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NAM/CAR/SAM

Civil/Military Cooperation Seminar

ICAO Cir 330

26 – 30 May 2014



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Circular 330-AN/189 Civil/Military Cooperation in Air Traffic Management



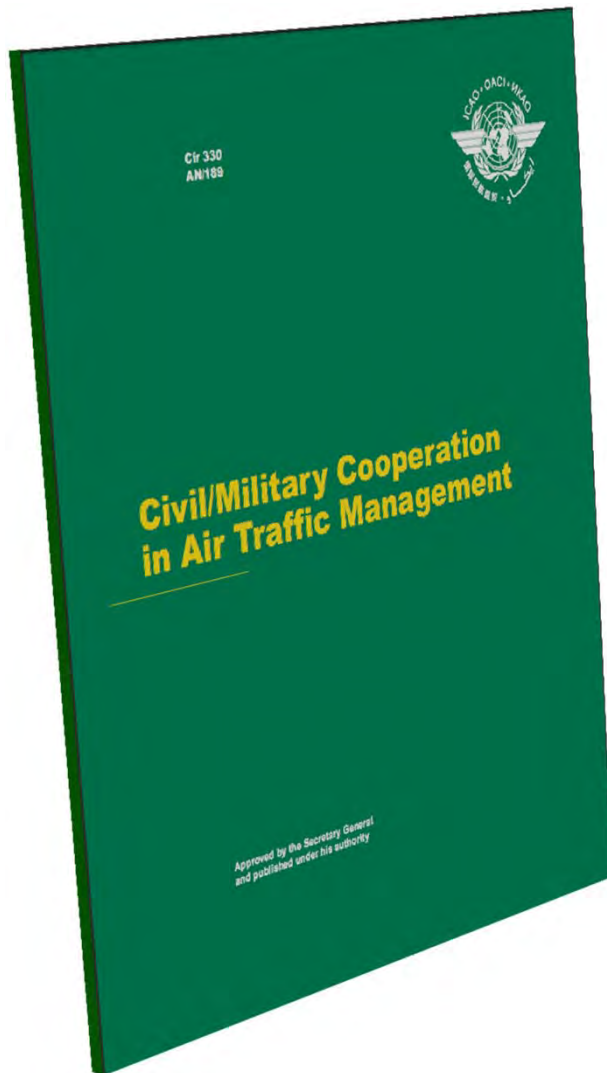
Guidance Material Rationale

- Growing demand x finite capacity
- State responsibility
 - Civil aviation impact on the global economy and environment
 - Obligations to national/international security and defense
- Enhance civil-military cooperation and coordination





ICAO Guidance Material - Circular 330-AN/189



-  Institutional and regulatory framework
-  Civil/Military Interoperability
-  Airspace organization and management
-  ATM Security and ATM in crisis situation
-  State aircraft operations
-  Summary - Civil-military Collaboration a global challenge
-  Appendices: Best Practices of Civil-military cooperation



Interoperability

- Interoperability can be considered as the ability of “systems” (not exclusively technical systems) to provide information and services to, and accept information and services from, other systems and to use the information and services so exchanged.
 - Strategic and/or Political Interoperability
 - Operational and Technical Interoperability
 - Regulation and Standardization

