

ITUEvents

ITU in service of space

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French experience in
regulating the use of the
radio-frequency spectrum and
satellite orbits

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Missions entrusted to ANFR

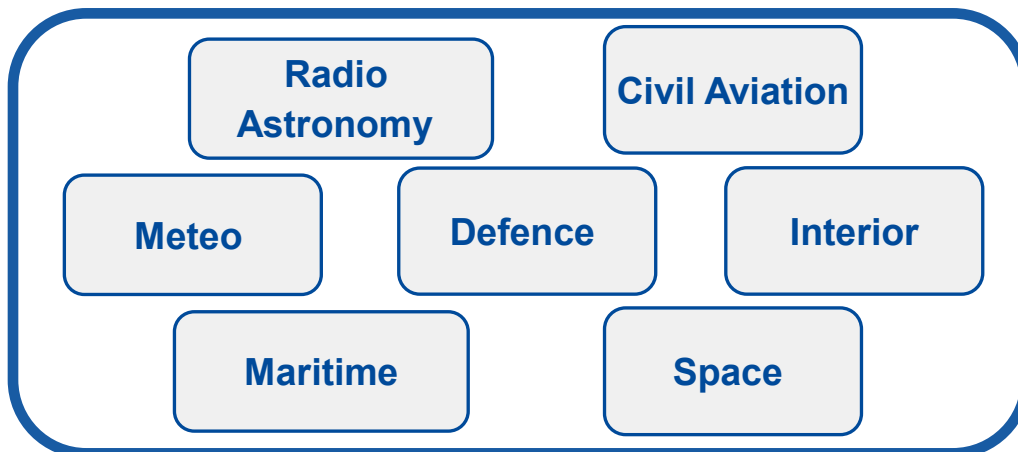
- ANFR is in charge of planning, managing and controlling the use of radiofrequencies, which belong to the State Public Domain (Art L.43).
- ANFR prepares and coordinates the French representation in international negotiations related to the use of radiofrequencies.
- Regarding satellite systems:
 - It instructs on behalf of the French Government applications for authorization (Art. L. 43 – I)
 - It receives requests for assignments relating to satellite systems and declares them to the ITU, unless they do not conform to the NFTA or the instruments of the ITU (Art. L.97-2.-I.-1)
 - It collects the fees corresponding to the costs of processing of the filling declared to the ITU (Art. L.97-2.-I.-2)
 - It can search and find the corresponding offences (Art. L. 97-3. –2)

Institutional organization for spectrum management in France

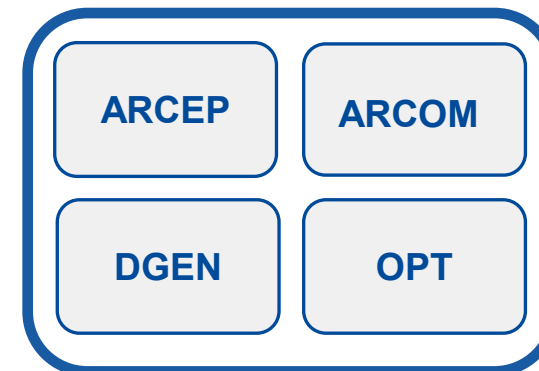
- ANFR defends French position in more than **60 international fora**.
- The licenses on the national territory (No. 18.1) are granted by the regulators or governmental users.



Governmental Users



Regulators (Independent Authorities)



French satellite operators

- Private operators
 - Eutelsat S.A., Orange, Thalès Alenia Space, Airbus Defence and Space SAS, [Duniasat], Echostar Mobile Limited, Globalstar Europe S.A.R.L., [Nova Nano], [Horizon Sat], O3bNext Lux S.A.R.L., OneWeb Ltd, [Satt AXLR], **Unseenlabs**, Inmarsat Solutions BV, [Avanti Communications Group], **Kinéis, SpaceAble, Syrlinks, Stellar Telecommunications SAS, ArianeGroup, Prométhée, Hemeria, U-Space, Exotrail, Space Network Services, CCC Communication Holdings France, E-Space, The Exploration Company SAS, Gama, ...**
- Governmental entities
 - CNES (including some universities), French Ministry of Armed Forces
- France is also acting as a notifying administration for
 - the European Space Agency (F/ESA), Galileo – the European Commission (F/GLS), EUTELSAT IGO (F/EUT)
- The French administration manages around 600 filings (IFIC2998)

ITU process

- We notice a sharp increase in the number of small and medium size enterprises since 2021. They are often less experienced in the ITU procedures than the historical satellite operators.
- For an administration, it is important to help these operators build their initial filing, in order to avoid too generic descriptions (ex. S-band for space operations).
- Generic filings are time-consuming for the operator, its administration and all other administrations involved. It is preferable to analyze the MIFR before submitting a filing.
- ITU has set a number of guidelines
 - ITU Circular letter CR/420
 - ITU Recommendations SA.2155-0 and SA.2156-0 (CEPT considers making these mandatory)
- ITU world/regional radiocommunication seminars are very useful for administrations.

Derogation from the RR under No. 4.4

- Some satellite projects voluntarily derogate from the agreed framework (the “Radio Regulations”), using No. 4.4.
- According to the Rules of Procedure, the notifying administration shall determine:
 - a) that there is no harmful interference into the stations of other administrations operating in conformity with the Radio Regulations;
 - b) the measures to comply with the requirement to immediately eliminate harmful interference pursuant to No. 8.5.
- The French administration kindly requests such studies from other administrations using No. 4.4, but has received almost no responses.
- The use of 4.4 does not exempt MS from having to discuss in good faith with other MS having concerns with the protection of their stations.
- CEPT is developing a regulation on satellite-to-device and satellite-to-SRDs communications.

Notifying administration

- Some operators are using multiple filings from different administrations for the same system. Which administration is responsible in case of interference?
- There is also a risk of circumventing national legislations (“forum shopping”).
- In such cases the French administration agrees with the other administration on the responsibilities, and suspends the French frequency assignments if necessary.
- France fully supports the BR proposal to modify No. 19.1.1, to make sure that « all transmissions shall be capable of being identified », without exception for space systems (§3.1.7 of the draft report of the BR director to WRC-23).
- One transmission = one flag.