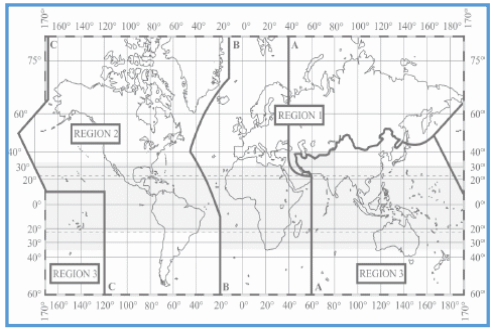
The Article 5 Table of Frequency Allocations (RR5 TFA)

The 2020 ITU Radio Regulations came into force for all signatory parties on 1 January 2021. Article 5 (Frequency Allocations) and its acclaimed Table of Allocations ("RR5 TFA") is the heart of the Radio Regulations -- it establishes the technical requirements for the use of the radio spectrum by all radio services globally. Understanding how the radio spectrum is regulated and develop compliant radio systems, requires first understanding the RR5 TFA.



Allocation to services		
Region 1	Region 2	Region 3
255-283.5 BROADCASTING AERONAUTICAL RADIONAVIGATION 5.70	200-275 AERONAUTICAL RADIONAVIGATION Aeronautical mobile 275-285 AERONAUTICAL RADIONAVIGATION Aeronautical mobile Maritime radionavigation (radiobeacons)	200-285 AERONAUTICAL RADIONAVIGATION Aeronautical mobile
283.5-315 AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73 5.74	285-315 AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73	
315-325 AERONAUTICAL RADIONAVIGATION Maritime radionavigation (radiobeacons) 5.73 5.75	315-325 MARITIME RADIONAVIGATION (radiobeacons) 5.73 Aeronautical radionavigation	315-325 AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73
325-405 AERONAUTICAL RADIONAVIGATION	325-335 AERONAUTICAL RADIONAVIGATION Aeronautical mobile Maritime radionavigation (radiobeacons) 335-405 AERONAUTICAL RADIONAVIGATION Aeronautical mobile	325-405 AERONAUTICAL RADIONAVIGATION Aeronautical mobile
405-415 RADIONAVIGATION 5.76	405-415 RADIONAVIGATION 5.76 Aeronautical mobile	

5.112 *Alternative allocation:* in Sri Lanka, the frequency band 2 194-2 300 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-19)

5.113 For the conditions for the use of the bands 2 300-2 495 kHz (2 498 kHz in Region 1), 3 200-3 400 kHz, 4 750-4 995 kHz and 5 005-5 060 kHz by the broadcasting service, see Nos. **5.16** to **5.20**, **5.21** and **23.3** to **23.10**.

5.114 *Alternative allocation:* in Iraq, the frequency band 2 502-2 625 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-19)

5.115 The carrier (reference) frequencies 3 023 kHz and 5 680 kHz may also be used, in accordance with Article **31**, by stations of the maritime mobile service engaged in coordinated search and rescue operations. (WRC-07)

5.116 Administrations are urged to authorize the use of the band 3 155-3 195 kHz to provide a common worldwide channel for low power wireless hearing aids. Additional channels for these devices may be assigned by administrations in the bands between 3 155 kHz and 3 400 kHz to suit local needs.

It should be noted that frequencies in the range 3 000 kHz to 4 000 kHz are suitable for hearing aid devices which are designed to operate over short distances within the induction field.

5.117 *Alternative allocation:* in Côte d'Ivoire, Egypt, Liberia, Sri Lanka and Togo, the frequency band 3 155-3 200 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-19)

The RR5 TFA has evolved over time to reflect the outcome of the work of the various WRCs on the harmonized, equitable and rational global use of the limited natural resources of the frequency spectrum and satellite orbits and associated Radicommunication services. Taking into account the flexibility provided through "country footnotes", it provides the technical and economical long-term views for introducing and accommodating new technologies and services, while maintaining and protecting existing ones. It is therefore important to follow the evolution of the Table and adapt the national use of these resources accordingly.

What is the RR5 TFA Software? Why is it important?

Given the complexity and the volume of data contained in the Article 5 of the Radio Regulations, the software offers a consolidated view and an easy way to perform various search and queries, as well as some calculations and modelling algorithms. It is a stand-alone application that provides a mechanism to electronically use, query and analyse the RR5 TFA and its associated footnotes, as they appear in the Article 5 of Radio Regulations, as well as some other related texts (Resolutions, ITU-R Recommendations, Rules of Procedure …).

