

29TH WORLD RADIOCOMMUNICATION SEMINAR

30 November - 11 December 2020

ITUWRS
ONLINE2020

BR IFIC (Space Services) and Preface

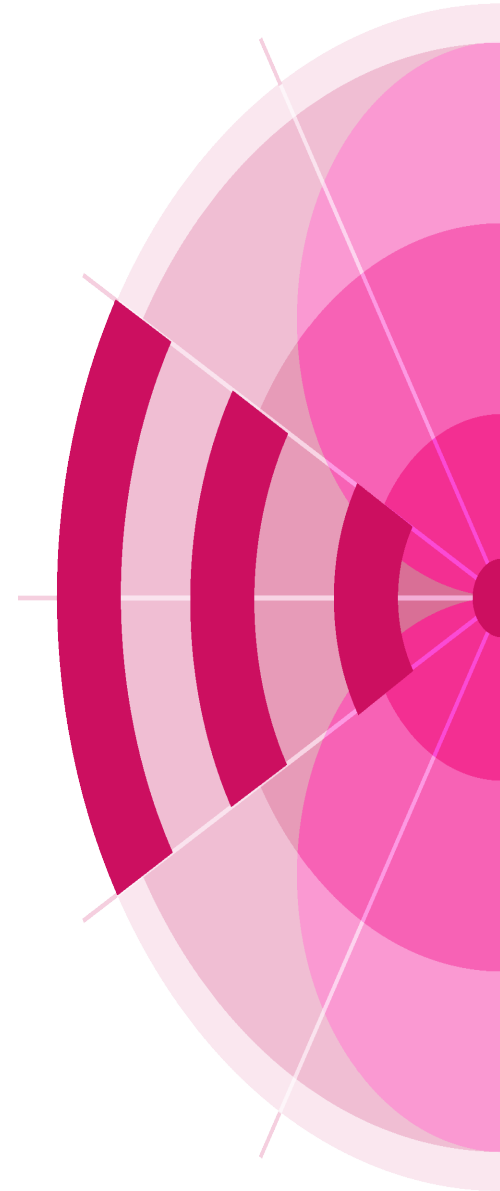
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BR Space Services Department

www.itu.int/go/wrs-20

#ITUWRS



BR IFIC 2931

International Frequency
Information Circular
(Space Services)

13.10.2020



أهلاً وسهلاً Welcome 欢迎 Bienvenido Bienvenue Добро пожаловать!



Regulations relating to BR IFIC

Advance Publication Inform

9.1shall send to the Bureau a g description of the network or system publication in the International Freq Information Circular (BR IFIC)

9.1A Upon receipt of the complete sent under No. 9.30, the Bureau sha the basic characteristics of the coord request, a general description of the system for advance publication in a of the BR IFIC.

9.2B On receipt of the complete inf under Nos. 9.1 and 9.2, the Bureau s in a Special Section of its BR IFIC with months.

9.3 If, upon receipt of the BR IFIC col information published under No. **9.2** administration believes that interfer may be unacceptable may be cause or planned satellite networks or syst within four months of the date of pu BR IFIC communicate to the publihi administration its comments on the the anticipated interference to its e planned systems.

9.38 d) publish22, as appropriate, th complete information in the BR IFIC four

months. Where the Bureau is not in position to comply with the time-lir referred to

above, it shall periodically so inform administrations, giving the reasons therefor.

9.40 e) inform the administrations concerned of its actions and commu the results of its calculations, drawir attention to the relevant BR IFIC.

9.41 Following receipt of the BR IFIC referring Nos. **9.7** that it, c identify the date IFIC, inf the ider appropri

11.28 Complete notices shall be marked by the Bureau with their date of receipt and shall be examined in the date order of their receipt. On receipt of a complete notice the Bureau shall, within no more than two months, publish its contents, with any diagrams and maps and the date of receipt, in the BR IFIC which shall constitute the acknowledgement to the notifying administration of receipt of its notice12. When the Bureau is not in a position to comply with the time limit referred to above, it shall periodically so inform the administrations, giving the reasons therefor.

11.43 In every case when a new assignment is recorded in the Master Register it shall, in accordance with the provisions of Article 8 of this Chapter, include an indication of the finding reflecting the status of the assignment. This information shall also be published in the BR IFIC.

9.51 Following its action under No. **9.50**, the administration with which coordination was sought under Nos. **9.7** to **9.7B** shall, within fc months of the date of publication of the BR IFIC under No. **9.38**, either inform the requesting administration and the Bureau of its agreement c under No. **9.52**.

9.52 If an administration, following its action und No. **9.50**, does not agree to the request for coordination, it shall, within four mor of the date of publication of the BR IFIC under No. **9.38**, or of the date of dispatch of the coordination data under No requesting

11.44B A frequency assignment to a space station in the geostationary-satellite orbit shall be considered as having been brought into use when a space station in the geostationary-satellite orbit with the capability of transmitting or receiving that frequency assignment has been deployed and maintained at the notified orbital position for a continuous period of 90 days. The notifying administration shall so inform the Bureau within 30 days from the end of the 90-day period26, 27. On receipt of the information sent under this provision, the Bureau shall make that information available on the ITU website as soon as possible and shall publish it in the BR IFIC. Resolution **40 (WRC-15)** shall apply.

