Answers to the questions during the terrestrial workshop at WRS-20

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Administrative and general questions

Question	Who	Answer
		Yes, all workshop presentations are published on the web at
		https://www.itu.int/en/ITU-R/terrestrial/workshops/WRS-
Is this presentation available online?	Per Werner	20/Pages/default.aspx
		https://www.itu.int/en/ITU-
		R/terrestrial/broadcast/africa/Pages/Workshop.aspxhttps://www.itu.int/en/ITU-
Can you send here the links with videos		R/terrestrial/broadcast/africa/Pages/Workshop.aspxhttps://www.itu.int/en/ITU-
and all material for this tools for self-		R/terrestrial/broadcast/africa/Pages/Workshop.aspxhttps://www.itu.int/en/ITU-
training?	Luis Cumaio	R/terrestrial/broadcast/africa/Pages/Workshop.aspx

the different sessions have been	Juan Pablo Hernandez	Dear Juan, you may find the webcasts of this seminar (plenary and workshops)
recorded, where can we find the videos?	(MINECO)	at https://www.itu.int/en/ITU-
thank you		R/information/events/webcast/Pages/default.aspx
The MDB Extract File on the website. Is it		No, these extract MDB files only contain the changes in their corresponding BR
possible to update the BRIFIC database		IFICs and cannot be used to update the contents of previous BR IFIC databases.
using this file? Or the only way is to		The latest ISO file published on the web or the latest BR IFIC DVD contains the
download the ISO file?	Salebona Shongwe	latest updated version of the BR IFIC database.
Information of intermodulation product	George A. James	You may find the technical basis from the following Recommendations ITU-R:
		SM.1009 Compatibility between the sound-broadcasting service in the band of
		about 87-108 MHz and the aeronautical services in the band 108-137 MHz
		SM.1134 Intermodulation interference calculations in the land-mobile service
		SM.1446 Definition and measurement of intermodulation products in
		transmitter using frequency, phase, or complex modulation techniques

Can the ITU assist our organisation, The	George A. James 03:37	Currently the EMF issue is under study in ITU-R Working Party 1C. However
National Telecommunications	PM	,
	PIVI	unfortunately the scope of their work does not include the development of a
Regulatory Commission (NTRC) and		tool for calculation of the EMF exposure on human body.
ECTEL by extension, to identify a		
reputable organisation with an on-line		
calculator to evaluate Radio Frequency		
Electromagnetic Exposure, as with the		
following example for Amateur Radio		
enthusiasts on this website:		
http://hintlink.com/power_density.htm		
? It would be great if the ITU could		
embark on having an on-line calculator		
for the industry or if ITU could provide or		
recommend an international recognised		
calculator to evaluate / estimate		ITU has not developed any regulations on the EMF, recognizing that ICNIRP is
Electromagnetic Radiation in terms of RF		developing the recommendations on EMF exposure on human body and WHO
Power Density, to assist the		recognizes the recommendations. ITU Member states, respecting the
telecommunications industry in that		recommendation, establish their own regulatory framework to manage EMF
regard.		exposure on human body and ITU is developing a supporting recommendation
Does ITU have regulations and an		to measure the EMF exposure on human body.
administrative process to regulate		
Electromagnetic Radiation issues?		

Regulatory questions

Question	Who	Answer
Can Switzerland implement IMT in the		No. IMT is an application in the mobile service. Pursuant to footnote RR
3400-3600 MHz band without applying 9.21?	Juris Rencis [LVA VAS ES]	5.430A it can be used only if RR9.21 is applied.
When will RR-2020 come into force?	GAO Sheng	In general, it comes into force on 1 January 2021. Some of the provisions
		and the Resolutions and Recommendations came already into force on 23
		November 2019.