This software application runs on individual user's PC and requires neither network nor Internet connection. This software, which is limited to the scope and boundaries of the Article 5 of the Radio Regulations, is the perfect complement to the Radio Regulations (2020 Edition) that incorporates the decisions of the 2019 World Radiocommunication Conference.

As far as the data model and content are concerned, the RR5 TFA Software will be regularly updated and enhanced after the release of the new edition of the Radio Regulations following each WRC, reflecting the most recently adopted decisions. Further functionalities are planned to be incorporated, mainly introducing direct interfaces with other electronic regulatory publications (such as the RR Navigation Tool). It is also planned to link the software to the Terrestrial and Space BR International Frequency Information Circulars (BR IFICs), which would allow cross-checking with the content of the Master International Frequency Register (MIFR).

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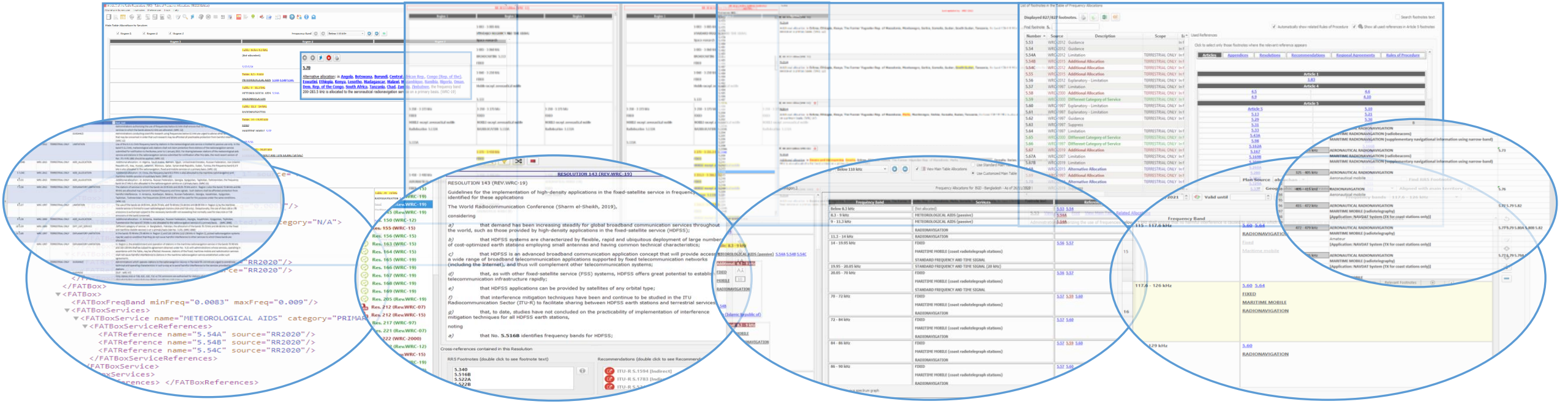
Main Features and Characteristics

Built around a relational database model, the software is equipped with various tools and utilities that allow, among others, for exporting data to various formats, as well as for the tracing and comparison of the evolution of the Article 5 Table and its associated footnotes (from the 2001 edition onward). Ultimately, the software provides for the extraction and modification of the National Table of Frequency Allocations for a given geographic area (country), based on the corresponding “International Plan” which results after combining the information contained in the Article 5 of the Radio Regulations.