11.49 Wherever the use of a recorded frequency assignment to a space station is suspended for a period exceeding six months, the notifying administration shall inform the Bureau of the date on which such use was suspended. When the recorded assignment is brought back into use, the notifying administration shall, subject to the provisions of No. **11.49.1** when applicable, so inform the Bureau, as soon as possible. On receipt of the information sent under this provision, the Bureau shall make that information available as soon as possible on the ITU website and shall publish it in the BR IFIC.

9.55 All administrations may use correspondence, any appropriate means of telecommunication or meetings, as necessary, to assist in resolving the matter. The results thereof shall be communicated to the Bureau, which shall publish them in the BR IFIC, as appropriate.

9.64 If the disagreement remains unresolved after the Bureau has communicated its conclusions to the administrations involved, the administration which requested coordination shall,



Regulatory requirements for information to be published in a BR IFIC



Characteristics of satellite networks, earth stations and radio astronomy stations required in Annex 2 of Appendix 4



List of administrations with which coordination may need to be effected



Findings



Comments received from administrations in response to a BR IFIC



Bringing into use of assignments



Suspension of assignments

Main features of the BR IFIC (Space Services)

- All PARTs and special section publications are in 6 languages of the Union
 - originally from 10.01.2000 in English, French, Spanish and as of 01.01.2005 also in Arabic, Chinese and Russian language
- Format of the BR IFIC
 - From BR IFIC 2410/11.01.2000 CDROM
 - From BR IFIC 2710/10.01.2012 DVD-ROM
 - From BR IFIC 2833/22.11.2016 DUAL Layer DVD-ROM
- ISO image of the DVD-ROM is available for download from the ITU website
- Publications are distributed in PDF format with official ITU logo

- Various database distributed in mdb format accompanying the publications

Contents of the BR IFIC



Regulatory publications

Special Sections
Part I-S, II-S, III-S



Database

IFIC, SRS, Gims, SPS



Preface



BR space software



Circular letters related to space services



Cost recovery invoices status



SpaceCOM Draft files

BR IFIC 2931

International Frequency
Information Circular
(Space Services)

13.10.2020



- BR IFIC Publications**
- Databases
- Preface
- Cost Recovery
- BR Software
- BR Circular Letters

Special Sections

- ALL --
- AP30/E
- AP30A/E
- API/A
- API/B
- API/C
- CR/C

Parts I-S, II-S, III-S

- ALL --
- PART I-S
- PART II-S
- PART III-S

Administrations

- ARG
- AUS
- CAN
- CHN
- D
- E
- F

SNS - Removal

Print instructions

BR IFIC PUBLICATIONS – TABLE OF CONTENTS

Print Table of Contents

SPECIAL SECTION / PART	PLAN PART	RESPONSIBLE ADMINISTRATION		NAME OF THE SPACE STATION	ORB. POS.	NAME OF THE ASSOCIATED EARTH STATION	IDENTIFICATION NUMBER
		ADM.	INTERG. ORG.				
AP30/E/603	B	HOL		NSS-BSS 40.5W	-40.5		112552016
AP30A/E/603	B	HOL		NSS-BSS 40.5W	-40.5		112554016
API/A/12363 MOD-1		CHN		GRID	NGSO		120545200 / 1
API/A/12403 MOD-2		CHN		CAS-7	NGSO		120545193 / 1
API/A/12616		USA		CAPELLA-2 (SEQUOIA)	NGSO		120545162
API/A/12632		I		WILDTRACKCUBE-SIMBA	NGSO		120545182
API/A/12633		CHN		DMT-SY	NGSO		120545183
API/A/12637		SNG		NUX-1	NGSO		120545192
API/A/12638		CHN		GEESAT-JL	NGSO		120545194
API/A/12639		CHN		SVOM	NGSO		120545196
API/A/12640		CHN		AID-01	NGSO		120545197
API/A/12641		CHN		BESAT-1	NGSO		120545198



Regulatory publications



Notification for recording in the MIFR:

Part I-S

- characteristics of the satellite network, earth station or radio astronomy station, also constitutes the acknowledgement of receipt of the notice

Part II-S

- Frequency assignments recorded in the MIFR

Part III-S

- Frequency assignments returned to the administrations



Special sections

API/A, API/B

CR/C, CR/F, CR/D, CR/E

AP30/E, AP30A/E, AP30-30A/E

AP30-30A/F/C, AP30-30A/F/D

AP30B/A6A, AP30B/A6B, AP30B/A7

RES4, RES49, RES552

Etc.



Note that these official publications in PDF format are available solely on the BR IFIC!

BR IFIC publication schedule

BR IFIC (Space services) - Schedule

YOU ARE HERE [HOME](#) > [ITU-R](#) > [SPACE SERVICES](#)



The BR international frequency information circular (BR IFIC) is published every two weeks.