How about the Rules of Procedure. What's the relationship between RRB, ROP, ITU-R SG and BR? And also, when dose the Rules of Procedure come into force generally? RSG mainly develops the ITU-R Recommendations and Reports. BR is the secretariat in the ITU-R Sector to support the ITU-R Members to hold the necessary meetings and perform the necessary administrative actions. If an allocation is made subject to application of RR9.21 for a secondary service, the primary service is considered as "higher status" with respect to the secondary service single service within the MIFR be a reason to object some modification of the Plan in the respective band? What would be the correct workflow to seek coordination if the administration receives a negative coordination answer from the neighbouring administration based on Article 48 of the Constitution without any technical suggestions to resolve the matter? What would be the administration receives a negative coordination answer from the neighbouring administration without any technical suggestions to resolve the matter? What would be the correct workflow to seek coordination answer from the neighbouring administration based on Article 48 of the Constitution without any technical suggestions to resolve the matter? What would be the correct workflow to seek coordination answer from the neighbouring administration based on Article 48 of the Constitution without any technical suggestions to resolve the matter? What would be the correct workflow to seek coordination in Station in No. 1.61 of RR. One or more transmitters and receivers or a combination of transmitters and receivers or a combination of transmitters and receivers. One or more transmitters and receivers. One or more transmitters and receivers or a combination of transmitters and receivers. If the objection was in the course of RR9.21 procedure and continued, the notified station in which service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station			
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neighbouring administration based on Article 48 of the Constitution without any technical suggestions to resolve the matter? If the objection was in the course of RR9.21 procedure and continued, the notified station may be recorded under the condition of RR4.4 with respect to that station of the objecting administration, even if the parameters are not known. I find a definition of station in No. 1.61 of RR. One or more transmitters or receivers or a combination of transmitters and receivers. So, could you pls give me an example of that station? Which kind of station in which service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station combined If the objection was in the course of RR9.21 procedure and continued, the notified station was in the course of RR9.21 procedure and continued, the notified station may be reported to the next WRC or Plenipotentiary Conference. If the objection was in the course of RR9.21 procedure and continued, the notified station may be reported to the next WRC or Plenipotentiary Conference. If the objection was in the course of RR9.21 procedure and continued, the notified station may be reported to the next WRC or Plenipotentiary Conference. If the objection was in the course of RR9.21 procedure and continued, the notified station may be reported to the next WRC or Plenipotentiary Conference. If the objection was in the course of RR9.21 procedure and continued, the notified station may be recorded under the condition of RR4.4 with respect to that station of the objecting administration, even if the parameters are not known. The station in general can have multiple transmitters and receivers. In the course of notification, a station represents links from a transmitter to a receiver. In the fixed service for example, if a transmitting station send the same signal with a frequency to multiple receivers (for example a FWA system) the multiple links as operations in one notice for the base station with 3 operation where	coordination if the administration receives a		uncertainty. We cannot ask ADM to publish the characteristics of their
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If the objection was in the course of RR9.21 procedure and continued, the notified station may be recorded under the condition of RR4.4 with respect to that station of the objecting administration, even if the parameters are not known. I find a definition of station in No. 1.61 of RR. One or more transmitters or receivers or a combination of transmitters and receivers. So, could you pls give me an example of that station? Which kind of station in which service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station combined If the objection was in the course of RR9.21 procedure and continued, the notified station of RR4.4 with respect to that station may be recorded under the condition of RR4.4 with respect to that station of the objecting administration, even if the parameters are not known. GAO Sheng The station in general can have multiple transmitters and receivers. In the course of notification, a station represents links from a transmitter to a receiver. In the fixed service for example, if a transmitting station send the same signal with a frequency to multiple receivers (for example a FWA system) the multiple links as operations in one notice. If a base station uses 3-sector antenna, they can be notified in one notice for the base station with 3 operation where each operation can have a specific antenna power, radiated power, antenna height, antenna	neighbouring administration based on Article		next RRB and may be reported to the next WRC or Plenipotentiary
notified station may be recorded under the condition of RR4.4 with respect to that station of the objecting administration, even if the parameters are not known. I find a definition of station in No. 1.61 of RR. One or more transmitters or receivers or a combination of transmitters and receivers. So, could you pls give me an example of that station? Which kind of station in which service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station combined notified station may be recorded under the condition of RR4.4 with respect to that station of the objecting administration, even if the parameters are not known. GAO Sheng The station in general can have multiple transmitters and receivers. In the course of notification, a station represents links from a transmitter to a receiver. In the fixed service for example, if a transmitting station send the same signal with a frequency to multiple receivers (for example a FWA system) the multiple links as operations in one notice. If a base station uses 3-sector antenna, they can be notified in one notice for the base station with 3 operation where each operation can have a specific antenna power, radiated power, antenna height, antenna	48 of the Constitution without any technical		Conference.
respect to that station of the objecting administration, even if the parameters are not known. I find a definition of station in No. 1.61 of RR. One or more transmitters or receivers or a combination of transmitters and receivers. So, could you pls give me an example of that station? Which kind of station in which service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station combined The station of the objecting administration, even if the parameters are not known. The station in general can have multiple transmitters and receivers. In the course of notification, a station represents links from a transmitter to a receiver. In the fixed service for example, if a transmitting station send the same signal with a frequency to multiple receivers (for example a FWA system) the multiple links as operations in one notice. If a base station uses 3-sector antenna, they can be notified in one notice for the base station with 3 operation where each operation can have a specific antenna power, radiated power, antenna height, antenna	suggestions to resolve the matter?		If the objection was in the course of RR9.21 procedure and continued, the
I find a definition of station in No. 1.61 of RR. One or more transmitters or receivers or a combination of transmitters and receivers. So, could you pls give me an example of that station? Which kind of station in which service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station combined GAO Sheng The station in general can have multiple transmitters and receivers. In the course of notification, a station represents links from a transmitter to a receiver. In the fixed service for example, if a transmitting station send the same signal with a frequency to multiple receivers (for example a FWA system) the multiple links as operations in one notice. If a base station uses 3-sector antenna, they can be notified in one notice for the base station with 3 operation where each operation can have a specific antenna power, radiated power, antenna height, antenna			notified station may be recorded under the condition of RR4.4 with
I find a definition of station in No. 1.61 of RR. One or more transmitters or receivers or a combination of transmitters and receivers. So, could you pls give me an example of that station? Which kind of station in which service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station combined GAO Sheng The station in general can have multiple transmitters and receivers. In the course of notification, a station represents links from a transmitter to a receiver. In the fixed service for example, if a transmitting station send the same signal with a frequency to multiple receivers (for example a FWA system) the multiple links as operations in one notice. If a base station uses 3-sector antenna, they can be notified in one notice for the base station with 3 operation where each operation can have a specific antenna power, radiated power, antenna height, antenna			respect to that station of the objecting administration, even if the
One or more transmitters or receivers or a combination of transmitters and receivers. So, could you pls give me an example of that station? Which kind of station in which service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station combined In the course of notification, a station represents links from a transmitter to a receiver. In the fixed service for example, if a transmitting station send the same signal with a frequency to multiple receivers (for example a FWA system) the multiple links as operations in one notice. If a base station uses 3-sector antenna, they can be notified in one notice for the base station with 3 operation where each operation can have a specific antenna power, radiated power, antenna height, antenna			parameters are not known.
to a receiver. In the fixed service for example, if a transmitting station So, could you pls give me an example of that station? Which kind of station in which service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station combined to a receiver. In the fixed service for example, if a transmitting station send the same signal with a frequency to multiple receivers (for example a FWA system) the multiple links as operations in one notice. If a base station uses 3-sector antenna, they can be notified in one notice for the base station with 3 operation where each operation can have a specific antenna power, radiated power, antenna height, antenna	I find a definition of station in No. 1.61 of RR.	GAO Sheng	The station in general can have multiple transmitters and receivers.
So, could you pls give me an example of that station? Which kind of station in which service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station combined send the same signal with a frequency to multiple receivers (for example a FWA system) the multiple links as operations in one notice. If a base station uses 3-sector antenna, they can be notified in one notice for the base station with 3 operation where each operation can have a specific antenna power, radiated power, antenna height, antenna	One or more transmitters or receivers or a		In the course of notification, a station represents links from a transmitter
station? Which kind of station in which service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station combined a FWA system) the multiple links as operations in one notice. If a base station uses 3-sector antenna, they can be notified in one notice for the base station with 3 operation where each operation can have a specific antenna power, radiated power, antenna height, antenna	combination of transmitters and receivers.		to a receiver. In the fixed service for example, if a transmitting station
service has combined transmitters? And, additionally, for Radio Relay System of Fixed Service, do we have such a station combined If a base station uses 3-sector antenna, they can be notified in one notice for the base station with 3 operation where each operation can have a specific antenna power, radiated power, antenna height, antenna	So, could you pls give me an example of that		send the same signal with a frequency to multiple receivers (for example
additionally, for Radio Relay System of Fixed Service, do we have such a station combined for the base station with 3 operation where each operation can have a specific antenna power, radiated power, antenna height, antenna	station? Which kind of station in which		a FWA system) the multiple links as operations in one notice.
Service, do we have such a station combined specific antenna power, radiated power, antenna height, antenna	service has combined transmitters? And,		If a base station uses 3-sector antenna, they can be notified in one notice
	* *		·
with many transmitters? azimuth, antenna tilt, etc.	Service, do we have such a station combined		specific antenna power, radiated power, antenna height, antenna
	with many transmitters?		azimuth, antenna tilt, etc.