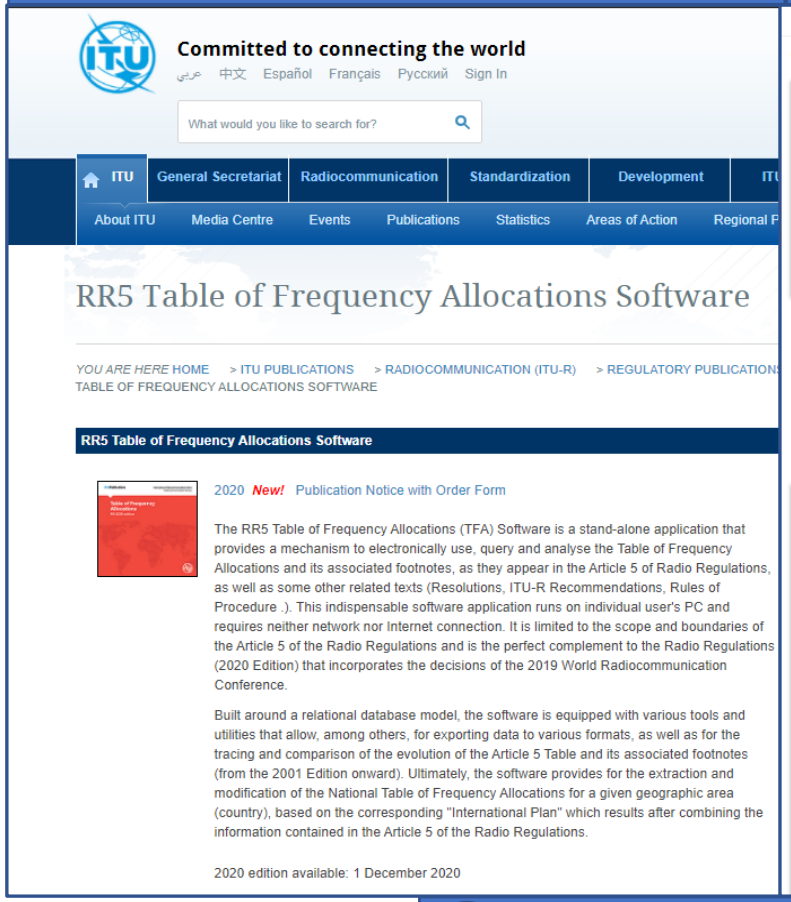


In this context, this analysis software package provides a helping and supporting electronic mechanism to check, analyse and investigate the content of the RR5 TFA, thus also contributing to ease the preparatory work for future WRCs.

Where can I find the software? How to get the software?

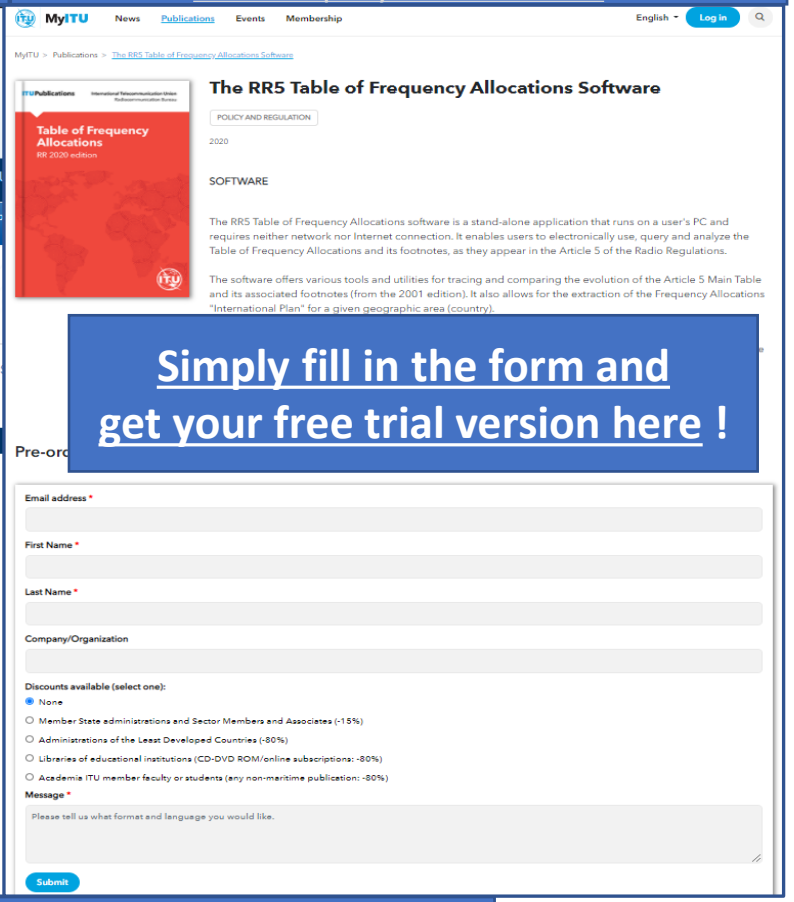
1 ITU Publications Website

https://www.itu.int/pub/R-REG-RR5



2 MyITU Publications Website

https://www.itu.int/en/myitu/Publications/2020/10/30/17/09/The-RR5-Table-of-Frequency-Allocations-software



Simply fill in the form and get your free trial version here !

3 Contact ITU Sales

sales@itu.int

Where information on subscription, pricing and licensing models is also available.

