



| ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY



Frequency Management in the EUR Region

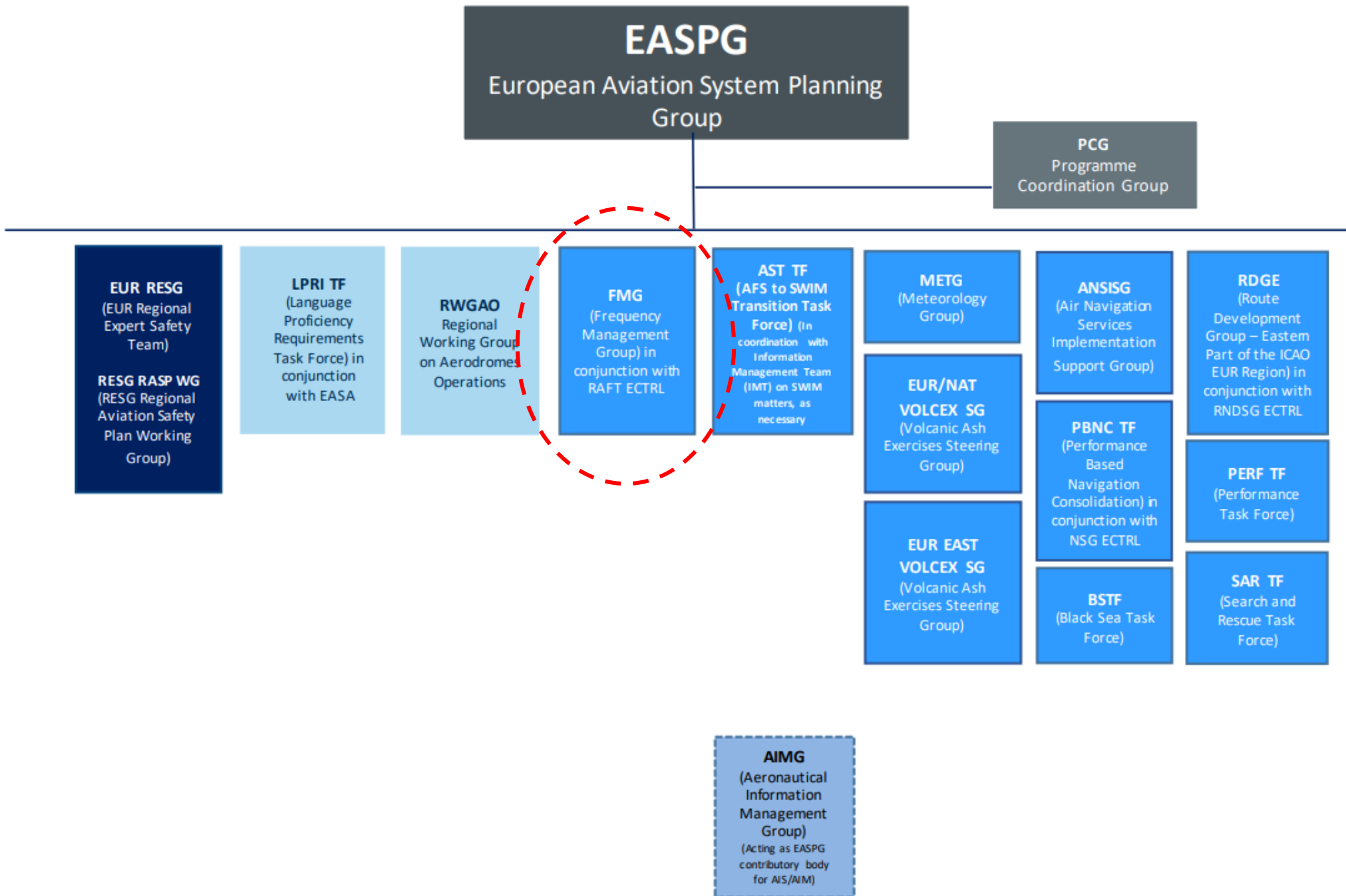
Abbas Niknejad

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ICAO EUR/NAT

October 2025

Regional Framework

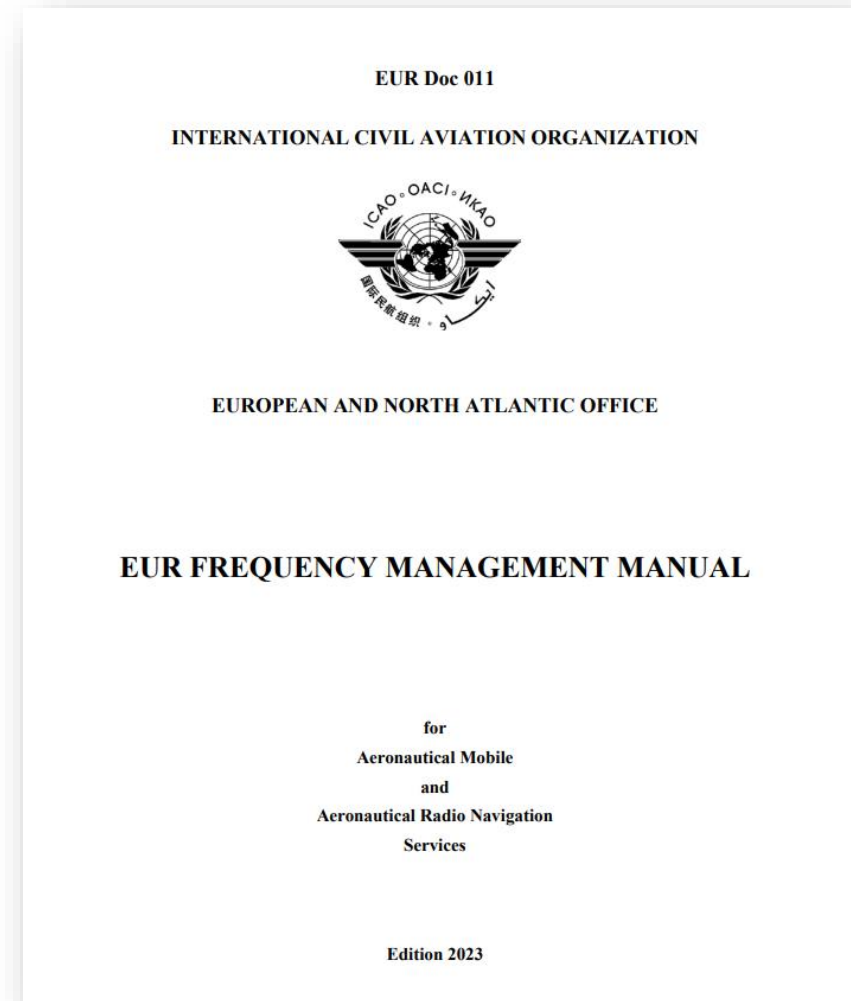
- ICAO European Air Navigation Planning Group (EASPG), as the Planning and Implementation Regional Group (PIRG) in the EUR Region established by the ICAO Air Navigation Commission (ANC), oversees regional planning.
- EUR Frequency Management Group (FMG), established by the EASPG, coordinates aeronautical frequency management.
- EUROCONTROL Radio Function Team (RAFT) works jointly with ICAO FMG.
 - *ICAO EUR FMG Chairperson: Mr. Vassilios HOUDZOUMIS (Greece)*
 - *EUROCONTROL RAFT Chairperson: Mr. Bogdan PETRICEL*
- ICAO and EUROCONTROL cooperate closely under ICAO EUR Doc 011.
- Coordination and the registration of EUR region frequency assignments are through SAFIRE (Spectrum and frequency information resource), a web-based system operated by EUROCONTROL.



EUR Frequency Management Manual (EUR Doc 011)