A radio relay system usually uses different frequency for transmitting and receiving. In this case four different notices are required for the same site. (transmitter 1 for forward direction transmitter 2 for backward direction receiver 1 for forward direction receiver 2 for backward
direction)

Questions on notifications

Question	From whom	Answer
Please explain as a beginner, how can start	Thanuja Ariyarathne	See the Guidance for notification concerning terrestrial services at:
the notification process in an administrator		https://www.itu.int/en/ITU-R/terrestrial/tpr/Pages/Notification.aspx and
for FM/Tv and FXM.		also the webcast of Terrestrial Workshops at:
		https://www.itu.int/en/ITU-
		R/information/events/webcast/Pages/default.aspx
can some other institutions make a		Submissions can be made by institution if officially designated by the
submission other than the State?	Carlston Jobe	Administration concerned
particularly if the country is a member state		
of a regional organisation. Can that		It must be the administration that notifies unless there are special
organisation make the submission of a		agreements within the administration
notice?	Carlston Jobe	
where can a user see the notices he/she has		The complete notices will be published in Part 1 for MIFR or in Part A of
submitted?	Maria Stefan	the Special Section of a Plan
How long does it take from when submitting	Maria Stefan 03:53 PM	It will take 1 month if it is notified in the frequency band other than those
a notification until it appears in the one next		shared with space service, to publish a notice in a BR IFIC.
BRiFiCs?		It can reach 4 months if it is notified in a shared frequency band or
		planned frequency band.
With regard to pros 11.2 and 9.21, if we are		Submissions under 9.21 shall be made only if a footnote in RR Article 5
not sure can we submit under both		related to your frequency bands contains thr obligation to obtain
provisions? For example frequency within HF		agreement under provision No. 9.21.
range, we normally coordinated with		
neighboring countriesbut for other than		
neighbour countries, we not sure does it		
affected or not?	Asreen Anuar Abd Aziz	
		Yes, the modification of the Plan means to modify the characteristics of a
		frequency assignment recorded into the Plan (MOD) or to include a new
What does modification of the plan mean?		assignment (ADD) or to suppress an assignment recorded into the Plan
Does it refer to the addition and or		(SUPP). Assignment not yet recorded into the Plan (appearing in Part A of
modifications of assignments?	Salebona Shongwe	a Special Section) can be withdrawn.

MILES 1:	<u> </u>	C44 C44
What is main difference in G11-G14 and T11-		G11-G14 notice types are related to Other services within the GE06
T16 notice types ?	Mantas Barcys LTU	Planning and frequency bands
what's kind of information i have to put in		Highly recommend you use the Wizard of TerRaNotices which will guide
consideration to do my first notification?	AGL-Gilson Inácio	you for selection of notice type and all mandatory data items
		This question is linked to the replacement of CR/120 by the Guidelines
		made by the BR in 2019 to remove the discrepancy, which existed in
		these two documents concerning the directivity of antenna.
		According to Appendix 4 to the Radio Regulations, the directivity of antenna shall be mandatory for notification of VHF/UHF television and
		VHF sound broadcasting assignments. The CR/120 indicates that on
		electronic notices, this information is deduced from the existence or non-
We see 'guidelines' documents and the		existence of an attenuation subsection. In 2018, the BR updated the
Preface - but sometimes what is listed there		relevant software to make the notification of the directivity of antenna
is in contradiction with the specifications of		mandatory in accordance with Appendix 4. After receiving questions
the TerRaSys format, which are in Circular		about this change, the BR updated the Guidelines and indicated these
Letters (e.g. CR/120) ?	Klaus Huber	replace the notifications instructions contained in CR/120.
		·
During the notification procedure, are the	GAO Sheng	Usually designed parameters are notified. However sometimes the
parameters and data of stations measured or		measure parameters also be notified.
designed?	2.2.2	
So, if a station combined several transmitters	GAO Sheng	A notice can include multiple operations. Each operation includes the
like you exampled before, how to notify the		power (8AA) and radiated power (8B), antenna azimuth, antenna height,
delivered power. like described in 8AA, of		antenna tilt and etc. For example, 3-sector antenna with different power
that sort of station in previous experiences?		can be notified in one notice.
The whole station or each transmitter?		
Can I make notifications in SMS4DC at all?	gilson.inacio@inacom.gov.ao	That software is able to create notices for assignments in the fixed, the
		land mobile and the broadcasting services as well as earth stations in the
		space services.
Where can I find this form to make	gilson.inacio@inacom.gov.ao	The notices are available in TerRaNotices available in the BR IFIC
notification? and how long this process		
during?		
•	ı	ı