Space Services Department

News

Space Support

BR IFIC

Preface

Cost Recovery

Space Plans

Databases and Services

SNL

Year 2020				Year 2019			
BRIFIC No.	Date of publication	BRIFIC No.	Date of publication	BRIFIC No.	Date of publication	BRIFIC No.	Date of publication
2911	07.01.2020	2924	07.07.2020	2886	08.01.2019	2899	09.07.2019
2912	21.01.2020	2925	21.07.2020	2887	22.01.2019	2900	23.07.2019
2913	04.02.2020	2926	04.08.2020	2888	05.02.2019	2901	06.08.2019
2914	18.02.2020	2927	18.08.2020	2889	19.02.2019	2902	20.08.2019
2915	03.03.2020	2928	01.09.2020	2890	05.03.2019	2903	03.09.2019
2916	17.03.2020	2929	15.09.2020	2891	19.03.2019	2904	17.09.2019
2917	31.03.2020	2930	29.09.2020	2892	02.04.2019	2905	01.10.2019



Published *once every two weeks* by the Bureau



Publication date is always on Tuesday



4 months time limit for regulatory comments of various provisions start from date of publication of BR IFIC



Generally 25 issues per year

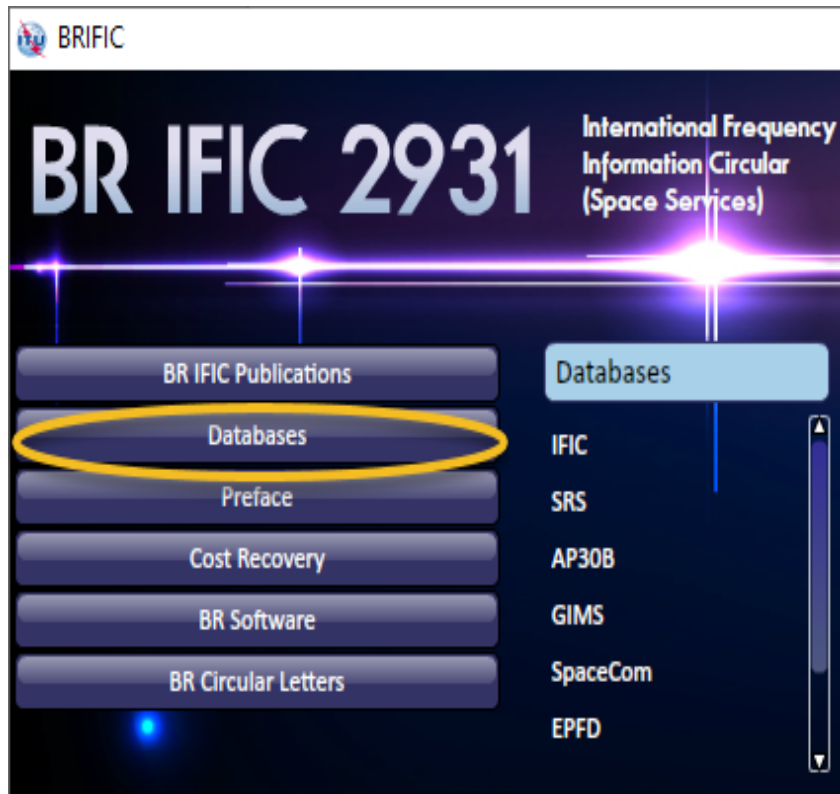


Schedule available for consultation at:

<https://www.itu.int/en/ITU-R/space/Pages/brificSchedule.aspx>



Databases distributed on the BR IFIC



- IFIC
- SRS
- AP30_30A
- AP30B
- GIMS
- SpaceCom (draft only for planned networks since WRC-19)



BR Space IFIC Database

The *IFICxxxx.mdb* database (MS Access format), published on the BR IFIC, is located in the Databases\IFIC_data directory.

- This file contains AP4 data of satellite networks, Earth stations or Radioastronomy stations and their corresponding regulatory findings and coordination requirements *that are published in the current BR IFIC* concerning the following publications:
 - PART-IS, PART-IIS and PART-IIIS;
 - Special Sections: API/A, CR/C, CR/F, RES49, RES 552, RES 553 etc.
- BR space software tools are required to correctly browse and query the data concerning the satellite networks
- An archive of all IFICxxxx databases for the current year up to the IFIC number of the current DVD-ROM is found in the folder: Databases\IFIC_Archive.
- IFICxxxx.mdb is *also* available on the BR website:

<https://www.itu.int/sns/demowic.html>

SRS Database

The *SRSxxxx.mdb* file is distributed solely on the BR IFICxxxx (Space services) DVD in: ..\Databases\SRS_Data directory

- This database contains information relating to all satellite networks, Earth stations or Radioastronomy stations **recorded** in the Master International Frequency Register (**MIFR**), published *in requests for coordination* or as advance publication of information, as well as Due Diligence (Resolution 49 and 552).
- *The information in the SRSxxxx.mdb is a snapshot of the MIFR taken at the time the BR IFICxxxx DVD was produced*
- The SRS database structure is described in detail in Section III, Chapter 1 of the *Preface*
- In order to properly view and query the srs.mdb file, you should install either BRSIS-SpaceQry, SpaceCap or SpacePub from the \BR_Soft\ folder located on this DVD.

