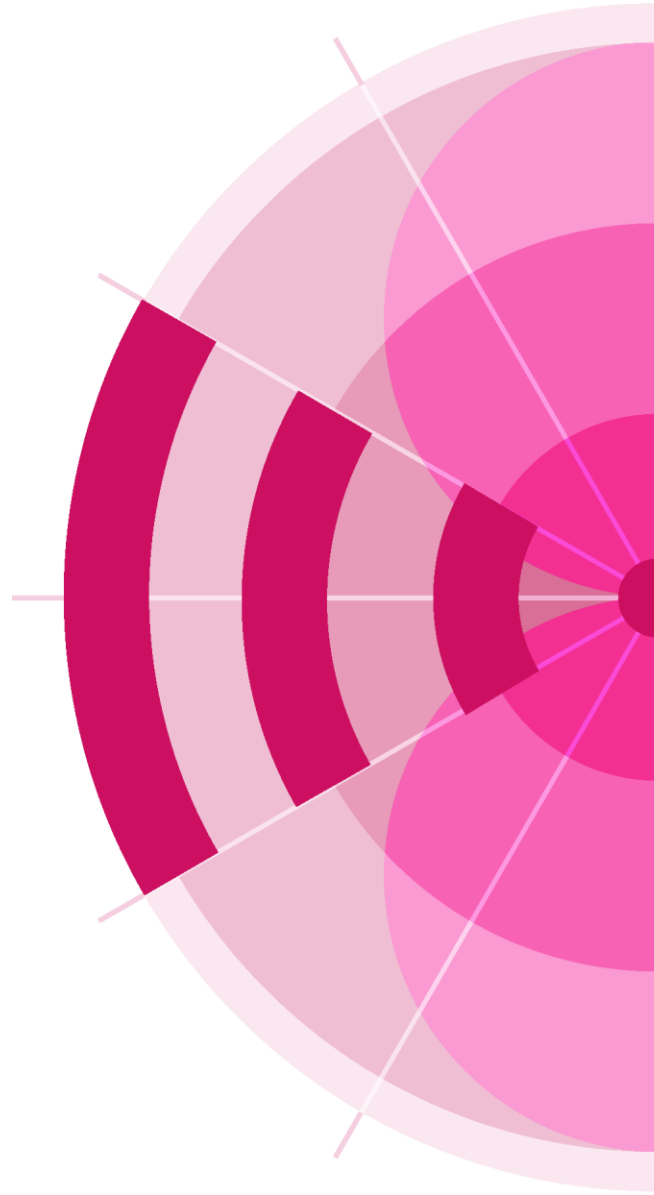


ITUWRS
GENEVA2020

Coordination and Notification

“Overview of Coordination and Notification Procedures (Non-Planned Space Services) by Mitsuhiro Sakamoto (SSC/SSD/BR)”



Contents

Essence of coordination approach

Two stage procedure – AN or CN

Examination of Coordination Request

Publication of CR/C, CR/D and CR/E

Earth station coordination procedure

Notification - Recording in MIFR

Resolution 49

BR Actions at the end Regulatory Time Limit

WRC-19 Results relating to Space Services

One of the Main Purpose of RR is Interference-free operation

Mechanisms to achieve it

Allocation, Limits, Licensing , Monitoring
and

- Planned use
- **Coordinated Use**

→ **First Come First Served (subject to some restrictions) and Obligatory Negotiations**

Elements of Coordination Approach

- **Publish (inform) a planned use of satellite network (earth station)**
- **Fulfil requirements mentioned in the RR**
- **Negotiate with concerned administrations and get agreements**
- **Record the coordinated assignments in the MIFR (Master International Frequency Register) to be taken into account by other administrations**

Elements of Coordination Approach

Elements	Relevant Provisions
Procedures	Articles 9 & 11
Submission format	Appendix 4
Technical & operational limits	Article 5, Articles 21&22 etc.
Criteria and methods to identify coordination requirements	Appendix 5 (Appendices 7 and 8)

Three main variants for Coordination Approach

- Procedure for Satellite networks Not subject to Section II of Art 9 Coordination Procedure (some NGSO) = “AN” procedure
- Procedure for Satellite networks Subject to Section II of Art 9 Coordination Procedure = “CN” approach
 - Further two variants depending on methods of identification of coordination requirements
- Procedure for Earth Stations

Coordination Approach (AN)

Satellite networks Not subject to Coordination Procedure

A

Advanced
Publication
Information

Start the clock
(7 years to bring into use)
Inform all administrations of a
planned satellite network/system
(Non-GSO) and its general
description
No priority, No examination

N

Notification

Recording in
Master Register
(international
recognition)
No exam on
the result of
coordination
(Bringing into
use)

“AN” procedure / API/A

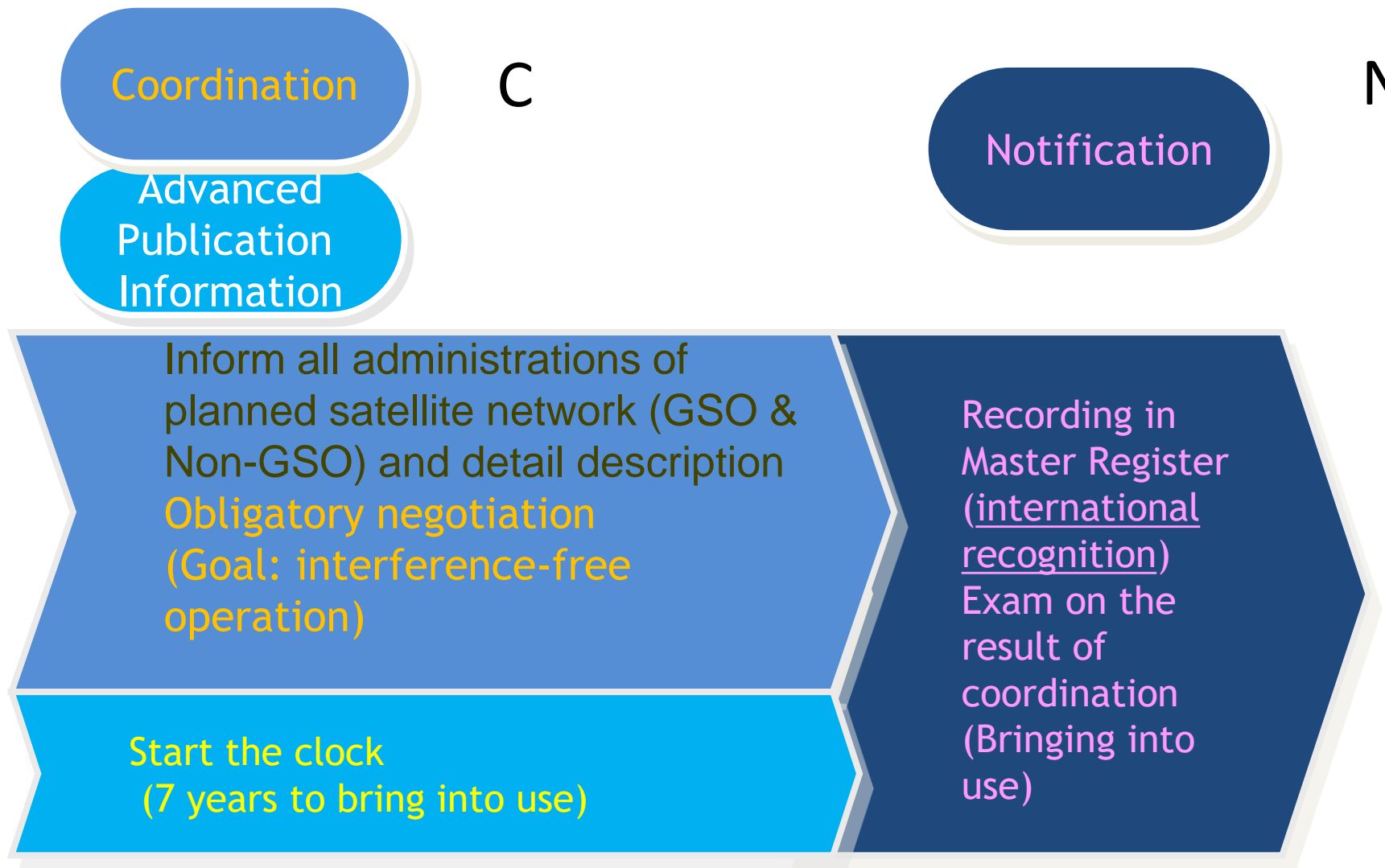
- **Section I, Article 9 “Advance publication of information on satellite networks and satellite systems”**
- **Inform all administrations of planned satellite network /system (Non-GSO) and its general description (API/A publication)**
- **Start of regulatory time limit to be recorded in the MIFR and brought into use (API/A)**
- **No priority, No examination and no identification of coordination requirement by the Bureau in API/A**