Does it have any gain to notify several terrestrial station in the same city with the same frequency and characteristics, due to the fact that all of them normally locate in the same coordination contours of earth stations of other countries. can we say notifying one of them automatically protect all of them. is this case also correct for several identical earth stations which are near each other.	Reza Naderi	No. In accordance with RR No.11.17, the individual notice of frequency assignment to stations with the coordination area of an earth station shall be notified. Normally the protection is based on the individual receiving terrestrial station. Even the stations are in the same city, they might have different locations. In this case they are in the same contours of earth stations of neighbouring countries. However, in the course of bilateral coordination procedure, the interference levels would be different and some of them can get an agreement while some other cannot. The two side of situation of interference should be considered in the coordination.
is the direct focal point user supposed to send an e-mail for access request to ITU to get access to WISFAT?	Maria Stefan 03:21 PM	No, it must be your administration that sends an official e-mail to the BR indicating: name, position, service e-mail and ITU user login with TIES services to brmail@itu.int
I have TIES access but not WISFATso I would like to also have WISFAT. The DFP user still works with us	Maria Stefan 03:29 PM	An official request should be sent to the BR Director (see CR/297)
Can you please develop a bit further?	Maria Stefan 03:30 PM	The creation of the TIES account is the first step for registering a notifier. Once the TIES account is created, at the request of the Administration, the person is registered by BR as notifier in the WISFAT database (see CR/297)

Question on terrestrial BRIFIC and related publications

Question	From whom	Answer
To do the exercises, do we need to download		The BR IFIC used for the workshop is the 2933 edition and can be
BR IFIC? For the time been we don't have		downloaded from the Terrestrial workshop web page at
subscription for downloading. Is there any		https://www.itu.int/en/ITU-R/terrestrial/workshops/WRS-
method to do the exercises?	Muditha Gunasinghe	20/Pages/default.aspx
The MDB Extract File on the website. Is it	Salebona Shongwe	No, these extract MDB files only contain the changes in their
possible to update the BRIFIC database using		corresponding BR IFICs and cannot be used to update the contents of
		previous BR IFIC databases. The latest ISO file published on the web or

this file? Or the only way is to download the		the latest BR IFIC DVD contains the latest updated version of the BR IFIC
ISO file?		database.
		Those MDB files available on the terrestrial BR IFIC web page for each BR
Does BR IFIC (mdb file) downloaded from ITU		IFIC edition only contain the changes (additions, modifications,
website contains overall existing database or		suppressions, withdrawals etc.) on the MIFR and Plans published in that
the ones that only needs be		specific BR IFIC edition. In order to have access to the whole database
notified/added/suppressed? Thanks	Farhah Toha	you should have the BR IFIC DVD or its ISO image file.
When do we need older versions of BR IFIC.		Older BR IFICs may be needed for history check purposes. Normally, the
Does the latest version meet all our needs?	GOKHAN.KARATAS	latest BR IFIC meets most of our daily needs.
In case of using BR-IFIC within an organisation,		Both options work for organizations. You may decide to put the database
should the database be installed in an		on each individual PC or on a network drive.
individual PC and afterwards copied to the		
common resource in the corporate network? or		
can it be installed directly in the network?	Angel León	
		Special Sections RR9.21 are published in PDF format in the BR IFIC. Also,
		available at https://www.itu.int/en/ITU-
		R/terrestrial/brific/Pages/default.aspx, see for example
Where characteristic of assignments published		https://www.itu.int/en/ITU-
in Special Section No RR 9.21/C/ are available?	Juris Rencis [LVA - VAS ES]	R/terrestrial/brific/BRIFIC/SpecialSection/RR921/RR921C992.pdf
how to replace the old BRIFIC database		When a new BR IFIC is installed, it copies the new database but does not
installed in our pc with the latest BRIFIC		delete the old database(s). You do not need to uninstall the old BR IFICs.
database edition? should we uninstall the older		
BRIFIC edition first and then install a new one?	Yudhistira Prayoga	
		BR IFIC can be downloaded by users designated by administrations and
		suscribers at https://www.itu.int/en/publications/ITU-
		R/Pages/publications.aspx?lang=en&media=electronic&parent=R-SP-
How we can download the BRIFIC?	GUI Mamadi NABE	LN.IT-2020
		According to Article 20 of the Radio Regulation, the ITU is mandated to
		publish this information. As indicated in CR/361, in case of any regulatory
		dispute, the original BR IFIC (Terrestrial services) on DVD-ROM shall
		prevail against the downloaded version of the BR IFIC (Terrestrial
I think we don't need DVDs.		services) in ISO format and a local copy of the DVD-ROM created from
i ALREADY wrote it to save money to ITU.	Dr. Haim Mazar	this ISO file.

Question on notification of assignments to broadcasting stations

Question	From whom	Answer
		The description of the electronic format and the data items of the notices
		GS1 and GS2 for the notification of digital sound broadcasting (T-DAB)
Can you explain as how to create a notice for		assignments and allotments, respectively, are provided in the Guidelines
a GS1 Assignment and GS2 TDAB Allotment		for GE06 submissions related to terrestrial broadcasting services. Please
and explain the various parameters included		see also examples of GS1 and GS2 notices at https://www.itu.int/en/ITU-
in the notification file field on the GS1 and		R/terrestrial/tpr/Pages/FMTVNotices.aspx#GE06Notices.
GS2 format	CHIBANI-ALG	
		It is possible to notify assignments to DRM stations using T03 notice for
		LF and MF sound broadcasting in Region 1 and MF sound broadcasting in
		Region 3 and T04 for MF sound broadcasting in Region 2. For further
		information, please see Guidelines for notification relating to the GE75
how to make ADD notice for DRM (digital		and RJ81 Agreements and examples at https://www.itu.int/en/ITU-
radio Mondale)station in LF/MF band?	chelali	R/terrestrial/tpr/Pages/LFMFNotices.aspx#T03Notices.
		- T03 in application of Article 4 procedure for the addition of a new
		assignment to the GE75 Plan or for modification of an existing assignment
		recorded in the GE75 Plan (t_action=ADD or MODIFY). This modification
		will be published in a Special Section of GE75 (LF/MF).
		- T03 in application of Article 5 procedure for the addition of a new
		assignment to the MIFR or for modification of an existing assignment
		recorded in the MIFR when the technical characteristics of the
		assignment being notified are not the same as in the Plan (t_fragment=
		NTFD_RR). If they are the same, notice form TB7 is to be used. At the end
Can you say something about the difference		the assignment will be recorded in the MIFR.
between publication T03 Brific and Master		The BR IFIC concerns the publications of "fragments", i.e, GE75, GE84, Art
reg.?	Gordana Lunestad	11 (MIFR)
good afternoon, what is the criteria to decide		When you start GE84 Compatibility Analyses or GE84 Optimization tools,
if a published assignment (not recorded) in		tick the check box "consider TIP".
Part A is considered in the analysis? thank	Juan Pablo Hernandez	
you	(MINECO)	