For a chart on the SRS database structure, please refer to the file SRSDiagramV9.pdf available at ...\BRIFIC2931_S\Databases\SRS_Data



SRS database – linked files

- As of BR IFIC 2841, in order to circumvent the 2GB limit of the Microsoft Access MDB file format, the srsXXXX.mdb database file has been split into two linked database files, named respectively srsXXXX_part1of2.mdb and srsXXXX_part2of2.mdb, where XXXX is the BR IFIC publication number.
- All BRSOft V9 desktop applications that commonly needed to use the srsXXXX.mdb file, such as SpaceCap or BRSIS-SpaceQry, have been updated to support the new linked files.
- The files srsXXXX_part1of2.mdb/srsXXXX_part2of2.mdb must always be moved/copied/renamed together, i.e. they must be in the same directory and they may only be renamed in a consistent manner, such as “somename_part1of2.mdb” and “somename_part2of2.mdb”.
- The 2 files can be linked automatically using BRSOft V9 software. They can alternatively be linked manually using Microsoft Access.



Do not use the srsXXXX_part2of2.mdb database file by itself. Always use the srsXXXX_part1of2.mdb database file, after following one of the above two procedures



For more details, please refer to the file srsmdb_E.pdf available at
...\\Databases\\SRS_Data



GREF (GIMs reference) database

Complete Graphical Interference Management System (GIMS) reference database (REFDB) - *GREFxxxx.mdb* data are published solely on the BR IFICxxxx (Space services) DVD-ROM in:
Databases\GIMS_Data directory

Space Plan Data

Data for Planned Space Networks (Appendices 30, 30A & 30B)

- Technical characteristics and reference situation (EPM/OEPM – AP30/30A or C/I – AP30B) for Planned networks can be found in the:
 - \Databases\AP30_30A\SPS_ALL_IFICxxxx (AP30&30A)
 - \Databases\AP30B\30B_xxxx (AP30B)
- The MSPACEg output database and GIBC/PFD(terrestrial) technical examination results for each Appendix 30/30A Article 4 Part A network published in BR IFICxxxx can be found in the \databases\AP30_30A\TEX_results\ folder.
- The GIBC/AP30B output database for each Appendix 30B pending Article 6 network published in BR IFICxxxx can be found in the \databases\AP30B\TEX_results\ folder. This database contains the detailed GIBC/AP30B calculation results.
- All Space Plan data are *also* distributed at the SSD website:

<https://www.itu.int/ITU-R/go/space-plans/en>

BR IFIC (Space Services) – BRsoft

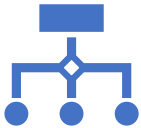
- SAM - PC-based software package used to launch ITU-BR Space Software Applications;
 - SIS (SpaceQry), which can be used to query into the database and retrieve and view the alphanumeric data;
 - SpaceCap, which allows the capture and electronic notification of Appendix 4 notices;
 - SpacePub, an interactive tool to print satellite networks and earth stations;
 - SpaceVal, which can be used for validating electronic notices that are in the SNS electronic notice format;
 - SpaceRefdb, an update tool that will update the reference tables used by BR software;
 - SpaceCom, management of the comments on API/A (not subject of Coordination procedure), CR/C, AP30/E, AP30A/E, AP30-30A/F/C Special Sections;
 - SRSCovert, to convert the data contained in an existing SRS-formatted database from a version 5 database (WRC-03) into a version 6 database (WRC-07);
 - GIMS, allows the capture and modification of graphical data relating to the electronic notification of satellite networks;
 - IDWM, the ITU Digitized World Map;
 - SPS, determination of the coordination requirements for the Plans for space networks in AP 30, 30A and 30B;
 - SRSFixdb, to remove processing data and correct default information in electronic notification databases that are sent to the BR.
 - GIBC, which provides the user with the ability to carry out calculations on satellite networks relating to PFD examinations, Appendix 7 and 8 and Appendix 30B
 - EPFD, the equivalent power flux-density validation software
- **BRsoft is distributed ALSO** at the Bureau website: <https://www.itu.int/ITU-R/go/space-software/en>

NEWS and SNS Removal



News

Any relevant information concerning the publications or databases to be brought to the attention of administrations