“AN” procedure / After API/A

- **Followed by API/B (Comments by other administrations)**
- **Examination w.r.t. conformity with RR but not on the result of coordination by the Bureau**
- **7-year regulatory period for notification and bringing into use**

Coordination Approach (CN)

Satellite networks Subject to Coordination Procedure



“CN” procedure / CR/C and API/C

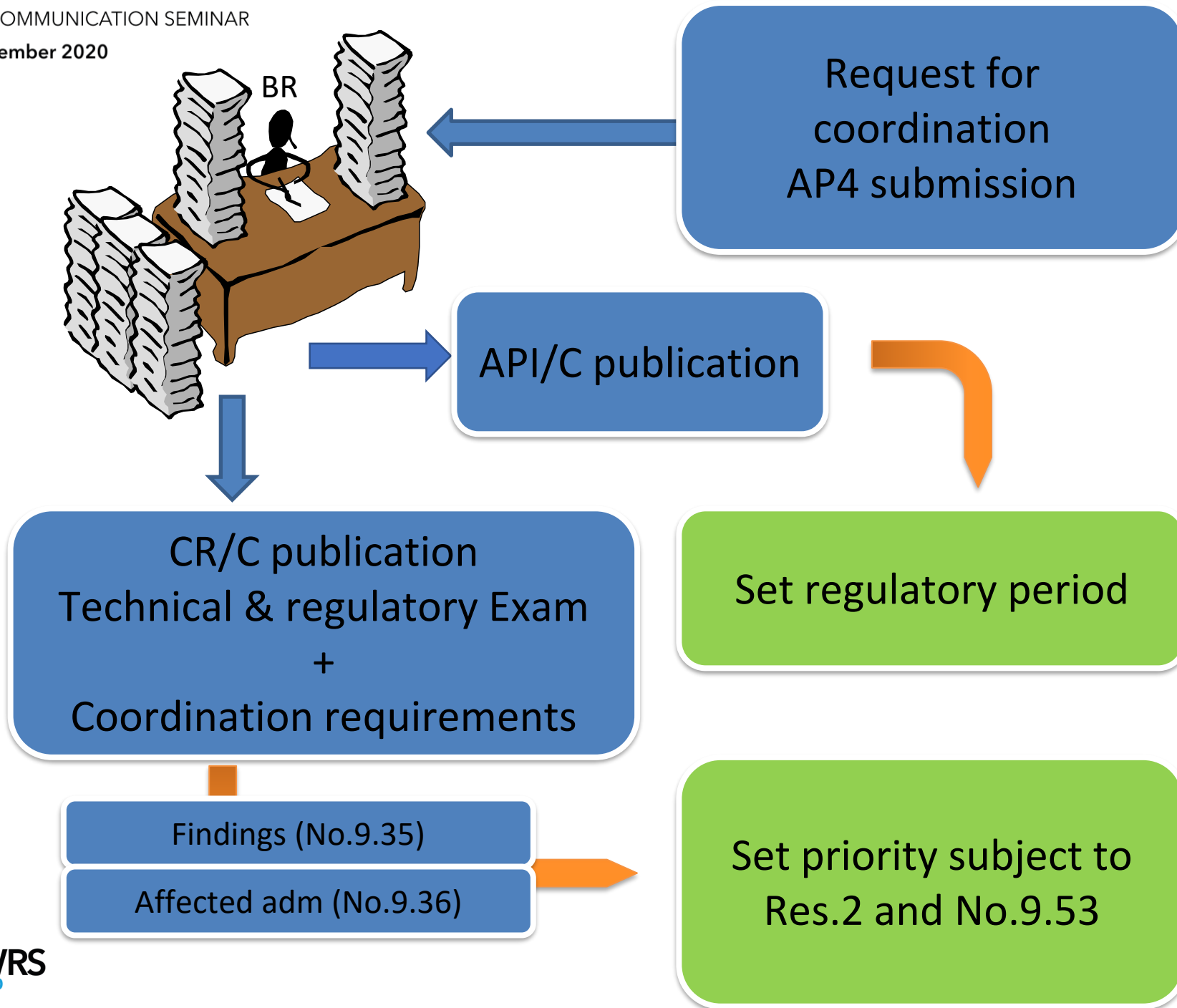
- **Section II, Article 9 “Procedure for effecting coordination”**
- **Inform all administrations of planned satellite network (CR/C publication)**
- **Examination and identification of coordination requirement by the Bureau (CR/C publication)**
- **If favorable finding, the assignments of the network are taken into account by the subsequent BR exams.**
- **Start of regulatory time limit to be recorded in the MIFR and brought into use (API/C publication)**

“CN” procedure / After CR/C

- Finalization of coordination requirement by the Bureau (CR/D and CR/E publication)
- Examination w.r.t. conformity with RR and coordination requirement at Notification stage

Which procedure should be used

- **“CN” procedure**
- **GSO network in non-planned services**
- **NGSO network/system under Nos. 9.11, 9.11A or 9.21 coordination**
 - **See Article 5, AP5 and “ROP relating 9.11A” for bands and services for which Nos. 9.11, 9.11A or 9.21 coordination are applicable**
- **“AN” procedure**
- **The other NGSO network/system**