		The NFS is the nuisance field strength generated by one source of
		interference (also called single source interference)
		The Eu represents an aggregate interference which is a summation of
		multiple single sources of interference, using the simplified
		multiplication method as described in Chapter 4 of Annex 2 to the GE84
		Agreement
		In the context of the consideration of a proposed modification to the
Good afternoon, I want to understand the		Plan, the Eu should be assessed.
difference between NFS and others EU		In the optimization tool, only the NFS is calculated due to involvement of
information, what's the most important to		many requirements which are not and may never be included in the Plan.
analyze	AGL-Gilson Inácio	
		We are assessing the NFS received and generated, considering 100 kHz
For research with the flexible channel, the		spacing. 200kHz and 300 kHz refer to the bandwidth. The bandwidth is
polarization is horizontal and the spacing is		not taken into account in the calculations. With respect to the
100KHz or in our countries, the polarization		polarization, if one transmitter is operating in H polarization and the
is vertical and the spacing is 200 or 300KHz,		other transmitter is using V polarization, polarization discrimination is
so it does not affect the result?	1- GUI Mamadi NABE	applied, if the check box is ticked.
For GE84 tools, those info have one format?		The format to be used is the T01 notice format
or we can put at any order?	AGL-Gilson Inácio	
our country (Indonesia) is not listed as part of		Yes, an administration which is not part of GE84 Agreement can notify to
GE84 Countries, so can we also used the T01		MIFR its FM radio stations using T01 the
notification form to notify our FM radio		
station?	Yudhistira Prayoga	
		In addition to WRS, on the https://www.itu.int/en/ITU-
		R/terrestrial/broadcast/Pages/Services.aspx, you may find
		documentation on the GE84 Software. Also on the page of GE84 Online
		Workshop on GE84 optimization for Africa (https://www.itu.int/en/ITU-
		R/terrestrial/broadcast/africa/Pages/Workshop.aspx), materials such as
		videos, presentations, examples and documentation are provided. And
For the new comer to organization, how can		finally, if any questions or assistance need, email to
get knowledge or training in this GE84 tools?	Martins Langa	BRBCD@itu.intBRBCD@itu.intBRBCD@itu.int
what is the action on countries do not make		The administration which wishes to modify the Plan should preferably
agreement to Geneva84?	Muditha Gunasinghe	seek the agreement directly from administrations whose services are

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heights.
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1984 Regional Agreement be applied.		project for Africa, and it gets all the agreements, nothing prevents it from
Knowing that no submission to BR is tolerated during this exercise.		being published in part B and recorded in the Plan.
tolerated daring this exercise.		Q2: You may modify the Plan before the 1 st frequency coordination
Q2: What about the assignment that has been deleted by this provision, the Administration shall notify it in order to be		meeting, or have it among requirements and coordinate it during the optimization process for Africa.
taken into consideration in this exercise of optimization		
Thanks for answer and after the end 28 day		Yes, the affected administration can send their comment within the 100-
can the affected admin send their objections	Salem Tabet	day period following the date of publication in Part A
		The NFS is the nuisance field strength generated by one source of
		interference (also called single source interference)
		The Eu represents an aggregate interference which is a summation of
		multiple single sources of interference, using the simplified
		multiplication method as described in Chapter 4 of Annex 2 to the GE84 Agreement
		In the context of the consideration of a proposed modification to the Plan, the Eu should be assessed.
GE84 what is difference between NTFS & EU		In the optimization tool, only the NFS is calculated due to involvement of
and what to considered to calculate		many requirements which are not and may never be included in the Plan.
interference ?	Salem Tabet	many requirements which are not and may hever be included in the Fian.
menerence :	Jaiem Tabet	-eTools allows to run coordination examination and conformity
		examination under Article 4 of the GE06 Agreement, Compatibility Analysis
		for GE06, GE84, and provides P model tools, etc.;
		-GE06Calc is used for conformity examination under Article 4 and/or
		Article 5 of the GE06 Agreement.; It also "reads" the compatibility analysis
What is the difference between e tool and		results done through eTools-GE06 Compatibility Analysis.
GE06 calc?	Gordana Lunestad	
		No online GE75 tool is currently available to calculate the interference. If
what is GE75 tools online is available to		needed, the Bureau could prepare what-if study for a specific notice.
calculate interference ?	Salem Tabet	