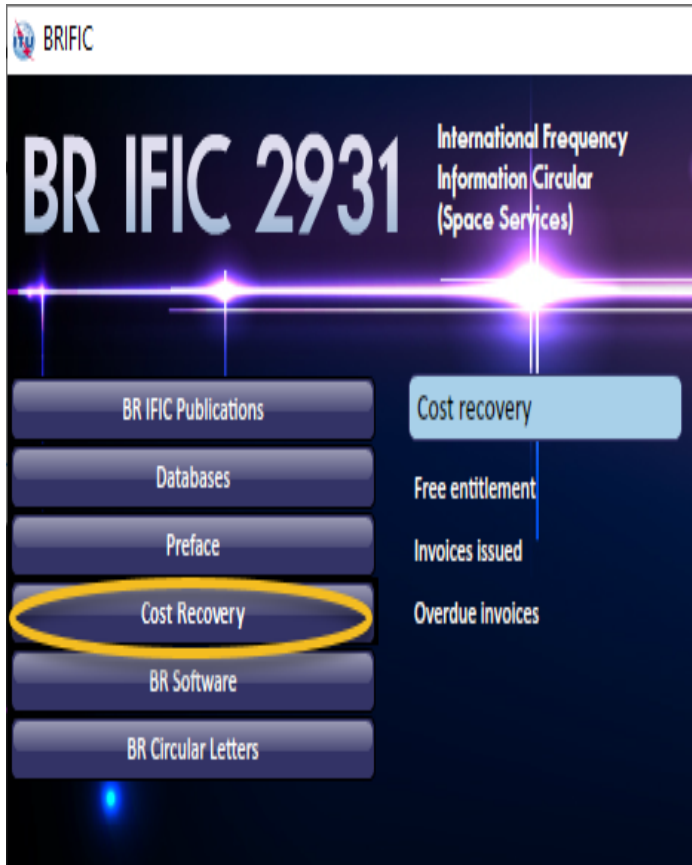
SNS Removal

For those assignments in coordination and API, where the notification has been recorded in the MIFR, and where the 7 years have passed (see CR/377 dated 27 January 2015)

- <http://www.itu.int/snl/sns-removal.html>



Cost recovery invoices status



Free entitlement

List of nomination of free entitlement

Administrations should check this list if they wish to know if a request for free entitlement has been accepted



Invoices Issued

List of invoices issued

Administrations should check this list if they wish to know if an invoice has been issued for the network that they have submitted and to note the payment due date



Overdue Invoices

List of invoices that are overdue

Administrations should check this to be sure that there are no overdue invoices for their administrations

Circular letters relating to space services



The screenshot shows a web browser window titled "BR IFIC 2931" with the subtitle "International Frequency Information Circular (Space Services)". The date "13.10.2020" is displayed in the top right corner, along with the ITU logo. A navigation menu on the left includes "BR IFIC Publications", "Databases", "Preface", "Cost Recovery", "BR Software", and "BR Circular Letters", which is highlighted with a yellow oval. A "BR Circular Letters" button is also visible in the main content area. On the right, there is a "SNS - Removal" button. Below the navigation, the heading "BR CIRCULAR LETTERS - SPACE SERVICES" is centered. A table lists the circular letters and their subjects.

BR Circular Letters	Subject
CR/466	Prolongation of the suspension of the BR IFIC on DVD-ROM and related matters
CR/464	Submission of Appendix 4 information for space services to the Radiocommunication Bureau, and update of related BR space software and SNS databases (version 9.0)
CR/462	Suspension of the fax service for official correspondence
CR/461	Implementation of Resolution 169 [COM5/6] (WRC-19) - Use of the frequency bands 17.7-19.7 GHz and 27.5-29.5 GHz by earth stations in motion communicating with geostationary space stations in the fixed-satellite service
CR/457	Suspension of publication of BR-IFIC on DVD-ROM and related interim procedures
CR/456	WRC-19 decisions included in the Minutes of Plenary meetings
CR/455	Implementation of Resolution 559 [COM5/3] (WRC-19)

BR Space Services WIC/IFIC - Annual Collection

- The collection of BR WICs (Weekly Information Circulars) and BR IFICs (International Frequency Information Circulars) for Space Services contains Parts and Special Section publications with information on the frequency assignments for space stations, Earth stations or radioastronomy stations submitted to the Radiocommunication Bureau by ITU Member State administrations.
- The collection is distributed on multiple DVD-ROMs and contains archived BR WICs compiled by time series (1965-1995) and from 1996 by year (1996-1999), and archived BR IFICs (from 2000 onwards) by year.
- <https://www.itu.int/pub/R-SP-LN.IW-2020>



Arrangements due to COVID-19

- **Suspension of publication of BR-IFIC on DVD-ROM**

Due to the limitations caused by the [COVID-19 outbreak](#) and the limited distribution of letters and parcels from Switzerland by Swiss post, the delivery of physical DVDs containing BR IFIC was suspended as from the edition No. 2917 of 31 March 2020 till the edition No. 2930 of 29 September 2020.

- **Acceptance of late comments**

Late comments on publications issued between BR IFIC No. 2917 of 31 March 2020 and BR IFIC No. 2925 of 21 July 2020 are accepted till 30 November 2020.

- **Resumption of Postal delivery of the BR IFIC on DVD-ROM**

The Radiocommunications Bureau informed administrations through its circular letter CR/469 dated 12 October 2020 that the postal delivery of physical DVDs containing the BR IFIC has been restarted from that date.

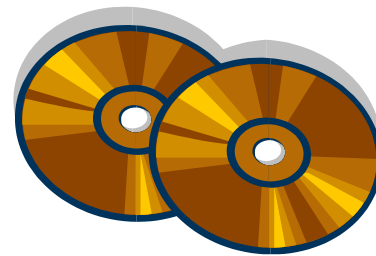
BR IFIC Nos. 2917 to 2930 issued during the suspension of DVD delivery were sent as a batch and usual fortnightly delivery of BR IFIC has started again with BR IFIC No. 2931 of 13 October 2020.

