



ITU BR software for evaluating coordination requirements and the submission of comments on Bureau publications

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Kazakhstan, 5-7 September 2012

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- **Satellite systems coordination**
- **Radiocommunication Bureau to assist during coordination**
- **Comments submission under No. 9.52**
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Part 1



-
- **Satellite systems coordination**
 - Radiocommunication Bureau to assist during coordination
 - Comments submission under No. 9.52
 - Comments submission under No. 9.41

Coordination in brief

The ITU logo is located in the top right corner of the slide. It features a stylized globe with a red lightning bolt striking it, and the letters 'ITU' in blue below it.

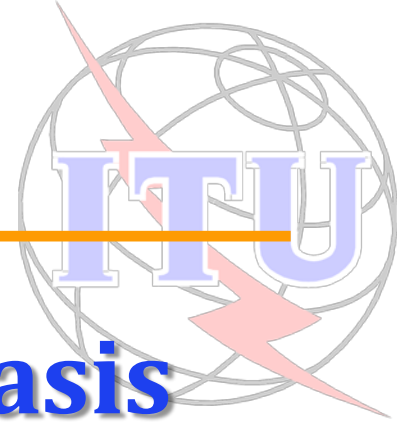
**Coordination is
required for
interference-free
operation**

**Coordination
procedure is contained
in Article 9 of Radio
regulations**

**Coordination process
formally starts with the
publication of the
coordination request for
satellite system**

**Comments
from
administrations**

... and coordination



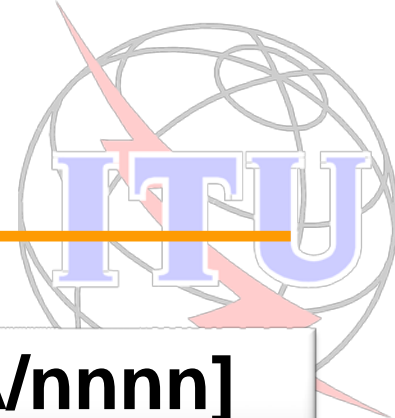
- **“First come, first serve” basis**
- **Obligatory NEGOTIATION between Administrations to arrive at interference-free operation**

Provisions of Radio Regulations



- **Planned** frequency assignments
 - Broadcasting satellite service
 - (Appendices 30 and 30A)
 - Fixed-satellite service
 - Appendix 30B
- **Non-planned** frequency assignments
 - Coordination and Notification procedures

Three stages



Submit → publish (priority is not established)

API [API/A/nnnn]

Art. 9



< 2 years

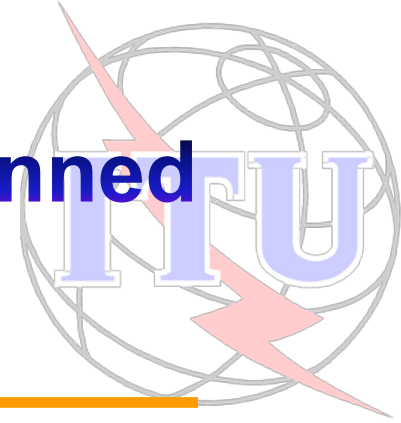
Request → Examine, Establish Findings & Coordination Requirements, Publish, Coordinate

**Coordination Article 9 –
Priority date Resolution
53**

< 7 years

Notify → Examine, Check Coordination Agreements, Establish findings, Publish & Record

Recording in **MIFR**
Article 11
(part II-S)



Procedures applicable to non-planned satellite networks

Article 9: Procedure for Effecting Coordination with or Obtaining Agreement of other Administrations

- contains (almost) all cases of coordination in non-planned bands for GSO and Non-GSO satellite networks, earth and terrestrial stations
- Article 9 do not contains
 - (1) coordination between non-planned and planned assignments which is in Art. 7 of Ap30 and Ap30A
 - (2) Certain BSS sound assignments in the 2.6 GHz band with respect to Terrestrial services (Res 539)
 - (3) non-planned BSS assignments for which API was received before 01.01.1999 (RS33)

Advance publication of information on satellite networks (Section I of Article 9)

The logo of the International Telecommunication Union (ITU) is located in the top right corner. It features a globe with a grid of latitude and longitude lines, and the letters 'ITU' in a stylized blue font across the center. A red lightning bolt is depicted striking the globe from the top right.

-
- Aim is to inform all administrations of any planned satellite network (GSO or Non-GSO) and its general description**
 - Formal mechanism for making initial assessment of the interference effects of that planned satellite network**

Advance publication Section I has two sub-sections – 1A and 1B



- **1A: Advance publication of information on satellite systems that are NOT subject to coordination procedure under Section II of Article 9**
- **1B: Advance publication of information on satellite systems that are SUBJECT to the coordination procedure under Section II of Article 9**

Advance Publication



- **Information to be communicated to the BR: AP4**
- **To be initiated: 2 - 7 years before the planned date of bringing into use of the network (or system) - 9.1**
- **BR publishes Special Section API/A**



Advance Publication must be restarted

In case of modifications of API relating to

- **Addition of new frequency bands**
- **GSO - orbital position change for more than \pm degree (No.9.2)**
- **NGSO (not subject to coordination) – modification of the reference body or the modification of the direction of transmission**

If no CR within 24 months from API receipt



Coordination

Article 9 is to be applied for coordination of GSO and Non-GSO networks in the following cases:

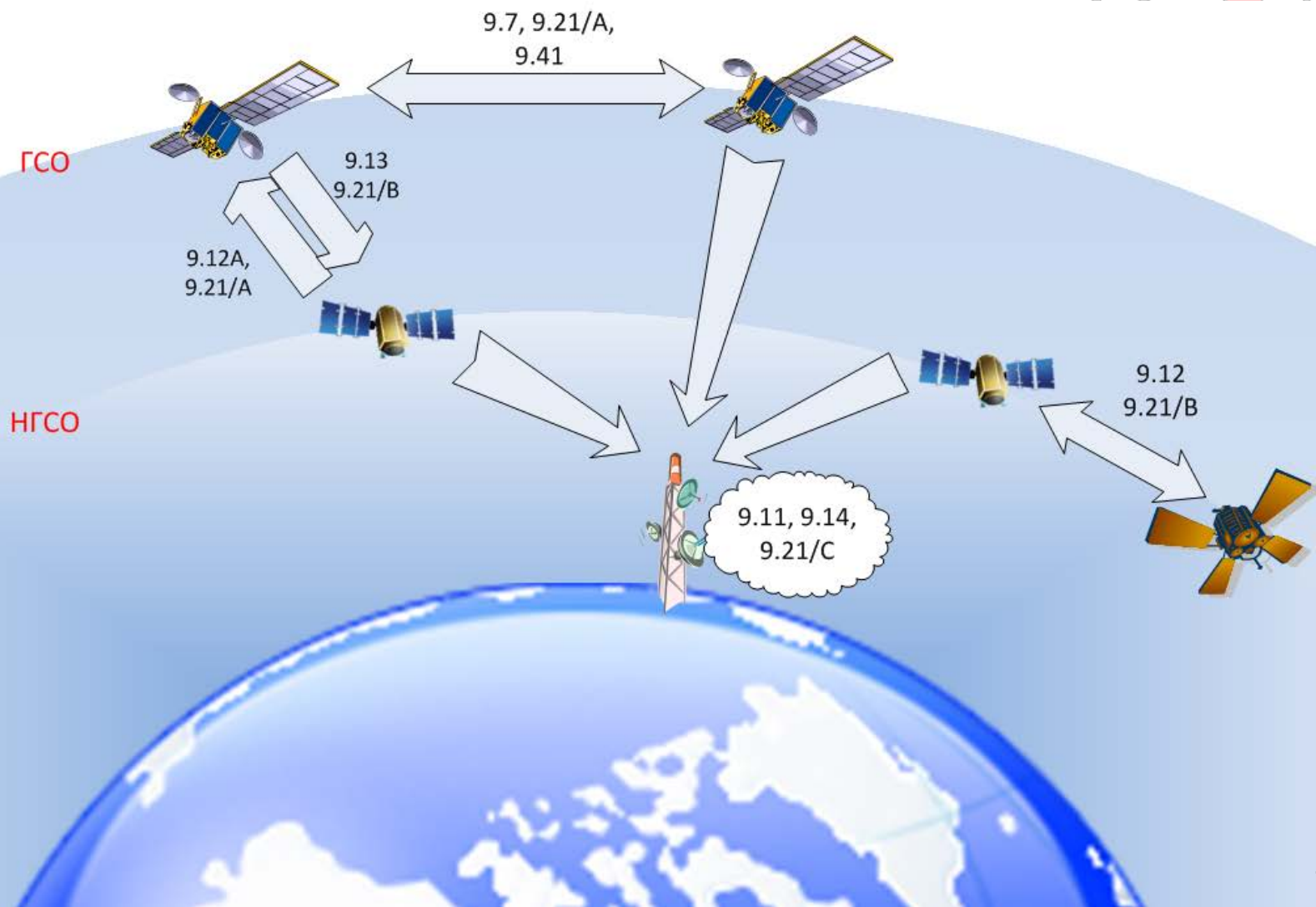
- **Between GSO networks - 9.7**
- **Between GSO and Non-GSO and between Non-GSO networks (in accordance with a footnote in the Table) - 9.12, 9.12A, 9.13**
- **Space station of a satellite network w.r. to stations of terrestrial services (in accordance with a footnote in the Table) where threshold value is exceeded - 9.14**



Coordination

- **space station in the BSS (non-planned) with respect to terrestrial services - 9.11 (Res.539)**
- **any station of a space service for which the requirement to seek the agreement of other administrations is included in a footnote to the Table - 9.21**

Satellite systems coordination provisions in non-planned bands





Coordination

- **in all these cases, request for coordination shall be sent by the requesting administration to the BR together with the appropriate information listed in Ap4 (9.30)**
- **simultaneous request for all applicable forms of coordination (9.23)**



Coordination

- **date of receipt of the coordination request must be => six months after the date of receipt of API (9.1)**
- **request for coordination must come within 24 months after the date of receipt of the advance information, otherwise restart API (9.5D)**



Coordination

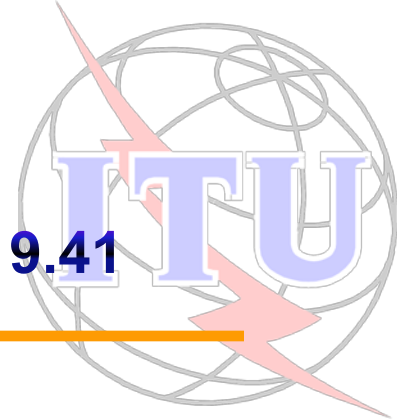
- **Appendix 5 contains criteria for identification of assignments to be taken into account in effecting coordination or seeking agreement**
- **Methods, threshold levels and conditions given in Tables 5-1 and 5-2 differ according to the specific cases of coordination (GSO/GSO, GSO/Non-GSO, Non-GSO/Non-GSO, GSO+Non-GSO with respect to terrestrial services)**



Coordination between GSO

No. 9.7

- Coordination arc for GSO FSS and GSO BSS in certain frequency bands
 - 3 400 – 4 200 MHz, 5 725 – 5 850 MHz etc.
(see Table 5-1 Appendix 5)
- $\Delta T/T > 6\%$ criterion (calculation method in Appendix 8)
 - Applicable to frequency bands where there is **no coordination arc applied**
 - For certain services, e.g. mobile-satellite service
- Determined coordination requirements include:
 - List of ADMINISTRATIONS (coordination required)
 - List of NETWORKS ~~for information only~~ (9.36.2)



Coordination between GSO

Addition of Administrations/Networks under No. 9.41

- Enables addition of networks/administrations in to the coordination process under Nos. 9.7, 9.7A, 9.7B:
 - applicable in the frequency bands where **coordination arc is applied**
 - $\Delta T/T > 6\%$ criterion (method in Appendix 8)
 - Allows inclusion of the networks located beyond coordination arc
- Determined coordination requirements include:
 - List of **additional** ADMINISTRATIONS (coordination required)
 - List of **additional** NETWORKS ~~for information only~~ (9.36.2)



Coordination Arc

TO REDUCE THE COORDINATION BURDEN ON ADMINISTRATIONS IN FREQ. BANDS WHERE MAJOR VOLUME OF NOTICES ARE RECEIVED BY THE BUREAU

COORDINATION IS TRIGGERED WITHOUT $\Delta T/T$ CALCULATIONS WHEN INCOMING AND EXISTING GSO NETWORKS :

- **BOTH USE NON-PLAN FSS / BSS / ASSOCIATED SPACE OPERATION**
- **CO-DIRECTIONAL OVERLAP IN CERTAIN FREQ. BAND(S) ABOVE 3.4 GHz**
- **LOCATED WITHIN A PRE-DETERMINED GSO ARC**