“CN”
procedure

No.9.35 Examination

**Examination w.r.t. in conformity with
Allocation Table and Other provisions Listed
in RoP under No.11.31**

**Favourable and Unfavourable groups of
frequency assignments are split**

Findings: Favourable A- Unfavourable N-

**Groups with findings N- are not examined
further**

No.9.36 Examination

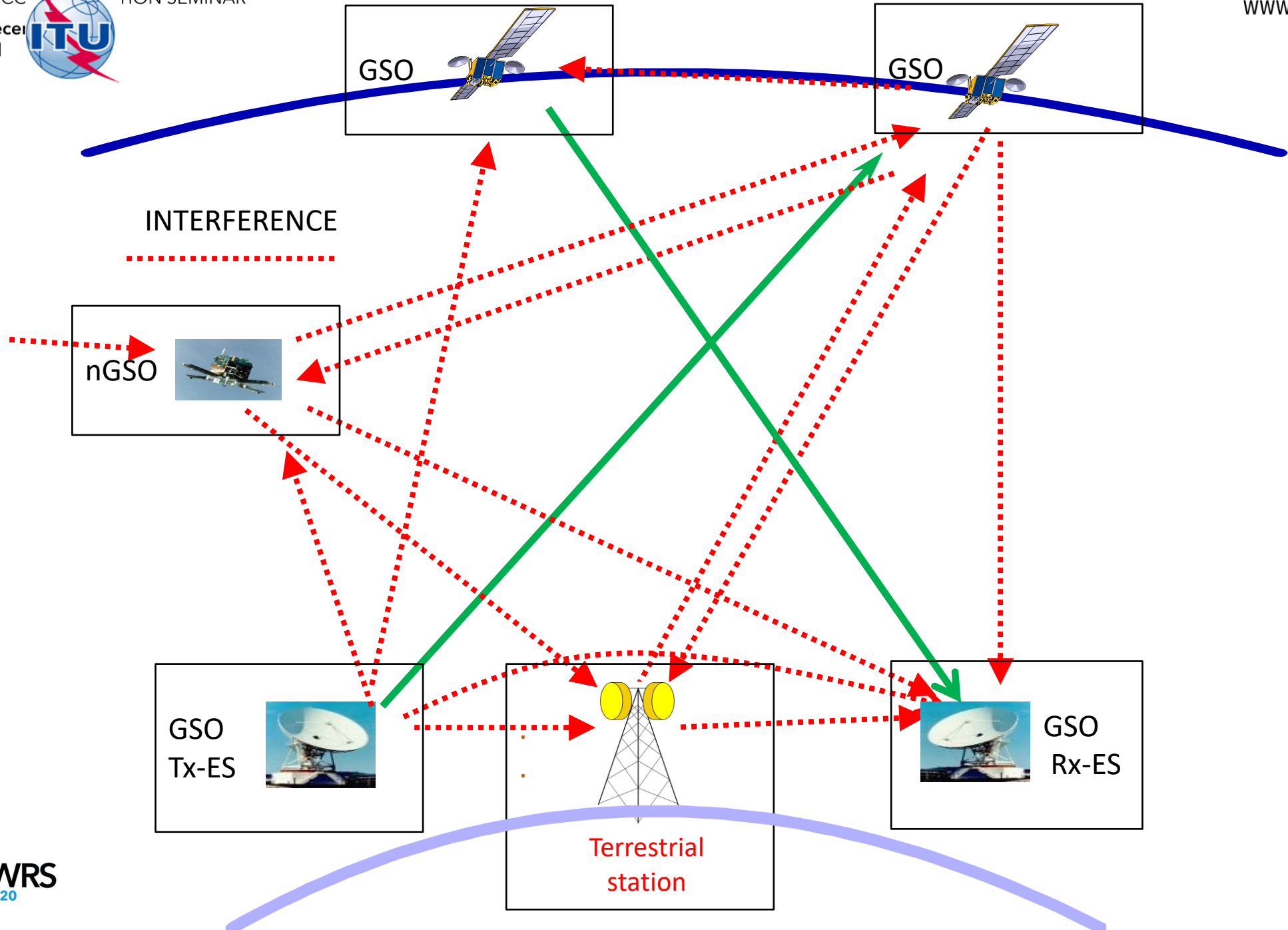
Coordination Requirement for groups with “A –”

- **Establish forms of coordination in Section II of Art 9**

9.7, 9.7A, 9.7B, 9.11, 9.11A, 9.12, 9.12A, 9.13, 9.14,

9.21/A, 9.21/B, 9.21/C, Ap30/Art.7, Ap30A/Art.7

- **Identify administrations with which coordination may need to be effected for various forms of coordination**
- **Identify list of satellite networks/systems/earth stations**



Forms of Coordination

No.9.6: Before BiU or Notify in cases below shall effect coordination (No.9.27/AP 5 -Table 5-1)

Cases	Provision
GSO to GSO	9.7, Art7 AP30/30A
Certain ES of GSO to NGSO	9.7A
NGSO to Certain ES of GSO	9.7B
BSS (GSO/NGSO) to Terrestrial Services	9.11
NGSO to NGSO	9.11A/9.12
NGSO to GSO	9.11A/9.12A
GSO to NGSO	9.11A/9.13
NGSO/GSO to Terrestrial Services	9.11A/9.14
the requirement to seek the <u>agreement</u> of other administrations is included in a footnote to the Table of Allocation	9.21

Criteria and methods for identification

Ap 5 Table 5-1: Forms of coordination, Frequency bands, thresholds/conditions:

TABLE 5-1 (Rev.WRC-19)

Technical conditions for coordination
(see Article 9)

Reference of Article 9	Case	Frequency bands (and Region) of the service for which coordination is sought	Threshold/condition	Calculation method	Remarks
No. 9.7 GSO/GSO	A station in a satellite network using the geostationary-satellite orbit (GSO), in any space radiocommunication service, in a frequency band and in a Region where this service is not subject to a Plan, in respect of any other satellite network using that orbit, in any space radiocommunication service in a frequency band and in a Region where this service is not subject to a Plan, with the exception of the coordination between earth stations operating in the opposite direction of transmission	1) 3 400-4 200 MHz 5 725-5 850 MHz (Region 1) and 5 850-6 725 MHz 7 025-7 075 MHz 2) 10.95-11.2 GHz 11.45-11.7 GHz 11.7-12.2 GHz (Region 2) 12.2-12.5 GHz (Region 3) 12.5-12.75 GHz (Regions 1 and 3) 12.7-12.75 GHz (Region 2) and 13.75-14.8 GHz	i) Bandwidth overlap, and ii) any network in the fixed-satellite service (FSS) and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of $\pm 7^\circ$ of the nominal orbital position of a proposed network in the FSS i) Bandwidth overlap, and ii) any network in the FSS or broadcasting-satellite service (BSS), not subject to a Plan, and any associated space operation functions (see No. 1.23) with a space station within an orbital arc of $\pm 6^\circ$ of the nominal orbital position of a proposed network in the FSS or BSS, not subject to a Plan iii) in the frequency band 14.5-14.8 GHz any network in the space research		With respect to the space services listed in the threshold/condition column in the frequency bands in 1), 2), 2 <i>bis</i>), 3), 3 <i>bis</i>), 4), 5), 6), 7) and 8), an administration may request, pursuant to No. 9.41, to be included in requests for coordination, indicating the networks for which the value of $\Delta T/T$ calculated by the method in § 2.2.1.2 and 3.2 of Appendix 8 exceeds 6%. When the Bureau, on request by an affected administration, studies this information pursuant to No. 9.42, the calculation method given in

Footnote refers Nos.9.11A – 9.14 or 9.21

No.9.11A (Coordination examined under No.11.32)

e.g. 5.208 The use of the band 137-138 MHz by the **mobile-satellite service** is subject to coordination under No. **9.11A**.

See also RoP Table 9.11A-1; other space services to which 9.11A applies

No.9.21 (Agreement examined under No.11.31)

e.g. 5.286 The band 449.75-450.25 MHz may be used for the space operation service (Earth-to-space) and the space research service (Earth-to-space), subject to **agreement** obtained under No. **9.21**

Other services to which No.9.11A Applies

RoP Table 9.11A-1: Other space services to which No.9.11A coordination applies are listed

TABLE 9.11A-1

Applicability of the provisions of Nos. 9.11A-9.15 to stations of space services

1	2	3		4		5	6	7
Frequency band (MHz)	Footnote No. in Article 5	Space services mentioned in a footnote referring to Nos. 9.11A, 9.12, 9.12A, 9.13 or 9.14, as appropriate		Other space services or systems to which Nos. 9.12 to 9.14 provisions(s) apply equally, as appropriate		Applicable Nos. 9.12 to 9.14 provision(s), as appropriate	Terrestrial services in respect of which No. 9.14 apply equally	Notes
137-137.025 137.175-137.825	5.208	MOBILE-SATELLITE (non-GSO)	↓	SPACE OPERATION METEOROLOGICAL-SATELLITE SPACE RESEARCH	↓	9.12, 9.12A, 9.13, 9.14	FIXED (5.204, 5.205) LAND MOBILE (5.204, 5.205) MARITIME MOBILE (5.204, 5.205) AERONAUTICAL MOBILE (OR) (5.204, 5.206) BROADCASTING (5.207)	1
137.025-137.175 137.825-138	5.208	Mobile-satellite (non-GSO)	↓	---	↓	9.12, 9.14	Fixed (in countries other than those listed in Nos. 5.204 and 5.205) Land mobile (in countries other than those listed in Nos. 5.204 and 5.205) Maritime mobile (in countries other than those listed in Nos. 5.204 and 5.205) Aeronautical mobile (OR) (in countries other than those listed in Nos. 5.204 and 5.206)	

Publication : CR/C Special Section

The BR publishes the information (network data) in a Special Section of BR IFIC on DVD-ROM as well as RADIOCOMMUNICATION BUREAU COMMENTS

- Relating to the Findings with respect to No.11.31 (No.9.35 examination)
- Relating to the coordination examination with respect to No.9.36
 - Administrations identified under all Forms of Coordination
 - List of satellite networks/earth stations for some Forms of Coordination (9.36.1 and 9.36.2)
 - Potentially Affected Administrations and list of satellite networks/systems for some Forms of Coordination for information only (9.36.1)



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMUNICACIONES

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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		ISPASAT-1-152.5W		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º		CR/C/530	
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA		2931 / 13.10.2020	
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	E	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	152.5 W	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN		120520071	
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL						30.04.2020	

Cette demande de coordination, reçue par le Bureau des radiocommunications en vertu du numéro 9.30 du Règlement des radiocommunications, a été examinée au titre des numéros 9.35 et 9.36 et est publiée conformément au numéro 9.38. Elle est subordonnée au type de coordination indiqué dans la colonne de gauche par un X dans la case pertinente.

