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Over View of Coordination and Notification Procedures (Non-Planned Space Services)

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ITU-R**

**ITU HQ Geneva,
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Contents



Essence of coordination approach

Two stage procedure – A, N or C(A), N

Examination of Coordination Request

CR/C, CR/D and CR/E

earth station coordination

Recording in MIFR

Resolution 49 and Resolution 552

BR Actions at the end Regulatory Time Limit

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 a planned use of satellite network
- 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)

Coordination Approach

Satellite networks Not subject to Coordination Procedure



Advanced
Publication
Information

Notification

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

Recording in
Master Register
(international
recognition)

(Bringing into
use)

ADVANCE PUBLICATION OF INFORMATION ON SATELLITE NETWORKS (Section I of Article 9)



- **Inform all administrations of any planned satellite network (Non-GSO) and its general description (API/A publication)**
- **Start of regulatory time limit to be recorded in the MIFR and brought into use**
- **No priority, No examination**
- **Followed by API/B (Comments by other administrations)**

Coordination Approach

Satellite networks Subject to Coordination Procedure



Coordination

Advanced
Publication
Information

Notification

Inform all administrations of
planned satellite network (GSO &
Non-GSO) and detail description
Obligatory negotiation
(Goal: interference-free
operation)

Start the clock
(7 years to bring into use)

Recording in
Master Register
(international
recognition)

(Bringing into
use)

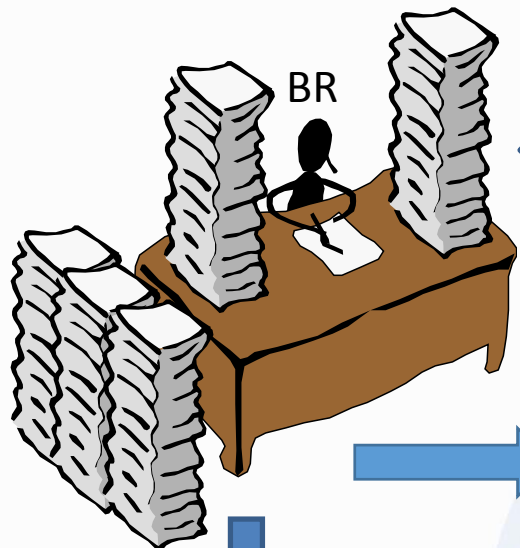
COORDINATION OF SATELLITE NETWORKS



- **Section II, Article 9 “Procedure for effecting coordination”**
- **Contains (almost) all cases of coordination for non-planned satellite networks (GSO and Non-GSO), earth and terrestrial stations**
- Not contained in Article 9
 - (1) Non-Planned services w.r.t. Planned services
(see Art 7 of AP30 and AP30A)
 - (2) BSS sound in the 2.6 GHz w.r.t. Terrestrial Services
(See Res 539)