here will	If an Administration is not ment, to be administration of an extension		
	If an Administration is not party to broadcasting agreements, the		E broadcasting platform is prepared for
pagation	be no data on eQuery, Pub and myAdmin. However, eTools propa		special broadcasting plans for region 1 and
	models P.1812 and P.1546 can be used.		region 2. Can we use this platform for region
		Muditha Gunasinghe	3 in general?
	He will shortly start the part on P models.		Can you say few words about prop. model
		Gordana Lunestad	tool
	There is no limit.		
list with	Administrations should send to brbcd@itu.int a consolidated lis		Greetings! Is there a limit on the number of
dress). At	focal points (first name, last name, ties username and email addre		users from one administration who have
ess to	this point the BR would take necessary actions to allow access		access to MyAdmin? Could you also explain
	myAdmin.	[KAZ] Aigerim Mambetalina	why focal point can lack access to MyAdmin?
fer to the	This depends on the specific propagation model used. Please refer	-	How do we demarcate "warm sea" and "cold
	relevant recommendations (P1546; P1812).	Muditha Gunasinghe	sea" in propagation analysis?
	BT-2382		The min field strength value for DVB-T2
		GIHAN HELMY	calculation is taken from Rec. ITU-R BT.2033
vice, are	HF bands below 5900 kHz and allocated to the Broadcasting service		Why frequencies below 5 MHz for
RR 23.10.	governed by the provisions of RR 5.16 to RR 5.20 and RR 23.3 to R		broadcasting aren't listed as part of AR12
			HFBC freq band?If we used freq below 5
		Yudhistira Prayoga	MHz, how to notify those frequencies
			What is number stations? What is the nature
			of their origin? How comply this stations to
		Vladislavs Himins	the ITU Radio Regulations?
. The	There is no currently available tool to calculate the interference.		what is software to be use GE75 to calculate
	Bureau has planned to develop such software in the future.	Salem Tabet	harmonic interference?
vidth is	Depending on the type of modulation, different values of bandwic		Is there any maximum permissible
	used. As a general principle, this value shall not exceed 10 kHz.	Benny Elian	bandwidth for HFBC?
t/en/ITU-	The HFBC Reference tables are available on: https://www.itu.int/e	•	
	R/terrestrial/broadcast/HFBC/Pages/Reference.aspx		
		GIHAN HELMY	how to download the reference tables
eb, are HF	As replied by M. Miltchev , the listed frequency bands on the web		I noticed these frequency bands are allocated
rticle 12	frequency bands for international broadcasting and subject to Arti		for broadcasting in Region 3 on primary
under	of RR. The frequencies that you listed in your question are listed u		basis:
		Benny Elian	
RF . T vid:	BT-2382 HF bands below 5900 kHz and allocated to the Broadcasting service governed by the provisions of RR 5.16 to RR 5.20 and RR 23.3 to R There is no currently available tool to calculate the interference. Bureau has planned to develop such software in the future. Depending on the type of modulation, different values of bandwick used. As a general principle, this value shall not exceed 10 kHz. The HFBC Reference tables are available on: https://www.itu.int/eR/terrestrial/broadcast/HFBC/Pages/Reference.aspx As replied by M. Miltchev, the listed frequency bands on the web frequency bands for international broadcasting and subject to Articles.	GIHAN HELMY Yudhistira Prayoga Vladislavs Himins Salem Tabet Benny Elian GIHAN HELMY	The min field strength value for DVB-T2 calculation is taken from Rec. ITU-R BT.2033 Why frequencies below 5 MHz for broadcasting aren't listed as part of AR12 HFBC freq band?If we used freq below 5 MHz, how to notify those frequencies What is number stations? What is the nature of their origin? How comply this stations to the ITU Radio Regulations? what is software to be use GE75 to calculate harmonic interference? Is there any maximum permissible bandwidth for HFBC? how to download the reference tables I noticed these frequency bands are allocated for broadcasting in Region 3 on primary

3200 – 3400 kHz		national HF Broadcasting listed at https://www.itu.int/en/ITU-
3900 – 4000 kHz		R/terrestrial/broadcast/Pages/Bands.aspx
4750 – 4995 kHz		
5005 – 5060 kHz		
is there any specific reason why these bands		
are not listed in the HFBC web page?		
		Yes. New allotments can be added according to GE06 Plan. A new
		allotment can be added by submitting the appropriate notice type (GS2
Can adms add new allotments? and if so,		for sound or GT2 for TV) and following the usual coordination procedure
what do they need to do?	USA - FCC - Louis Bell	after publication in Part A.
		For assignments inside a recorded allotment (converted assignments) the
		normal procedure would be to submit as a converted assignment. In this
		case no agreements with other administrations are needed. Instead, the
		converted assignment needs to be in conformity with the Plan
		(conformity examination) according to the criteria established in Section
		II of Annex 4 of the Agreement. A second possibility would be to submit
if two administrations have agreed one		this assignment as a single assignment (1S) indicating the agreement of
assignment inside a recorded allotment,		the other administration. In this case, the proposed modification would
what would be the procedure? via wisfat to		be published in Part A with the list of potentially affected administrations
be published in part A? via BR the		according to Section I of Annex IV of the Agreement and the notifying
compatibility according to Annex 4 of GE06?	Juan Pablo Hernandez	administration would need to get all agreements from these
thank you	(MINECO)	administrations before requesting its publication in Part B.
		When putting a station in operation, GE06 Agreement allows the
		submission of an entry of the Plan under Article 5 (for recording in the
		MIFR) using different characteristics of those recorded in the Plan. If the
Do the references in the plan to "T-DAB"		notified assignment is in the broadcasting service within DVB-T or T-DAB
imply any kind of limitation for the use of		systems, provision 5.1.2 would apply. If the notified assignment is to be
other technologies for digital sound		used in the broadcasting service for other systems than DVB-T or T-DAB,
broadcasting (namely DVB-T2 Lite)?	Angel León	or is operating as other primary services, the provision 5.1.3 would apply.
Should the GE06 Calc tool be updated to the		It is highly recommended to use the latest BR IFIC for calculations using
newest version of BRIFIC?	Maria Stefan	GE06 Calc because results of calculations may differ. While launching the

		GE06 Calc automatically addresses to ITU servers for checking if there are any updates relating to the software.
In our countries in general it is not easy to		It is recommended to use TerRaNotices tool which allows to introduce
modify the antenna diagram with the		antenna diagram in 10-degree steps.
degrees used by e-tools. What to do?	1- GUI Mamadi NABE	
Good Afternoon, when I use the RJ81 e-tool,		When you have this issues please send an email to BRBCD@itu.int and
at the moment to download the outcome		we will reply as soon as possible.
there is an error message that say "An error		In this case the files had a duplicate, and as the Online Validation had not
occurred performing GetTestPackageData		yet been integrated for LFMF calculations the software had an issue. We
action. The problem has been notified to the		implemented a fix.
ITU. Please note the current date and time to	Prg - CONATEL – Pablo	
require assistance 12/10/2020 4:46:57 PM"	Centurión	
Is TIES account enough to access myAdmin?		No, the administration should notify a list of Focal Point for broadcasting
The page does not load for me	Maria Stefan	online tools to brbcd@itu.int
		P.1812 and P.1546 calculations are implemented in eTools. For the other
Is there the option for what type of		calculations available in eTools (GE06, GE84,). the propagation model
propagation model we will use?	Demetris Takoushis (Cyprus)	used is outlined in the agreement.
		This is a typo. You can run P1812v4 P2P (Point-To-Point) and P2A (Point-
is there a difference between to choices		To-Area) calculations.
P1812v4 and P1812 v4 ?	G.H.	V4 labels the version of the recommendation in use.
one practical question, (althought , maybe it		The ITU-R P.526 is not a full propagation model, it deals with diffraction
is not the correct forum), what		only. You can choose the model depending on your needs. Both P1812
recommendation you would use to simulate		and P.1546 can be used in that frequency bands and for those services.
a land path in the FM band (87,5-108MHz)		
and DTT (470-694MHz)? we have been using	Juan Pablo Hernandez	
ITU-R 526. thank you	(MINECO)	
When WE CAN have e tool for GE75 plan?	amel.djenane@tdz.dz	It is not in the top list of priorities due to low usage, but we hope by
		WRS2022.
If an administration followed all the	Eng.Omar Abdulla Ebrahim	If the administration is not affected based on ITU calculations and has not
procedures in GE84 but still has objections in	(Bahrain)	requested to be considered as affected according to provision 4.3.2 of
some notification from other administrations		Article 4 of the GE4 Agreement, its objection is not taken into
		consideration.