This request for coordination, received by the Radiocommunication Bureau pursuant to No. 9.30 of the Radio Regulations, has been examined under Nos. 9.35 and 9.36 and is published in accordance with No. 9.38. It is subject to the form of coordination indicated in the left-hand column by an X in the relevant box

Esta solicitud de coordinación, recibida por la Oficina de Radiocomunicaciones de conformidad con el punto N° 9.30 del Reglamento de Radiocomunicaciones, se ha examinado de conformidad con los N°s 9.35 y 9.36 y se publica de conformidad con el N° 9.38. Está sujeta al formulario de coordinación indicado en la columna de la izquierda con una X en la casilla correspondiente.

Type de coordination mentionné dans le Tableau I / Form of coordination referred to in Table I / Forma de coordinación mencionada en el cuadro I			
<input checked="" type="checkbox"/>	9.7	Conformément aux numéros 9.50 à 9.52 du Règlement des radiocommunications, les Administrations identifiées dans le Tableau I ci-après sont priées de communiquer leur décision à l'Administration responsable et au Bureau avant la date limite indiquée ci-dessous.	In accordance with Nos. 9.50-9.52 of the Radio Regulations, the Administrations identified in Table I below are requested to communicate their decision to the Responsible administration and the Bureau by the deadline indicated below.
<input type="checkbox"/>	9.7A		
<input type="checkbox"/>	9.7B		
<input checked="" type="checkbox"/>	AP30#7.1		
<input checked="" type="checkbox"/>	AP30A#7.1		
<input type="checkbox"/>	RS539		
<input type="checkbox"/>	RS33#3		
Type de coordination mentionné dans le Tableau II / Form of coordination referred to in Table II / Formulario de coordinación remitido al cuadro II			
<input type="checkbox"/>	9.11	Les Administrations, énumérées ou non-énumérées dans le Tableau II ci-après, qui n'acceptent pas la demande de coordination au titre des numéros 9.11 à 9.14, 9.21 et RS33#2.1, sont priées de communiquer leurs observations à l'Administration responsable et au Bureau avant la date limite indiquée ci-dessous. Toute Administration qui ne réagira pas au titre du numéro 9.52 avant cette date limite sera considérée comme n'étant pas défavorablement influencée et, dans les cas couverts par les numéros 9.11 à 9.14 et RS33#2.1, les dispositions des numéros 9.48 et 9.49 s'appliqueront.	Administrations listed or not listed in Table II below, which do not agree to the request for coordination under Nos. 9.11 to 9.14, 9.21 and RS33#2.1 are requested to communicate their comments to the responsible administration and the Bureau by the deadline indicated below. Any administration not responding under No. 9.52 within this deadline shall be regarded as unaffected and, in the cases of Nos. 9.11 to 9.14 and RS33#2.1, the provisions of Nos. 9.48 and 9.49 shall apply.
<input checked="" type="checkbox"/>	9.11A		
<input type="checkbox"/>	9.12		
<input type="checkbox"/>	9.12A		
<input checked="" type="checkbox"/>	9.13		
<input checked="" type="checkbox"/>	9.14		
<input checked="" type="checkbox"/>	9.21/A		
<input checked="" type="checkbox"/>	9.21/B		
<input checked="" type="checkbox"/>	9.21/C		
<input type="checkbox"/>	RS33#2.1		

DATE LIMITE POUR LA DÉCISION / EXPIRY DATE FOR DECISION / FECHA LÍMITE PARA LA DECISIÓN

13.02.2021

Page 3

		Tableau I / Table I / Cuadro I / 表一 / Таблица I / الجدول I		
Disposition / Provision / Disposición / 条款 / Положение / الحكم		Résumé des conditions régissant la coordination	Summary of coordination requirements	Resumen de los requisitos de coordinación
		协调要求概述	Сводные потребности в координации	موجز بمتطلبات التنسيق
X	9.7	ARS/ARB, AUS, B, BUL, CAN, CHN, CYP, CZE, D, EGY, F/EUT, F, G, HOL, ISR, J, KOR, LUX, MCO, MLA, MLD, NOR, NPL, OMA, PNG, QAT, RUS, TUR, UAE, USA		
	9.7A			
	9.7B			
X	AP30#7.1	F, HOL, USA		
X	AP30A#7.1	ALG, ARG, AUS, B, BGD, BLZ, BOL, BUL, CAN, CHL, CHN, CLM, CTR, D, EGY, EQA, ETH, F/EUT, F, FJI, FSM, G, GTM, HOL, IND, INS, ISR, J, KIR, MCO, MEX, MLA, NCG, NZL, PNG, PNR, PRG, PRU, QAT, RUS/IK, RUS, SMO, TON, TUR, TUV, UAE, USA, VEN		
	RS539			
	RS33#3			

Page 4

		Tableau II / Table II / Cuadro II / 表二 / Таблица II / الجدول II		
Disposition / Provision / Disposición / 条款 / Положение / الحكم		Administrations susceptibles d'être défavorablement influencées (à titre d'information uniquement, voir numéro 9.36.1)	Potentially affected administrations (for information only, see No. 9.36.1)	Administraciones posiblemente afectadas (sólo para información, véase el N° 9.36.1)
		可能受影响的主管部门(仅供参考, 见第 9.36.1 款)	Потенциально затрагиваемые администрации (исключительно для информации, см. п. 9.36.1)	إدارات يُحتمل أن تتأثر تأثيراً غير مؤات (انظر الرقم 1.36.9، على سبيل الاطلاع فقط)
	9.11			
X	9.11A			
	9.12			
	9.12A			
X	9.13	CAN, CHN, CYP, D, F/GLS, F, G, HOL, I/GLS, ISR, J, LIE, LUX, NOR, NZL, RUS/IK, RUS, USA, VTN		
X	9.14			
X	9.21/A ¹	AUS, CHN, F, J, TUR		
X	9.21/B ¹	CHN, F/GLS, F, G, I/GLS, J		
X	9.21/C ¹			
	RS33#2.1			

OBSERVATIONS DU BUREAU DES RADIOCOMMUNICATIONS

Relatives à la Conclusion conformément au N° 11.31

Assignations de fréquence dans la bande 18 100 – 18 300 MHz

DEFAVORABLE

Attribution au SFS limitée aux liaisons de connexion des systèmes à satellites géostationnaires du service de radiodiffusion par satellite (voir le numéro 5.520)

Assignations de fréquence 11 075, 11 452.5, 11 575, 12 202.5, 12 475, 12 502.5, 12 625, 12 747.5, 18 950, 40 000 MHz

FAVORABLE

Note: La conclusion est basée sur la Règle de procédure et son annexe relative au numéro 21.16 sur les faisceaux orientables TAA, TUA1, TUA2, TUA3, TUB1, TUB2, TUB3 et TV. Il existe au moins une position des faisceaux orientables pour laquelle les limites de puissance surfacique applicables sont respectées sans qu'il soit nécessaire de réduire la densité de puissance notifiée.