Request for coordination
AP4 submission



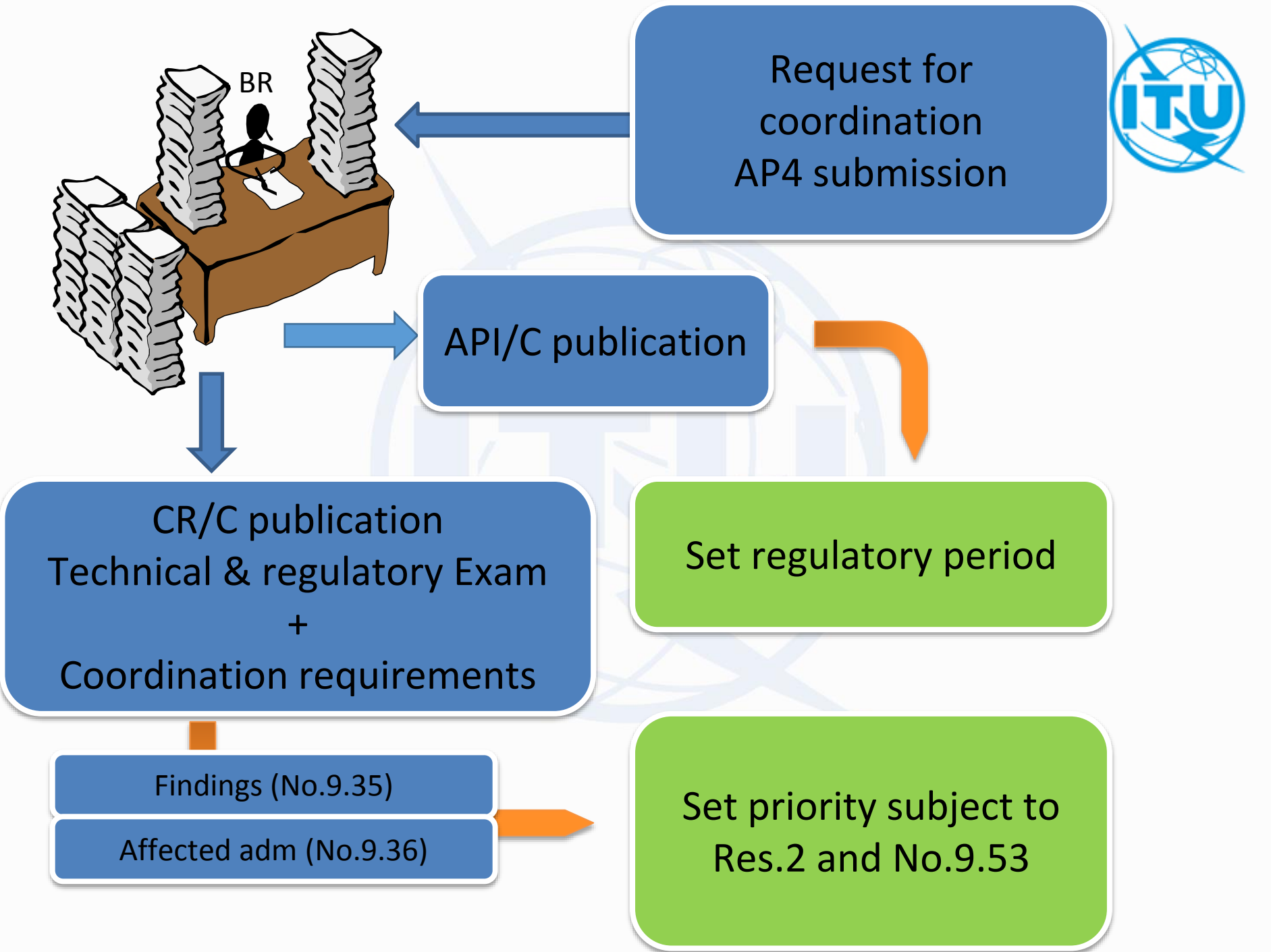
API/C publication

CR/C publication
Technical & regulatory Exam
+
Coordination requirements

Set regulatory period

Findings (No.9.35)
Affected adm (No.9.36)

Set priority subject to
Res.2 and No.9.53



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 –”