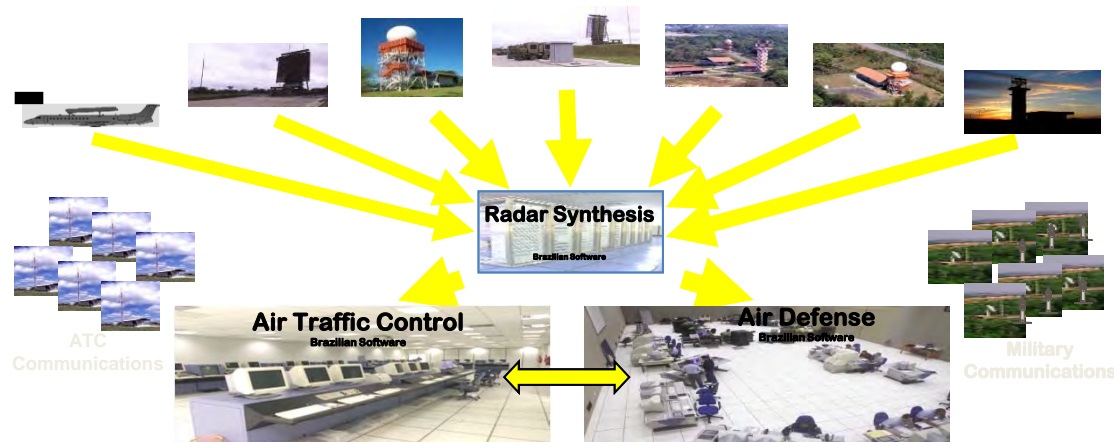


Interoperability

- Strategic and/or Political Interoperability



- Operational and Technical Interoperability





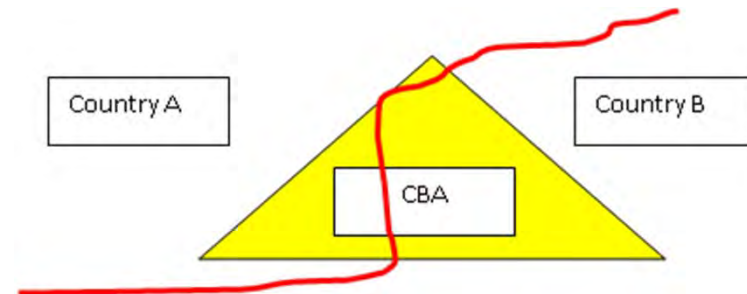
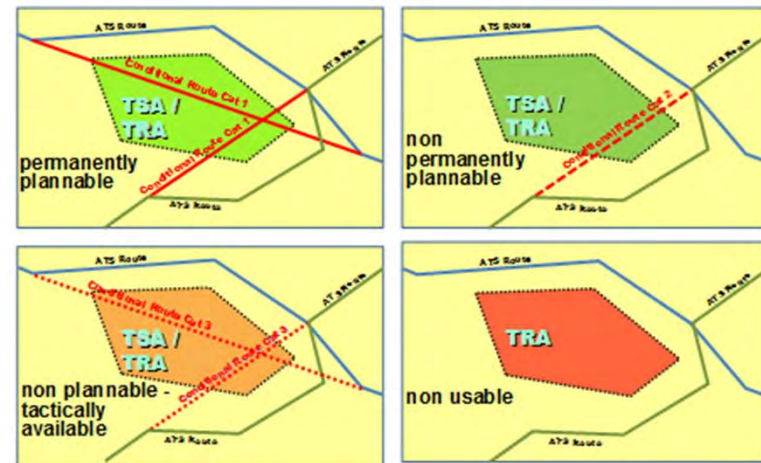
Airspace Organization and Management

- Flexible use of airspace (FUA) is an airspace management concept based on the principle that **airspace should not be designated as purely civil or military**, but rather as a continuum in which **all user requirements are accommodated** to the greatest possible extent.



