

INTERNATIONAL FREQUENCY COORDINATION

Processes, Results and Tasks

Serbia

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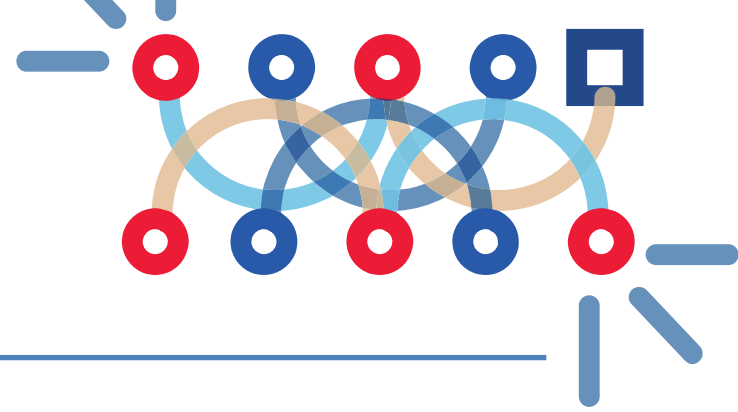
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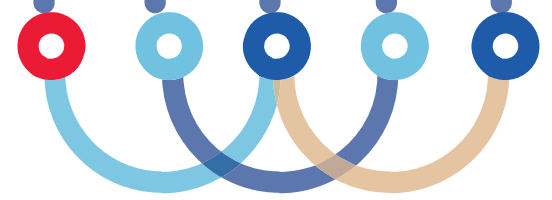
REPUBLIC OF SERBIA
RATEL
REGULATORY AGENCY FOR
ELECTRONIC COMMUNICATIONS
AND POSTAL SERVICES



Agenda



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- Introduction
 - Frequency Coordination
 - Broadcasting Services
 - Land Mobile Services
 - Fixed Services
 - BSS, FSS, MSS, radars
 - Technical Agreements
 - Further activities
-



Introduction

Regulatory Agency for Electronic Communications and Postal Services (RATEL) has several competencies.

According to the provisions of Law on Electronic Communications, RATEL is, also, in charge of international frequency coordination.

RATEL:

- ❖ manages radiofrequency usage and coordinates frequency for terrestrial and satellite radio services in accordance with international agreements
- ❖ establishes cooperation with international organizations and relevant national administrations
- ❖ participates in numerous conferences and meetings in the field of electronic communications

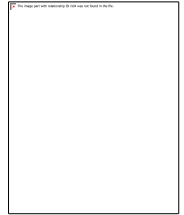


Broadcasting Service- 1



Republic of Serbia has signed three Regional Conference Final Acts

- ✓ GE75 for MF radio stations in the frequency range 525.5-1605 kHz
- ✓ GE84 for FM radio stations in the frequency range 87.5-108 MHz
- ✓ GE06 for digital broadcasting (T-DAB and DVB-T) in the frequency ranges 170-230 MHz and 470-862 MHz



Frequency coordination processes are in accordance with provisions of above mentioned Final Acts



Seasonal schedule for HFBC (High Frequency Broadcasting)



Broadcasting Service - 2

Coordination procedure

-Exchanging data among the affected administrations by sending adequate notice forms

or

-Publication in the Part A of the Special Sections of the corresponding Agreements

Coordination meetings

RATEL delegates participated in many bilateral and multilateral meetings, which included neighboring countries

The meetings resulted in signed protocols (including coordinated frequencies/stations)



```
<NOTICE>
t_notice_type=GT1
t_fragment=GE06D
t_action=ADD
t_adm_ref_id=CER-MALJEN VALJEVO 1
t_freq_assgn=658
t_long=+0195225
t_lat=+441601
t_site_name=VALJEVO PECINA
t_ant_dir=ND
t_erp_h_dbw=24
```

Broadcasting Service - 3



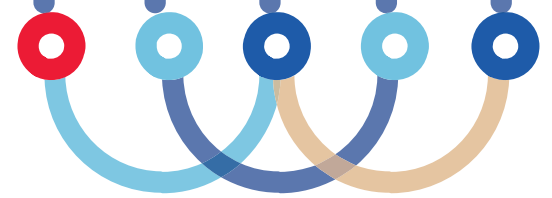
Other activities

RATEL actively participated in the work of forum SEDDIF (South European Digital Dividend Implementation Forum) for re-planning, coordination, negotiation process, GE06 plan modification, transition and implementation of 470-694 MHz band for broadcasting services (Nov. 2015-Dec. 2017)



A meeting with a goal to establish a multilateral frequency coordination group regarding VHF Band III, planned for March 2020, was postponed due to COVID-19 pandemic

Broadcasting Service - 4



Just to illustrate this - in the year 2019, for broadcasting service RATEL performed **484** coordination requests with neighboring and other countries –

