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Non Planned Satellite Services (Coordination and Notification)

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BR Space Services Department



Co-Organizers:



Contents

- Elements of coordination approach
- Two stages procedure - A, N or C(A) and N
- Examination of Coordination Request
- Publication of API and CR
- Recording in MIFR
- Due Diligence - Resolution 49 and Resolution 552
- BR Actions at the end Regulatory Time Limit

Non-Planned Procedures

ARTICLE 11 Notification and recording of frequency assignments^{1, 2, 3, 4, 5, 6, 7, 8} (WRC-15)

ARTICLE 9 Procedure for effecting coordination with or obtaining agreement of other administrations^{1, 2, 3, 4, 5, 6, 7, 8, 9} (WRC-15)

¹ A.11.1 See also Appendix
a) frequency
11.7-12.2 GHz (in Region 3), 11.7
b) frequency:
§ a) above are allocated in the same
service as assigned in the
12.2

Dem
17.3
band
fixed
broa

² A
scape
³ A
⁴ A
fixed
⁵ A
mult
⁶ A
⁷ A
no sh
in No



**** Note by the Secretariat: This Resolution was revised by WRC-15.

“
Article 9
& Article 11

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)

Two Stage Procedure

Satellite networks not subject to Coordination Procedure

Advanced
Publication
Information

Notification

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

Recording in
Master Register
(international
recognition)

(Bringing into
use)

Two Stage Procedure

Satellite networks subject to Coordination Procedure

Coordination

Advanced
Publication
Information

Notification

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

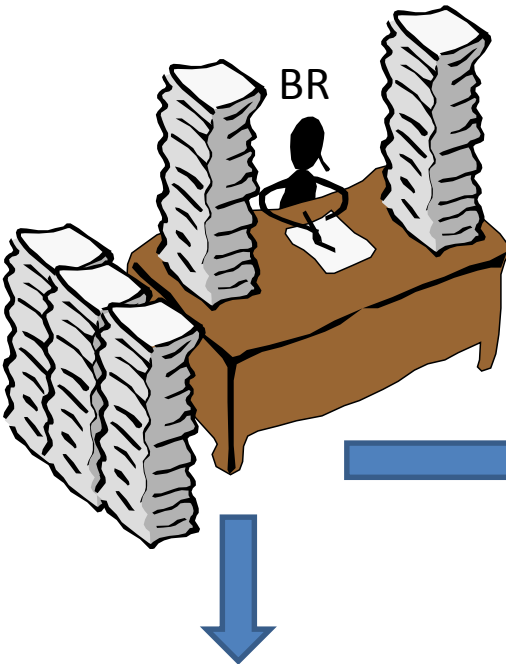
Start the clock
(7 years to bring into use)

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

Technical & regulatory Exam
+
Coordination requirements

Set regulatory period

Set priority subject to
Res.2 and No.9.53

Findings

Affected adm



Examination of Coordination Request

1. No. 9.35 Examination

No. 9.35 Examination

“ conformity with Table of Frequency Allocation 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. 9.35 Examination

“BRsoft/What is new
on version 8”
Space Workshop – WRS15

Power-flux density
limits (PFD)



EIRP limits

GIBC Program v8
(Graphical Interface for Batch Calculations)

Only favourable
frequency
assignments
will proceed ...



Examination of Coordination Request

2. No. 9.36 Examination

Examination of Coordination Request

No. 9.36 Examination

Coordination Requirement for groups with “A –”