Coordination Arc



FREQ.BANDS

3 400-4 200 MHz
5 725-5 850 MHz (Region 1)
5 850-6 725 MHz
7 025-7 075 MHz

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)
13.75-14.5 GHz

Above 17.3 GHz

APPLICABLE COORD. ARC

Any **FSS / associated Space Operation** within **+/- 10°** of nominal orbital position of a proposed network in **FSS**

Any **FSS or BSS / associates Space Operation** within **+/- 9°** of nominal orbital position of a proposed **FSS or BSS** network

Any **BSS / associated Space Operation** (in frequency band 21.4-22 GHz, Regions 1 and 3) within **+/- 16°** of nominal orbital position of a proposed **BSS** network

Any **FSS / associated Space Operation** within **+/- 8°** of nominal orbital position of a proposed **FSS** network

Any **BSS / associated Space Operation** within **+/- 16°** of nominal orbital position of a proposed **BSS** network

Any **BSS / associated Space Operation** within **+/- 16°** of nominal orbital position of a proposed **FSS** network **& vice-versa**



$\Delta T/T$ use scenarios

- Measures noise temperature increase due to interference at receiver frontend
- Do not take into account:
 - Wanted signal
 - Spectrum shape of interference signal
- Requires further analysis for identifying probability if harmful interference (e.g. C/I)

Criteria for identifying affected administrations

Case of coordination under No. 9.7	Criteria for inclusion under No. 9.41
Coordination arc	$\Delta T/T=6\%$
$\Delta T/T=6\%$	N/A



Coordination under 9.11, 9.12, 9.12A, 9.13, 9.14

- **Requirement is contained in Article 5 (reference to 9.11A requires coordination under Nos. 9.12-9.16, if applicable)**
- **9.11 (BSS), 9.14 – satellite networks/terrestrial services**
 - **Frequency overlap, terrestrial station within service area, PFD thresholds, contained in RR (Article 5 and Appendix 5)**
- **9.12/9.13 – coordination between NGSO/GSO and GSO/NGSO:**
 - **Frequency overlap**
- **9.12A – coordination between NGSO/NGSO:**
 - **Frequency overlap**

Agreement seeking under No. 9.21



- **Requirement is contained in the footnotes of Article 5**
- **9.21/A - in relation to GSO networks**
 - **Frequency overlap**
- **9.21/B - in relation to NGSO networks**
 - **Frequency overlap**
- **9.21/C – in relation to terrestrial services :**
 - **Frequency overlap, terrestrial station within service area, PFD thresholds, contained in RR**



UNION INTERNATIONALE DES TELECOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMUNICACIONES

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RESEAU A SATELLITE SATELLITE NETWORK RED DE SATELITE		VINASAT-3B2		SECTION SPECIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	CR/C/1361
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2538 / 22.02.2005
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	VTN	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	103 E	NUMERO D'IDENTIFICATION IDENTIFICATION NUMBER NUMERO DE IDENTIFICACION	103520549
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL					30.12.2003

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° 9.35 y 9.36 y se publica de conformidad con el N° 9.38. Está sujeta al formulario de coordinación indicado en la columna de la izquierda con una X en la casilla correspondiente.

Type de coordination mentionné dans le Tableau I / Form of coordination referred to in Table I / Forma de coordinación mencionada en el cuadro I

<input checked="" type="checkbox"/> 9.7	Conformément aux numéros 9.50 à 9.52 du Règlement des radiocommunications, les Administrations identifiées dans le Tableau I ci-après sont priées de communiquer leur décision à l'Administration responsable et au Bureau avant la date limite indiquée ci-dessous.	In accordance with Nos. 9.50-9.52 of the Radio Regulations, the Administrations identified in Table I below are requested to communicate their decision to the Responsible administration and the Bureau by the deadline indicated below.	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.
<input type="checkbox"/> 9.7A			
<input type="checkbox"/> 9.7B			
<input type="checkbox"/> 9.42			
<input checked="" type="checkbox"/> AP30#7.1			
<input checked="" type="checkbox"/> AP30#7.1			
<input type="checkbox"/> RS77			
<input type="checkbox"/> RS84			
<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	Les Administrations, énumérées ou non-énumérées dans le Tableau II ci-après, qui n'acceptent pas la demande de coordination au titre des numéros 9.11 à 9.14, 9.21 et RS33#2.1, sont priées de communiquer leurs observations à l'Administration responsable et au Bureau avant la date limite indiquée ci-dessous. Toute Administration qui ne réagira pas au titre du numéro 9.52 avant cette date limite sera considérée comme n'étant pas défavorablement influencée et, dans les cas couverts par les numéros 9.11 à 9.14 et RS33#2.1, les dispositions des numéros 9.48 et 9.49 s'appliqueront.	Administrations listed or not listed in Table II below, which do not agree to the request for coordination under Nos. 9.11 to 9.14, 9.21 and RS33#2.1 are requested to communicate their comments to the responsible administration and the Bureau by the deadline indicated below. Any administration not responding under No. 9.52 within this deadline shall be regarded as unaffected and, in the cases of Nos. 9.11 to 9.14 and RS33#2.1, the provisions of Nos. 9.48 and 9.49 shall apply.	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.
<input checked="" type="checkbox"/> 9.11A			
<input type="checkbox"/> 9.12			
<input type="checkbox"/> 9.12A			
<input checked="" type="checkbox"/> 9.13			
<input checked="" type="checkbox"/> 9.14			
<input checked="" type="checkbox"/> 9.21/A			
<input checked="" type="checkbox"/> 9.21/B			
<input checked="" type="checkbox"/> 9.21/C			
<input type="checkbox"/> RS33#2.1			

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

22.06.2005

Tableau I / Table I / Cuadro I / 表一 / Таблица I / الجدول I			
Disposition / Provision / Disposición / 条款 / Положение / الحكم		Résumé des conditions régissant la coordination	Summary of coordination requirements
		协调要求概述	Сводные потребности в координации
			موجز متطلبات التنسيق
X	9.7	ARS/ARB, ARS, AUS, BEL, BLR/K, BRU, CAN, CHN, CYP, D, E, EGY, F/ESA, F/EUT, F, G, GHA, HNG, HOL, I, IND, INS, J, KOR, LAO, LUX, MEX, MLA, NZL, PAK, PHL, PNG, RUS, SEY, SNG, THA, TON, TUR, UAE, UKR, USA	
	9.7A		
	9.7B		
	9.42		
X	AP30W7.1	AFS, ARM, ARS/ARB, ARS, AZE, BDI, BHR, BOT, BUL, CAF, COM, ERI, F/EUT, F, G, ISR, KEN, KWT, LUX, MAU, MDA, MNG, NMB, OMA, PSE, RUS, S, SDN, SEY, SOM, SYR, TJK, TKM, TUR, TZA, UAE, UGA, ZMB	
X	AP30AW7.1		
	RS77		
	RS84		
	RS539		
	RS33W3		

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)	Potentially affected administrations (for information only, see No. 9.36.1)	Administraciones posiblemente afectadas (sólo para información, véase el N° 9.36.1)
		可能受影响的主管部门(仅供参考, 见第 9.36.1款)	Потенциально затрагиваемые администрации (исключительно для информации, см. п. 9.36.1)	إدارات محتمل أن تتأثر سلباً غير موات (انظر الرقم 9.36.1، على سبيل الامتلاخ فقط)
X	9.11	AFSMRN, AFS, AGL, ARM, ARS, AUS/NFK, AUS*, AZE, BDI, BHR, BLR, BOT, BUL*, CAF, COD, CYP, EGY*, ERI, ETH, F/CRO, F/MYT, F/NCL, F/REU, FJI, GEO, GRC*, INS, IRN*, IRQ, ISR, J, JOR, KAZ, KEN, LBN, LBY, LSO, MDA, MOZ, MWI, NMB, NZL*, OMA, PNG, QAT, ROU, RRW*, RUS*, SDN, SWZ, SYR*, TCD, TUR, TZA, UAE, UGA, UKR*, USA/ALS, YEM, ZMB, ZWE		
X	9.11A			
		9.12		
		9.12A		
	X	9.13	AUS, D, F, J, KOR, LUX, MLA, RUS, USA	
	X	9.14	AFSMRN, AFS, AGL, ARM, ARS*, AUS/NFK, AUS*, AZE, BDI, BLR*, BOT, BUL, CAF, CHN/HKG, COD, CYP, EGY, ERI, ETH, F/NCL, F/WAL, FJI, FSM, GEO, GRC, INS, IRN, IRQ, ISR, JOR, KAZ, KEN, KIR, LBN, LBY, LSO, MDA, MHL, MOZ, MWI, NMB, NZL, ROU, RRW, RUS, SDN, SWZ, SYR, TCD, TUR, TUV, TZA, UGA, UKR, USA/HWL, VUT, ZMB, ZWE	
X	9.21/A ¹	ARS/ARB, ARS, AUS, BEL, BRU, CAN, CHN, CYP, D, E, F, G, HNG, HOL, I, IND, INS, J, KOR, LAO, LUX, MLA, NZL, PHL, RUS, SEY, SNG, TON, TUR, UAE, UKR, USA		
X	9.21/B ¹	AUS, J, KOR, MRC, RUS		
X	9.21/C ¹	AFS, ARM, ARS, AUS, AZE, BGD, BHR, BLR, BUL, CHN, CLN, COD, ETH/ERI, G/AFS, G/MLA, GEO, GRC, IND, INS, IRN, J, KAZ, KGZ, KOR, KRE, LAO, MDA, NZL, OMA, PAK, QAT, RUS, SNG, SYR, THA, TJK, TKM, TUR, UAE, UKR, USA/ALS, USA/BHR, USA/DGA, USA/GUM, USA/HWA, USA/MDW, USA/PHL		
	RS33#2.1			

*Les Administrations énumérées disposent d'une assignation aux services de Terre avec chevauchement inscrite dans le Fichier de référence international des Fréquences.

*The listed Administrations have an overlapping terrestrial assignment recorded in the MIFR.

*Las administraciones enumeradas tienen una asignación terrenal superpuesta inscrita en el Registro Internacional de Frecuencias.

*列表中的主管部门与频率登记总表中记录的陆地指配重叠

*Перечисленные выше администрации имеют присвоение наземным станциям с перекрытием, записанным в Международном справочном регистре частот.

*معلومات للإدارات المدرجة ترد تحت تخصيص لخدمات الأرض متراكب ومسجل في السجل الأساسي الدولي للترددات.

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 Nº 9.21, administraciones con redes OSG, redes no OSG y estaciones terrestres, respectivamente.

¹ 9.21/A, 9.21/B 和 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台站的主管部门

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

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

OBSERVATIONS DU BUREAU DES RADIOCOMMUNICATIONS	RADIOCOMMUNICATION BUREAU COMMENTS	OBSERVACIONES DE LA OFICINA DE RADIOCOMUNICACIONES
<u>Relatives à la Conclusion conformément au Nº 11.31</u>	<u>Relating to the Findings with respect to No. 11.31</u>	<u>Relativas a la Conclusión según N.º 11.31</u>
<u>Faisceau CLDR, assignments de fréquence 3 405, 3 410, 3 415 et 3 420 MHz, classe de station EG, EI</u> DEFAVORABLE Hors bande (non conforme au Tableau d'attribution des bandes de fréquences).	<u>Beam CLDR, frequency assignments 3 405, 3 410, 3 415 and 3 420 MHz, class of station EG, EI</u> UNFAVOURABLE Out-of-band (not in accordance with the Table of Frequency Allocations).	<u>Haz CLDR, asignaciones de frecuencia 3 405, 3 410, 3 415 y 3 420 MHz, clase de estación EG, EI</u> DESFAVORABLE Fuera de banda (no se ajustan al Cuadro de Atribución de Bandas de Frecuencias).
<u>Faisceau CLUR, assignments de fréquence dans la bande 7 025.5 – 7 074.5 MHz, classe de station EG, EI</u> DEFAVORABLE Hors bande (non conforme au Tableau d'attribution des bandes de fréquences).	<u>Beam CLUR, frequency assignments in the 7 025.5 – 7 074.5 MHz band, class of station EG, EI</u> UNFAVOURABLE Out-of-band (not in accordance with the Table of Frequency Allocations).	<u>Haz CLUR, asignaciones de frecuencia en la banda 7 025.5 – 7 074.5 MHz, clase de estación EG, EI</u> DESFAVORABLE Fuera de banda (no se ajustan al Cuadro de Atribución de Bandas de Frecuencias).
<u>Faisceaux VU3R et VU4R, assignments de fréquence dans la bande 71 000 – 95 000 MHz, classe de station EC, ED</u> DEFAVORABLE Hors bande (non conforme au Tableau d'attribution des bandes de fréquences).	<u>Beams VU3R and VU4R, frequency assignments in the 71 000 – 95 000 MHz band, class of station EC, ED</u> UNFAVOURABLE Out-of-band (not in accordance with the Table of Frequency Allocations).	<u>Haces VU3R y VU4R, asignaciones de frecuencia en la banda 71 000 – 95 000 MHz, clase de estación EC, ED</u> DESFAVORABLE Fuera de banda (no se ajustan al Cuadro de Atribución de Bandas de Frecuencias).