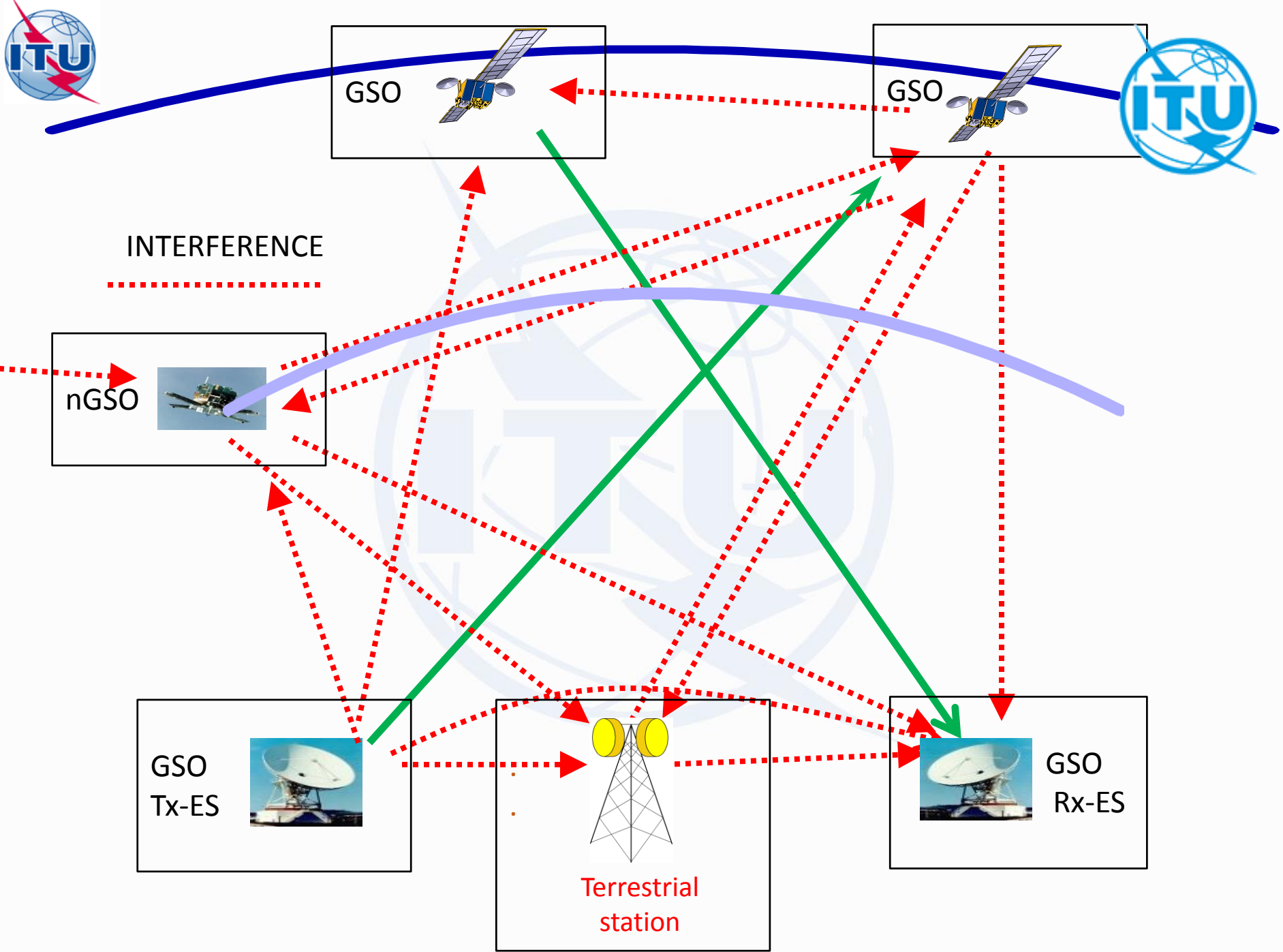
➤ Establish forms of coordination

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, RS539

➤ Identify administrations with which coordination may need to be effected for various forms of coordination

➤ Identify list of satellite networks



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, Res.539
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

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)	

Criteria and methods for identification



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

TABLE 5-1 (Rev.WRC-15)

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 (Region 2) 11.7-12.2 GHz (Region 3) 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 band 14.5-14.8 GHz any network in the space research service (SRS) or		With respect to the space services listed in the threshold/condition column in the frequency bands in 1), 2), 2bis), 3), 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 § 2.2.1.2 and 3.2 of

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
 - Potentially Affected Administrations for some Forms of Coordination for information only (9.36.1)
 - List of Satellite networks for some Forms of Coordination (9.36.2)



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 SATÉLITE		DAR-57W		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	CR/C/481
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2883 / 13.11.2018
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	UA	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	57 W	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	18520186
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL					22.07.2018

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.
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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. De conformidad con los N°s 9.50-9.52 del Reglamento de Radiocomunicaciones, se solicita a las administraciones señaladas en el cuadro I a continuación que comuniquen su decisión a la administración responsable y a la Oficina antes del plazo indicado más abajo.
<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 checked="" type="checkbox"/>	9.11	es 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, 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. Se invita a las administraciones, enumeradas o no en el cuadro II, que no estén de acuerdo con la solicitud de coordinación de conformidad con los N°s 9.11 a 9.14, 9.21 y RS33#2.1 que comuniquen sus observaciones a la administración responsable y a la Oficina dentro del plazo indicado más abajo. Se considerará que toda administración que no responda de conformidad con el N° 9.52 dentro del plazo señalado, no está afectada y, en el caso de los N°s 9.11 a 9.14 y RS33#2.1, se aplicarán las disposiciones de los N°s 9.48 y 9.49
<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 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 **13.03.2019**