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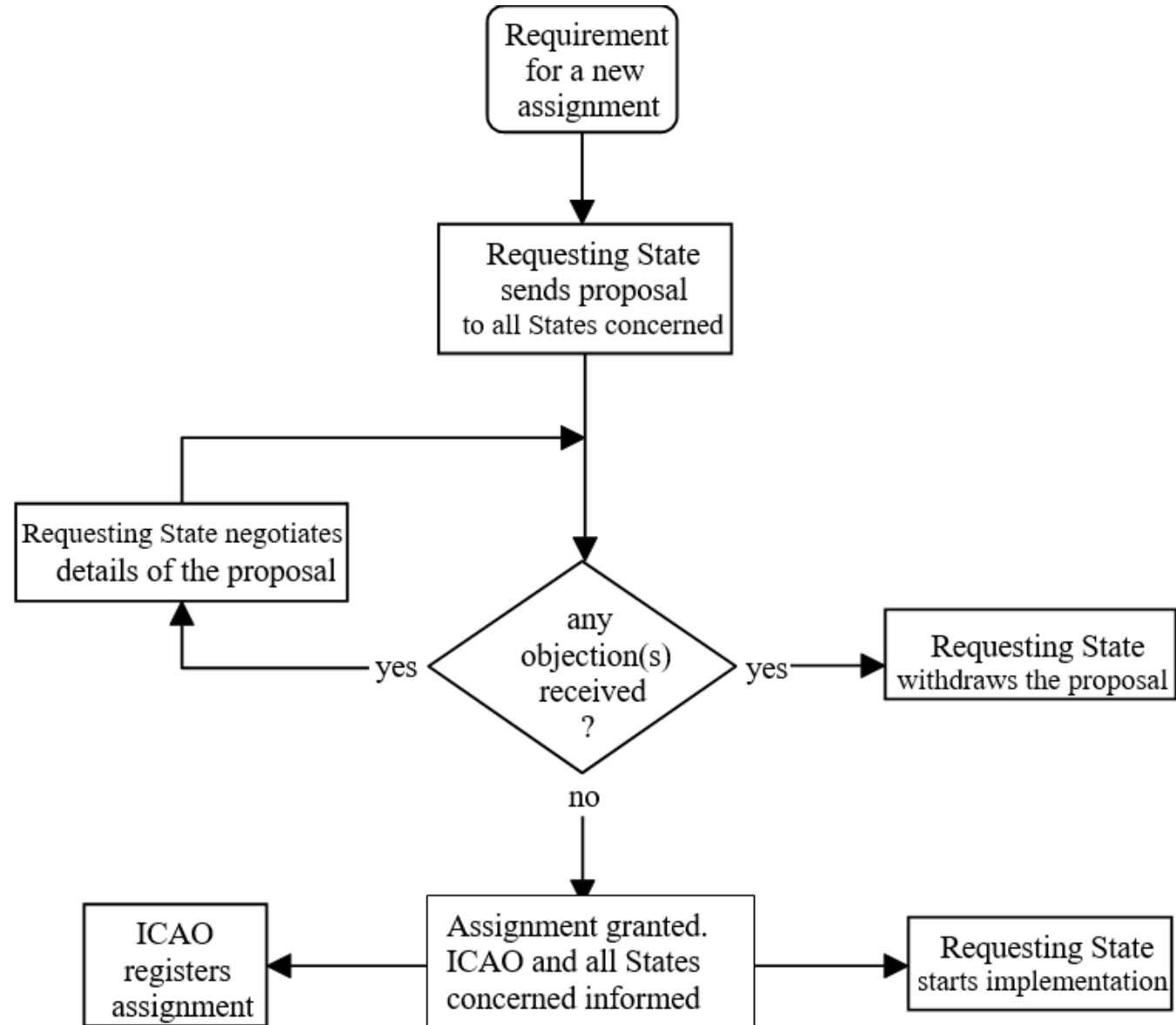
- EUR Doc 011 – The EUR Frequency Management Manual defines the regional procedures, criteria, and coordination mechanisms for aeronautical frequency management in the ICAO EUR Region. It provides guidance on planning, coordination, and registration of frequencies to ensure harmonized, efficient, and interference-free use of the aeronautical spectrum in the EUR Region.
- ICAO EASPG endorses the ICAO EUR Doc 011 (EUR Frequency Management Manual) based on the updates and inputs received from FMG/RAFT.
- Scope:
 - LF/MF: 255–495 kHz / 505–526.5 kHz – NDB/Locator.
 - VHF: 108–117.975 MHz – ILS LOC/VOR/GBAS.
 - VHF: 117.975–137 MHz – Air-ground COM.
 - UHF: 328.6–335.4 MHz – ILS Glide Path.
 - UHF: 960–1215 MHz – DME.
 - SHF: 5030–5150 MHz – MLS.