Faisceau KD2R, assignations de fréquence dans la bande 12 200 – 12 500 MHz avec une densité maximale de puissance =-53 dBW/Hz

FAVORABLE

Note: La conclusion est fondée sur la Règle de Procédure du Comité du Règlement des Radiocommunications et son annexe concernant le numéro 21.16.

Faisceau KD3R, assignations de fréquence dans la bande 12 500 - 12 720 MHz et assignation de fréquence 12 730 MHz avec une densité maximale de puissance =-53 dBW/Hz

FAVORABLE

Note: La conclusion est fondée sur la Règle de Procédure du Comité du Règlement des Radiocommunications et son annexe concernant le numéro 21.16.

Faisceau HD1R, assignations de fréquence 17 760, 17 880, 18 000, 18 120 MHz et assignations de fréquence dans les bandes 18 180 – 18 780 et 18 780 – 19 740 MHz avec une densité maximale de puissance \geq 55 dBW/Hz

FAVORABLE

Note: La conclusion est fondée sur la Règle de Procédure du Comité du Règlement des Radiocommunications et son annexe concernant le numéro 21.16.

Beam KD2R, frequency assignments in the 12 200 – 12 500 MHz band with maximum power density =-53 dBW/Hz

FAVOURABLE

Note: The finding is based on the Radio Regulations Board Rule of Procedure and its annex concerning No. 21.16.

Beam KD3R, frequency assignments in the 12 500 – 12 720 MHz band and frequency assignment 12 730 MHz with maximum power density =-53 dBW/Hz

FAVOURABLE

Note: The finding is based on the Radio Regulations Board Rule of Procedure and its annex concerning No. 21.16.

Beam HD1R, frequency assignments 17 760, 17 880, 18 000, 18 120 MHz and frequency assignments in the 18 180 – 18 780 and 18 780 – 19 740 MHz bands with maximum power density \geq 55 dBW/Hz

FAVOURABLE

Note: The finding is based on the Radio Regulations Board Rule of Procedure and its annex concerning No. 21.16.

Haz KD2R, asignaciones de frecuencia en la banda 12 200 – 12 500 MHz con una densidad máxima de potencia =-53 dBW/Hz

FAVORABLE

Nota: La conclusión se funda en la Regla de procedimiento de la Junta del Reglamento de Radiocomunicaciones y su anexo con respecto al número 21.16.

Haz KD3R, asignaciones de frecuencia en la banda 12 500 – 12 720 MHz y asignación de frecuencia 12 730 MHz con una densidad máxima de potencia =-53 dBW/Hz

FAVORABLE

Nota: La conclusión se funda en la Regla de procedimiento de la Junta del Reglamento de Radiocomunicaciones y su anexo con respecto al número 21.16.

Haz HD1R, asignaciones de frecuencia 17 760, 17 880, 18 000, 18 120 MHz y asignaciones de frecuencia en las bandas 18 180 – 18 780 y 18 780 – 19 740 MHz con una densidad máxima de potencia \geq 55 dBW/Hz

FAVORABLE

Nota: La conclusión se funda en la Regla de procedimiento de la Junta del Reglamento de Radiocomunicaciones y su anexo con respecto al número 21.16.

I. Nécessité d'une coordination au niveau du groupe I. Coordination requirements at group level
 一、在组的层次进行的协调 I. Потребности в координации на уровне группы

I. Requisitos de coordinación a nivel de grupo
 ١. 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 Дельта T/T	Delta T/T Дельта T/T	Delta T/T دلتا T/T	Arc de coordination 协调弧	Coordination Arc Дуга координации	Arc de coordinación قوس لتسيق		
CLR	R	103653546	7				AUS				
		103653547	7				AUS				
		103653548	7				AUS				
CU1R	R	103653319	5				AUS CHN INS J PNG RUS	G KOR SMG	HOL LAO THA	IND MLA USA	
		103653320	5				AUS CHN INS J PNG RUS	G KOR SMG	HOL LAO THA	IND MLA USA	
		103653321	5				AUS CHN INS J PNG RUS	G KOR SMG	HOL LAO THA	IND MLA USA	
		103653328	5				AUS CHN INS J PNG RUS	G KOR SMG	HOL LAO THA	IND MLA USA	
		103653339	5				AUS CHN INS J PNG RUS	G KOR SMG	HOL LAO THA	IND MLA USA	
CU2	R	103653346	5				AUS CHN INS J PNG RUS	G KOR SMG	HOL LAO THA	IND MLA USA	
		103653347	5				AUS CHN INS J PNG RUS	G KOR SMG	HOL LAO THA	IND MLA USA	
		103653348	5				AUS CHN INS J PNG RUS	G KOR SMG	HOL LAO THA	IND MLA USA	
		103653349	5				AUS CHN INS J PNG RUS	G KOR SMG	HOL LAO THA	IND MLA USA	

CR/C/1361

II. Liste des réseaux à satellite
(à titre d'information uniquement, voir N° 9.36.2)
二、卫星网络清单(仅供参考, 见第9.36.2款)

II. List of satellite networks
(for information only, see No. 9.36.2)
II. Список спутниковых сетей(исключительно для информации, см. п. 9.36.2)

II. Lista de redes de satélite
(sólo para información, véase el N.º 9.36.2)
II. قائمة بالشبكات الساتلية (انظر الرقم 2.36.9 للعلم فقط)

Liste des réseaux à satellite pour lesquels Delta T/T > 6% ou 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% or which are within the coordination arc (under No. 9.7)

Lista de redes de satélite para las que Delta T/T > 6% o que están dentro del arco de coordinación (según N.º 9.7)

Delta T/T > 6% 的卫星网络清单或位于协调弧内的卫星网络清单 (依据 9.7)

Список спутниковых сетей, для которых Дельта T/T > 6% или которые находятся внутри дуги координации (согласно № 9.7)

قائمة بالشبكات الساتلية التي تكون فيها قيمة دلتا T/T < 6% أو التي تقع داخل 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	BR28 Detected by coord. arc
ARE	ARB	ARABSAT 1-B	26 E	N	A	90500092	C		
		ARABSAT 1-C	31 E	C	A	90500093	C	R	
		ARABSAT 1-C	31 E	N	A	91910032	C		
		SAUDI-FMES-1	52 E	C	A	96520302	C	R	
		SAUDI-FMES-2	20.1 E	C	A	96520301	C	R	
		SAUDI-FMES-3	29 E	C	A	97520378	C	R	
AUS		SAUDI-FMES-4	41 E	C	A	97520379	C	R	
		ADF 152E GOV	152 E	C	A	102520060	C	R	
		ADF 156E GOV	156 E	C	A	102520061	C	R	
		ADF 160E GOV	160 E	C	A	102520062	C	R	
		ADF 164E GOV	164 E	C	A	102520063	C	R	
		ASIABSS	105 E	C	A	96520117	C	R	A
		ASIABSS	105 E	N	A	99500259	C	R	A
		AUSSEAT B 152E MOB	152 E	C	A	95520090	C	R	
		AUSSEAT B 152E MOB	152 E	N	A	102500305	C	R	
		AUSSEAT B 152E MXL	152 E	C	A	95520091	C	R	
		AUSSEAT B 152E MXL	152 E	N	A	102500306	C	R	
		AUSSEAT B 156E MOB	156 E	C	A	91980030	C	R	
		AUSSEAT B 156E MOB	156 E	N	A	100500278	C	R	
		AUSSEAT B 156E MXL	156 E	C	A	92520089	C	R	
		AUSSEAT B 156E MXL	156 E	N	A	102500358	C	R	
		AUSSEAT B 160E MOB	160 E	C	A	91980026	C	R	
		AUSSEAT B 160E MOB	160 E	N	A	101500088	C	R	
		AUSSEAT B 160E MXL	160 E	C	A	92520090	C	R	
		AUSSEAT B 160E MXL	160 E	N	A	102500359	C	R	
		AUSSEAT B 164E MOB	164 E	C	A	91980031	C	R	
AUSSEAT B 164E MOB	164 E	N	A	103500076	C	R			

CR/C/1361



BR COMMENTS – Coordination Requirements (No.9.36)

CR/C

- **Applicable forms of COORD (page 1,2)**
- **Summary of COORD Requirements, per form of coord – List of Admins (p. 3,4)**

Last part of CR/C

- **Detailed COORD requirements (Admins) for each group of frequency assignments**
- **List of networks identified ~~(for info only)~~**



Coordination

- **The list of ADMINs identified under 9.7 and Article 7 of Appendices 30 and 30A, as a result of Coordination Arc, DeltaT/T or PFD mask, is the formal list of administrations with which coordination is required**
- **Coordination Arc results: 9.41/9.42, inclusion, exclusion (4 months)**
- **Four months for comments**



Coordination – action by administrations

- 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:
 - **9.51.9.51A** - its agreement to the proposed use, or
 - **9.52** - its disagreement, giving reasons for the disagreement



Coordination – action by administrations

- **9.41** – request for coordination under Nos. 9.7, 9.7A, 9.7B
- **9.52C** - For coordination requests under 9.11 (Res.33, w.r. to terrestrial services), 9.12 to 9.14 and 9.21, the absence of disagreement within the 4-month period means agreement (9.52C) !!!
- SpaceCom



Coordination – Action by Bureau

- **Checking of received comments**
- **Verification of coordination requirements and publication**
 - **CR/D (9.52)**
 - **CR/E (9.41)**
 - **API/B...**

Part 2



-
- Satellite systems coordination
 - **Radiocommunication Bureau to assist during coordination**
 - Comments submission under No. 9.52
 - Comments submission under No. 9.41