- ❖ **Establish forms of coordination**

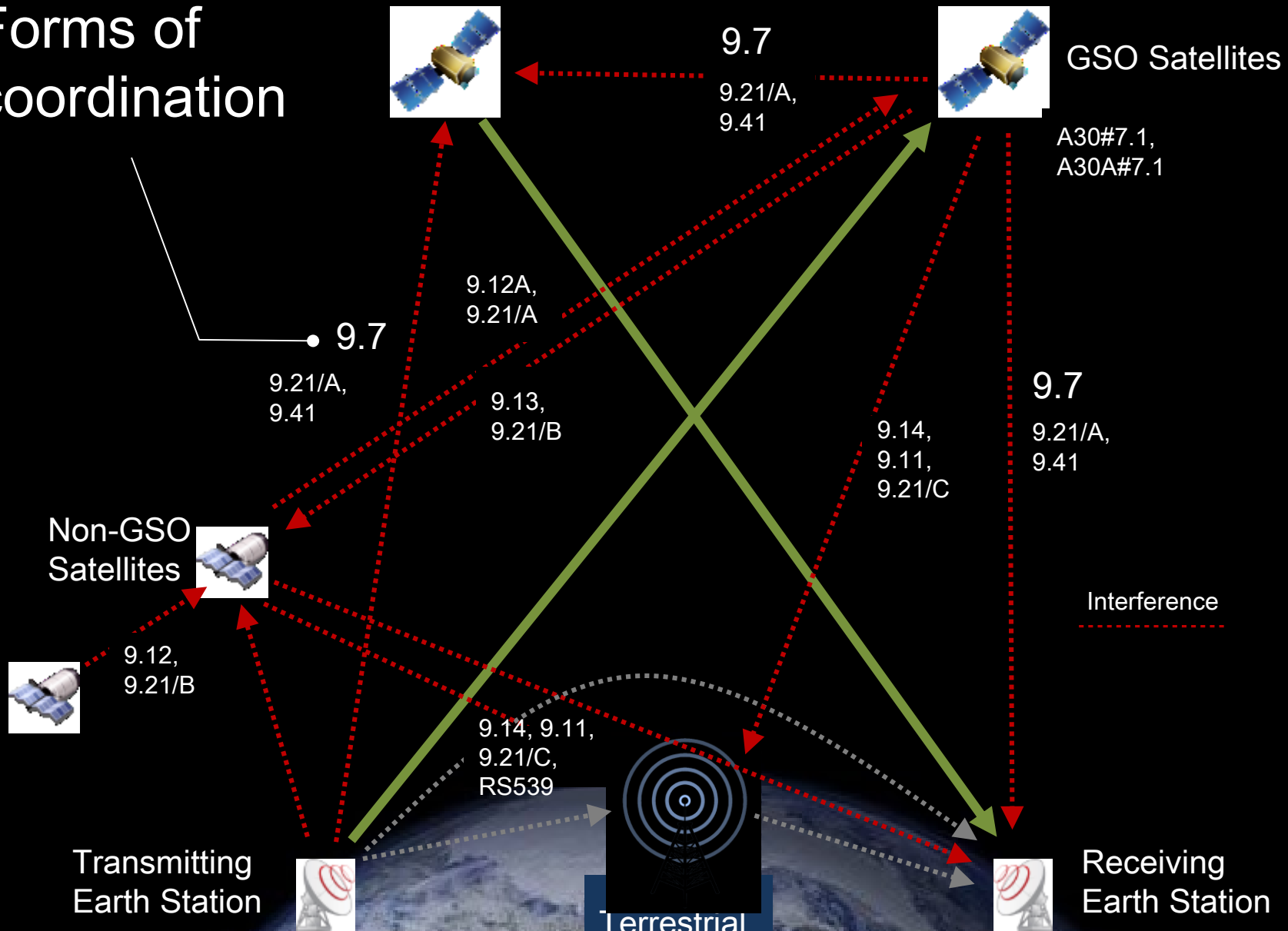
*9.7, 9.7A, 9.7B, 9.11, RS33, 9.11A, 9.12, 9.12A, 9.13, 9.14,
9.21/A, 9.21/B, 9.21/C, Ap30/Art.7, Ap30A/Art.7, RS539*

- ❖ **Identify administrations with which coordination may need to be effected for various forms of coordination**

- ❖ **Identify list of satellite networks**

Coordination requirements (No. 9.36 of RR)

Forms of coordination



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 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**