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

Disposition / Provision / Disposición / 条款 / Положение / الحكم		Résumé des conditions régissant la coordination 协调要求概述	Summary of coordination requirements Сводные потребности в координации	Resumen de los requisitos de coordinación موجز متطلبات التنسيق
X	9.7	ALG, ARG, ARM, ARS/ARB, ARS, AUS, AZE, B, BEL, BLR, BOL, BUL, CAN, CBG, CHN, CLM/ASA, CLM, CTI/RAS, CYP, D/EUM, D, E, EGY, ETH, F/EUT, F, G, GRC, HOL, I, IND, INS, IRN, IRQ, ISR, J, JOR, KAZ, KOR, LUX, MCO, MEX, MLA, MLD, NCG, NIG, NOR, OMA, PAK, PNG, QAT, RUS/IK, RUS, S, SNG, SUI, THA, TON, TUR, UKR, USA, VTN		
	9.7A			
	9.7B			
X	AP30#7.1	ARG, B, DNK, F, G, GRD, HOL, USA		
X	AP30A#7.1	B, E, EGY, F, G, GRD, HOL, IND, ISR, J, KAZ, LUX, PAK, PNG, QAT, RUS/IK, S, TUR, USA		
	RS539			
	RS33#3			

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

Disposition / Provision / Disposición / 条款 / Положение / الحكم		Administrations susceptibles d'être défavorablement influencées (à titre d'information uniquement, voir numéro 9.36.1) 可能受影响的主管部门(仅供参考, 见第 9.36.1款)	Potentially affected administrations (for information only, see No. 9.36.1) Потенциально затрагиваемые администрации (исключительно для информации, см. п. 9.36.1)	Administraciones posiblemente afectadas (sólo para información, véase el N° 9.36.1) إدارات يحتمل أن تتأثر تأثيراً غير مؤات (انظر الرقم 1.36.9، على سبيل الإطلاع فقط)
X	9.11	CAN, DNK/GRL, E, F/OCE, F, G/FLK, G/GCC, G/PTC, MEX*, SVN, USA/ALS, USA*		
X	9.11A			
	9.12			
	9.12A			
X	9.13	AUS, CAN, CHN, D, F/GLS, F, G, HOL, IND, ISR, LIE, LUX, NOR, NZL, PNG, RUS/IK, RUS, SLM, USA		
X	9.14	AFS, AGL, ALB, ALG, AND, ARG*, ATG, AUT*, B*, BAH, BEL*, BEN, BFA, BIH*, BLZ, BOL, BOT, BRB*, CAF, CAN*, CHL/PAQ, CHL*, CLM*, CME, COD, COG, CPV, CTI, CTR, CUB*, CVA, CZE*, D*, DMA, DNK/FRO, DNK/GRL, DNK*, DOM, E/CNR*, E*, EQA, F/BLM, F/CPT, F/GLP*, F/GUF, F/MAF, FMRT*, F/OCE, F/SPM, F*, G/AIA, G/ASC, G/BER, G/CYM, G/FLK, G/GCA, G/GCC, G/GIB*, G/MSR*, G/PTC, G/SHN, G/TCA, G/TRC, G/VRG, G*, GAB, GHA, GMB, GNB*, GNE, GRC*, GRD, GTM, GUI, GUY, HND/SWN, HND, HNG*, HOL/ABW, HOL/BES, HOL/CUW, HOL/SXM, HOL*, HRV*, HTI, I*, IRL*, ISL, JMC, KNA, LBR, LBY, LCA, LIE, LUX, MCO, MEX*, MKD*, MLI, MLT*, MNE*, MRC*, MTN, NCG, NGR, NIG*, NMB, NOR/BVT, NOR*, PNR, POL, POR/AZR, POR/MDR, POR*, PRG*, PRU, ROU*, S*, SDN, SEN*, SLV, SMR, SRB*, SRL, SSD, STP, SUI/AUT*, SUI/I*, SUI*, SUR, SVK*, SVN*, TCD, TGO, TRD, TUN, URG*, USA/ALS, USA/D*, USA/PTR*, USA/VIR*, USA*, VCT, VEN, XZZ/AOE*, ZMB,		
X	9.21/A ¹	ARS/ARB, CHN, HOL, LUX, MCO, MLA, THA, TUR		
X	9.21/B ¹	CHN, D, F, HOL, LUX, RUS, SLM, USA		
	9.21/C ¹			
	RS33#2.1			



OBSERVATIONS DU BUREAU DES RADIOCOMMUNICATIONS

Relatives à la Conclusion conformément au N° 11.31

Faisceau orientable KD7RX, assignations de fréquence dans la bande 13 400 – 13 650 MHz avec une densité maximale de puissance \geq -60.3 dBW/Hz et une valeur maximale de la puissance en crête \geq -19.3 dBW

DEFAVORABLE

Les limites de puissance surfacique prescrites au numéro 21.16 sont dépassées.

Il n'existe aucune position du faisceau orientable où les limites de puissance surfacique applicables sont respectées.