ITU BR Software to assist in coordination

- **GIBC**
- **GIMS**
- **SpaceCom**

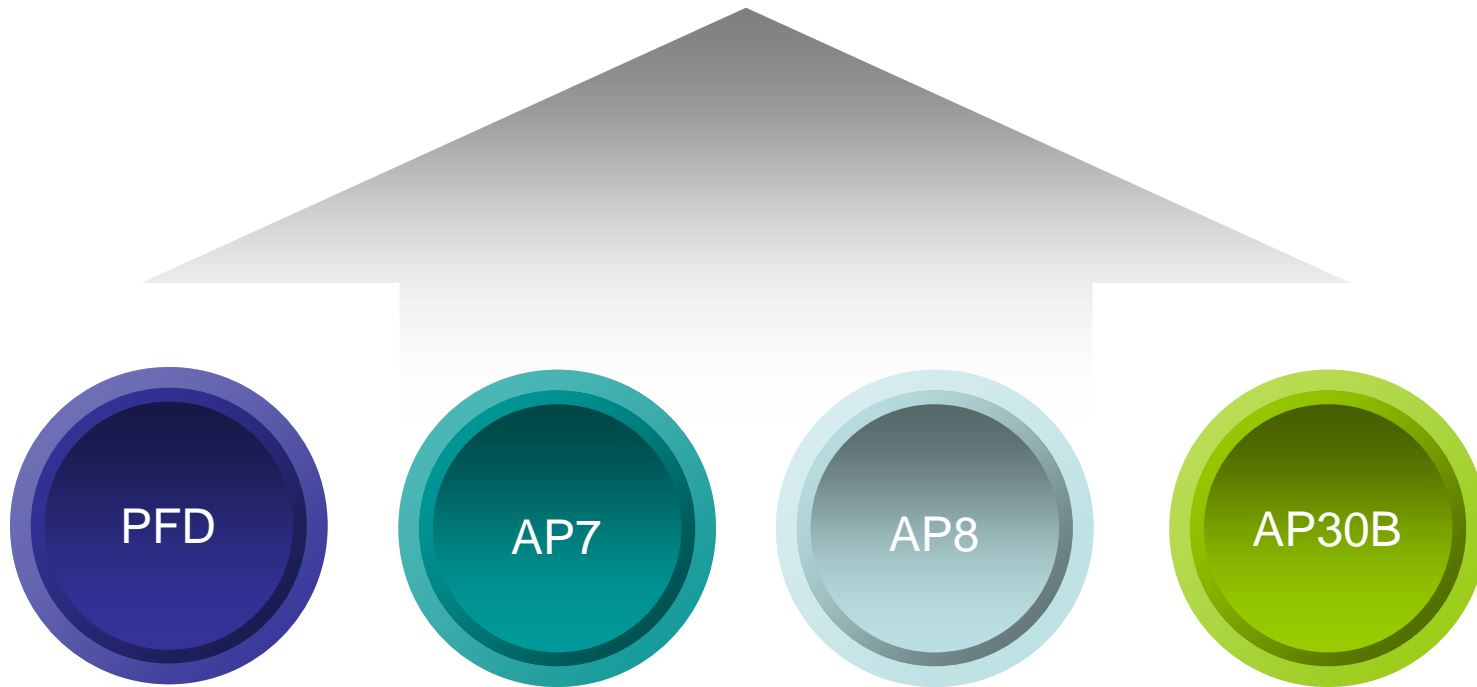


Web page: <http://www.itu.int/itu-r/software/space/spacecom>

Software for technical examination



GIBC – Graphical interface for batch calculations

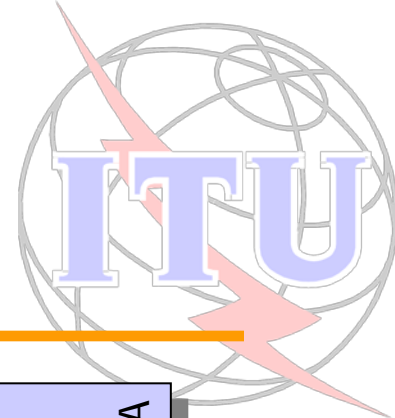




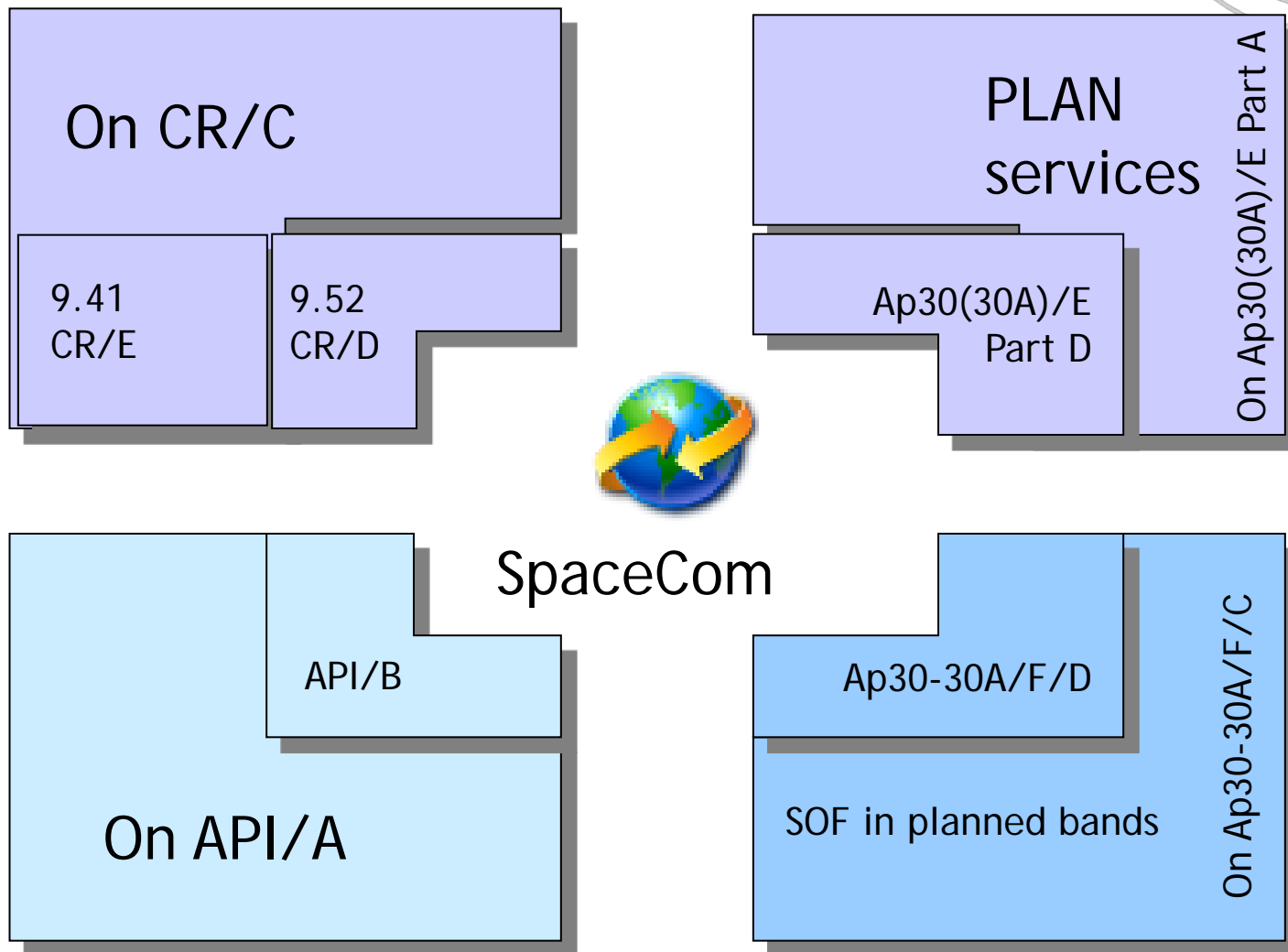
-
- **Technical Examination tools for the determination of coordination requirements on:**
 - **Satellite Networks, based on:**
 - **PFD (Power Flux Density)**
 - **Noise temperature increment & Coordination Arc.**
 - **Earth Stations, based on:**
 - **Determination of the Coordination Area**



- **Assists administrations and BR in the management of the comments on:**
 - **CR/C**
 - **API/A**
 - **AP30/E, AP30A/E, AP30-30A/E Part A**
 - **AP30-30A/F/C**



Comments submissions using SpaceCom





SpaceCom

- **Users:**
 - **Potentially affected administrations**
 - **Operators**
 - **Notifying administration**
 - **Radiocommunication Bureau**
- **Main instrument - IFIC**



SpaceCom

- **SpaceCom is not intended:**
 - **For objections under No. 9.52 relating to coordination in accordance with 9.7**
 - **For sending agreement on coordination requests**

BR Циркулярные письма

CR/D

RUS

[Распечатать содержание](#)

Русский



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES
OFICINA DE RADIOCOMUNICACIONES

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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		INTERSPUTNIK-16W-4		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	CR/C/3142
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2726 / 21.08.2012
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	RUS/IK	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	16 W	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	112520069
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL					02.02.2012

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

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

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

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

DATE LIMITE POUR LA DÉCISION / EXPIRY DATE FOR DECISION / FECHA LÍMITE PARA LA DECISIÓN	21.12.2012
--	-------------------

Tableau I /Table I /Cuadro I /表一 /Таблица I / I الجدول				
Disposition / Provision / Disposición / 条款 / الحوكمة /		Résumé des conditions régissant la coordination	Summary of coordination requirements	Resumen de los requisitos de coordinación
		协调要求概述	Сводные потребности в координации	معجم متطلبات التنسيق
X	9.7	ARG, ARS/ARB, ARS, AUS, B, BEL, BGD, BUL, CAN, CHN, CLM, CTI/RAS, CYP, CZE, D, E, EGY, F/EUT, F, G, GRC, HOL, I, INS, ISR, J, KOR, LUX, MLA, NIG, NOR, PAK, PNG, QAT, RUS, S, THA, TUR, UAE, USA, VTN		
	9.7A			
	9.7B			
X	AP30#7.1	AGL, ALG, AUT, BEN, CAF, CME, COD, COG, CTI, CZE, D, DN, GHA, GNE, HNG, HRV, LBY, LIE, LUX, MLI, MNE, MRC, NIG, NMB, PSE, QAT, S, SDN, SRB, STP, SUI, SVK, TUN, UAE		
X	AP30A#7.1	ALG, AUT, B, BEN, BUL, CAF, CAN, CHN, COG, CTI, PSE, QAT, S, SRB, STP, SUI, SVK, TUN, UAE, USA		
	RS539			
	RS33#3			

9.41
CR/E



Tableau II / Table II / Cuadro II / 表二 / Таблица II / II الجدول				
Disposition / Provision / Disposición / 條款 / Положение / الحكم		Administrations susceptibles d'être défavorablement influencées (à titre d'information uniquement, voir numéro 9.36.1)	Potentially affected administrations (for information only, see No. 9.36.1)	Administraciones posiblemente afectadas (sólo para información, véase el N° 9.36.1)
		可能受影响的主管部门(仅供参考, 见第 9.36.1款)	Потенциально затрагиваемые администрации (исключительно для информации, см. п. 9.36.1)	إدارات يُحتمل أن تتأثر تأثيراً غير موات (انظر الرقم 1.36.9، على سبيل الإطلاع فقط)
	9.11			
X	9.11A			
	9.12			
	9.12A			
X	9.13	D, F, G, USA		
X	9.14			
X	9.21/A ¹	ARG, ARS/ARB, ARS, AUS, B, BEL, BGD, CAN, CHN, CLM, CYP, D, E, EGY, F, G, GRC, I, INS, ISR, J, KOR, LUX, MLA, NOR, PAK, PNG, QAT, RUS, S, THA, TUR, UAE, USA, VTN		
X	9.21/B ¹			
X	9.21/C ¹	ARG, ARM, ARS, AZE, BEL, BLR, BUL, CAN, CHL, CUB, CZE, D, E, F, G, GRC, HNG, HRV, I, IRL, IRN, KAZ, LTU, MDA, MEX, MRC, PNR, PRG, RUS, S, SEN, SVK, SVN, SYR, UKR, USA/PTR, USA		
	RS33#2.1			

¹ 9.21/A, 9.21/B et 9.21/C – au titre du numéro 9.21, administrations ayant des réseaux OSC.

¹ 9.21/A, 9.21/B and 9.21/C – Under No. 9.21, administrations with GSO networks.

¹ 9.21/A, 9.21/B y 9.21/C – De conformidad con el N° 9.21, administraciones con

¹ 9.21/A, 9.21/B 和 9.21/C – 根据第9.21款, 分别为有对地静止卫星轨道网络、非

¹ 9.21/A, 9.21/B и 9.21/C – в соответствии с п. 9.21 администрации, имеющие

ت مستقرة بالنسبة إلى الأرض وشبكات غير مستقرة بالنسبة إلى الأرض ومحطات للأرض على التوالي.

9.52/9.53A
CR/D

Part 3



-
- Satellite systems coordination
 - Radiocommunication Bureau to assist during coordination
 - **Comments submission under No. 9.52**
 - Comments submission under No. 9.41



CR/D Publication preparation

- **4 stages**
 - **Comments preparation on CR/C**
 - **Draft CR/D preparation**
 - **Comments on draft CR/D**
 - **Validation and publication of CR/D**



Preparation of comments on CR/C

- **Potentially affected administrations determine whether they are really affected**
- **Comments are captured using SpaceCom**
- **Prepared comments are send to the Bureau and notifying administration**
- **Not later than 4 month from the date of publication of CR/C**



Draft CR/D preparation

- **Bureau examines received comments**
- **Prepares draft CR/D**
- **Publishes draft CR/D (sends to notifying and potentially affected administrations)**

BR IFIC 2726 / 21.08.2012

DVD-ROM\Databases\SpaceCom\draft_CRD

ADM	Sat_Name	CRC_No	Mod	IFIC_No / Date	SpaceCom_database File name
E	SECOMSAT-B1_22E	2834	1	2715/20.03.2012	IFIC2715_BR_CRC2834M1
ISR	AMS-CK-33W	3028		2715/20.03.2012	IFIC2715_BR_CRC3028
ISR	AMS-CK-43E	3029		2715/20.03.2012	IFIC2715_BR_CRC3029
RUS	CSDRN-M	1880	5	2716/03.04.2012	IFIC2716 BR CRC1880M5
MLA	MEASAT	3032		2716/03.04.2012	IFIC2716 BR CRC3032
LUX	LUX-G8-44	3033		2716/03.04.2012	IFIC2716_BR_CRC3033
QAT	QATARSAT-9	3034		2716/03.04.2012	IFIC2716_BR_CRC3034



Draft CR/D comments preparation

- **Notifying administration after receiving Draft CR/D, validates it**
- **Notifying administration may add disagreement of administrations, which were not received by the Bureau**
- **Sends validated draft CR/D to the Bureau**



Publication of CR/D

- **The Bureau publishes final CR/D with comments received from the notifying administrations on Draft CR/D, if appropriate**
- **The Bureau updates SNS**



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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		G4SAT-1		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º		CR/D/2135	
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA		2726 / 21.08.2012	
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE		CHN		LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL		82 E	
				NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN		111520127	

X	9.11	1. La présente Section spéciale est publiée conformément au numéro 9.53A du Règlement des radiocommunications, et concerne la demande de coordination publiée dans la section spéciale CR/C indiquée au bas de cette page. 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.	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. 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.	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. 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.
	9.11A			
	9.12			
	9.12A			
	X 9.13			
	9.14			
	9.21/A			
	9.21/B			
	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/2938 (BR IFIC 2702 / 06.09.2011)
--	--

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

Disposition / Provision / Disposición / 条款 / Положение / الحكم		Récapitulatif des coordinations à effectuer	Summary of coordination requirements	Resumen de los requisitos de coordinación
		协调要求概述	Сводные данные о будущей координации	ملخص متطلبات التنسيق
	9.11			
X	9.11A			
	9.12			
	9.12A			
X	9.13	D, F, G, USA		
	9.14			
	9.21A			
	9.21B			
	9.21C			
	RS33#2.1			

An example technical examination using GIBC



- 1** **Install GIMS and IDWM**
[path to IFIC]:\BR_Soft\GIMS\setup.exe
[path to IFIC]:\BR_Soft\IDWM\setup.exe
- 2** **Install GIBC**
[Path to IFIC]:\BR_Soft\GIBC\setup.exe
- 3** **Setup GIMS – path to GIMS-contour database**
[path to IFIC]:\Databases\GIMS_Data\grefdb2726.mdb

An example technical examination using GIBC



Gibc - Graphical Interface for Batch Calculations

Appendix 8 **3** PFD (terrestrial serv.) PFD (space serv.)
Appendix 7 Appendix 30B Appendix 30 30A Tools / Options **1**

Additional GIMS Databases

Database	Container Path
----------	----------------

Add... Clear List

SRS Database

C:\BR_SOFT\SRS_DB\srs2726.mdb **2** Browse...