GE06 – 330

GE84 – 153

GE75- 1



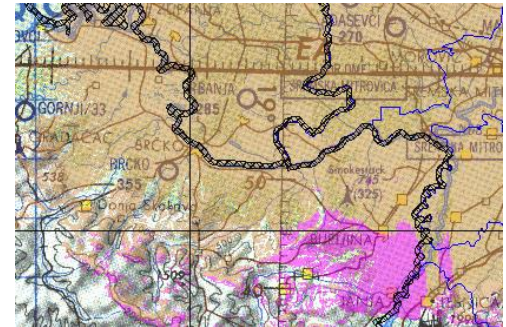
Land Mobile Service - 1



Radio-frequencies designated for the use within specific border zones shall be coordinated with the neighboring countries based on the agreements signed between neighboring countries on the coordination of radio-frequency use.

In accordance with the SRB-HNG frequency coordination consultations meeting (Budapest 8-9 June, 2010), the coordination between SRB and HNG is carried out in the spirit of the HCM (Harmonised Calculation Method) Agreement

49 frequency assignments in the border area were coordinated last year.



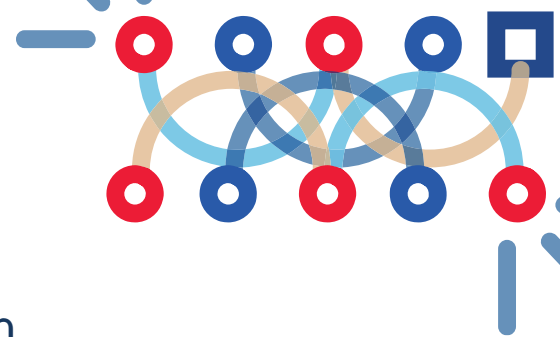
Land Mobile Service - 2



Administration, wishing to take into operation a station, sends a request for coordination to another Administration, if it is affected, for their comment. This request includes all the characteristics in accordance with Annex 2A of HCM Agreement.

SRB still hasn't signed HCM Agreement, but coordination with HNG is in line with the provisions of this Agreement

Fixed Service



In accordance with the SRB-HNG frequency coordination consultations meeting (Budapest 8-9 June, 2010), the coordination between SRB and HNG is carried out in the spirit of the HCM (Harmonised Calculation Method) Agreement

Yearly about 400 radio links are coordinated on average



RATEL solves 1-2 requests per year for international interconnection via microwave links with neighboring countries

Fixed -Satellite Service



SRB, BIH, MKD, MNE, SVN shared an allotment in the AP30B Plan (Station name XYU00000_ Former Federal Republic of Yugoslavia)

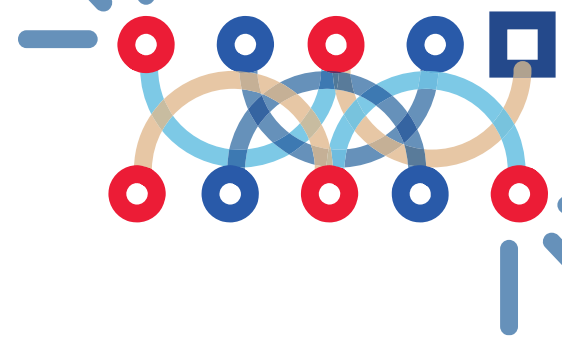
With the aim to provide services on SRB territory, SRB Administration, as ITU Member State, applying Article 7 of Appendix 30B, submitted the request for a national allotment in the AP30B Plan (Article 10 of Appendix **30B**) on 12 March 2020. **Will be considered.**



In the FSS, in accordance with Article 9 of Radio Regulations, RATEL also coordinates specific earth stations



Broadcasting -Satellite Service -1



SRB has an frequency assignment in the AP30/30A Plan (Station name SRB14800)

In order to replace this assignment in the current Plan assignments, which is incorporated in Appendices 30 and 30A Plans and in accordance with Resolution COM5/3 (WRC-19), SRB Administration, as ITU Member State, submitted the request, under Special Procedure contained in this Resolution, on 13 May 2020.

Broadcasting -Satellite Service -2

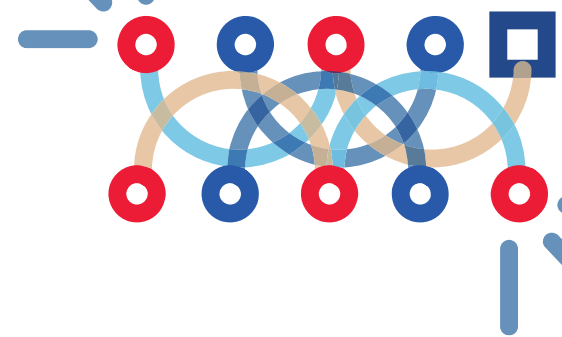


After publishing new Plan assignment by the Bureau (BR IFIC -Special section AP30/E, PART A) next step is *coordination with affected administrations*