Assignment de fréquence 1 521.5 MHz

DEFAVORABLE

Pour toutes les assignations du service mobile par satellite (Espace-vers-Terre) sur le territoire des Etats-Unis (numéro 5.344).

RADIOCOMMUNICATION BUREAU COMMENTS

Relating to the Findings with respect to No. 11.31

Steerable beam KD7RX, frequency assignments in the 13 400 – 13 650 MHz band with maximum power density \geq -60.3 dBW/Hz and maximum peak power \geq -19.3 dBW

UNFAVOURABLE

The power flux density limits specified in No. 21.16 are exceeded.

There are no positions of the steerable beam where the applicable PFD limits are met.

Frequency assignment 1 521.5 MHz

UNFAVOURABLE

For all assignments in the Mobile-Satellite Service (Space-to-Earth) in the territories of USA (No. 5.344 refers)

OBSERVACIONES DE LA OFICINA DE RADIOCOMUNICACIONES

Relativas a la Conclusión según N.º 11.31

Haz orientable KD7RX, asignaciones de frecuencia en la banda 13 400 – 13 650 MHz con una densidad máxima de potencia \geq -60.3 dBW/Hz y un valor máximo de la potencia de cresta \geq -19.3 dBW

DESFAVORABLE

Se han rebasado los límites de densidad de flujo de potencia especificados en el número 21.16.

No existe ninguna posición del haz orientable en la que se cumplan los límites de DFP aplicables.

Asignación de frecuencia 1 521.5 MHz

DESFAVORABLE

Para todas las asignaciones del servicio móvil por satélite (Espacio-Tierra) en los territorios de EEUU (véase el número 5.344).



Relatives à l'examen conformément au N° 9.36

Relating to the examination with respect to No. 9.36

Relativas al examen según N.º 9.36

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

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

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

关于根据第 9.36 款的审查

Относительно экспертизы по п. 9.36

المتعلقة بالنفحص وفقاً للرقم 36.9

见第 3-4 页的概述。详细情况见以下各页。

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

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

I. Nécessité d'une coordination au niveau du groupe

I. Coordination requirements at group level

I. Requisitos de coordinación a nivel de grupo

一、需要在组的层次进行的协调

I. Потребности в координации на уровне группы

.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 دلنا T/T	Arc de coordination 协调弧	Coordination Arc Дуга координации	Arco de coordinación قوس التنسيق
CMD	R	118664558	6				B CHN HOL NOR	E F PNG USA	G
		118664559	6				B CHN HOL NOR	E F PNG USA	G
		118664560	6				B CHN HOL NOR	E F PNG USA	G
		118664561	6				B CHN HOL NOR	E F PNG USA	G
		118664562	6				B CHN HOL NOR	E F PNG USA	G
		118664563	6				B CHN HOL NOR	E F PNG USA	G
		118664564	14				B CHN PNG USA	E F USA	HOL
		118664565	14				B CHN PNG USA	E F USA	HOL
		118664566	14				B CHN PNG USA	E F USA	HOL

No split of network for 21.4-22GH BSS



- **21.4-22 GHz portion of a request for coordination received before 01.01.2017 was removed and published in a separate special section (CR/F) with the satellite name with “_1”**
- **Currently 21.4-22 GHz portion is also published in CR/C**
- **When the special procedure under Res.553 has been requested, the notice will still be treated independently and will be published in a CR/F special section**



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 الخ ددة وفقاً للرقم 7.9 بموجب:							
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Arc de coordination et Résolution 554 协调弧和第554号决议				Coordination Arc and Resolution 554 Координационная дуга и Резолюция 554				Arco de coordinación y Resolución 554 قوس التنسيق والقرار 554			
KAD3	E	118665108	21	E	F	HOL	PNG								
		118665109	21	E	F	HOL	PNG								
		118665110	21	E	F	HOL	PNG								

B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Administrations identifiées au titre du AP30#7.1 识别主管部门的依据是 AP30#7.1				Administrations identified under AP30#7.1 Администрации, идентифицированные согласно AP30#7.1				Administraciones identificadas según AP30#7.1 إدارات محددة بموجب AP30#7.1				
KU3R	E	118665280	12	ARG	F	G	GRD	HOL								
		118665281	12	ARG	F	G	GRD	HOL								
		118665282	12	ARG	F	G	GRD	HOL								