Additional SRS DB Path Add Clear

EXIT Help



Results of PFD calculations for assessing coordination requirements under 9.14

- **By default the results of calculations are stored in the following folder:**
 - **C:\BR_TEX_RESULTS\PFD\[ntc_id]\[timestamp]**
 - **Where [ntc_id] is a notice number**
- **Results of calculations**
 - **PFD.LST**



PFD-calculation results

RR provision containing
thresholds

F 0 06.02.12 C 111.520306
.15 DEG 111.520306
EC 250000 KHZ 01.01.18 A- 111.674393
11.8 250000 KHZ 72M0G7W-- 21.0 DBW -55.3 DBW/HZ A- 0001

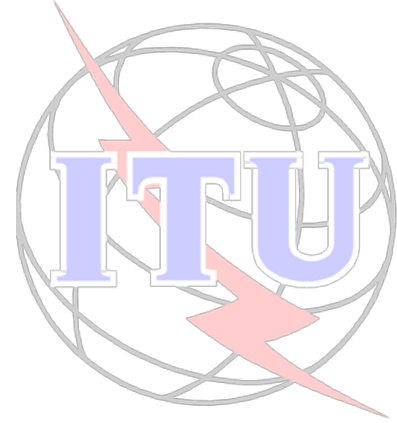
(22) RR 5.486 FIXED-SATELLITE
REF. BW 1.000MHZ
ALL WORLD EXCEPT MEX AND USA 042W09 61N58 GRL 38.5 -120.1 3.9 -124.0 N-
B 2.5 CAN 3.9 CPV 3.9 DNK/GRL 3.9 FJI 3.9
G/FLK 3.9 KIR 3.8 KIR/PHX 1.4 NZL/NIU 0.4
NZL 3.9 NZL/TKL 1.2 POR/AZR 3.9 RUS 3.8 SMO 1.4
TON 3.0 TUV 3.9 USA/HWL 3.1 USA / 0.6
.....

Threshold excess



Identifying affected administrations


To decide whether there is a need to object under No. 9.52 in relation to coordination with respect to 9.14, it is necessary to identify, if there are existing and/or planned terrestrial stations which could be affected by coordination request




SpaceCom Comments on CR/C for preparation of CR/D

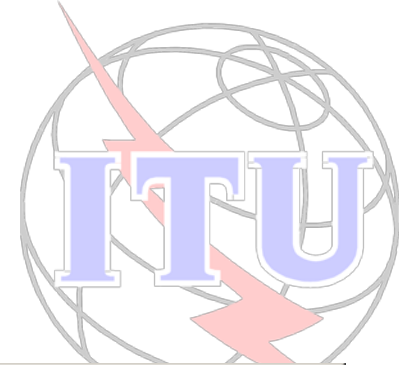
In action...

SpaceCom Template Selection




API/A	Manage comments for the publication of API/B Special Sections
CR/C	Manage comments for the publication of CR/D Special Sections
9.41 Request	Manage comments for the publication of CR/E Special Sections
AP30*/E Part A	Manage comments for the publication of Plan Part D of AP30/E, AP30A/E, AP30-30A/E Special Sections
AP30-30A/F/C	Manage comments for the publication of AP30-30A/F/D Special Sections

☒ Show this screen each time you launch SpaceCom
 



Who are you ?

☒ Potentially affected Administration (Commenting on a CR/C)


Operator 

☐ Notifying Administration (Confirming a draft CR/D database sent by the BR)

An administration willing to enter in the coordination process under Nos 9.11 to 9.14, 9.21 and RS33#2.1 shall within four months of the date of publication of the BR IFIC inform the requesting administration of its disagreement and shall provide information concerning its own assignments upon which that disagreement is based (No. 9.52)


An administration not responding under No. 9.52C within the same four month period shall be regarded as unaffected and, in the case of No. 9.11 to 9.14 the provisions of No's 9.48 and 9.49 shall apply.

Copy of the comments is to be sent electronically to the following Radiocommunication Bureau address: brmail@itu.int




Who are you ?

☐ Potentially affected Administration (Commenting on a CR/C)

Operator 

☒ Notifying Administration (Confirming a draft CR/D database sent by the BR)

Before proceeding with the publication of the information in a Special Section of the CR/D series, the Bureau request your Administration to kindly inform it of any additional comments concerning disagreements received from administrations, which may not have been copied to the Bureau, by updating accordingly the draft CR/D database using the SpaceCom software and return it to the Bureau by electronic mail (brmail@itu.int).



SpaceCom v6
File Options Help

Aff. ADM
Comment
Import
Validate/Send
View draft
Not. ADM
ITU BR

Potentially affected Administration's comments under No. 9.52

1. Input information to get a list of CR/C(s) to comment

BR IFIC No. / Date **1** 2726 / 21.08.2012 Expiry date for decision 21.12.2012

BR IFIC database D:\Databases\IFIC_Data\ific2726.mdb **2**

Administration code / network org. F /

Comments file location

Get list of CR/C(s)... **3**

2. Select a CR/C to comment and click 'Comment CR/C...'

	Notice id.	Special section	Rev.	No.	Adm.	Org.	Satellite network	Orb.Pos.	Identified by BR under No. 9.36.1	Comments completion	Comments last update
▶	112520069	CR/C/3142			RUS	IK	INTERSPUTNIK-16w-4	-16.00	F	✖	
	112520070	CR/C/3143			CAN		CANSAT(82w)-KA	-82.00	F	✖	
	112520073	CR/C/3144			PNG		PACIFISAT KA-75E	75.00	F	✖	

4 Your comments in the current BR IFIC are not valid please check all CR/C 's as completed

Comment CR/C... Create report

In case administration is already identified by the Bureau as affected (F – France submits the comments on CR/C)

SpaceCom v6

File Options Help

Aff. ADM

Comment

Import

Validate/Send

View draft

Potentially affected Administration's comments under No. 9.52

CR/C information

Provision	Special Section	Adm./ntwk. org.	Satellite network	Orb. pos.
9.21/A	CR/C/3142	RUS/K	INTERSPUTNIK-16W-4	-16.00

1. Select the Form of coordination to comment

Form of coordination	Coordination from	Coordination with respect to	Identified	Last update	Comments completed
9.13	GSO	NGSO	F	22.08.2012 ...	<input type="checkbox"/>
9.14	SS	TS		22.08.2012 ...	<input type="checkbox"/>
9.21/A	SS	GSO	F		<input checked="" type="checkbox"/>
9.21/B	SS	NGSO			<input type="checkbox"/>
9.21/C	SS	TS	F	22.08.2012 ...	<input type="checkbox"/>

2. Enter your comments on groups by clicking the relevant check box in column 'Confirm/Add/Remove'
If you do not click, it means that you do not wish to be included in coordination process

Beam	Emi./Rcp.	Group	Freq. min. (MHz)	Freq. max. (MHz)	Identified by BR or added by affected Adm.	Confirm / Add / Remove	Administration comments	Remarks
XR	R	112636352	7900.000	8025.000	F	<input type="checkbox"/>		
XT	E	112642270	7250.000	7375.000	F	<input checked="" type="checkbox"/>	a3) coordination requested	

3. Click 'Check Comments completed' when you have finished with all your entries on all provisions

Apply filter Clear filter

Not. ADM ITU BR

Select a new CR/C... Save ☒ Check Comments completed Create report

In case administration is not identified by the Bureau as affected (LUX – LUX submits the comments on CR/C)

SpaceCom v6

File Options Help

Aff. ADM

Comment

Import

Validate/Send

View draft

Potentially affected Administration's comments under No. 9.52

CR/C information

Provision	Special Section	Adm./ntwk. org.	Satellite network	Orb. pos.
9.13	CR/C/3142	RUS/IK	INTERSPUTNIK-16W-4	-16.00

1. Select the Form of coordination to comment

Form of coordination	Coordination from	Coordination with respect to	Identified	Last update	Comments completed
9.13	GSO	NGSO			<input type="checkbox"/>
9.14	SS	TS			<input type="checkbox"/>
9.21/A	SS	GSO	LUX		<input type="checkbox"/>
9.21/B	SS	NGSO			<input type="checkbox"/>
9.21/C	SS	TS			<input type="checkbox"/>

2. Enter your comments on groups by clicking the relevant check box in column 'Confirm/Add/Remove'
If you do not click, it means that you do not wish to be included in coordination process

Beam	Emi./Rcp.	Group	Freq. min. (MHz)	Freq. max. (MHz)	Identified by BR or added by affected Adm.	Confirm / Add / Remove	Administration comments	Remarks
KARG	R	112642257	28500.000	29500.000	*	<input checked="" type="checkbox"/>	<-- *Check to add aff. Adm.	
KATG	E	112642264	18700.000	19700.000	*	<input type="checkbox"/>	<-- *Check to add aff. Adm.	
TTCT		112642267	19150.000	19250.000	*	<input type="checkbox"/>	<-- *Check to add aff. Adm.	

3. Click 'Check Comments completed' when you have finished with all your entries on all provisions

Apply filter Clear filter

Not. ADM ITU BR

Select a new CR/C... Save ☒ Check Comments completed Create report

Application of 9.12, 9.12A, 9.13, 9.21/A, 9.21/B (frequency overlap)


Confirm your addition in coordination

According to the Bureau's records, your Administration has no satellite network for which Special Sections were previously published or which were notified and whose frequency assignments overlap with those of the network under consideration.

If your Administration is still of the opinion that unacceptable interference could be caused, and that coordination is required, please, provide sample information below in remarks section.

Click 'Add' button to add your administration to the coordination process.

Remarks about your potentially affected network

Station Name 

Orb. pos.

☒ Add to the current group only ☐ Add to all filtered groups except those having a remark


Application of 9.11, 9.14, 9.21/C, RS33 # 2.1 (frequency overlap, PFD threshold)

Confirm your addition in coordination


According to the Bureau's examination, there is no power flux density excess over the territory of your Administration and your terrestrial services are already protected.
There is no need for your Administration to be included in the coordination process

If your Administration is still of the opinion that unacceptable interference could be caused, and that coordination is required, please, provide sample information below in remarks section.

Click 'Add' button to add your administration to the coordination process.

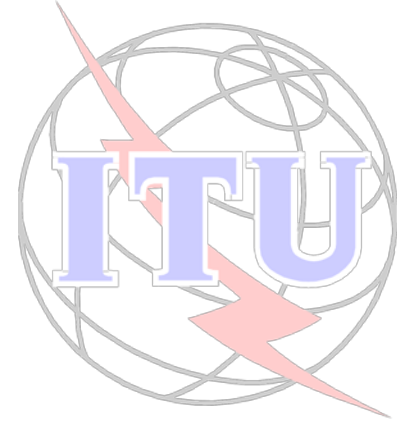
Geographical area 

Remarks about your potentially affected network

Terrestrial Service 

☒ Add to the current group only ☐ Add to all filtered groups except those having a remark

Application of 9.11, 9.14, 9.21/C, RS33 # 2.1 (frequency overlap, visibility from satellite)



Confirm your addition in coordination

Click 'Add' button to add your administration to the coordination process, if the territory of your administration is visible from the satellite.

