Civil-Military Coordination of Airspace Utilization in the Russian Federation

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Russian Federation Airspace

- Sovereign and delegated airspaces – over 25 mln. sq. km, including 9 mln. sq. km over High Seas
- Total length of air routes – over 590 000 km, including over 150 000 km of international routes
Joint Air Traffic Management System (before 2006)

- Ministry of Transport of the Russian Federation
- Ministry of Defence of the Russian Federation

- State ATM Corporation
  - Main ASM/ATFM Center
    - Civil sector (1)
    - Military sector (1)
  - Zonal ASM/ATFM Centers
    - Civil sectors (12)
    - Military sectors (8)
  - Area Control Centers
    - Civil sectors (108)
    - Military sectors (44)

Operational Units
ATS units at Civil Aerodromes

National Airspace Utilization
Regional Airspace Utilization
Airspace Utilization & Air Traffic Services
**Phases of ANS Development**

**Long-term objectives:**
- Complete transition to advanced technologies
- Ensure automated interfaces between all system components
- Ensure large-scale implementation of “free flight” concept
- Integrate Russian ANS into global air navigation infrastructure

**Short-term objectives:**
- Accomplish establishment of ANS functional framework
- Make advantage of existing technology
- Ensure harmonization with similar ANS systems of CIS and other adjacent states

**Medium-term objectives:**
- Ensure transition from conventional to advanced systems in accordance with ICAO CNS/ATM Concept and Global ATM Operational Concept
- Implement advanced integrated systems based on new technologies in particular regions of Russia
- Integrate Russian ANS into EUR ANS
Consolidated ACCs (by 2015)
CNS facilities

NAV facilities – 2000 positions
RADAR facilities – 400 positions
A/G COM facilities – 400 positions

Provides air navigation services

ATS routes: more than 590,000 km
Aircraft: more than 1,000,000 flights annually
Civil-Military Coordination of Airspace Utilization

The fundamental process of joint and safe airspace utilization by civil and military users without compromising their needs
Civil-Military Coordination Levels

- Strategic Level
- Pre-tactical Level
- Tactical Level
Civil-Military Coordination
Strategic level

The regulatory documents of the Russian Federation Air Law set forth long-term priorities for airspace use by civil and military users with due consideration to economic and defense tasks, national and international needs. At this stage, appropriate authorities, mechanisms and procedures are identified to ensure airspace management at pre-tactical (prior to airspace use phase) and tactical (during the airspace use phase) levels.
Civil-Military Coordination
Pre-tactical level

Operational ASM units fulfill routine tasks of airspace management and allocation. They are responsible for TRAs, CDRs, daily airspace utilization plan compilation and updating.
ATS units are provided with necessary procedures and equipment to ensure real-time civil/military coordination of airspace utilization.
Transition to airspace utilization and air traffic management system based on the state regulation of a single-fragment ATM system with civil/military coordination ensures advanced development of ATC concept and its enhancement.
Thank you for your attention!