Airspace Organization and Management

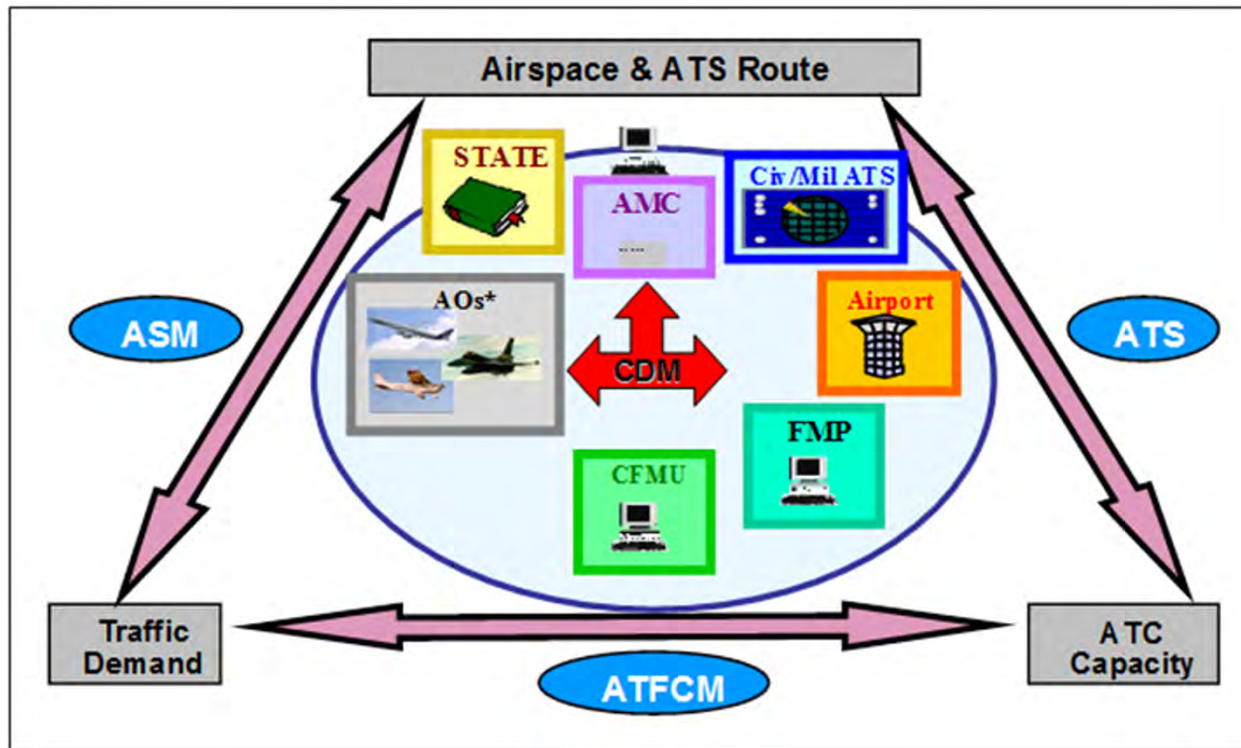
- FUA concept - flexible and adaptable airspace structures
 - Conditional routes
 - Temporary reserved area (TRA)
 - Temporary segregated airspace (TSA) and
 - Cross-border area (CBA).





AOM

- Collaborative Decision Making (CDM) could be defined as the process whereby all ATM decisions, except tactical ATC decisions, are based on sharing of all information relevant to air traffic operations between all civil and military partners.





ATM Security and ATM in crisis situation

- ***ATM security***
 - Safeguarding of the ATM system from security threats and vulnerabilities
 - Contribution of the ATM system to civil aviation security, national security and defence, and law enforcement.
- ***ATM in crisis situation***
 - Unforeseen or short-notice situations that occur outside the steady state of the routine global ATM system (for example: earthquakes, hurricanes, conflicts).



ATM Security and ATM in crisis situation





State Aircraft Operations

- **State Aircraft**

- In accordance with the Chicago Convention, Article 3 (b), “Aircraft used in military, customs and police services shall be deemed to be State aircraft”



State Aircraft Operations

Common Interests

Safety

No duplication or unnecessary
equipage

User
preferred
routing

On time departure/arrival

Constant
descent to
landing

Efficiency

Security





State Aircraft Operations

...but they are different



FULLY-COMPLIANT OPERATIONS

PARTIALLY-COMPLIANT OPERATIONS



Summary

- This circular was prepared by civil and military experts and offers guidance on and examples of successful practices for civil and military cooperation.





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