Geographical area

☒ Add to the current group only ☐ Add to all filtered groups except those having a remark

SpaceCom v6
File Options Help

Aff. ADM

Comment

Import

Validate/Send

View draft

Not. ADM
ITU BR

Potentially affected Administration's comments under No. 9.52

1. Input information to get a list of CR/C(s) to comment

BR IFIC No. / Date 2726 / 21.08.2012 Expiry date for decision 21.12.2012

BR IFIC database D:\Databases\IFIC_Data\ific2726.mdb

Administration code / network org. LUX /

Comments file location C:\SpaceCom_Comments_Demo\CRD_comments\IFIC2726\AffADM\IFIC2726_LUX.mdb

Get list of CR/C(s)...

2. Select a CR/C to comment and click 'Comment CR/C...'

	Notice id.	Special section	Rev.	No.	Adm.	Org.	Satellite network	Orb.Pos.	Identified by BR under No. 9.36.1	Comments completion	Comments last update
	111520306	CR/C/2986	M	1	F		AST-102w	-102.00		✓	22.08.2012 18:26:58
▶	112520069	CR/C/3142			RUS	IK	INTERSPUTNIK-16w-4	-16.00	LUX	✓	22.08.2012 18:26:36
	112520070	CR/C/3143			CAN		CANSAT(82w)-KA	-82.00		✓	22.08.2012 18:26:58
	112520073	CR/C/3144			PNG		PACIFISAT KA-75E	75.00		✓	22.08.2012 18:26:58

Comment CR/C...

Create report

Add the comments on CR/C from external databases

SpaceCom v6

File Options Help

Aff. ADM

Comment

Import


Validate/Send

View draft


Not. ADM

ITU BR

Import comment files for a BR IFIC

BR IFIC No. / Date  2726 / 21.08.2012 Expiry date for decision 21.12.2012

Click on the type of import you want to perform




Merge in-house multi-user comments

Please use this import and merge button in case the comments on CR/Cs for a BR IFIC are provided through multiple users / PCs.

All comment files should be merged into one database file before being sent to the BR.


If you are an Operator, the merged database file must be sent to the responsible Administration.



Merge Operator comments

Please use this import and merge button in case the comments on CR/Cs for a BR IFIC are provided by telecommunication Operator(s).

All comment files should be merged into one database file before being sent to the BR.

 Once merged/imported, you can use the 'Comment' facility to complete/validate before sending the final comment file.

Your validation on the current comments will be considered as valid only if it is checked as 'completed' whether you are identified or not by the BR

The screenshot displays the 'SpaceCom v6' application window. The title bar reads 'SpaceCom v6'. The menu bar includes 'File', 'Options', and 'Help'. On the left, a vertical toolbar contains icons for 'Aff. ADM', 'Comment', 'Import', 'Validate/Send', and 'View draft'. The main window area is titled 'Validate and send your comments under No. 9.52 database to BR'. It features input fields for 'BR IFIC No. / Date' (with a red circle '1' over the '2726' field), 'Expiry date for decision' (with '21.12.2012'), and 'File location' (with a red circle '2' over the file path). Below these, a section titled '1. Validate file before sending' contains a 'File validation' button (with a red circle '3' over it) and a status box showing 'Not validated...'. A second section titled '2. Send your comments' includes a 'Create e-mail with MS Outlook...' button and a note about using Outlook or an alternative email address.

SpaceCom v6

File Options Help

Aff. ADM

Comment

Import

Validate/Send

View draft

Not. ADM

ITU BR

Validate and send your comments under No. 9.52 database to BR

BR IFIC No. / Date 2726 / 21.08.2012 Expiry date for decision 21.12.2012

File location C:\SpaceCom_Comments_Demo\CRD_comments\IFIC2726\AffADM\IFIC2726_LUX.mdb

1. Validate file before sending

File validation

Not validated...

2. Send your comments

Create e-mail with MS Outlook...

If you don't have Microsoft Outlook, please send to 'bmail@itu.int' the comments file indicated above using your own messaging management program.

The database containing the draft CR/D information can be viewed by any administration and is distributed only on the BR IFIC (Space Services) DVD-ROM

SpaceCom v6
File Options Help

Alt. ADM
Not. ADM

Draft Wizard
Send to BR

ITU BR

Draft database file Wizard

Draft CR/D Wizard

1 Select a drive where is located the BR IFIC DVD-Rom and click "OK"

c: [System] OK

OR

Select a folder where are located the draft mdb files (coming from the BR IFIC DVD-Rom) and click "OK"

D:\Databases\SpaceCom\draft_CRD OK

2 Select a network

	BR IFIC	Adm	Sat. Network	Special Section	Comment Completion
▶	2715	E	SECOMSAT-B1_22E	CR/C/2834M1	
	2715	ISR	AMS-CK-33w	CR/C/3028	
	2715	ISR	AMS-CK-43E	CR/C/3029	
	2716	LUX	LUX-G8-44	CR/C/3033	
	2716	MLA	MEASAT-SA1A	CR/C/3032	
	2716	QAT	QATARSAT-9	CR/C/3034	
	2716	RUS	CSDRN-M	CR/C/1880M5	✗

3 Select the action you wish to perform on the network: SECOMSAT-B1_22E

For All Adm. View To view a draft

For Notifying Adm. ONLY Validate To validate a draft

SpaceCom v6

File Options Help

Aff. ADM

Not. ADM

Draft Wizard

Send to BR

ITU BR

Draft database file Wizard

CR/C information

Provision

Special Section

Adm./ntwk. org.

Satellite network

Orb. pos.

9.13

CR/C/1880 M 5

RUS

CSDRN-M

95.00

1. Select the Form of coordination to validate

Form of coordination	Coordination from	Coordination with respect to	Last update	Validation completed
9.13	GSO	NGSO		<input type="checkbox"/>
9.14	SS	TS		<input type="checkbox"/>

2. Enter your decision on receivability

Beam	Emi./ Rcp.	Group	Freq. min. (MHz)	Freq. max. (MHz)	Identified by BR or added by affected Adm.	Receivability of the comment	Administration comments	Remarks
SMR	R	111694136	1980.060	1996.440	*	<input type="checkbox"/>	<- *Check to add aff. Adm.	
					ARS	<input type="checkbox"/>	d3) addition (rmk) rejected by BR	1
					AUS	<input checked="" type="checkbox"/>	a3) coordination requested	
					E	<input checked="" type="checkbox"/>	a3) coordination requested	
					G	<input checked="" type="checkbox"/>	a3) coordination requested	
					USA	<input checked="" type="checkbox"/>	a3) coordination requested	
		111694137			*	<input type="checkbox"/>	<- *Check to add aff. Adm.	
					ARS	<input type="checkbox"/>	d3) addition (rmk) rejected by BR	2
					AUS	<input checked="" type="checkbox"/>	a3) coordination requested	
					E	<input checked="" type="checkbox"/>	a3) coordination requested	
					G	<input checked="" type="checkbox"/>	a3) coordination requested	
					USA	<input checked="" type="checkbox"/>	a3) coordination requested	
SMTR	E	111694135	2483.560	2499.940	*	<input type="checkbox"/>	<- *Check to add aff. Adm.	



3. Click 'Check Validation completed' when you estimate having finished with your inputs

Select a new draft CR/D...

Save

Check Validation completed

Create report



Notifying Administration have the possibility to input comments not received by the BR, or received out of the regulatory period by the BR

In the case Notifying Administration acts on behalf of Potentially affected Administration the copy of the documents received from the copy Potentially Affected Administration must be send to the Bureau must explaining why it is requested to be added in the coordination process



**Operators should send their validated
comment files directly to their
Administration NOT NOT to BR to BR**

**All comments files should be merged
into one database file before being sent
to the BR by the Administration**

Part 4



-
- Satellite systems coordination
 - Radiocommunication Bureau to assist during coordination
 - Comments submission under No. 9.52
 - **Comments submission under No. 9.41**



What is CR/E?

- **It is a Special Section that contains information on the status of the coordination procedures under No. 9.41**



No 9.41

9.41

Following receipt of the BR IFIC referring to requests

for co
that i
shoul
admi
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shoul
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appro
and s
netw
name

**WRC-12 decision:
mandatory nature of
the network list under
No. 9.36.2**

networks identified under No. 9.36.2, be excluded, as appropriate.
(WRC 12)

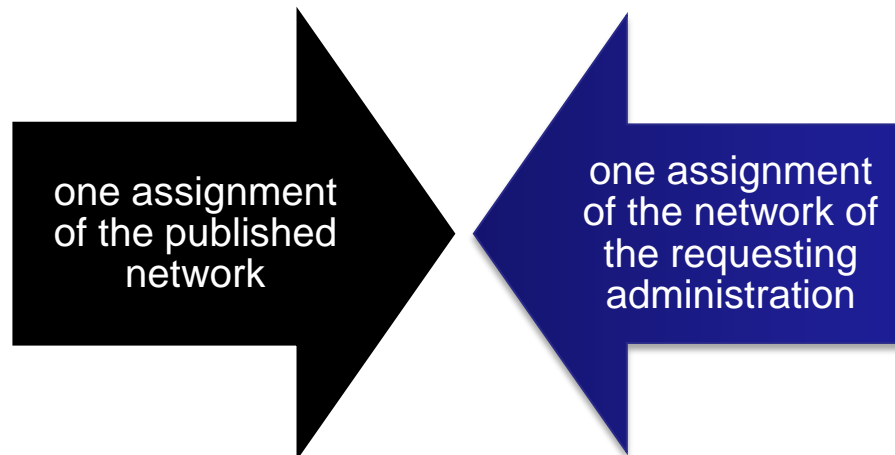
ieving
9.36.2,
satellite
cy band
9.7B
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satellite
that the
te



No 9.41

Rule of procedure:

An administration wishing to be added in a coordination request under 9.41 to provide $\Delta T/T > 6\%$ calculations for only one pair of assignments for each satellite network to be further considered in the coordination process



CR/E Publication



CR/C publication



Administrations comments
using SpaceCom



Bureau will examine:

- Requested within 4 months ?
- DT/T sample provided ?
- Coordination arc applies ?
- GIBC run under 9.41



Valid networks



Publication of CR/E

Criteria of inclusion under 9.41

From 2013



Request Received within 4 months	Coordination Arc Applies	DT/T Sample Provided	Requesting (Existing) adm identified under 9.7 CA for all groups	DT/T > 6%	Action
N	Y	Y	N	-	Not include
Y	N	Y	N	-	Not include
Y	Y	N	N	-	Not include
Y	Y	Y	Y	Y	Include
Y	Y	Y	N	N	Not include
Y	Y	Y	N	Y	Include



CR/E Publication



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		AMS-CK-43E		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º		CR/E/239	
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA		2726 / 21.08.2012	
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE		ISR		LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL		43 E	
				NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN		111520388	

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-I, 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-I, 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/3029 (BR IFIC 2715 / 20.03.2012)

CR/E Publication



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

Disposition / Provision / Disposición / 条款 / Положение / الحكم		Administrations inclues dans le processus de coordination.	Administration included in the coordination process	Administraciones incluidas en el procedimiento de coordinación
		协调过程中包括的主管部门	Администрации, включенные в процесс координации	الإدارات التي تشملها عملية التنسيق
X	9.41 / 9.7	EGY, G, KOR		
	9.41 / 9.7A			
	9.41 / 9.7B			

CR/E Publication



<u>OBSERVATIONS DU BUREAU DES RADIOCOMMUNICATIONS</u>	<u>RADIOCOMMUNICATION BUREAU COMMENTS</u>	<u>OBSERVACIONES DE LA OFICINA DE RADIOCOMUNICACIONES</u>
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Relatives aux dispositions

- La disposition 9.7 s'applique à toutes les assignations de fréquence.

La/les administration(s) suivante(s) a/ont soumis une demande en vue de son/leur inclusion dans le processus de coordination au titre du numéro **9.41**.

Relating to provisions

- Provision 9.7 applies to all frequency assignments.

The following administration(s) submitted request for inclusion in the coordination request under No.**9.41**.

Relativas a las disposiciones

- La disposición 9.7 se aplica a todas las asignaciones de frecuencia.

Las siguientes administraciones presentaron solicitud de inclusión en la petición de coordinación con arreglo al número **9.41**.

EGY, G, KOR

Les observations de la/des administration(s) suivante(s) ne sont pas valables pour le/les réseau(x) indiqué(s) ci-après étant donné que n'y figuraient pas les calculs de $\Delta T/T$.

Les observations de la/des administration(s) suivante(s) concernant le/les réseau(x) indiqué(s) ci-après ne sont pas valables étant donné que ce/ces réseau(x) n'existe(nt) plus ou que $\Delta T/T$ est inférieur à 6% ou bien encore que la/les administration(s) est/sont déjà identifiée(s) pour les groupes pertinents:

The comments from the following Administration(s) are not valid for the network(s) indicated below since it did not include $\Delta T/T$ calculations.

The comments from the following administration(s) are not valid for the network(s) indicated below since this/these network(s) no longer exist(s) or $\Delta T/T < 6\%$ or administration(s) is/are already identified for relevant groups:

Los comentarios de las siguientes administraciones no son válidos para las redes indicadas a continuación porque no incluyen los cálculos de $\Delta T/T$.