RADIOCOMMUNICATION BUREAU COMMENTS

Relating to the Findings with respect to No. 11.31

Frequency assignments in the 18 100 – 18 300 MHz band

UNFAVOURABLE

Allocation to FSS limited to feeder-links of geostationary-satellite systems in the Broadcasting Satellite Service (No. 5.520 refers)

Frequency assignments 11 075, 11 452.5, 11 575, 12 202.5, 12 475, 12 502.5, 12 625, 12 747.5, 18 950, 40 000 MHz

FAVOURABLE

Note: The finding is based on the Rule of Procedure and its annex concerning No. 21.16 in steerable beams TAA, TUA1, TUA2, TUA3, TUB1, TUB2, TUB3 and TV. There is at least one position of the steerable beams where the applicable PFD limits are met without any reduction of the notified power density.

OBSERVACIONES DE LA OFICINA DE RADIOCOMUNICACIONES

Relativas a la Conclusión según N.º 11.31

Asignaciones de frecuencia en la banda 18 100 – 18 300 MHz

DESFAVORABLE

Atribución al SFS limitada a enlaces de conexión de sistemas de satélite en órbita geostacionaria en el servicio de Radiodifusión por Satélite (véase el número 5.520)

Asignaciones de frecuencias 11 075, 11 452.5, 11 575, 12 202.5, 12 475, 12 502.5, 12 625, 12 747.5, 18 950, 40 000 MHz

FAVORABLE

Nota: La conclusión se basa en la Regla de Procedimiento y en su anexo relativo al número 21.16 para los haces orientables TAA, TUA1, TUA2, TUA3, TUB1, TUB2, TUB3 y TV. Hay al menos una posición de los haces orientables en la que se cumplen los límites de la DFP aplicable sin reducción alguna de la densidad de potencia notificada.

Relatives à l'examen conformément au N° 9.36

Voir les pages 3-4 pour le résumé. Pour plus de détails, voir les pages qui suivent.

关于根据第 9.36 款的审查

见第 3-4 页的概述。详细情况见以下各页。

I. Nécessité d'une coordination au niveau du groupe

一、需要在组的层次进行的协调

Relating to the examination with respect to No. 9.36

See pages 3-4 for the summary. Details are provided on pages that follow.

Относительно экспертизы по п. 9.36

Сводные данные см. на стр. 3-4. Подробная информация приводится на следующих страницах.

I. Coordination requirements at group level

I. Потребности в координации на уровне группы

Relativas al examen según N.º 9.36

Véanse las páginas 3-4 para el resumen. Se indican los detalles en las páginas siguientes.

المتعلقة بالفحص وفقاً للرقم 9.36

انظر الصفحتين 3-4 للاطلاع على الملخص. وللمزيد من التفاصيل انظر الصفحات التالية.

I. Requisitos de coordinación a nivel de grupo

I. متطلبات التنسيق على مستوى المجموعة

Administrations identifiées au titre du N° 9.7 par : 根据第9.7款识别的主管部门:				Administrations identified under No. 9.7 by : Администрации, идентифицированные согласно п. 9.7:			Administraciones identificadas según N.º 9.7 por : الإدارات المحددة وفقاً للرقم 7.9 بموجب:				
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Delta T/T Delta T/T	Delta T/T Дельта T/T	Delta T/T T/T دلنا	Arc de coordination 协调弧	Coordination Arc Дуга координации	Arco de coordinación قوس التنسيق		
CMD	R	118664558	6				B CHN HOL NOR	E PNG	F USA	G	
		118664559	6				B CHN HOL NOR	E PNG	F USA	G	
		118664560	6				B CHN HOL NOR	E PNG	F USA	G	
		118664561	6				B CHN HOL NOR	E PNG	F USA	G	
		118664562	6				B CHN HOL NOR	E PNG	F USA	G	
		118664563	6				B CHN HOL NOR	E PNG	F USA	G	
		118664564	14				B CHN PNG USA	E USA	F USA	HOL	
		118664565	14				B CHN PNG USA	E USA	F USA	HOL	
		118664566	14				B CHN PNG USA	E USA	F USA	HOL	

II. Liste des réseaux à satellite (voir N° 9.36.2)

II. List of satellite networks (see No. 9.36.2)

II. Lista de redes de satélite (véase el N.º 9.36.2)

二、卫星网络清单(见第9.36.2款)

II. Список спутниковых сетей (см. п. 9.36.2)

II. قائمة بالشبكات الساتلية (انظر الرقم 2.36.9)

Liste des réseaux à satellite pour lesquels Delta T/T > 6% est identifié dans le cas I uniquement (réseau utile et réseau brouilleur utilisant en partage la même bande de fréquences dans le même sens de transmission) ou qui sont situés à l'intérieur de l'arc de coordination (au titre du N° 9.7)

List of satellite networks for which Delta T/T > 6% identified under Case I only (Wanted and interfering networks sharing the same frequency band in the same direction of transmission) or which are within the coordination arc (under No. 9.7)

Lista de redes de satélites para los que Delta T/T > 6% identificadas con arreglo al Caso I solamente (Redes deseada e interferente que comparten la misma banda de frecuencias en la misma dirección de transmisión) o que se encuentran dentro del arco de coordinación (según N.º 9.7)

仅在情形一（使用网络和干扰网络在同一传输方向上共用同一个频段）中由于Delta T/T > 6%，或落入协调弧之内 而得到确认的卫星网络清单（依据 9.7）

Список спутниковых сетей, для которых критерий Дельта T/T > 6% определен в рамках только случая I (полезная и мешающая сети, совместно использующие одну и ту же полосу частот для передачи в одном и том же направлении) или которые располагаются в пределах координационной дуги (согласно № 9.7)

قائمة الشبكات الساتلية التي تكون فيها النسبة دلتا T/T > 6% محددة في الحالة I فقط (الشبكات المطلوبة والمسببة للتداخل تتقاسمان نطاق التردد نفسه في اتجاه الإرسال نفسه) أو التي تدخل ضمن قوس التنسيق (بموجب الرقم

(7.9)

A1f1 Notif. adm.	A1f3 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 A/T	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference	BR28 Detected by coord. arc
ALG		ALCOMSAT-24.8W	24.8 W	C	A	113520121	C		
		ALCOMSAT-24.8W	24.8 W	N	T	118500098	C		
		ALCOMSAT-27.6W	27.6 W	C	A	114520218	C	R	
ARG		ARSAT-D	81 W	C	A	113520066	C	R	
		ARSAT-F	91.5 W	C	A	115520101	C	R	
		ARSAT-G	72 W	C	A	115520102	C	R	

Liste des réseaux à satellite pour lesquels Delta T/T > 6% est identifié dans le cas II uniquement (réseau utile et réseau brouilleur utilisant en partage la même bande de fréquences dans des sens de transmission opposés (utilisation bidirectionnelle)) (au titre du N° 9.7)

List of satellite networks for which Delta T/T > 6% identified under Case II only (Wanted and interfering networks sharing the same frequency band in opposite directions of transmission (bidirectional use)) (under No. 9.7)

Lista de redes de satélites para los que Delta T/T > 6% identificadas con arreglo al Caso II solamente (Redes deseada e interferente que comparten la misma banda de frecuencias en direcciones opuestas de transmisión (uso bidireccional)) (según N.º 9.7)

仅在情形二（使用网络和干扰网络在相反传输方向上共用相同频段（双向使用））中由于Delta T/T > 6%而得到确认的卫星网络清单（依据 9.7）

Список спутниковых сетей, для которых критерий Дельта T/T > 6% определен в рамках только случая II (полезная и мешающая сети, совместно использующие одну и ту же полосу частот при передаче в противоположных направлениях (реверсивное использование частот)) (согласно № 9.7)

قائمة الشبكات الساتلية التي تكون فيها النسبة دلتا T/T > 6% محددة في الحالة II فقط (الشبكات المطلوبة والمسببة للتداخل تتقاسمان نطاق التردد نفسه في اتجاهي الإرسال المتعاكسين (استخدام ثنائي الاتجاه)) (بموجب الرقم