Criteria and methods for identification

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

TABLE 5-1 (WRC-12)
Technical conditions for coordination
 (see Article 9)

Reference of Article 9	Case			Calculation method	
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 13.75-14.5 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 $\pm 8^\circ$ 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 $\pm 7^\circ$ of the nominal orbital position of a proposed network in the FSS or BSS, not subject to a Plan		With respect to the space services listed in the threshold/condition column in the bands in 1), 2), 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 Appendix 8 shall be used

Publication of API and CR



Publication of API/A and API/B



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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE		ZACUBE-2		SECTION SPÉCIALE N ^o SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	API/A/12068
				BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2864 / 20.02.2018
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	AFS	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	NGSO	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	117545401
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL					15.12.2017

Ces renseignements reçus par le Bureau des radiocommunications, en application du numéro 9.1/9.2 du Règlement des radiocommunications, sont publiés conformément au numéro 9.2B.

This information, received by the Radiocommunication Bureau pursuant to No.9.1/9.2 of the Radio Regulations, is published in accordance with No. 9.2B.

Esta información, recibida por la Oficina de Radiocomunicaciones con arreglo al número 9.1/9.2 del Reglamento de Radiocomunicaciones, se publica de acuerdo con lo dispuesto en el número 9.2B.

Une administration qui estime que des brouillages inacceptables risquent d'être causés à ses réseaux ou à ses systèmes à satellites existants ou en projet communique à l'administration qui a demandé la publication des renseignements ses observations, avec copie au Bureau des radiocommunications, dans le délai indiqué ci-après.

Any administration which believes that unacceptable interference may be caused to its existing or planned satellite networks or systems shall communicate its comments to the publishing administration, with a copy to the Radiocommunication Bureau, by the deadline indicated below.

Cualquier administración que estime que se podría causar interferencia perjudicial a sus redes o sistemas de satélites existentes o planificados deberá comunicar sus comentarios a la administración que publica, con copia a la Oficina de Radiocomunicaciones, en el plazo que se indica más abajo.

**DATE LIMITE POUR LA RÉCEPTION DES COMMENTAIRES
EXPIRY DATE FOR THE RECEIPT OF COMMENTS
FECHA LÍMITE PARA LA RECEPCIÓN DE LOS COMENTARIOS**

20.06.2018





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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		ZACUBE-2		SECTION SPÉCIALE N ^o SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	API/B/900
				BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2875 / 24.07.2018
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	AFS	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	NGSO	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	117545401 / 117545401

RÉFÉRENCE DE LA SECTION SPÉCIALE (BR IFIC / DATE) SPECIAL SECTION REFERENCE (BR IFIC / DATE) REFERENCIA DE LA SECCIÓN ESPECIAL (BR IFIC / FECHA)	API/A/12068 (BR IFIC 2864 / 20.02.2018)
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<p>1. La présente Section spéciale est publiée conformément au numéro 9.5 du Règlement des radiocommunications, et concerne la demande de coordination publiée dans la section spéciale API/A indiquée ci-dessus.</p> <p>2. Les administrations qui ont soumis des observations au titre du numéro 9.3 dans le délai de quatre mois suivant la date de publication de la Section spéciale API/A précitée, sont indiquées ci-dessous et le tableau contient un résumé de ces observations.</p>	<p>1. This Special Section is published in accordance with No. 9.5 of the Radio Regulations, in respect of the request for coordination published in the API/A Special Section referenced above.</p> <p>2. Administrations that have submitted comments under No. 9.3 within four months of the date of publication of the mentioned APVA Special Section are listed below and the table contains a summary of the comments.</p>	<p>1. Esta Sección Especial se publica de conformidad con lo dispuesto en el número 9.5 del Reglamento de Radiocomunicaciones, en lo que respecta a la solicitud de coordinación publicada en la Sección Especial APVA antes citada.</p> <p>2. Las administraciones que han presentado comentarios conforme al número 9.3 dentro de un plazo de cuatro meses a partir de la fecha de publicación de la Sección Especial API/A mencionada, se indican a continuación y en el cuadro se presenta un resumen de los comentarios.</p>
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ALG, ARG, AUS, BLR, CAN, CHN, CYP, D, E, EGY, F/ESA, F/EUT, F/GLS, F, HOL, INS, J, KAZ, KOR, MLA, MRC, PAK, QAT, RUS, SLM, USA