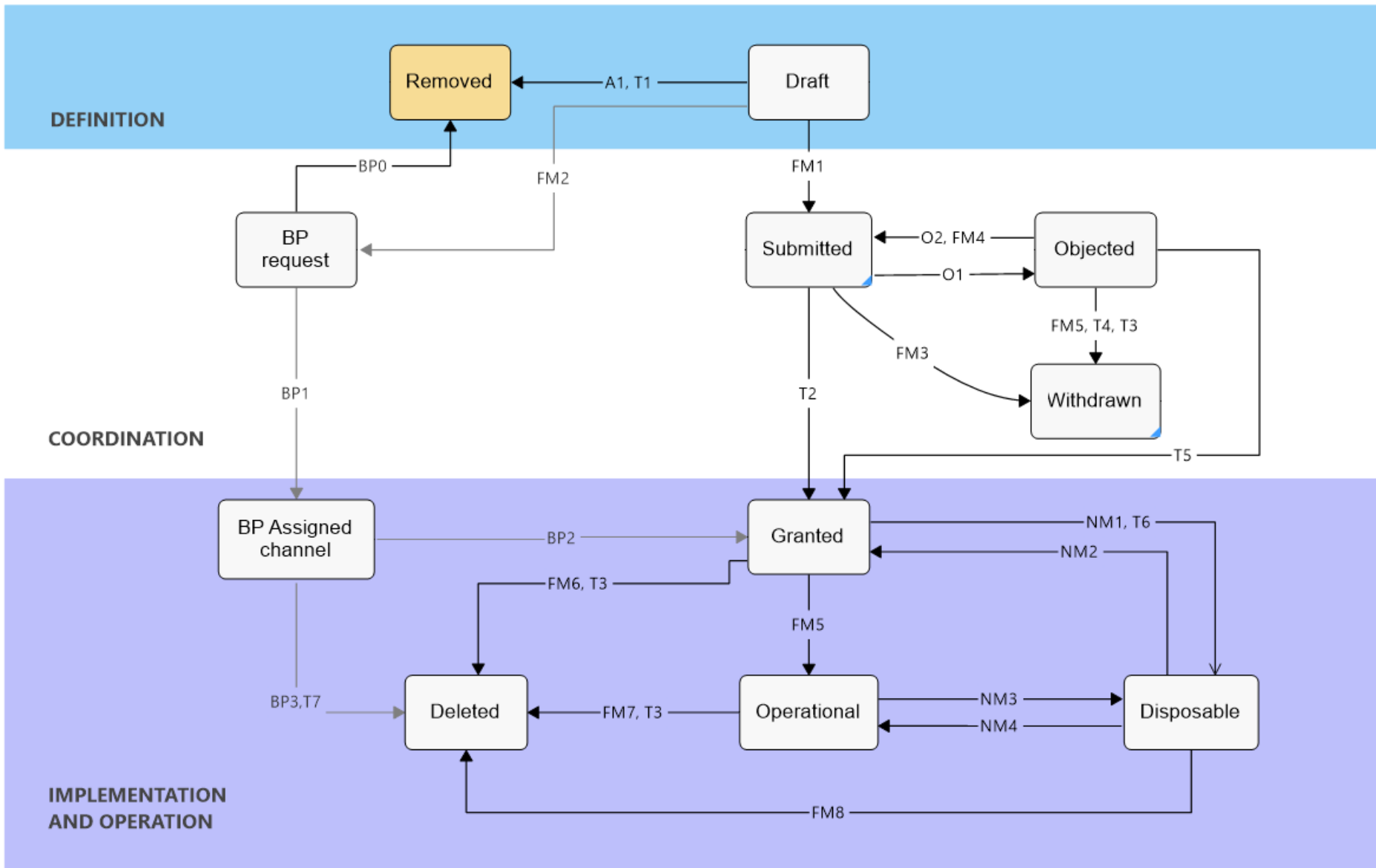
Frequency Management Group (FMG)

- Maintain and update EUR Doc 011 and EUR ANP.
- Monitor and coordinate implementation of ICAO SARPs and procedures in the domain of frequency spectrum management.
- Identify and address regional spectrum management issues.
- Facilitate exchange of expertise and knowledge among States.
- Liaise with relevant regional and international bodies.
- Members: experts nominated by EASPG member States and observers.
 - *Canada, USA and Iceland are members of the FMG for direct coordination between EUR and NAT.*
- ICAO FMG meets twice per year jointly with EUROCONTROL RAFT.
- ICAO EUR/NAT Office serves as Secretariat.

Basic Aeronautical Coordination process



Additional coordination process applied to ECTL Member States



- Spectrum and Frequency Information Resource (SAFIRE) – web-based system operated by EUROCONTROL, for the coordination and the registration of EUR region frequency assignments.
- Used by national frequency managers (NFM).
- Operational since 2009 under EASPG Conclusion 50/20
- SAFIRE and ICAO Global Database (Frequency Finder) synchronize their data so that there is harmonized data in the both databases.

Challenges

- Interregional coordination
- Exchange and synchronization between ICAO Global Frequency Finder (FF) and the SAFIRE (action ongoing between EUROCONTROL and ICAO)
- Scarcity (or congestion) in frequency availability.
- Continuous refinement of compatibility criteria



Thank You!