which are not affected based ITU calculations then what is the solution?		
Do aeronautical compatibility tests for GE84 and GE06 have to be done only for precoordination requests? Sometimes it is indicated in part A which stations have to be checked for aeronautical compatibility. Is it too late to check this after receiving the notification in Part A?	Maria Stefan 03:42 PM	No it is not too late. You may wish to investigate the compatibility with respect to the aeronautical service even after the publication of the notices in Part A, in the comments period established in Article 4 of the relevant Agreement.

Question on notification of assignments to fixed and mobile stations

Question	From whom	Answer
		If a base station uses 3-sector antenna, they can be notified in one notice
For the Base Station, there are often 3 sector		for the base station with 3 operation where each operation can have a
of a station contains 3 antenna. Will we		specific antenna power, radiated power, antenna height, antenna
notify this station for 3 times ?	GAO Sheng	azimuth, antenna tilt, etc. Therefore, no need to notify 3 times.
		In addition to RR11.2 and 9.21 used for transmitting station there are:
		RR11.9: for receiving land station for recording in the Master Register;
have we other provisions in FXM notification		and
procedures or we have only two RR11.2 and		RR11.17 for typical transmitting station for recording in the Master
RR9.21 for exemple for Fx (point to point)	hanine	Register
		you may use the functionality in TerRaNotices which is under File/Wizard.
		T12 is under provision RR11.2 for notifying a a frequency assignment to a
How do I ensure that I am using the right		transmitting station
notification. E.g. using a T14 notification		T14 is under provision RR11.17 for recording many stations, with one
instead of a T12 notification.	Salebona Shongwe	notice, having the same technical details within a given area.
Why, in case of T11 notification, assigments		The group of technical parameters identifying the uniqueness of an
with all the significant data like assigment		assignment is formed by: Assigned Frequency, Class of station,
identifier, operating frequency, radiation		Bandwidth, Emission Class, Geographical coordinates and the Operations
class, location of station, call sign, nature of		Hours. The polarization is an antenna parameter. Therefore the different
sevice etc., but have different polarizations	Glebs Kuzminovs	

are considered as duplicated assigments when being validated?		polarizations shall be notify in different antennas within the same notice.
What are the provisions for considering the antenna patterns?	Juris Rencis [LVA–- VAS ES]	For stations in non-planned bands, there are no provisions in the RR that oblige to consider antenna patterns in identification of affected administrations. However, it is used in a bilateral coordination and it gives an effective way to get an agreement of neighbouring countries.
Can You please name the tool used in slide Nr.16 to determine coordination area of Earth station? Is it available for national administrations?	Glebs Kuzminovs	BR Space Department provide with a tool named GIBS (Graphical Interface for Batch Calculations on PC) for this purpose, which can be downloaded from ITU-R webpage https://www.itu.int/en/ITU-R/software/Pages/gibc.aspx
hello, which provision is reffering to coordination procedure between two Fixe stations or two land mobile stations or between land fixe and land mobile station	hanine	The coordination between terrestrial services is mandated when a footnote is referring to RR9.21. There are some other provisions in WRC Resolutions to mandate coordination between terrestrial services for HAPS and oceanographic radar.
what if coordination agreement couldnt be reached between administrations, could we continue to the notification process?	Yudhistira Prayoga	It can be notified but would be returned with an unfavorable finding. Therefore it is highly recommend to finish the coordination before notifying the assignment.
Can administration use propagation model defined in App7 or SM.1448 ?	mindaugas	For coordination under RR9.16 and RR9.18, Appendix 7 and Recommendation ITU-R SM.1448 should be used. However for RR9.21 coordination the agreed criteria and methods which are given in the footnote in question or in an associated WRC Resolution or in an associated RoP should be used.
In maritime service are ship stations use to be notified like cost stations?	TUN Hajer Ghazali	Ship stations shall not be notified according to No. 11.14 . It is covered by notification of a receiving coast station with class of station MS under 11.9 (using notice type T13).
How to calculate the interference of the stations in APP25	renhong	The Bureau has implemented the calculation tool for identification of apparent incompatibilities between a proposed allotment and any other existing allotments in AP25. It applies the technical standards, method of calculation and computer programs in accordance with Resolution No.325 of WARC MOB-87 (IFRB CR No.843).

when is pfd unit dB(W/(m2.MHz)) used and under what condition can it be converted to dB(W/m2.4kHz))? In the exercise 9 of the "Coordination under No. 9.21 of the RR for Terrestrial services (FXM)" presentation, the trigger pfd of -181 dB(W/m2) over 4 kHz of reference bandwidth was converted to field strength = 28 dB(uV)/m. What formula was used to derive the field strength from pfd?	Teng Lock Khoo Maxim Cumpanici	The two units has no difference to use for expression of pfd except for the different reference bandwidth. The unit dB(W/(m².MHz)) can be converted into dB(W/m².4kHz)) by adding 10*log(4/1000) = -24dB. The formulas to convert between different types of criteria are given in Recommendation ITU-R P.525.
What are the provisions/measures in the RR to reduce the noise/interference level at the space station from the IMT stations operating in S band by neighbouring administrations?	Khagendra Singh	The limits of antenna power (8AA) and radiated power (8B) are given in Article 21 (Nos. 21.3 and 21.5). The S band is included in Table 21-2 of the RR. There are many ways of reducing interference/noise level at the space stations. Reducing power, using high gain antenna, placing antenna not directing GSO and etc are the way of reducing the interference to the space station.
Situation: there is a frequency assignment to bases station (T12 form) in the MIFR. Directivity of the antenna is D, Beamwidth 60 deg and Azimuth 145 deg. Reference antenna is optional and not given. How can I determine the antenna pattern? What is front-to back ratio of such antenna?	martinsg	There is no way to obtain the exact value of the front-to-back ratio of an antenna from the notified specifications. However we can estimate the ratio using a reference antenna radiation pattern given in Recommendation ITU-R F.1336 .
What to do with frequency assignment of land mobile station, which in real life situation is capable of causing harmful interference (RR11.2), but at the same time it shall not be notified (RR11.14)? There is no FB. To notify mobile stations assignment or not?	martinsg	The individual mobile station shall not be notified in accordance with No. 11.14 however, the mobile station communicating with a land station is, in the process of notification, notified as a receiving land station using notice type T13 with class of station ML.