Publication of API/C and CR/C



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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE		NIGCOMSAT-2B		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	API/C/317
				BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2866/20.03.2018
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	NIG	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	16 W	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	117520468
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL					06.12.2017

Ces renseignements ont été extraits des renseignements communiqués conformément au numéro 9.30, en application des numéros 9.1A/9.2C du Règlement des Radiocommunications, et sont publiés par le Bureau conformément au numéro 9.1A.

The information has been extracted from the information sent under No. 9.30, pursuant to Nos 9.1A/9.2C of the Radio Regulations, and is published by the Radiocommunication Bureau in accordance with No. 9.1A.

La información se ha extraído de la información remitida con arreglo al número 9.30, de acuerdo con lo dispuesto en los números 9.1A/9.2C del Reglamento de Radiocomunicaciones, y la Oficina de Radiocomunicaciones la publica de acuerdo con el número 9.1A.





SPECIAL SECTION / SECCIÓN ESPECIAL / 特节 / СПЕЦИАЛЬНАЯ СЕКЦИЯ / القسم الخاص										API/C/317	
A	A1a Sat. Network	NIGCOMSAT-2B		A1f1 Notify adm.	NIG	A1f3 inter. Sat Org.		BR1 Date of receipt	06.12.2017	BR20 BR IFIC no.	2866
BR6a/BR6b Id. no.		117520468		BR3a Provision reference		9.1A		BR2 Adm. serial no.			

A4a1 Orbital long.

BR1 Date of receipt	BR47 Frequency band (Mhz)		Regulatory Date Limits No.11.44
	From	To	
06.12.2017	1164	1300	06.12.2024
06.12.2017	1452	1492	06.12.2024
06.12.2017	1518	1525	06.12.2024
06.12.2017	1668	1675	06.12.2024
06.12.2017	3400	4200	06.12.2024
06.12.2017	5725	6725	06.12.2024
06.12.2017	10950	11200	06.12.2024
06.12.2017	11450	12200	06.12.2024
06.12.2017	12500	12750	06.12.2024
06.12.2017	13400	13650	06.12.2024
06.12.2017	13750	14750	06.12.2024
06.12.2017	17700	21200	06.12.2024
06.12.2017	27500	31000	06.12.2024
06.12.2017	2044750	2045250	06.12.2024

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 (9.36.2)
 - Potentially Affected Administrations for some (9.36.1) for information only



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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		NIGCOMSAT-2B		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	CR/C/4635
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2872 / 12.06.2018
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	NIG	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	16 W	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	117520468
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL					06.12.2017

<p>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.</p>	<p>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</p>	<p>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° 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.</p>
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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	
	9.7A	
	9.7B	
<input checked="" type="checkbox"/>	AP30#7.1	<p>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.</p> <p>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.</p> <p>De conformidad con los N° 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.</p>
<input checked="" type="checkbox"/>	AP30A#7.1	
	RS539	
	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		
	9.11	
<input checked="" type="checkbox"/>	9.11A	<p>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.</p> <p>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.</p> <p>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° 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° 9.11 a 9.14 y RS33#2.1, se aplicarán las disposiciones de los N° 9.48 y 9.49.</p>
	9.12	
	9.12A	
<input checked="" type="checkbox"/>	9.13	
<input checked="" type="checkbox"/>	9.14	
<input checked="" type="checkbox"/>	9.21/A	
	9.21/B	
	9.21/C	
	RS33#2.1	