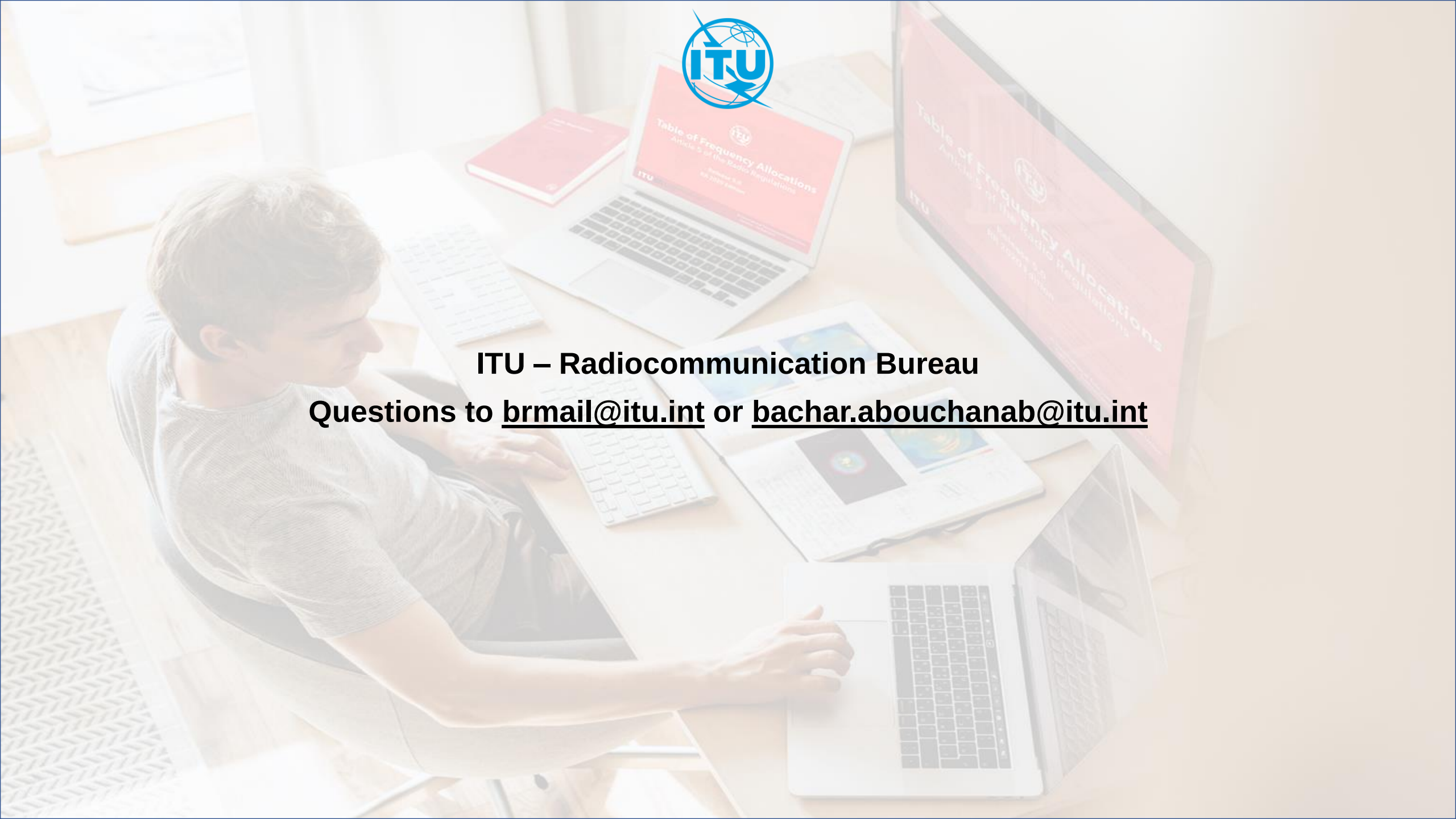
Package updates – Data and Software

Major releases of the package correspond to the new editions of Radio Regulations. The active major release is **RR 2020 (WRC-19)**. **A new license is required for every new major release** (usually following the holding of a WRC). The next major release is expected after WRC-23.

Between two major releases (~4 years), the package will be **subject to updates** concerning both data and software. These will be **released freely to subscribers holding licensed packages.** These updates may include:

- **Data updates** resulting from new or revised releases of the used texts. This will typically be the case concerning the release/updates of new Rules of Procedure editions after every RRB meeting.
- **Data updates** resulting from reported and fixed bugs concerning mismatches and errors noted between the data the package displays and the official RR5 content in the Radio Regulations.
- **Software updates** corresponding to newly added or enhanced features.
- **Software updates** resulting from reported and fixed bugs.
- **New or updated documentation**

Notifications will be sent to subscribers holding licensed packages. Please contact Sales@itu.int for more information.



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