Milestia the height above ground level of	na o utimo o	Newselly it is 1.5 m for notable stations, 20 m for land stations, and fined
What is the height above ground level of	martinsg	Normally it is 1.5 m for potable stations, 30 m for land stations and fixed
typical transmitting stations antenna? Is it 2		stations 10000 m for aircraft stations. However, if a specific height is given
m, 100 m of maybe 1000 m?		in the Radio Regulations or in ITU-R Recommendations, as a reference for
		a frequency band for a specific service, it should be respected.
Can you explain how HAPS station is	Ranjala Gunathunge	With a definition, the HAPS is under the scope of the terrestrial service
notified? Is it under satellite or terrestrial		and should be notified as a terrestrial station.
service?		BR is developing the notice forms and the program for calculation of
		compatibility between HAPS and other services and going to send a circular
		letter with a detailed information for the notification of the HAPS.
In some cases when notifying T11,	Janko Dolgan, AKOS Slovenia	If the FX in the coordination contour of a FSS earth station, AP7 should be
coordination is required with neighbouring		applied.
counties. How this countries are identify by		If it is withing 1200 km from the BSS service area, the RoP 9.19 should be
ITU or administration. Is there a tool		applied.
available?		If it is in the band of Appendix 30 Plan, it should follow the criteria and method given in Appendix 30.
		If it is subject to RR9.21 coordination, the criteria given in the related
		footnotes, in a WRC Resolution or in an associated RoP.
		For RR9.18 and 9.19 coordination, the notifying administration should
		identify the affected administrations. For RR9.21 coordination, BR
		identifies the affected administrations.
		The tools are depending on frequency bands. The GIBC tool may be used
		for the identification of the affected earth stations.
What are the possible process to correct or	Janko Dolgan, AKOS Slovenia	
What are the possible process to correct or	Janko Dolgan, AKOS Slovenia	If your assignment is published in Part 2, you can correct it by submitting
modify record T11 alredy recorded in part 2		a MODIFY notice
of MR.		

Question on maritime issues, MARS database submissions coast and ship stations for Lists IV and V,

		There are no provisions in the RR which put obligations to
Is it obligation for Administration to register		register all coast stations in the ITU maritime database.
all coast guard station to ITU? Thank you?	Osmond Aritonang	However, administrations, through provision of RR 20.16, are

		urged to provide such information, considering the
		importance of this information for safety at sea.
Hello :) First and foremost, can you please		The provisions on licenses are contained in Article 18 of the
explain the scope and responsibility of a		RR. However, the responsibility of national regulators
national regulator when issuing	Yannish	concerning issuing of coast and ship station licenses is subject
coast/port/ship station licenses.	Sewpersadsing_Mauritius	to the administrations concerned.
		There are no provisions in the RR which put obligations to
		administrations to register all ship stations in the ITU
		maritime database. However, administrations, through
		provision of RR 20.16, are urged to provide such information.
2. Do we need to notify all vessels to the ITU?		It should be noted that Resolution 356 (WRC-07) underlines
even those small vessels which operate in	Yannish	the importance of ship stations database for enhancement of
territorial waters only.	Sewpersadsing_Mauritius	safety at sea.
		According to definitions in the RR.
In the case that an operator uses maritime		Port station: A coast station in the port operations service
handheld VHF radios in the port area, does		which is not intended to be used while in motion. Therefore,
the regulator need to assign specific call sign	Yannish	handheld VHF radios, by nature, cannot be used as a "coast
and notify to ITU as a port station?	Sewpersadsing_Mauritius	station".
		There is no definition for "Pilot Station" in the Radio
		Regulations. However, Pilot Stations refer to those coast
		stations providing communications to support maritime
What is a pilot station in the case of 00MID3	UGA-George WK	pilotage services.
		Here is the link to the MARS presentation, where links to
		notification forms, are available: https://www.itu.int/en/ITU-
I missed the template/forms bit. May the	1. UGA_Bogere Joseph	R/terrestrial/workshops/WRS-
presenter share the link to download one.	Alfred	20/Documents/MaritimePublications_MARS.pdf
In addition to Yannish's question, do we have		If a station has the status of "coast station" i.e. land station in
also to notify the inland control stations that		the maritime-mobile service (RR Nos. 1.69 and 1.75), it may
may serve as a coastal station	UGA-George WK	be notified to the ITU as a coast station.
are the accounting authorities mandatory for		Accounting Authorities fields are not mandatory for ship
the all ship stations notification or only for		notifications in general.
those using satellite equipment?	Bilel Benzid - Tunisie	

		However, field 19 need to be notified when the ship is equipped with a satellite terminal and associated with an accounting authority dealing with satellite communications.
is there any recommendation that we can use to ask the assistance of the BR	BOUBAKARY Souley (ART)	You may contact BR through brmail@itu.int and provide with details on the topic.
Should ship station inspections be performed		The procedure of issuing ship station licenses, regardless
for all non-GMDSS vessels prior to issuing		GMDSS or non-GMDSS vessels, is subject to national
ship station licences? if not, can u please	Yannish	regulations, including the need of ship stations inspections as
elaborate on good practices?	Sewpersadsing_Mauritius	a part of this procedure.