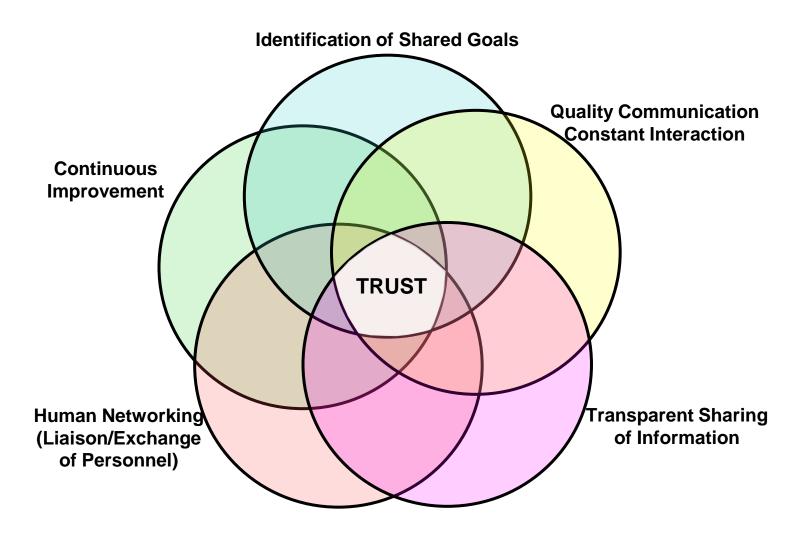


Optimizing the Relationship: Why Should Civil/Military Cooperate?

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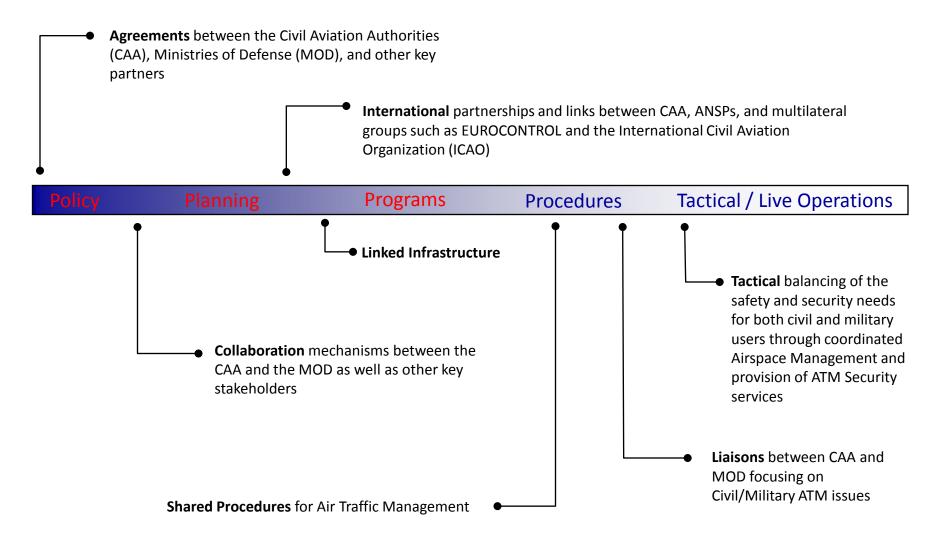
What is Cooperation?





Civ/Mil ATM Linkages Require Cooperation



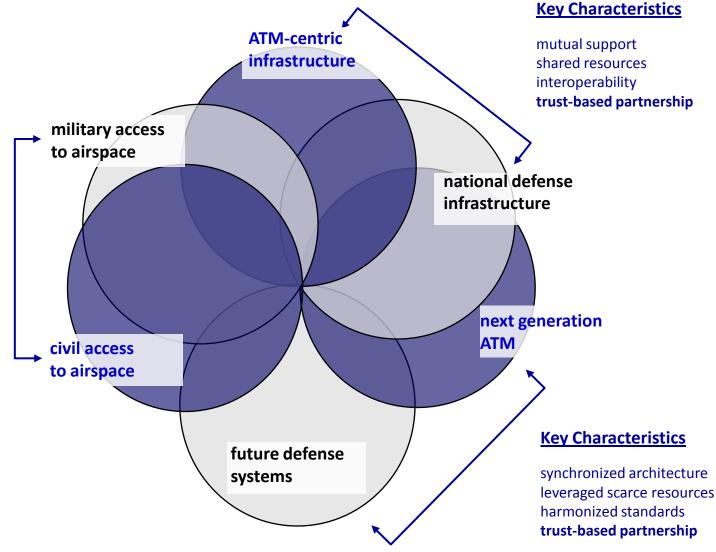


Shared Resources Require Cooperation





balanced access
efficient utilization
safe operations
shared airspace
heterogeneous traffic
common procedures
trust-based partnership





- Work between civil operators, the military, and other stakeholders to balance competing demands for airspace access and air navigation services takes constant effort
 - Cooperative solution: procedures and automation to improve the efficient use of airspace used by the military



- Military flights should be integrated with civil air traffic in a way that supports effective defense efforts by the military, enables effective provision of ATM security services by the ANSP, and ensures safe and efficient civilian and military flight operations
 - Cooperative solution: interagency coordination, especially needed for ANSP procedures supporting national defense including procedures for use of military Remotely Piloted Aircraft Systems (RPAS) in the airspace



 The emergence of divergent ATM technologies (e.g., GPS based verses ground based navigation aids) are challenging established arrangements for the sharing of infrastructure and shared situational awareness

 Cooperative solution: the integration of civil ATM and defense system needs through national programs



- Near and cross border defense and law enforcement operations are sometimes complicated by differing ATM security and military procedures
 - Cooperative solution: joint planning for ATM security procedures involving the neighboring military, law enforcement, CAAs and ANSPs.

Productive Partnerships Require Cooperation



- More efficient / optimized sharing of scarce airspace
- Safer interactions of military operations with civil flights
- Safer and more efficient ATM through common procedures
- Better ATM security services that mitigate impacts of incidents and security responses
- Faster identification of anomalies posing potential threats
- Improved discrimination between legitimate traffic and genuine threats

 Leveraged scarce resources through shared / interoperable systems (radios, radars, etc.)

Military

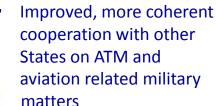
Industry

CAA / ANSP



Improved Crisis Management

Operators



aviation related military matters

Synchronized development of future ATM architecture

Cooperation on transformational ATM technologies

Harmonization of key ATM standards



Why Cooperate?



- Civil/Military Cooperation in ATM is essential because of:
 - Intersecting mission responsibilities, infrastructure needs, and technology development trends
 - Mutual benefits of safety, security, efficiency from enhanced cooperation between the ANSP and military
 - Key areas of shared complexity (e.g. airspace and crisis management) and promising ways forward through strengthened cooperation

Why Cooperate?



 The ANSP supports the military's national defense mission in terms of:

- Legal responsibilities and authorities, including the ANSP's responsibilities and authority over airspace to support air commerce (i.e, civil air traffic) and national defense
- Operational ATM capabilities and security services involving air traffic control (ATC) and shared communications/navigation/surveillance systems

Why Cooperate?



 Respect, collaboration, cooperation, and understanding of each other's missions come only through Civil/ Military engagement and building of trusted relationships

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