DATE LIMITE POUR LA DÉCISION / EXPIRY DATE FOR DECISION / FECHA LÍMITE PARA LA DECISIÓN	12.10.2018
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		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 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, B, BUL, CAN, CHN, CYP, D, E, ETH, F/EUT, F, G, GRC, HOL, I, IND, INS, ISR, J, KAZ, KOR, LAO, LUX, MCO, MEX, MLA, MNG, NCG, NOR, PAK, PNG, QAT, RUS/IK, RUS, S, SUI, THA, TUR, UAE, USA		
	9.7A			
	9.7B			
X	AP30#7.1	AUT, BEN, CAF, CME, COD, COG, CZE, D, F, G, GAB, GNE, HNG, HRV, LIE, LUX, MLI, NMB, S, SUI, SVK		
X	AP30A#7.1	G, RUS/IK, RUS, UAE		
	RS539			
	RS33#3			

		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 محتمل أن تتأثر تأثراً غير موات (انظر الرقم 1.36.9، على سبيل الإطلاع فقط)
	9.11			
X	9.11A			
	9.12			
	9.12A			
X	9.13	CAN, CHN, D/GLS, D, F/ESA, F/GLS, F, G, HOL, I/GLS, IND, ISR, J, LIE, LUX, NOR, NZL, RUS/IK, RUS, SLM, USA		
X	9.14			
X	9.21/A ¹	RUS		
	9.21/B ¹			
	9.21/C ¹			
	RS33#2.1			

¹ 9.21/A, 9.21/B et 9.21/C – au titre du numéro 9.21, administrations ayant des réseaux OSG, des réseaux non-OSG et des stations de Terre, respectivement.

¹ 9.21/A, 9.21/B and 9.21/C – Under No. 9.21, administrations with GSO networks, Non-GSO networks and terrestrial stations, respectively.

¹ 9.21/A, 9.21/B y 9.21/C – De conformidad con el N° 9.21, administraciones con redes OSG, redes no OSG y estaciones terrestres, respectivamente.

¹ 9.21/A, 9.21/B و 9.21/C – 根据第9.21款, 分别为有对地静止卫星轨道网络、非对地静止卫星轨道网络和地面站的主管部门

¹ 9.21/A, 9.21/B и 9.21/C – в соответствии с п. 9.21 администрации, имеющие сети ГСО, сети НГСО и наземные станции, соответственно.

¹ 9.21/A, 9.21/B و 9.21/C – بموجب الرقم 9.21، إدارات لها شبكات مستقرة بالنسبة إلى الأرض وشبكات غير مستقرة بالنسبة إلى الأرض ومحطات للأرض على التوالي.

**OBSERVATIONS DU BUREAU DES
RADIOCOMMUNICATIONS**

Relatives à la Conclusion conformément au
N° 11.31

Assignment de fréquence 1 472 MHz

DEFAVORABLE

Les systèmes de radiodiffusion par satellite ne peuvent être utilisés que dans les 25 MHz supérieurs de la bande 1 452 – 1 492 MHz (voir le numéro 5.345 et la Résolution 528).

Faisceau fixe LMSSD, assignment de fréquence
1 521.5 MHz avec une densité maximale de
puissance \geq -43.1 dBW/Hz et une valeur maximale
de la puissance en crête \geq -1 dBW

DEFAVORABLE

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

Faisceau orientable K4D, assignments de
fréquence dans la bande 13 400 – 13 650 MHz
avec une densité maximale de puissance \geq -55.9
dBW/Hz et une valeur maximale de la puissance
en crête \geq -5.5 dBW

DEFAVORABLE

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

RADIOCOMMUNICATION BUREAU COMMENTS

Relating to the Findings with respect to
No. 11.31

Frequency assignment 1 472 MHz

UNFAVOURABLE

Broadcasting-satellite systems may only be used within the upper 25 MHz of the band 1 452 – 1 492 MHz (No. 5.345 and Resolution 528 refer).