B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Administrations identifiées au titre du AP30A#7.1 识别主管部门的依据是 AP30A#7.1				Administrations identified under AP30A#7.1 Администрации, идентифицированные согласно AP30A#7.1				Administraciones identificadas según AP30A#7.1 إدارات محددة بموجب AP30A#7.1					
KUG	R	118664537	14	E	EGY	F	HOL	IND	ISR	J	KAZ	LUX	PAK	PNG	QAT	RUS/IK	
		118664538	14	E	F	HOL	ISR	LUX	PAK	PNG	QAT	S	TUR				
		118664539	14	E	HOL	PNG	QAT	S	TUR								

II. Lista de redes de satélite
9.36.2)

(انظر الرقم 2.36.9)

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

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

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

二、卫星网络清单(见第9.36.2款)

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 دلنا $T/T > 6\%$ محددة في الحالة I فقط (الشبكتان 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 دلنا $T/T > 6\%$ محددة في الحالة II فقط (الشبكتان 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
------	------	-----	------	------	------	------	------	------



Liste des réseaux à satellite pour lesquels les limites de puissance surfacique prescrites dans l'Annexe 1 de la Résolution 554 sont dépassées et qui se situent dans l'arc de coordination (au titre du N° 9.7)

List of satellite networks for which pfd limits of Annex 1 of Resolution 554 is exceeded and are within the coordination arc (under No. 9.7)

Lista de las redes de satélites para las que se superan los límites de pfd del Anexo 1 de la Resolución 554 y que se sitúan dentro del arco de coordinación (según N.º 9.7)

超出第554号决议附件1规定的pfd值并处于协调弧内的卫星网络的清单 (依据 9.7)

Список спутниковых сетей, для которых пределы п.п.м. Приложения 1 Резолюции 554 превышены и находятся в пределах координационной дуги (согласно № 9.7)

قائمة بالشبكات الساتلية التي يتم بخصوصها تجاوز حدود كثافة تدفق القدرة المنصوص عليها في الملحق 1 بالقرار 554 والتي تقع 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
E		HISPASAT-12A_1	52.5 W	C	A	113523035	R	

Liste des faisceaux ou des réseaux à satellite identifiés par le Bureau (au titre du AP30#7.1)

List of beams or satellite networks identified by the Bureau (under AP30#7.1)

Lista de los haces o de las redes de satélite identificadas por la Oficina (según AP30#7.1)

通信局识别的波束或卫星网络清单 (依据 AP30#7.1)

Список лучей или спутниковых сетей, идентифицированных Бюро (согласно AP30#7.1)

قائمة الحزم أو الشبكات الساتلية التي حددها المكتب (بموجب AP30#7.1)

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
ARG		ARGINSUS	55.2 W	B	A	86550006		R

List of satellite networks, for which PFD criteria is exceeded or Delta T/T > 6% identified under Case I only (Wanted and interfering networks sharing the same frequency band in the same direction of transmission) (under AP30A#7.1)

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 AP30A#7.1)



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 USA	CHN	D	F	G	HOL	ISR	LIE	LUX	NOR	NZL	RUS/IK	RUS

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	Subject to comment under No.9.52

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

CR/D Publication (No.9.53A)



- An Adm informs its disagreement under No.9.52 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 SATELITE		ST-NG-C-4		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	CR/D/3658
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2882 / 30.10.2018
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	F	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	NGSO	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	17520372

X	9.11	<p>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.</p> <p>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.</p> <p>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.</p>	<p>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.</p> <p>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.</p> <p>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.</p>	<p>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.</p> <p>2. En los Cuadros I y II que figuran a continuación se enumeran las administraciones que han presentado comentarios conforme al número 9.52 dentro de un plazo de cuatro meses a partir de la fecha de publicación de la Sección Especial CR/C mencionada, con respecto al tipo de coordinación indicado en la columna de la izquierda mediante una X en el casillero correspondiente.</p> <p>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.</p>	
	X				9.12
	X				9.12A
					9.13
	X				9.14
X	9.21/A				
X	9.21/B				
X	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/4587 (BR IFIC 2868 / 17.04.2018)