(7.9)

A1f1	A1f3	A1a	A4a1	BR3b	BR25	BR6a	BR26	BR27
------	------	-----	------	------	------	------	------	------

III. Administrations susceptibles d'être défavorablement influencées au niveau du groupe (à titre d'information uniquement, voir N° 9.36.1)

三、在组的层面潜在的受干扰的主管部门(仅供参考, 见第9.36.1款)

III. Potentially affected administrations at group level (for information only, see No. 9.36.1)

III. Потенциально затрагиваемые администрации на уровне группы (исключительно для информации, см. п. 9.36.1)

III. Administraciones posiblemente afectadas a nivel de grupo (sólo para información, véase el N.º 9.36.1)

III. الإدارات التي يحتمل أن تتأثر متأثراً غير مؤات على مستوى المجموعة (انظر الرقم 1.36.9 للعلم فقط)

B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Administrations susceptibles d'être défavorablement influencées au titre du N° 9.11 潜在的受干扰的主管部门 9.11	Potentially affected administrations under No. 9.11 Администрации, потенциально затрагиваемые согласно № 9.11	Administraciones posiblemente afectadas según N.º 9.11 الإدارات التي يحتمل أن تتأثر بموجب الرقم 11.9
E2DR	E	118664912	75	E F SVN		
		118664913	75	E F SVN		
		118664914	75	E F SVN		
KABSS	E	118665463	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665464	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665465	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665466	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665467	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665468	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665469	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665470	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665471	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665472	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665473	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665474	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665475	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665476	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665477	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665478	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
		118665479	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA		
118665480	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA				
118665481	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA				
118665482	17	CAN DNK/GRL F/OCE G/FLK G/GCC G/PTC MEX USA/ALS USA				
TA2R	E	118664359	17	CAN DNK/GRL G/FLK MEX USA/ALS USA		

B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Administrations susceptibles d'être défavorablement influencées au titre du N° 9.13 潜在的受干扰的主管部门 9.13	Potentially affected administrations under No. 9.13 Администрации, потенциально затрагиваемые согласно № 9.13	Administraciones posiblemente afectadas según N.º 9.13 الإدارات التي يحتمل أن تتأثر بموجب الرقم 13.9
KAU1	R	118664664	28	CAN CHN D F G USA	HOL ISR LIE LUX NOR NZL RUS/IK RUS	

Comment on CR/C

- An administration having received a request for coordination (through publication of CR/C) shall examine the matter with respect to interference which may be caused to, or caused by, its own assignments
- inform the requesting administration and the BR within four months from the date of publication of the BR IFIC of either:
 - its agreement to the proposed use, or
 - its disagreement, giving reasons for the disagreement

Final Coordination Requirement

Special Section	Provision	Methods	Final/Subject
List of Adms / satellite networks in CR/C	9.7, Art7 of AP30/30A	$\Delta T/T$, pfd mask	Final
List of Adms / satellite networks /earth stations in CR/C	9.7 (9.7A, 9.7B)	Coordination Arc (Band Overlap, EPFD)	Subject to request for inclusion or exclusion under Nos.9.41/9.42
List of Adms / satellite networks in 21.4-22GHz band in CR/C	9.7	Coordination Arc, pfd mask	Final, 9.41 does not apply
List of Adms in CR/C	9.11 to 9.14, 9.21	Band Overlap, eirp, pfd mask	Info only subject to comments under No.9.52

CR/D Publication (No.9.53A)

- An Adm informs its disagreement under No.9.52 for No.9.11, 9.11A (9.12, 9.12A, 9.13, 9.14) and/or 9.21 using SpaceCom within 4 month
- No disagreement within 4 month means agreement to the proposed assignments in CR/C (No.9.52C)
- CR/D contains list of administrations having submitted their disagreement (No.9.53A)
- Final List of coordination requirements (Adms) published in CR/D



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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	EESAT-1		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	CR/D/422	
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA	---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2931 / 13.10.2020	
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	HN	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	NGSO	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	19520266

X	9.11	1. La présente Section spéciale est publiée conformément au numéro 9.53A du Règlement des radiocommunications, et concerne la demande de coordination publiée dans la section spéciale CR/C indiquée au bas de cette page.	1. This Special Section is published in accordance with No. 9.53A of the Radio Regulations, in respect of the request for coordination published in the CR/C Special Section referenced at the bottom of this page.	1. Esta Sección Especial se publica de conformidad con lo dispuesto en el número 9.53A del Reglamento de Radiocomunicaciones, en lo que respecta a la solicitud de coordinación publicada en la Sección Especial CR/C cuya referencia se indica en el extremo de esta página.
	X	9.12	2.* Les administrations qui ont soumis des observations au titre du numéro 9.52 dans le délai de quatre mois suivant la date de publication de la Section spéciale CR/C précitée, concernant le type de coordination indiqué par une croix (X) dans la case appropriée de la colonne de gauche, sont indiquées dans les Tableaux I et II ci-dessous.	2.* Administrations that have submitted comments under No. 9.52 within four months of the date of publication of the mentioned CR/C Special Section, with respect to the form of coordination indicated in the left-hand column by an X in the relevant box, are listed in Tables I and II below.
	X	9.12A		
		9.13		
	X	9.14		
	9.21/A	3.* Conformément au numéro 9.52C, toute administration autre que celles qui ont formulé des observations dans le délai réglementaire, sera réputée ne pas être affectée, et dans le cas de demande de coordination au titre des numéros 9.11 à 9.14 les dispositions des numéros 9.48 et 9.49 s'appliqueront.	3.* Pursuant to No. 9.52C, any administration other than those having submitted comments within the regulatory time-limit shall be regarded as unaffected, and in the case of coordination requests under Nos. 9.11 to 9.14 the provisions of Nos. 9.48 and 9.49 shall apply.	3.* Según lo dispuesto en el 9.52C, toda administración que no haya presentado comentarios en el plazo de tiempo reglamentario se considerará como no afectada, y a las peticiones de coordinación previstas en los números 9.11 a 9.14 se le aplicarán las disposiciones de los números 9.48 y 9.49.
	9.21/B	2.* et 3.* ne sont pas applicables, conformément au numéro 5.474A, aux bandes de fréquences 9 200 - 9 300 MHz et 9 900 - 10 400 MHz	2.* and 3.* are not applicable, in accordance with No. 5.474A, to the frequency bands 9 200 - 9 300 MHz and 9 900 - 10 400 MHz	De conformidad con lo dispuesto en el número 5.474A, 2.* y 3.* no son de aplicación a las bandas de frecuencias 9 200 - 9 300 MHz y 9 900 - 10 400 MHz
	9.21/C			
	RS33#2.1			

RÉFÉRENCE DE LA SECTION SPÉCIALE (BR IFIC / DATE)
SPECIAL SECTION REFERENCE (BR IFIC / DATE)
REFERENCIA DE LA SECCIÓN ESPECIAL (BR IFIC / FECHA) **CR/C/5162 (BR IFIC 2919 / 28.04.2020)**

Tableau I / Table I / Cuadro I / 表一 / Таблица I / الجدول I

Disposition / Provision / Disposición / 條款 / Положение / 条款	Récapitulatif des coordinations à effectuer	Summary of coordination requirements	Resumen de los requisitos de coordinación
	协调要求概述	Сводные данные о будущей координации	
9.11			
X	9.11A		
X	9.12	AUS, CAN, F, G, HOL, PNG, RUS/IK, RUS, SLM, UAE, USA	
X	9.12A	D/EUM, F, G, HOL, IND, INS, KOR, LUX, MCO, MEX, MLA, PNG, RUS, S, THA, UAE, USA	
	9.13		
X	9.14	ALG, ARM, ARS, AUS/CHR, AUS/HMD, AUS/ICO, AUS/INFK, AUS, AZE, B, BOL, BUL, CAN, CTI, CYP, F/CPT, F/CRO, F/GLP, F/GUF, F/KER, F/MAF, F/MRT, F/MYT, F/NCL, F/OCE, F/REU, F/SPM, F/WAL, F/G/FLK, G/GCA, G/GCC, G/GIB, G/MSR, G/PTC, G/SHN, G/TCA, G/TRC, G/VRG, G, GAB, GRC, HOL, I, MCO, MEX, MLA, MLT, MRC, NZL, OMA, PAK, PNG, POR/AZR, POR/MDR, POR, PRG, QAT, ROU, RF TUN, TUR, UAE, UKR, USA/ALS, USA/GUM, USA/HWA, USA/HWL, USA/JAR, USA/JON, USA/MDW, L USA/VR, USA/WAK, USA, VTN	
	9.21A		