Please Consult Circular Letters CR/457, CR/456 and CR/469 and BR IFIC web page (<https://www.itu.int/en/ITU-R/space/Pages/brificMain.aspx>) for more detailed information

The Preface (Space services)

How to understand ?

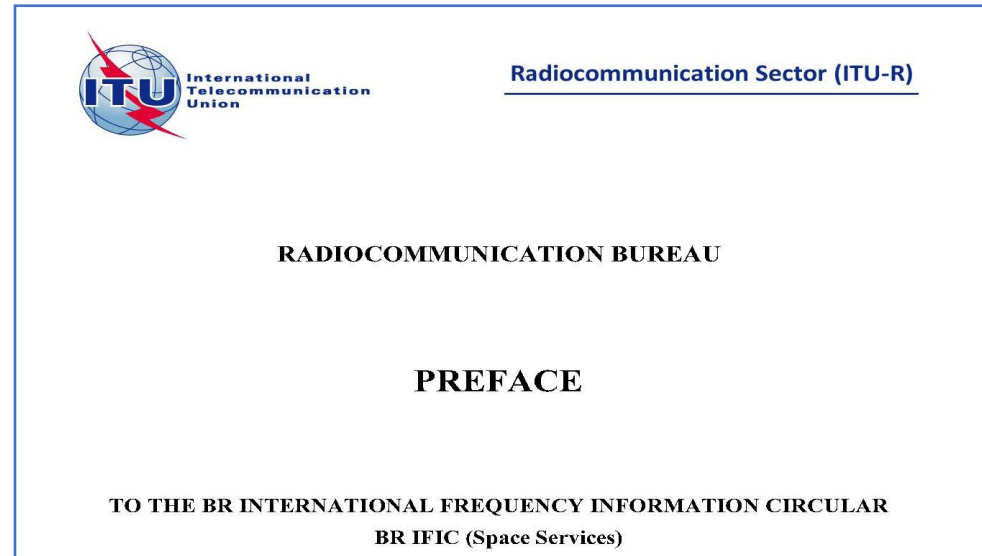
- The *content* of the BR IFIC (Space services) DVD-ROM?
- The *SNS data*
- Special section or PART Findings
- *Symbols* of Intergovernmental satellite organizations
- *Symbols* - Class of station/services
- Antenna patterns *code*
- Operating Agency *number*
- Remarks *code*



The Preface (Space services)

Distributed in the BR IFIC DVD-ROM in **six** languages (English, French, Spanish, Arabic, Chinese and Russian) or download it from the SSD website:

<https://www.itu.int/ITU-R/go/space-preface/en>



➤ *Always look for Edition and New Changes*

NEW CHANGES

This section contains the list of any changes made to this version, except those concerning the regularly updated Table 12A/12B.

Edition	Changes
November 2020	NOC
October 2020	NOC
September 2020	NOC
August 2020	Update of Note 2 in Section III Chapter 1 Addition of Note 7 in Section III Chapter 1 Update of Section III Chapter 2 related to NGSO service area diagrams Modification of Section II Chapter 3 and Section III Chapter 1 to reflect the implementation of the Version 9 of software and databases. Update of Table 11C1.
July 2020	NOC

Edition: November 2020
1/358

The Preface (Space services)

- ***Contains 4 Sections***

- **Section I – General**
- **Section II - Description of the BR IFIC and the Space Radiocommunication Stations (SRS) database info**
- **Section III - Description of the Space Networks System (SNS)**
- **Section IV - Reference Tables**

The Preface (Space services)

SECTION II - Description of the BR IFIC and the Space Radiocommunication Stations (SRS) on DVD-ROM

- Chapter 1 - BR IFIC (Space Services)
 - Definition of the BR IFIC
 - **PART I-S, PART II-S and PART III-S**
 - Appendix and Annex to the BR IFIC
 - The **Special Sections** - **currently in use**
 - The Special Sections – discontinued
- Chapter 2 - Cover pages of the PART I-S, II-S, III-S and the Special Sections currently in use
- Chapter 3 – SRS database information

The Preface (Space services)

SECTION III - Space Networks System (SNS)

- Chapter 1 - Details relating to the contents of the SNS data items published in Part I-S, II-S, III-S and the Special Sections of the BR IFIC
- Chapter 2 - Description of the format for electronic submission of graphical data related to satellite networks

SECTION IV - Reference Tables

- Table 1A - Codes Designating Notifying Administrations
- Table 1B - Codes Designating Countries or Geographical Areas
- Table 2 - Intergovernmental satellite organizations
- Table 3 - Class of Station (data item *C4a*)
- Table 4 - Nature of Service (data item *C4b*)
- Table 5 - Symbols used to indicate the polarization (data item *C6a*)
- Table 6 - Radio astronomy station antenna characteristics (data item *B6*)

The Preface (Space services)