Los comentarios de las siguientes administraciones no son válidos para las redes indicadas a continuación ya que esas redes ya no existen o $\Delta T/T < 6\%$ o ya se han identificado las administraciones para los grupos pertinentes:

EGY : NAVISAT-11A, NAVISAT-12A, NAVISAT-14A, NAVISAT-2A, NAVISAT-7A, NAVISAT-9A

CR/E Publication



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

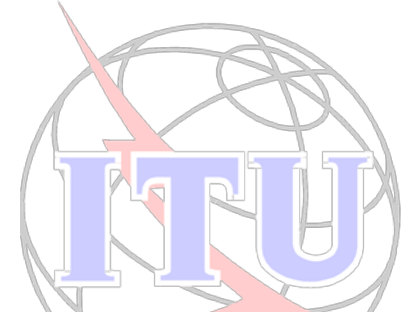
И. Потребности в координации на уровне группы

I. Requisitos de coordinación a nivel de grupo

١. متطلبات التنسيق على مستوى المجموعة

Administrations identifiées au titre du N° 9.41/9.7 par : 根据第9.41/9.7款识别的主管部门:				Administrations identified under No. 9.41/9.7 by : Администрации, идентифицированные согласно п. 9.41/9.7:				Administraciones identificadas según N.º 9.41/9.7 por : الإدارات المحددة وفقاً للرقم 7.9/41.9 بموجب:			
B1a Beam designation	B2 Emi-Rcp	BR7a Group id.	GHz	Delta T/T Delta T/T	:	Delta T/T Дельта Т/Т	:	Delta T/T T/T دلتا	:		
C1R	R	111693774	5	KOR							
		111693775	5	KOR							
		111693776	5	KOR							
		111693777	5	KOR							
		111693778	5	KOR							
		111693779	5	KOR							
		111693780	5	KOR							
C3R	R	111693781	5	KOR							
		111693782	5	KOR							
		111693783	5	KOR							
		111693784	5	KOR							
		111693785	5	KOR							
		111693786	5	KOR							
		111693787	5	KOR							
C5R	R	111693788	5								
		111693789	5								
		111693790	5								
		111693791	5								
		111693792	5								
		111693793	5								
		111693794	5								
E1R	R	111693795	5								
		111693796	42	G							
		111693797	42	G							
		111693798	42	G							
		111693799	42	G							
		111693800	42	G							
		111693801	42	G							
KA1R	R	111693802	42	G							
		111693803	27	KOR							
		111693804	27	KOR							
		111693805	27	KOR							
		111693806	27	KOR							
		111693807	27	KOR							
		111693808	27	KOR							
		111693809	27	KOR							
		111693810	27	KOR							
		111693811	27	KOR							
		111693812	27	KOR							

CR/E Publication



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

II. قائمة بالشبكات الساتلية

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 $\Delta T/T > 6\%$ pero NO se encuentran dentro del arco de coordinación (según N.º 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 $\Delta T/T < 6\%$ 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		NILESAT-301-7W	7 W	C	A	109520031		R
G		UKSAT-21	67 E	C	A	111520037	C	
KOR		HANSAT-113E	113 E	C	A	111520370	C	R
		HANSAT-116E	116 E	C	A	111520371	C	R
		HANSAT-128.2E	128.2 E	C	A	111520372	C	R
		KORBSAT-113E	113 E	C	A	107520230	C	
		KORBSAT-116E	116 E	C	A	107520231	C	
		KOREASAT-1	116 E	C	A	92520024	C	R
		KOREASAT-1	116 E	N	A	95500170	C	R
		KOREASAT-2	113 E	C	A	92520025	C	R
		KOREASAT-2	113 E	N	A	95500171	C	R

An example of technical examination using GIBC



Gibc - Graphical Interface for Batch Calculations

Appendix 7 Appendix 30B Appendix 30 30A Tools / Options
Appendix 8 PFD (terrestrial serv.) PFD (space serv.)

Start

Network: 112520073

Examination Data

☐ Resolution 547 Findings Level: Group
☐ App 8 Case II Output Level: Level 1
☐ Use Polarization

Existing

☒ Check Against Existing Administration ID: KAZ
Transaction ID: Sat. Network Symbol:

Date

☐ Date Year - Month - Day 1990 - 01 - 01

Files Path

C:\BR_TEX_RESULTS\AP8\112520073

EXIT Help



$\Delta T/T$ calculation results

- **By default, are stored in the folder:**
 - **C:\BR_TEX_RESULTS\AP8\[ntc_id]\[timestamp]**
 - **Where [ntc_id] network number**
- **Two files:**
 - **APP8_OPT.LST**
 - **NTW_OPT.LST**



$\Delta T/T$ calculation results

‘C’ – causing
This network cause
interference

NTW_C
could b

Information only which

‘R’ – receiving
This network receive

‘R’ – receiving
This network receive
interference

‘A’ – arc
This network is located within
coordination arc

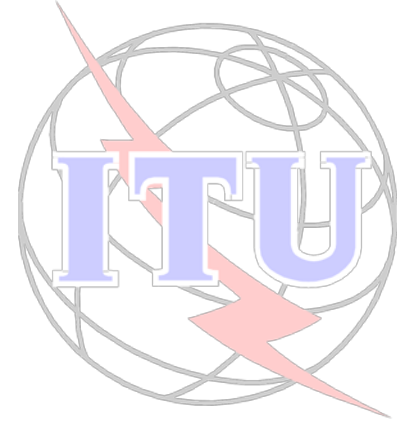


$\Delta T/T$ calculation results

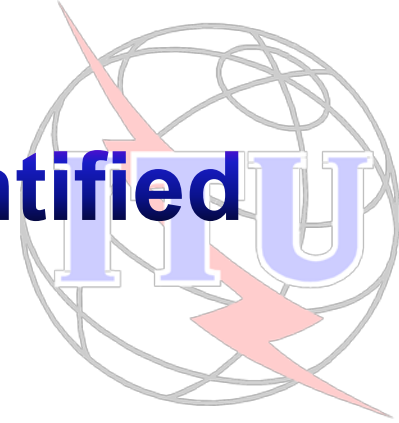
AP8_OPT.LST this calculation results $\Delta T/T$ could for submitting comments under 9.41

EXI UP-LINK IS AFFECTED	OPTIONAL	EXAMINATION	DT/TS =	502.05 %
I S PNG PACIFISAT KA-75E	75.00E	0.05 0.05	27.62500 G	250000 K 08.02.12
C112.520073/112.636946/0001				
KA2R EC M	45.4 DB			
45K0G1W--	12.4 DBW	-34.1 DBW/HZ	-34.1 DBW/HZ (TOT. BW)	2D:08.02.12
E S KAZ KAZSAT2	86.50E	0.10 0.10	27.55000 G	100000 K 16.12.10 A
N110.500357/110.694479/0001				
RKA EC M	43.5 DB	43.2 DB	600 K	DT/TS = 502.05 %
6M87G7W--	18.2 DBW	-50.2 DBW/HZ	-50.1 DBW/HZ (TOT. BW)	2D:23.12.09
I E PNG TYPICAL-KA0.3M	066E0513	45N4812	REC-580-6	37.6 DB 9.9 DB

It is very important that calculation results be submitted for every network which is considered as affected by commenting administration



In order to determine whether we can submit the comments it is advisable to review the CR/C



Administration is already identified as affected under 9.7?

Tableau I / Table I / Cuadro I / 表一 / Таблица I / الجدول I			
Disposition / Provision / Disposición / 条款 / Положение / الحكم		Résumé des conditions régissant la coordination	Summary of coordination requirements
		协调要求概述	Сводные потребности в координации
X	9.7	ARS, AUS, B, CAN, CHN, CYP, D, E, F, G, GRC, I, IND, ISR, J, KAZ, KOR, LUX, MLA, NOR, PAK, QAT, RUS/IK, RUS, S, THA, TUR, UAE, USA	
	9.7A		
	9.7B		
	AP30#7.1		
X	AP30A#7.1	BOL, G, RUS/IK	
	RS539		
	RS33#3		

Yes, administration is already identified as affected, but 2 questions remain:

- 1. All the potentially affected networks (in our view) are listed in CR/C publication?**
- 2. For all the groups in CR/C this administration is listed as affected?**

Which networks are affected?

II. Liste des réseaux à satellite
 (à titre d'information uniquement, voir N° 9.36.2)
 二、卫星网络清单(仅供参考, 见第9.36.2款)

II. List of satellite networks
 (for information only, see No. 9.36.2)
 II. Список спутниковых сетей(исключительно для информации, см. п. 9.36.2)

II. Lista de redes de satélite
 (sólo para información, véase el N.º 9.36.2)
 II. قائمة بالشبكات الساتلية (انظر الرقم 2.36.9 للعلم فقط)

Liste des réseaux à satellite pour lesquels Delta T/T > 6% ou 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% or which are within the coordination arc (under No. 9.7)

Lista de redes de satélite para las que Delta T/T > 6% o que están dentro del arco de coordinación (según N.º 9.7)

Delta T/T > 6% 的卫星网络清单或位于协调弧内的卫星网络清单 (依据 9.7)

Список спутниковых сетей, для которых Дельта T/T > 6% или которые находятся внутри дуги координации (согласно № 9.7)

قائمة بالشبكات الساتلية التي تكون فيها قيمة دلتا T/T < 6% أو التي تقع داخل 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	BR28 Detected by coord. arc
ARS		SAUDI-FMSS-7-R1	29 E	C	A	109520338	C	R	
		STRATSAT-5-R1	41 E	C	A	109520339	C	R	
AUS		ADF 152E GOVR	152 E	C	A	108520304		R	
		ADF 156E GOV	156 E	C	A	102520061	C		

We already calculated that w.r.t KAZSAT2 $\Delta T/T$ exceeds 6%. However, the network is missing in the list. Can we add it?

		AUSSAT C 156E GOVR	156 E	C	A	107520068		R	
		DDSP-1	86 E	C	A	111520200	C	R	
		DDSP-104E	104 E	C	A	108520294	C	R	
		DDSP-108.5E	108.5 E	C	A	108520295	C	R	
		DDSP-162E	162 E	C	A	109520036	C	R	
KAZ		KAZSAT7	77.5 E	C	A	108520313			A
		KAZSAT7	77.5 E	N	A	111500126			A
KOR		KOREASAT-116.0E	116 E	C	A	110520358	C	R	
		CANSAT-167W/-RA	87 W	C	A	110520148	C		
CHN		ASIASAT-120V	120 E	C	A	110520266	C	R	
		ASIASAT-AAA	122 E	C	A	111520126	C	R	
		ASIASAT-AKW	122.2 E	C	A	109520276	C	R	
		ASIASAT-AKZ	122.2 E	C	A	105520372	C	R	
		ASIASAT-CKW	105.5 E	C	A	109520277	C	R	
		ASIASAT-CKZ	105.5 E	C	A	105520373	C	R	

In order to answer this question we need to determine if there are any frequency groups for which this administration is not listed as affected?

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 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 Т/Т	Delta T/T T/T دلتا	Arc de coordination 协调弧	Coordination Arc Дуга координации	Arco de coordinación قوس التنسيق		
KA2R	R	112636946	27	F	USA		CHN KAZ THA	F MLA TUR	G NOR UAE	ISR RUS/IK RUS	J RUS
		112636947	27	F	USA		CHN KAZ THA	F MLA TUR	G NOR UAE	ISR RUS/IK RUS	J RUS
		112636948	27	F	USA		CHN KAZ THA	F MLA TUR	G NOR UAE	ISR RUS/IK RUS	J RUS

This administration is listed as affected for all the groups – we cannot add additional networks

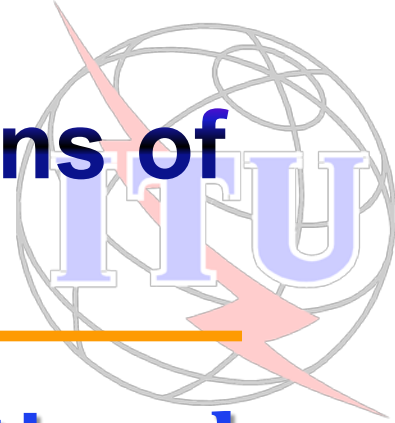
		112642376	28	CHN	F								CHN KAZ THA	F MLA TUR	G NOR UAE	ISR RUS/IK	J RUS
		112642377	29	B J	CAN LUX	CHN NOR	CYP PAK	E QAT	F S	G UAE	GRC USA		CHN J RUS	F KAZ THA	G MLA TUR	IND NOR UAE	ISR RUS/IK
		112642378	30	ARS GRC RUS	AUS I S	CHN J UAE	CYP KOR USA	D LUX	E NOR	F PAK	G QAT		AUS KAZ THA	CHN MLA TUR	IND NOR UAE	ISR RUS/IK USA	J RUS
		112642379	28	CHN	F								CHN KAZ THA	F MLA TUR	G NOR UAE	ISR RUS/IK	J RUS
		112642380	29	CAN PAK	CHN QAT	CYP UAE	F USA	G	GRC	J	NOR		CHN J RUS	F KAZ THA	G MLA TUR	IND NOR UAE	ISR RUS/IK
		112642381	30	ARS I UAE	AUS J USA	CHN KOR	CYP LUX	D NOR	F PAK	G QAT	GRC RUS		AUS KAZ THA	CHN MLA TUR	IND NOR UAE	ISR RUS/IK USA	J RUS

Why?