Tableau II / Table II / Cuadro II / 表二 / Таблица II / II.الجدول

Nécessité d'une coordination au niveau du groupe / Coordination requirements at group level / Requisitos de coordinación en el nivel del grupo / 在组的层次进行的协调 / Требования на координацию на уровне группы / متطلبات التنسيق على مستوى المجموعة

B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	BR47 Frequency band (MHz)	No.9.12							
CUP	R	119788256	5185.000 - 5215.000	AUS	CAN	F	G	PNG	RUS/IK	RUS	SLM
		119788259	5185.000 - 5215.000	AUS	CAN	F	G	PNG	RUS/IK	RUS	SLM
LHUP	R	119788257	1668.000 - 1675.000	F	G	HOL	RUS	SLM	UAE		
		119788261	1668.000 - 1675.000	F	G	HOL	RUS	SLM	UAE		



CR/E Publication (No.9.42)

- An Adm requests for inclusion or exclusion of adm/network as coordination requirement under No.9.41 for 9.7, 9.7A and/or 9.7B using SpaceCom within 4 month
- No request within 4 month means agreement to the requirements published in CR/C (No.9.43)
- CR/E contains list of administrations/ satellite networks, requested and confirmed by the Bureau for inclusion (No.9.42)
- Final List of coordination requirements (Adms and networks) published in CR/E + CR/C
- During coordination additional networks can be included with mutual agreement (No.9.42.1)



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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE	ADAR-67.5E-2		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	CR/E/210
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA	---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2931 / 13.10.2020
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	AE	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	67.5 E	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN
				19520250

X	9.41/9.7	1. La présente Section spéciale est publiée conformément au numéro 9.42 du Règlement des radiocommunications, en ce qui concerne la demande de coordination publiée dans la Section spéciale CR/C citée en référence au bas de cette page.	1. This Special Section is published in accordance with No. 9.42 of the Radio Regulations, in respect of the request for coordination published in the CR/C Special Section referenced at the bottom of this page.	1. Esta Sección Especial se publica de conformidad con el número 9.42 del Reglamento de Radiocomunicaciones al respecto de la solicitud de coordinación publicada en la Sección Especial CR/C indicada al final de esta página.
	9.41/9.7A	2. Les administrations qui ont soumis des observations au titre du numéro 9.41 dans les quatre mois qui ont suivi la publication des Sections spéciales susmentionnées, en ce qui concerne la forme de la coordination indiquée dans la colonne de gauche par un X dans la case appropriée, sont énumérées dans le Tableau 1 ci après.	2. Administrations that have submitted comments under No.9.41 within four months of the date of publication of the mentioned CR/C Special Sections, with respect to the form of coordination indicated in the left-hand column by an X in the relevant box, are listed in Table-1, below.	2. Las Administraciones que han presentado comentarios con arreglo al número 9.41 en el plazo de cuatro meses a partir de la fecha de publicación de la mencionada Sección Especial CR/C, con respecto al formulario de coordinación indicado en la columna izquierda introduciendo una X en la casilla correspondiente, se indican en el Cuadro-1, que aparece más adelante.
	9.41/9.7B			

RÉFÉRENCE DE LA SECTION SPÉCIALE (BR IFIC / DATE) SPECIAL SECTION REFERENCE (BR IFIC / DATE) REFERENCIA DE LA SECCIÓN ESPECIAL (BR IFIC / FECHA)	CR/C/5125 (BR IFIC 2917 / 31.03.2020)
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Tableau I / Table I / Cuadro I / 表一 / Таблица I / الجدول I

Disposition / Provision / Disposición / 条款 / Положение / الحكم	Administrations incluses dans le processus de coordination.	Administration included in the coordination process	Administraciones incluidas en el procedimiento de coordinación
X 9.41 / 9.7	BUL, EGY, J, KOR, OMA, PAK, RUS	Администрации, включенные в процесс координации	
9.41 / 9.7A			
9.41 / 9.7B			

I. Nécessité d'une coordination au niveau du groupe
一、需要在组的层次进行的协调

I. Coordination requirements at group level

I. Requisitos de coordinación a nivel de grupo

I. Потребности в координации на уровне группы

مطلوبات التنسيق على مستوى المجموعة

II. Liste des réseaux à satellite
二、卫星网络清单

II. List of satellite networks
II. Список спутниковых сетей

II. Lista de redes de satélites

Liste des réseaux à satellite pour lesquels Delta T/T est supérieur à 6% mais qui ne sont PAS dans l'arc de coordination (au List of satellite networks for which Delta T/T > 6% but are NOT within the coordination arc (under No. 9.7)
Lista de redes de satélites para las cuales ΔT/T > 6% pero NO se encuentran dentro del arco de coordinación (según De1ta T/T > 6%但并不属于协调弧范围的卫星网络清单 (依据 9.7)
Перечень спутниковых сетей, для которых Delta T/T > 6%, однако НЕ находится в пределах координационной дуги (согласно № 9.7)
قائمة الشبكات الساتلية التي تكون فيها النسبة < ΔT/T % ولكنها ليست ضمن قوس التنسيق (موجب الرقم 7.9)

Administrations identifiées au titre du N° 9.41/9.7 par : 根据第9.41/9.7款识别的主管部门:				Administrations identified under No. 9.41/9.7 by : Администрации, идентифицированные согласно п. 9.41/9.7:				Administraciones identificadas según N.º 9.41/9.7 por : الإدارات الخ ددة وفقاً للرقم 7.9/41.9 بموجب:			
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Delta T/T Delta T/T		Delta T/T Дельта T/T		Delta T/T T/T دلتا			
CMD	R	119776209	6	KOR	PAK	RUS					
		119776210	6	KOR	PAK	RUS					
		119776211	6	KOR	PAK	RUS					
		119776212	6	KOR	PAK	RUS					
		119776213	6	KOR	PAK	RUS					
		119776214	6	KOR	PAK	RUS					
		119776215	14	BUL	EGY	KOR	OMA	PAK	RUS		

A1f1 Notif. adm.	A1f3 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 A/T	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference
BUL		BUL-QV-1.9E	1.9 E	C	A	117520484		R



Coordination Approach

Earth Station Coordination Procedure

Coordination

Inform concerned administrations of detail descriptions of planned earth stations (no publication, no identification of affected administrations by the Bureau)

Earth stations should be associated with a satellite network for which API and/or CR have been published

Notification

Recording in Master Register (international recognition)

(Bringing into use by the Planned date)