SECTION IV - Reference Tables

- Table 7 - Antenna radiation reference pattern (data item *B3e/B4a/B4b* or *B5c2* or *C10c4a*)
- Tables 8 – 10 - **Numbers not used**
- Table 11A - Symbols used for coordination and agreement (data item *A5/A6*) (coordination phase)
- Table 11B - Symbols used for coordination and agreement (data item *A5/A6*) (notification phase)
- Table 12A/12B - Responsible administrations (data item *A3b*), operating agencies (data item *A3a*) and postal and telegraphic addresses of the administrations responsible for the stations
- Table 13A1 - Finding reference - Conformity with the Radio Regulations - symbols used in column *13A1*
- Table 13A2 - Finding reference - Conformity with the procedures relating to coordination with other administrations or conformity with a Plan (world or regional) - symbols used in column *13A2*
- Table 13A3 - Finding reference - Technical examination - symbols used in column *13A3*
- Table 13A4 - Finding reference - Conformity with RES-49 - symbols used in column *13A4*

The Preface (Space services)

SECTION IV - Reference Tables

- Table 13B1 Reference to a provision of the Radio Regulations or an Appendix thereto, or a Resolution of a World Radio Conference or a Regional Agreement - symbols used in column *13B1*
- Table 13B2 - Remarks concerning Findings - symbols used in column *13B2*
- Table 13B3 - Date relating to a review to be made - symbols used in column *13B3*

- Table 13C - Remarks - symbols used in column *13C*

SECTION IV – Tables 1A/1B

TABLE 1A

Codes designating Notifying Administrations

Note: The presence of any given code designating a country with respect to a frequency assignment to a station is without prejudice to any question of territorial status which may be involved.

Code	Name of the administration (ITU Member State)
AFG	Afghanistan
AFS	South Africa (Republic of)
AGL	Angola (Republic of)
ALB	Albania (Republic of)
ALG	Algeria (People's Democratic Republic of)
AND	Andorra (Principality of)
ARG	Argentine Republic
ARM	Armenia (Republic of)
ARS	Saudi Arabia (Kingdom of)
ATG	Antigua and Barbuda
AUS	Australia
AUT	Austria
AZE	Azerbaijan (Republic of)
B	Brazil (Federative Republic of)
BAH	Bahamas (Commonwealth of the)
BDI	Burundi (Republic of)
BEL	Belgium
BEN	Benin (Republic of)
BFA	Burkina Faso
BGD	Bangladesh (People's Republic of)
BHR	Bahrain (Kingdom of)
BIH	Bosnia and Herzegovina
BLR	Belarus (Republic of)

TABLE 1B

Codes designating Countries or Geographical Areas

Note: The codes have a geographical significance only. The presence of any given code designating a country or a geographical area with respect to a frequency assignment to a station is without prejudice to any question of territorial status which may be involved.

If the territory of an Administration consists of several geographical areas, which may be distributed in different Regions, the entire territory of that Administration is represented by several geographical codes.

Explanation of a code of the type XXX/YYY (where XXX or YYY is a code designating an administration, country or a geographical area):

XXX indicates the code designating the notifying administration and YYY indicates the code designating the country or the geographical area, in which the station is located.

See: RES-1 (Rev. WRC-97), resolves

that, unless specifically stipulated otherwise by special arrangements communicated to the Union by administrations, any notification of a frequency assignment to a station shall be made by the administration of the country on whose territory the station is located.

Code	Region	Notifying Administration	Name of the geographical area
ABW	XR2	HOL	Aruba
AFG	XR3	AFG	Afghanistan
AFS	XR1	AFS	South Africa
AGL	XR1	AGL	Angola
AIA	XR2	G	Anguilla
ALB	XR1	ALB	Albania
ALG	XR1	ALG	Algeria
ALS	XR2	USA	Alaska (State of)

Example 1: The entire territory of the Administration of AUS will be represented by multiple codes: AUS, CHR, HMD, ICO, NFK

SECTION IV – Table 3 Class of Station (data item C4a)

Class of Station

Symbol	Space Station Class of Station
E1	Space research (active sensor) space station
E2	Space research (passive sensor) space station
E3	Space station in the Earth exploration-satellite service (active sensor)
E4	Space station in the Earth exploration-satellite (passive sensor)
E5	Space station in the aeronautical mobile-satellite (R) service
E6	Space station in the aeronautical mobile-satellite (OR) service
EA	Space station in the amateur-satellite service
EB	Space station in the broadcasting-satellite service (sound broadcasting)
EC	Space station in the fixed-satellite service
ED	Space telecommand space station
EE	Space station in the standard frequency-satellite service
EF	Space station in the radiodetermination-satellite service
EG	Space station in the maritime mobile-satellite service
EH	Space research space station
EI	Space station in the mobile-satellite service
EJ	Space station in the aeronautical mobile-satellite service
EK	Space tracking space station
EM	Space station in the meteorological-satellite service
EN	Space station in the radionavigation-satellite service
EO	Space station in the aeronautical radionavigation-satellite service
EQ	Space station in the maritime radionavigation-satellite service
ER	Space telemetering space station
ES	Station in the inter-satellite service
ET	Space station in the space operation service
EU	Space station in the land mobile-satellite service
EV	Space station in the broadcasting-satellite service (television)
EW	Space station in the earth exploration-satellite service
EY	Space station in the time signal-satellite service

Correspondence between Earth Station Class of Station and Space Station Class of Station