Fixed beam LMSSD, frequency assignment
1 521.5 MHz with maximum power density
 \geq -43.1 dBW/Hz and maximum peak power \geq -1
dBW

UNFAVOURABLE

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

Steerable beam K4D, frequency assignments in
the 13 400 – 13 650 MHz band with maximum
power density \geq -55.9 dBW/Hz and maximum
peak power \geq -5.5 dBW

UNFAVOURABLE

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

**OBSERVACIONES DE LA OFICINA DE
RADIOCOMUNICACIONES**

Relativas a la Conclusión según N.º 11.31

Asignación de frecuencia 1 472 MHz

DESFAVORABLE

Los sistemas de radiodifusión por satélite sólo pueden utilizarse con sujeción al límite superior de 25 MHz de la banda 1 452 – 1 492 MHz (véase el número 5.345 y la Resolución 528).

Haz fijo LMSSD, asignación de frecuencia
1 521.5 MHz con una densidad máxima de
potencia \geq -43.1 dBW/Hz y un valor máximo de la
potencia de cresta \geq -1 dBW

DESFAVORABLE

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

Haz orientable K4D, asignaciones de frecuencia
en la banda 13 400 – 13 650 MHz con una
densidad máxima de potencia \geq -55.9 dBW/Hz y
un valor máximo de la potencia de cresta \geq -5.5
dBW

DESFAVORABLE

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

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。

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.

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. 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. Потребности в координации на уровне группы

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 الخبذة وفقاً للرقم 9.7 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 دلّتا T/T	Arc de coordination 协调弧	Coordination Arc Дуга координации	Arco de coordinación قوس التنسيق			
C1U	R	117673811	5				CYP F G IND ISR J KOR LAO LUX RUS TON UAE VTN QAT					
		117673812	5				CYP F G IND ISR J KOR LAO LUX RUS TON UAE VTN QAT					
		117673813	5				CYP F G IND ISR J KOR LAO LUX RUS TON UAE VTN QAT					
		117673814	5				CYP F G IND ISR J KOR LAO LUX RUS TON UAE VTN QAT					
		117687838	6				CYP F G IND ISR J LAO LUX QAT TON UAE VTN RUS					
		117687839	6				CYP F G IND ISR J LAO LUX QAT TON UAE VTN RUS					
		117687840	6				CYP F G IND ISR J LAO LUX QAT TON UAE VTN RUS					
		117687841	6				CYP F G IND ISR J LAO LUX QAT TON UAE VTN RUS					
IS1R	R	117673840	54									
		117673841	59	ISR	UAE							

II. Liste des réseaux à satellite (voir N° 9.36.2)
 二、卫星网络清单(见第9.36.2款)

II. List of satellite networks (see No. 9.36.2)
 II. Список спутниковых сетей (см. п. 9.36.2)

II. Lista de redes de satélite (véase el N.º 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 تتقاسم نطاق التردد نفسه في اتجاه الإرسال نفسه) أو التي تدخل ضمن قوس التنسيق (بموجب الرقم

(7.9)

A1f1 Notifying 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	R	
		ALCOMSAT-27.6W	27.6 W	C	A	114520218	C	R	
ARG		ARSAT-C	81 W	C	A	110520406	C	R	
		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	
		ARSAT-H	38.5 W	C	A	115520103	C	R	
		P-P-SAT-1	81 W	N	A	105500330	C		

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 تتقاسم نطاق التردد نفسه في اتجاهي الإرسال المتعاكسين (استخدام ثنائي الاتجاه)) (بموجب الرقم 7.9)

A1f1 Notifying 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
ARS	ARB	ARABSAT 8C-20E	20 E	C	A	113520016		R
		ARABSAT 8D-7.5E	7.5 E	C	A	113520017	C	R
		ARABSAT 8G-11E	11 E	C	A	113520020	C	R
		ARABSAT 8H-17E	17 E	C	A	113520021	C	R
ARS	ARB	ARABSAT 8C-20E	20 E	C	A	113520016		R