Procedure for Earth Station

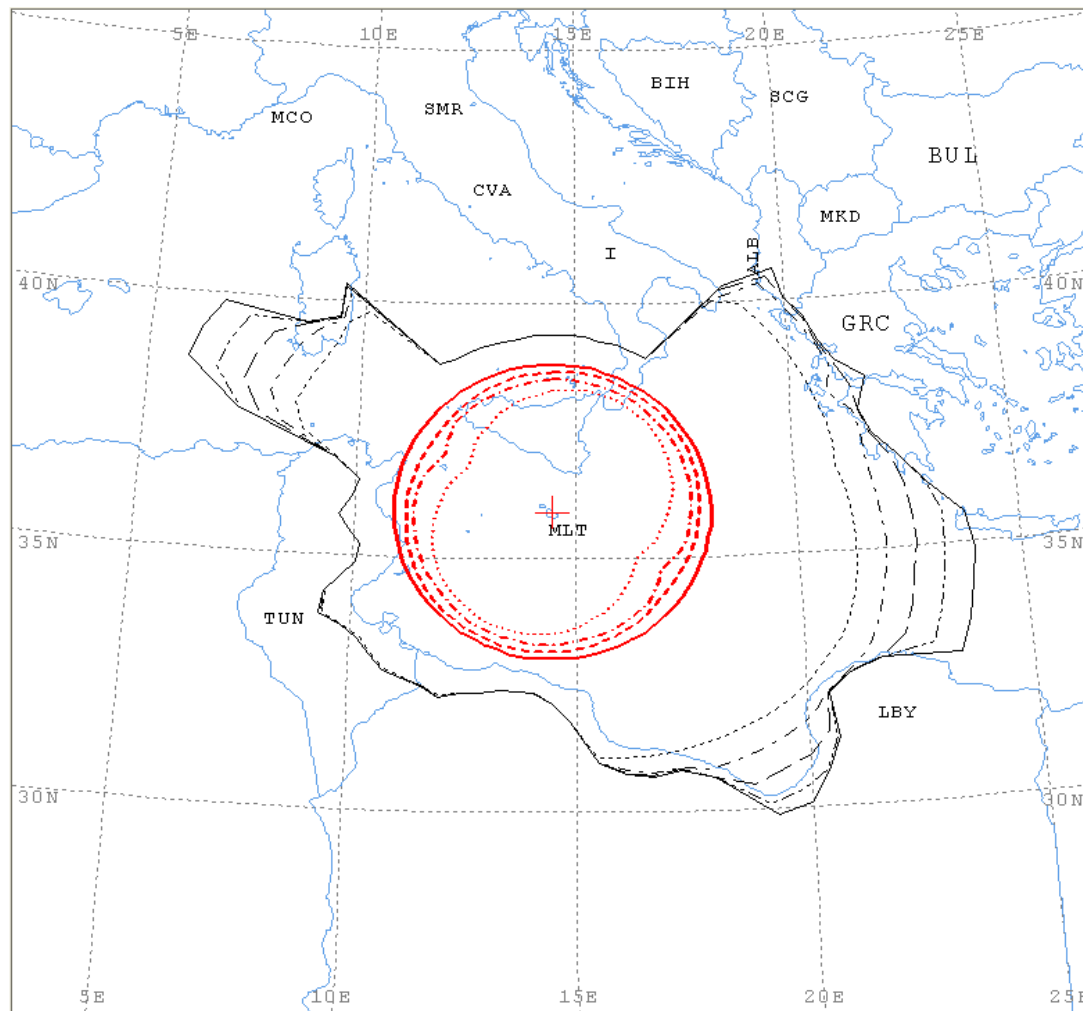
- **Section II, Article 9 “Procedure for effecting coordination”**
- **Responsible administration of planned earth station informs concerned administrations (no publication by the Bureau)**
- **No examination and No identification of coordination requirement by the Bureau**
- **Examination w.r.t. conformity with RR and coordination requirements at Notification stage**

Forms of Coordination

No.9.6: Before BiU or Notify in cases below shall effect coordination (No.9.27/AP 5 -Table 5-1)

Cases	Provision
earth station (NGSO) under 9.11A to terrestrial stations	9.15
earth station (GSO/NGSO) to terrestrial stations	9.17
earth station to other earth stations operating in the opposite direction of transmission	9.17A
the requirement to seek the <u>agreement</u> of other administrations is included in a footnote to the Table of Allocation	9.21

Identification of coordination requirement for earth stations



ex: **Rcv GSO ES (FSS) w.r.t. Terrestrial – Coordination** under No.9.17

AP7 (GIBC) program identifies Affected countries: Countries included in Coordination Distance/Area

Article 11 Notification

- **Assignments (final characteristics) have to be notified under Article 11 to be recorded in the MIFR for international recognition within the regulatory period**
- **In order to be recorded in the MIFR**

Assignments shall

- **Be in conformity with Allocation Table and Other provisions listed in RoP under No.11.31 (No. 11.31 examination)**
- **Complete required coordination requirements (No. 11.32 examination)**

Or

- **Be favourable in examination on probability of harmful interference (C/I) (No.11.32A examination)**

Article 11 Notification

- **Assignments can also be recorded in the MIFR if requested:**
 - **Under Nos.4.4/8.4**
 - **Unfavourable finding under No.11.31**
 - **Information only – no international recognition**
 - **Under No.11.41**
 - **Unfavourable finding under Nos.11.32 and 11.32A**
 - **Requirement of No.11.41.2 (indication of coordination effort) and No.11.42 (elimination of harmful interference)**

- **Bringing assignments into use has to be confirmed in the notification process (11.47 and 11.44B-E) within the regulatory period**

Publication in Parts of the BR IFIC

- **Part I-S - Acknowledgement of receipt, particulars of complete frequency assignment notices**
- **Part II-S - Findings (mostly favourable) resulting in the recording of the frequency assignment in the MIFR;**
- **Part III-S - Unfavourable Findings resulting in the return of the notice to the notifying administration.**



Due Diligence
Information



Suspension



Maintenance of
MIFR etc.



Coordination /
API (Advance
Publication)



Notification
(recording in Master
Register)

Due Diligence – Res 49

- **Resolution 49: To address the problem of orbit and spectrum reservation without actual use (Res 18 of Kyoto PP)**
- **Applies to satellite network in the FSS, MSS, BSS that is subject to coordination Procedure**
- **Information on Identity of the satellite network, Spacecraft and Launch services provider is required**
- **Not submitted within 30 days from the regulatory deadline results in suppression of submissions**

Suspension

- **Frequency Assignments can be suspended for a period of 3 years under No.11.49**
- **BR should be informed of suspension of use, no later than 6 months from the date of suspension. If not, 3 year suspension period will be reduced by amount of delay**
- **Frequency Assignments are considered brought back into use only if conditions of No.11.49.1-4 are met**

CT ITU Reminder

Verification of requirements under Nos.11.44/11.44.1 and Res49 in application of No.11.48

- **Reminder sent 6 months before expiry of the 7-year regulatory “time limit”**
 - CT ITU is posted on the ITU Web site
- **If the BIU, due diligence information or notification is not received in time, relevant special sections and assignments recorded in the MIFR shall be cancelled after individual reminders**

Art 13 – Maintenance of MIFR

- **BR is responsible for maintenance of the MIFR**
- **Under No.13.6 BR consult administrations and request more information about DBIU and/or continuous use based on reliable information available**
- **Cancel of the entry shall be subject to a decision of the RRB**

WRC-19 results for non-Planned space services

New frequency bands for space services/application

- Extension offered for ESIM in 17.7-19.7GHz and 27.5-29.5GHz
- 51.4-52.4GHz uplink for GSO FSS using gateway earth station with minimum antenna diameter 2.4m

WRC-19 results for non-Planned space services

Change of conditions for use of frequency

- Special procedure and conditions for SDM (short-duration mission)
- New limit for Q/V band non-GSO with 9.12 coordination
- New power limits for MSS, MetSat, EESS in 401-403 MHz and 399.9-400.05 MHz
- New hard limit and trigger pfd limit for R1&3 GSO BSS in 1452-1492MHz
- Coordination Arc instead of delta T/T for GSO MSS in 19.7-20.2GH and 29.5-30GHz

WRC-19 results for non-Planned space services

Modification to the procedures

- Identification of satellite networks/systems for information only and confirmation of identification for 9.12, 9.12A and 9.13
- New Definitions of DBIU for non-GSO system in Art 11
- Introduction of Milestone based approach for implementation non-GSO systems in certain frequency bands and services

Summary of Coordination Approach

- **Inform/Publish characteristics**
- **Fulfil requirements in RR**
- **Negotiate with concerned administrations and get agreements**
- **Record the coordinated assignments in the MIFR**

Thank you!

ITU – Radiocommunication Bureau

Questions to brmail@itu.int or mitsuhiro.sakamoto@itu.int