Earth Station Class of Station	Corresponding Space Station Class of Station
T5	E5
T6	E6
TA	EA
TB	EJ
TC	EC
TD	ED
TE	(EI)
TF	EF
TG	EG
TH	EH

SECTION IV - Table 3: Class of Station

Symbol	Earth Station Class of Station
RA	Radio astronomy station
T5	Aircraft earth station in the aeronautical mobile-satellite (R) service
T6	Aircraft earth station in the aeronautical mobile-satellite (OR) service
TA	Earth station in the amateur-satellite service
TB	Aeronautical earth station
TC	Earth station in the fixed-satellite service
TD	Space telecommand earth station
TE	Satellite EPIRB in the mobile-satellite service
TF	Fixed earth station in the radiodetermination-satellite service
TG	Ship earth station
TH	Earth station in the space research service
TI	Coast earth station
TJ	Aircraft earth station
TK	Space tracking earth station
TL	Mobile earth station in the radiodetermination-satellite service
TM	Earth station in the meteorological-satellite service
TN	Fixed earth station in the radionavigation-satellite service
TO	Mobile earth station in the aeronautical radionavigation-satellite service
TQ	Mobile earth station in the maritime radionavigation-satellite service
TR	Space telemetering earth station
TT	Earth station in the space operation service
TU	Land mobile earth station
TW	Earth station in the earth exploration-satellite service
TX	Fixed earth station in the maritime radionavigation-satellite service
TY	Base earth station
TZ	Fixed earth station in the aeronautical radionavigation-satellite service
UA	Mobile earth station
UB	Earth station in the broadcasting-satellite service (sound broadcasting)
UD	Space telecommand mobile earth station
UE	Earth station in the standard frequency-satellite service
UF	Earth station in motion communicating with a geostationary satellite orbit station in the fixed-satellite service in the frequency bands referred to under No. 5.527A [5.5X]
UG	Earth station on board unmanned aircraft communicating with a space station of a geostationary-satellite network in the fixed-satellite service for UAS CNPC links in accordance with resolves 1 of RES-155
UH	Mobile earth station in the space research service
UK	Space tracking mobile earth station
UM	Mobile earth station in the meteorological-satellite service
UN	Mobile earth station in the radionavigation-satellite service
UR	Space telemetering mobile earth station
UT	Mobile earth station in the space operation service

TI	EG
TJ	EJ
TJ	EC ¹
TK	EK
TL	EF
TM	EM
TN	EN
TO	EO
TQ	EQ
TR	ER
TT	ET
TU	EU
TW	EW
TX	EQ
TY	EU
TZ	EO
UA	EI
UB	EB
UD	ED
UE	EE
UF	EC
UG	EC
UH	EH
UK	EK
UM	EM
UN	EN
UR	ER
UT	ET
UV	EV
UW	EW
UY	EY
VA	EI



SECTION IV – Tables 7A/7B Antenna radiation reference pattern

Antenna Radiation Reference pattern can be consulted from the Antenna Pattern Library at:

<https://www.itu.int/en/ITU-R/software/Pages/ant-pattern.aspx>

SECTION IV – Tables 12A/12B Responsible Administrations/Operating agencies

-You are invited to update this information by sending a letter indicating the correct address or contact of the existing responsible Administrations or Operating Agencies or by adding a new responsible Administration or Operating agency with its full address (postal, telephone, email)

-Table 12A/12B is also used for creating operator users in e-submission

SUI	Switzerland		
A	FEDERAL OFFICE OF COMMUNICATION ZUKUNFTSTRASSE 44 CH-2501 BIEL-BIENNE SUISSE EMAIL: info@bakom.admin.ch TELEFAX: +41 58 463 18 24		
B	UNITED NATIONS FOR THE ATTENTION OF THE CHIEF OF TELECOMMUNICATIONS OPERATIONS SECTION ROOM S2035 NEW YORK NY10017 UNITED STATES TELEX: 023289696		
C	OFFICE DES NATIONS UNIES A GENEVE PALAIS DES NATIONS CH - 1211 GENEVE 10 TELEX: 289696 UNO CH		
D	BUNDESNETZAGENTUR FUR ELEKTRIZITAT, GAS, TELEKOMMUNIKATION, POST UND EISENBAHNEN CENTRALIZING OFFICE OF THE RADIO MONITORING SERVICE P.O. BOS 80 01 D - 55003 MAINS TELEX: 04187404 MONI D		
001	RADIO-SUISSE S.A.	002	OFFICE FEDERAL DE LA COMMUNICATION
003	OFFICE FEDERAL DE L'AIR	004	SERVICE RADIOPOLICE
005	UNITED NATIONS	009	SUEDWESTFUNK, BADEN-BADEN
010	MISSION DES ETATS-UNIS	011	INSTITUTE OF ASTRONOMY
012	EPFL - ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE	013	UNIVERSITY OF APPLIED SCIENCES OF SOUTHERN SWITZERLAND (SUPSI)
014	SPACEPHARMA SA	015	INMARSAT SA
016	ASTROCAST SA		

BR IFIC 2931

International Frequency
Information Circular
(Space Services)

13.10.2020



Thank you!

Radiocommunication Bureau

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