https://www.itu.int/en/ITU-R/space/plans/Pages/WRC-19_AI14_Resources.aspx

24	06.05.2020	MKD	-16.7	2, 4, 6, 8, 10, 12, 14, 16, 18, 20	CL	2, 4, 6, 8, 10, 12, 14, 16, 18, 20	CR
25	08.05.2020	MDA	-16.3	1, 3, 5, 7, 9, 11, 13, 15, 17, 19	CL	1, 3, 5, 7, 9, 11, 13, 15, 17, 19	CR
26	11.05.2020	SWZ	-23.9	1, 3, 5, 7, 9, 11, 13, 15, 17, 19	CR	1, 3, 5, 7, 9, 11, 13, 15, 17, 19	CR
27	12.05.2020	ARS	7.9	22, 24, 26, 28, 30, 32, 34, 36, 38, 40	CL	22, 24, 26, 28, 30, 32, 34, 36, 38, 40	CR
28	13.05.2020	SRB	-26.7	22, 24, 26, 28, 30, 32, 34, 36, 38, 40	CR	22, 24, 26, 28, 30, 32, 34, 36, 38, 40	CL
29	15.05.2020	BIH	-26.5	1, 3, 5, 7, 9, 11, 13, 15, 17, 19	CL	1, 3, 5, 7, 9, 11, 13, 15, 17, 19	CR
30	15.05.2020	COD	-23.5	22, 24, 26, 28, 30, 32, 34, 36, 38, 40	CR	21, 23, 25, 27, 29, 31, 33, 35, 37, 39	CL

FSS, BSS

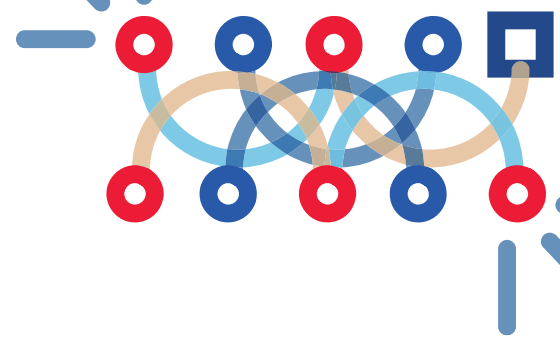


In order to protect SRB Plan assignments / allotment, RATEL checks BR IFIC publications (space services).

If our Administration is identified as affected, RATEL sends comments to the notifying Administration and the Bureau within 4 months from the date of BR IFIC publication.



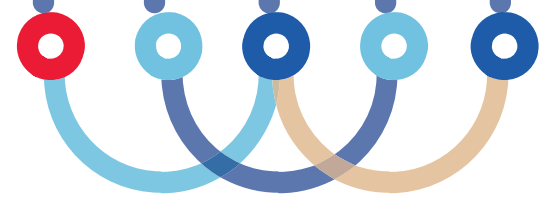
Mobile-Satellite Service, Radars



Coordination of MSS/CGC is carried out in accordance with Article 9.11 of RR, ITU-R Resolution 716 and footnote 5.389A of Radio Regulation

RATEL also coordinates a specific radars with neighboring countries





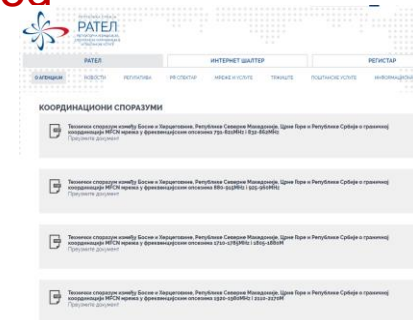
Technical Agreements and Protocols

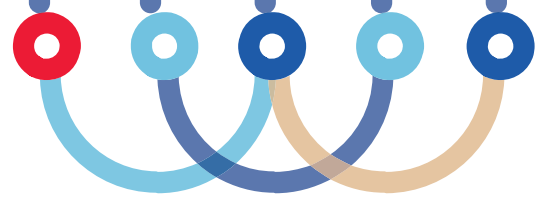
In the last 15 years RATEL representatives have signed around 50 different technical agreements and protocols with an aim to coordinate radio stations for different radio services in different frequency ranges

These agreements involved SRB neighboring and other affected countries from Region 1

[Details are given at:](#)

<https://www.ratel.rs/cyr/page/cyr-koordinacioni-sporazumi>





Further activities

- RATEL is in process of preparing for signing technical procedure on frequency coordination in the frequency bands 876-880/921-925 MHz for GSM-R with HNG, HRV and ROU administrations
- Active participation in the meetings of future multi-countries T-DAB group in order to coordinate T-DAB frequency assignments linked to the GE06 T-DAB allotments
- Multilateral or bilateral coordination meetings

Thank you!



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