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

Disposition / Provision / Disposición / 条款 / Положение / 条款	Récapitulatif des coordinations à effectuer		Summary of coordination requirements	
	协调要求概述		Сводные данные о будущей координации	
9.11				
X	9.11A			
	X	9.12	AUS, CAN, CHN, D, E, F/GLS, G, HOL, I/GLS, ISR, J, LIE, LUX, NOR, NZL, PNG, RUS/IK, RUS, SLM	
	X	9.12A	ALG, ARG, ARM, ARS/ARB, ARS, AUS, AZE, B, BUL, CAN, CHN, CT/IRAS, CYP, CZE, D, E, EGY, F, KOR, LUX, MEX, MLA, NCG, NOR, NZL, PNG, QAT, RUS/IK, RUS, S, SUI, THA, TUR, UKR, USA, V	
		9.13		
	X	9.14	ALG, ARM, ARS, AUS/CHR, AUS/HMD, AUS/ICO, AUS/NFK, AUS, AZE, B, BHR, BUL, CAN, CHN/H, E/CNR, E, EGY, FIN, G/AIA, G/ASC, G/BER, G/CYM, G/DGA, G/FLK, G/GCA, G/GCC, G/GIB, G/MSI, GAB, GRC, HRV, I, INS, IRQ, ISR, J, JOR, KAZ, KGZ, KOR, LTU, LUX, MEX, MLA, MLT, NCG, NZL, ROU, RUS, S, SDN, SUI/AUT, SUI/I, SUI, TUN, TUR, UKR, USA/ALS, USA/D, USA/GUM, USA/HWA, USA/MRA, USA/PLM, USA/PTN, USA/SMA, USA/VIR, USA/WAK, USA, VTN	
X	9.21A		ARS/ARB, CHN, E, HOL, J, LUX, MLA, S, THA, TUR	
X	9.21B		CHN, D, F/GLS, G, HOL, I/GLS, J, LUX, RUS, SLM, USA	

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

Nécessité d'une coordination au niveau du groupe / Coordination requirements at group level / Requisitos de coordinación en el nivel del grupo / 协调要求在组内进行的 / 协调要求在组内进行的 / 协调要求在组内进行的

B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	BR47 Frequency band (MHz)	No.9.12	
5AU08	R	117788503	5090.000 - 5150.000	CHN	G
		117788504	5090.000 - 5150.000	CHN	G
		117788505	5090.000 - 5150.000	CHN	G
		117788506	5000.000 - 5030.000	CHN	F/GLS I/GLS J
		117788507	5030.000 - 5090.000		
		117788508	5000.000 - 5030.000	CHN	F/GLS I/GLS J
		117788509	5030.000 - 5090.000		
		117788510	5000.000 - 5030.000	CHN	F/GLS I/GLS J
		117788511	5030.000 - 5090.000		
		5AU10	R	117788440	5090.000 - 5150.000
117788441	5090.000 - 5150.000			CHN	C

CR/E Publication (No.9.42)



- An Adm requests for inclusion or exclusion of adm/network as coordination requirement under No.9.41 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		UTURA-4		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	CR/E/1685
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2882 / 30.10.2018
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	AE	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	4 E	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	17520338

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/4580 (BR IFIC 2868 / 17.04.2018)
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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. 协调过程中包括的主管部门	Administration included in the coordination process Администрации, включенные в процесс координации	Administraciones incluidas en el procedimiento de coordinación
X 9.41 / 9.7	BUL, EGY, G, J, KOR, RUS		
9.41 / 9.7A			
9.41 / 9.7B			

I. Nécessité d'une coordination au niveau du groupe
I. Coordination requirements at group level

一、需要在组的层次进行的协调
I. Потребности в координации на уровне группы

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 satélite

الساتلية

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:			
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Delta T/T Delta T/T	Delta T/T Delta T/T	Delta T/T Delta T/T	Delta T/T Delta T/T
CUR	R	117793931	5 G	KOR	RUS	RUS	
		117793932	5	KOR	RUS		
		117793933	5 G	KOR	RUS		
		117793934	6 G	KOR	RUS		
		117793935	6	KOR	RUS		

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 titre du N° 9.7)

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 N° 9.7)

Delta 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 > 6% ولكنها ليست ضمن قوس التنسيق (موجب الرقم 9.7)

A1f1 Notif. adm.	A1f3 Inter. sat. org.	A1a Sat. Network	A4a1 Orbital long.	BR3b Category of notif.	BR25 AT	BR6a Id. no.	BR26 Causing interference	BR27 Receiving interference
BUL		BULSAT-1.9E	1.9 E	C	A	112520195	C	R
EGY		EGJAN1A	7 W	C	A	114520032	C	R
		EGJAN2A	6 W	C	A	114520079	C	R
		EGJAN3A	2 W	C	A	114520080	C	R
		EGJAN4A	11 E	C	A	114520081	C	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)