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 مؤثر 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° 9.13 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 9.13
CIU	R	117687838	6	F IND		
		117687839	6	F IND		
		117687840	6	F IND		
		117687841	6	F IND		
KA1U	R	117673881	28	CAN CYP D F G	HOL LIE LUX NOR NZL RUS/IK RUS USA	
		117673884	28	CAN CYP D F G	HOL LIE LUX NOR NZL RUS/IK RUS USA	
		117673887	28	CAN CYP D F G	HOL LIE LUX NOR NZL RUS/IK RUS USA	
		117673890	28	CAN CYP D F G	HOL LIE LUX NOR NZL RUS/IK RUS USA	
S1U	R	117673832	1	AUS F G PNG SLM		
		117673833	1	AUS F G PNG SLM		
TKA1U	R	117673893	28	CAN CYP D F G	HOL LIE LUX NOR NZL RUS/IK RUS USA	
KA1D	E	117673855	18	CAN CYP D F G	HOL LIE LUX NOR RUS/IK RUS USA	
		117673859	18	CAN CYP D F G	HOL LIE LUX NOR RUS/IK RUS USA	
		117673863	18	CAN CYP D F G	HOL LIE LUX NOR RUS/IK RUS USA	
		117673867	18	CAN CYP D F G	HOL LIE LUX NOR RUS/IK RUS USA	
S1D	E	117673836	2	AUS F G NOR PNG SLM		
		117673837	2	AUS F G NOR PNG SLM		
TKA1D	E	117673878	18	CAN CYP D F G	HOL LIE LUX NOR RUS/IK RUS USA	

B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Administrations susceptibles d'être défavorablement influencées au titre du N° 9.14 潜在的受干扰的主管部门 9.14	Potentially affected administrations under No. 9.14 Администрации, потенциально затрагиваемые согласно № 9.14	Administraciones posiblemente afectadas según N.º 9.14 الإدارات التي يحتمل أن تتأثر بموجب الرقم 9.14
S1D	E	117673836	2	AFG ARS AUS/CHR AUS/HMD AUS/ICO AUS/NFK AUS	BGD BRM BRU BTN CBG CLN	
				F/AMS F/KER F/NCL F/OCE F/REU F/WAL FJI FSM G/DGA IND INS IRN J		
				KAZ KGZ KIR/PHX KIR KOR KRE LAO MAU/ROD MAU MHL MLA MLD MNG		
				NPL NRU NZL/CHK NZL/NIU NZL/TKL NZL OMA PAK PHL PLW PNG RUS SEY		
				SLM SMO SNG THA TJK TKM TLS TON TUV UAE USA/ALS USA/GUM USA/HWA		
				USA/HWL USA/JAR USA/JON USA/MDW USA/MRA USA/PLM USA/SMA USA/WAK UZB VTN VUT XZZ/XSP YEM		
		117673837	2	AFG ARS AUS/CHR AUS/HMD AUS/ICO AUS/NFK AUS	BGD BRM BRU BTN CBG CLN	

No more split of network for 21.4-22GHz BSS

- **21.4-22 GHz portion of a request for coordination has been removed and published in a separate special section (CR/F) with the satellite name with “_1”**
- **Splitting will stop for all requests for coordination received after 01.01.2017**
- **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**

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 in CR/C	9.7, 9.7A, 9.7B, Art7 of AP30/30A	Δ T/T, pfd mask, Band Overlap	Final
List of Adms in CR/C	9.7	Coordination Arc	Subject to request for inclusion or exclusion under Nos.9.41/9.42
List of Adms in CR/F	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

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**



RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE		NPOL-2		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2782 / 11.11.2014
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	AN	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	NGSO	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	13520282

	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	9.11A	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. 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.	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. 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.	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. 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.
X	9.12			
X	9.12A			
	9.13			
	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/3474 (BR IFIC 2765 / 18.03.2014)