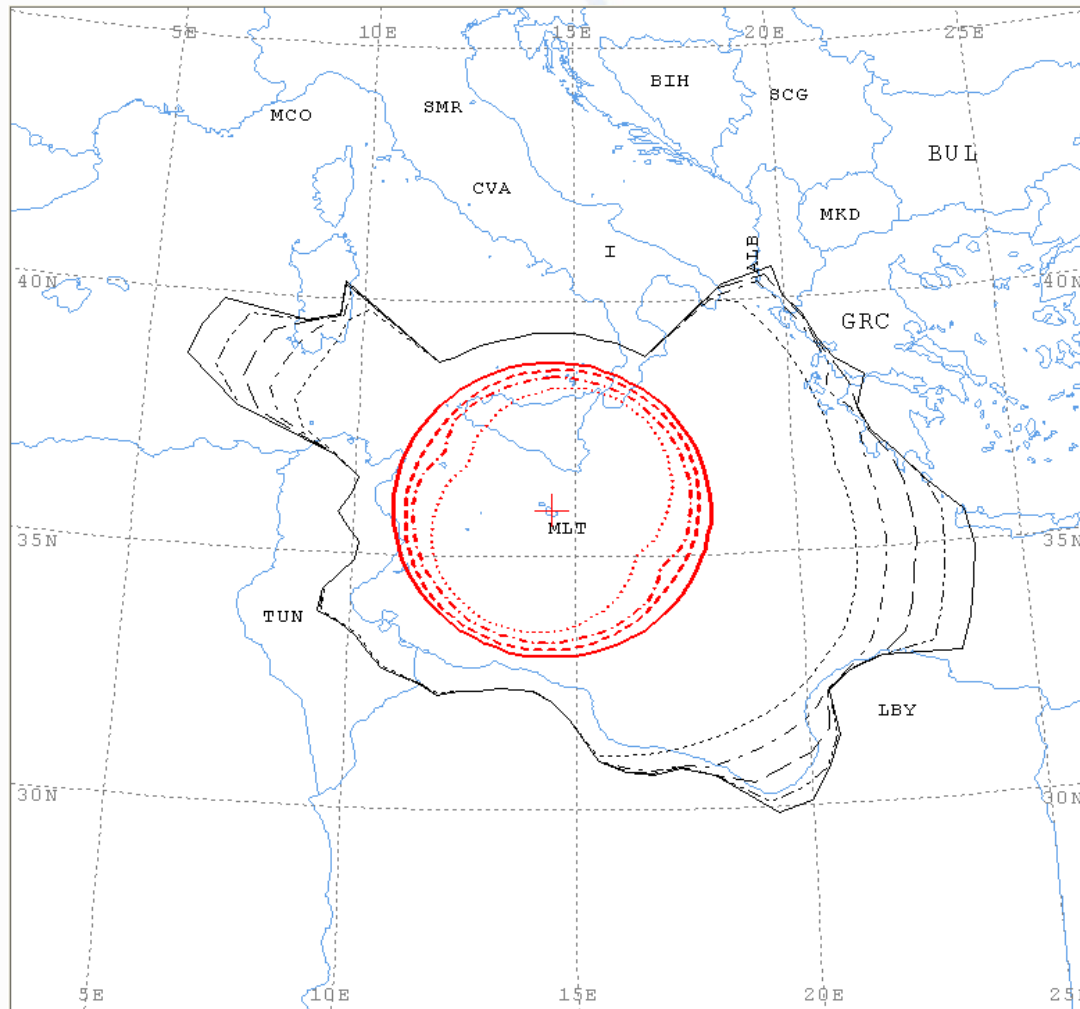
Forms of Coordination



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

	ES position		Aux. Model -5.0db		Aux. Mode2 2.0deg
	Main Model 0.0db		Aux. Model -10.0db		Aux. Mode2 3.0deg
	Main Mode2 0.0deg		Aux. Model -15.0db		Aux. Mode2 4.0deg
			Aux. Model -20.0db		Aux. Mode2 5.0deg

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) 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.



Coordination /
API (Advance
Publication)



Due Diligence
Information



Suspension



Maintenance of
MIFR etc.



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 the regulatory deadline results in suppression of submissions**

Due Diligence – Res 552



- **Resolution 552: Similar to Res 49 to some extent**
- **Applies to BSS in R1,R3 21.4-22G**
- **Update of Due Diligence information is required for relocation/deorbiting**
- **Submission of Due Diligence Information within 30 days after the commencement of the use**
- **ITU-ID for new satellites**

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 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**

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 !