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

Disposition / Provision / Disposición / 条款 / Положение / الحكم	Récapitulatif des coordinations à effectuer	Summary of coordination requirements	Resumen de los requisitos de
	协调要求概述	Сводные данные о будущей координации	مطلبات التنسيق
X 9.11A			
X 9.12	E, F, G, LUX, RUS, USA		
X 9.12A	ALG, ARM, ARS/ARB, ARS, AUS, B, BGD, BUL, CHN, CTI/RAS, CYP, CZE, D, E, EGY, F, G, GRG, HOL, I, IND, INS, IRN, ISR, J, KAZ, NOR, PAK, PNG, QAT, RUS/IK, RUS, S, THA, TUR, UAE, USA, VTN		

Nécessité d'une coordination au niveau du groupe
在组的层次进行的协调 / Требования

Tableau II /

R1a Beam designation	R2 Emi-Rcp	BR7a Group id.	BR47 Frequency band (MHz)	
KAU1	R	113724117	27500.000 - 28500.000	G
		113724118	27500.000 - 28500.000	G
		113724119	27500.000 - 28500.000	G

CR/E Publication (No.9.42)

- **An Adm requests for inclusion or exclusion of adm/network as coordination requirement under Nos.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)**



RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		SAT-10		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2781 / 28.10.2014
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	ZE	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	34.5 E	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	13520303

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/3516 (BR IFIC 2768 / 29.04.2014)

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

Liste des réseaux à satellite pour lesquels Delta T/T est supérieur à 6% mais qui ne sont pas dans la liste de coordination.
List of satellite networks for which Delta T/T > 6% but are not in the coordination list.
Lista de redes de satélites para las cuales ΔT/T > 6% pero no se encuentran en la lista de coordinación.
Перечень спутниковых сетей, для которых Delta T/T > 6%, однако НЕ находится в пределах координационной дуги (согласно № 9.7)

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
CU1R	R	11373501	5 EGY	G	KOR	UAE	...
		11373502	5 EGY	G	KOR	UAE	...
		11373503	5 EGY	G	KOR	UAE	...
		11373504	5 EGY	G	KOR	UAE	...

قائمة الشبكات الساتلية التي تكون فيها النسبة $\Delta T/T < 6\%$ ولكنها ليست ضمن قوس التنسيق (موجب الرقم 7.9)

A1f1 Notifying 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
EGY		NAVISAT-11A	28.25 E	C	A	109520317	C	R
		NAVISAT-12A	35.5 E	C	A	109520318	C	R

Coordination Approach

Earth Station Coordination Procedure

Coordination

Inform concerned administrations of detailed 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)

Recording in MIFR

“ Assignments (final characteristics) have to be notified under Article 11 to be recorded in the MIFR for international recognition within the regulatory period”

Recording in MIFR

- 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 Nos11.32 and 11.32A
 - Requirement of No.11.41.2 (indication of coordination effort) and No.11.42 (elimination of harmful interference)
- **Bringing into use of assignments have 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.

Due Diligence

1. Resolution 49

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 Information required:

Annex 2 to Resolution 49

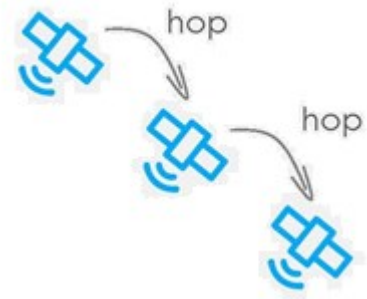
- A. Identity of the satellite network**
- B. Spacecraft manufacturer**
- C. Launch services provider**

Due Diligence

2. Resolution 552

Due Diligence – Res 552

- **Similar to Res 49 to some extent**
- **Applies to BSS in R1,R3 21.4-22G**
- **ITU-ID for new satellites**
- **DD is required for suspending shifting/deorbiting**
- **BR need not remind and cancel the network**



Resolution 40 (WRC-15) to increase transparency when one space station is used to bring into use assignments to GSO networks at different orbital locations within a short period of time

<http://www.itu.int/ITU-R/go/space-res40>

Suspension

- **Frequency Assignments can be suspended for a period of 3 years under No.11.49.**
- **BR has to 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 provision recording in the MIFR shall be cancelled**

Art 13 – Maintenance of MIFR

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

Summary

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

Thank you !