- **The aim of No. 9.7 is coordination with the administrations not the networks. List of networks for information only. During coordination administrations can bilaterally agree which networks to take into account and which not**
- **Therefore, if the administration is already identified as affected there is no need to add additional networks, unless the intention is to inform notifying administration**

Let's go back to the decisions of WRC-12



- **WRC-12 suppressed informational nature of the list of the satellite networks**
- **Therefore, even if the administration is already identified as affected it can request inclusion of the additional networks in publication of CR/E**

We need to determine if there are any frequency groups for which this administration is not listed as affected?

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

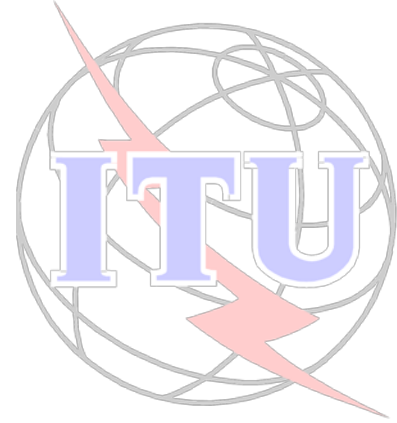
I. Coordination requirements at group level
 I. Потребности в координации на уровне группы

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 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 Т/Т	Delta T/T T/T دلتا	Arc de coordination 协调弧	Coordination Arc Дуга координации	Arco de coordinación قوس التنسيق		
KA2R	R	112636946	27	F	USA		CHN KAZ THA	F MLA TUR	G NOR UAE	ISR RUS/IK RUS	J RUS
		112636947	27	F	USA		CHN KAZ THA	F MLA TUR	G NOR UAE	ISR RUS/IK RUS	J RUS
		112636948	27	F	USA		CHN KAZ THA	F MLA TUR	G NOR UAE	ISR RUS/IK RUS	J RUS

From January 2013: This administration is listed as affected for all the groups – but we can add additional networks

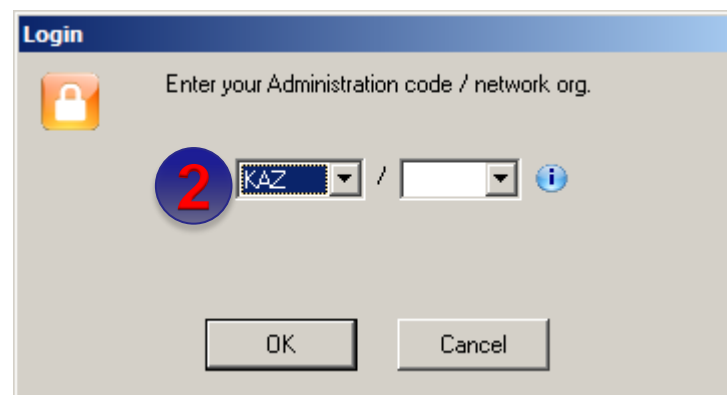
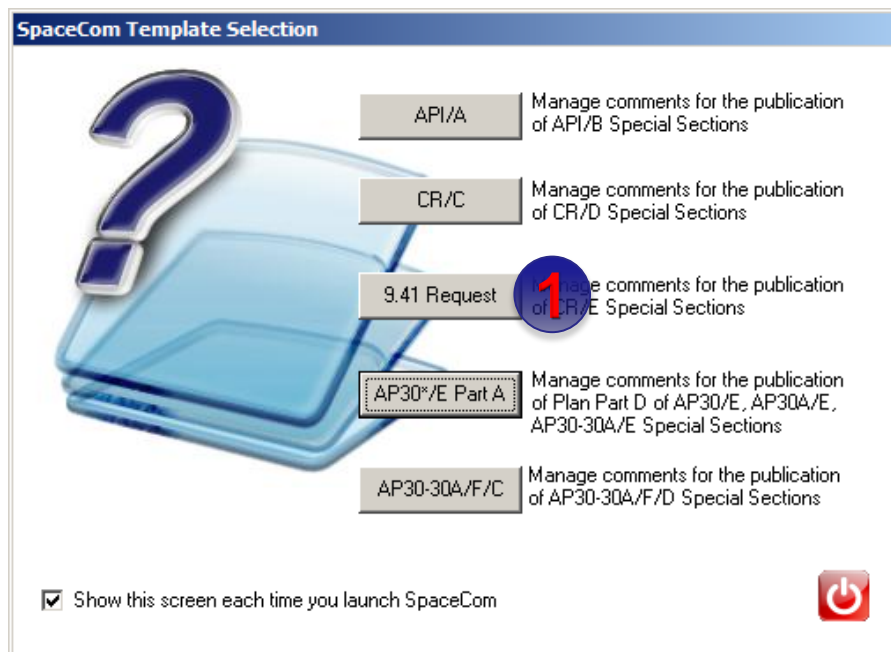
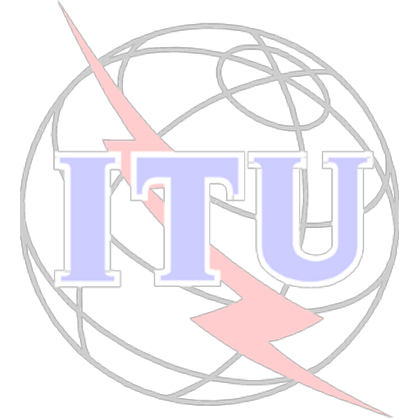
112642376	28	CHN	F							CHN KAZ THA	F MLA TUR	G NOR UAE	ISR RUS/IK RUS	J RUS
112642377	29	B J	CAN LUX	CHN NOR	CYP PAK	E QAT	F S	G UAE	GRC USA	CHN J RUS	F KAZ THA	G MLA TUR	IND NOR UAE	ISR RUS/IK
112642378	30	ARS GRC RUS	AUS I S	CHN J UAE	CYP KOR USA	D LUX	E NOR	F PAK	G QAT	AUS KAZ THA	CHN MLA TUR	IND NOR UAE	ISR RUS/IK USA	J RUS
112642379	28	CHN	F							CHN KAZ THA	F MLA TUR	G NOR UAE	ISR RUS/IK RUS	J RUS
112642380	29	CAN PAK	CHN QAT	CYP UAE	F USA	G	GRC	J	NOR	CHN J RUS	F KAZ THA	G MLA TUR	IND NOR UAE	ISR RUS/IK
112642381	30	ARS I UAE	AUS J USA	CHN KOR	CYP LUX	D NOR	F PAK	G QAT	GRC RUS	AUS KAZ THA	CHN MLA TUR	IND NOR UAE	ISR RUS/IK USA	J RUS



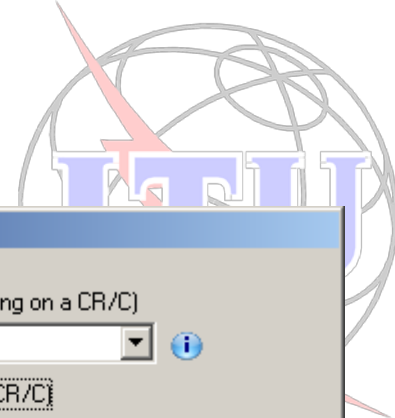
SpaceCom Comments on CR/C for the publication of CR/E

In action...

Capture of the comments




Capture of the comments



Who are you ?


☒ Potentially affected Administration (Commenting on a CR/C)

Operator 

☐ Notifying Administration (Commenting on an CR/C)

Pursuant to No. 9.41, any administration that is of the view that it should have been included in the request for coordination shall, within 4 months of the date of publication of the BR IFIC, request that its name be included and inform the notifying administration and the Bureau accordingly; in so doing, it shall provide a list of the satellite networks for which it is requesting coordination, along with the technical reasons.


A copy of the comments is to be sent by e-mail to the Bureau at the following address: brmail@itu.int.

Next... 

**Potentially affected
administration wishes its name
to be included in coordination
process**

Who are you ?


☐ Potentially affected Administration (Commenting on a CR/C)

Operator 

☒ Notifying Administration (Commenting on an CR/C)

If the notifying administration is of the view that an administration identified under No.9.36 in accordance with the provisions of No.9.7, 9.7A or 9.7B should not have been included in the request, it shall within 4 months of the date of publication of the BR IFIC request that the name of that administration be excluded from the request by informing the administration concerned and the Bureau accordingly; in so doing, it shall provide a list of the satellite networks for which such exclusion is requested, along with the technical reasons.

A copy of the comments shall be sent by e-mail to the Bureau at the following address: brmail@itu.int.

Next... 

**Notifying administration
considers, that certain
administration needs to be
excluded from the list**

Getting the list of CR/Cs

SpaceCom v6

File Options Help

Potentially affected Administration's comments under No. 9.41

1. Input information to get a list of CR/C(s) to comment

BR IFIC No. / Date **1** 2726 / 21.08.2012 Expiry date for decision 21.12.2012

BR IFIC database D:\Databases\IFIC_Data\ific2726.mdb **2**

Administration code / network org. KAZ /

Comments file location

Get list of CR/C(s)... **3**

2. Select a CR/C to comment and click 'Comment CR/C...'

	Notice id	Special section	Rev.	No.	Adm.	Org.	Satellite network	Earth station	Orb.Pos.	Comments completion	Comments last update
	111520306	CR/C/2986	M	1	F		AST-102w/		-102.00	✖	
	112520069	CR/C/3142			RUS	IK	INTERSPUTNIK-16w-4		-16.00	✖	
	112520070	CR/C/3143			CAN		CANSAT(82w)-KA		-82.00	✖	
▶	112520073	CR/C/3144			P		PACIFISAT KA-75E		75.00	✖	

4

⚠ Your comments in the current BR IFIC are not valid please check all CR/C 's as completed

Not ADM
ITU BR

Comment CR/C... **5**

Create report

Addition of the networks



SpaceCom v6
File Options Help

Aff. ADM
Comment
Import
Validate/Send

Potentially affected Administration's comments under No. 9.41

CR/C information

Provision	Special Section	Adm./ntwk. org.	Satellite network	Orb. pos.	Comments NOT completed <input type="checkbox"/>
9.7IAI; 9.7AIFI; 9.7BIFI	CR/C/2986 M 1	F	AST-102W	-102.00	23.08.2012

1. Enter your comments by filling the relevant boxes

Satellite name	Delta T/T or Other calc.	9.7IAI	9.7AIFI	Adm. comments
KAZSAT11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	wants to be added
KAZSAT1R	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	wants to be added
KAZSAT2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	wants to be added
KAZSAT2M	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	wants to be added
KAZSAT2R	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	wants to be added
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

2

Earth station name

Delta T/T or Other calc.

Remark:

3

4

Select a new CR/C. Save ☒ Check Comments completed Create report

Do not include the calculation results into the remarks. It can be used to refer to the attachments

Delta T/T or other calculation has to be attached to the request, otherwise the request will be rejected !

Not. ADM
ITU BR

Exclusion of the networks



SpaceCom v6
File Options Help

Notifying Administration requesting Exclusion of an Administration/Network under No. 9.41

CR/C information

Provision	Special Section	Adm./ntwk. org.	Satellite network	Orb. pos.	Comments NOT completed <input type="checkbox"/>
9.7A ; 9.7A F ; 9.7B F	CR/C/3144	PNG	PACIFISAT KA-75E	75.00	

1. Enter your comments by filling the relevant boxes

Satellite name	Delta T/T or Other calc.	9.7 A	9.7A F	Adm. comments
INSAT-KA83	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	wants to remove
AMS-CK-82.5E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	wants to remove
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

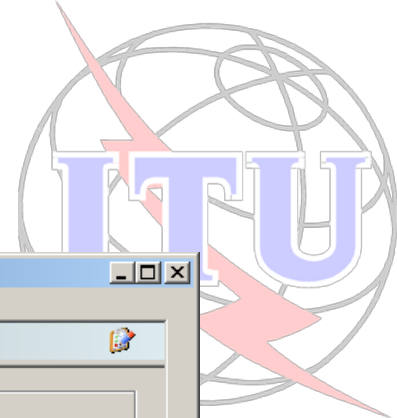
Earth station name	Delta T/T or Other calc.	9.7B F	Adm. comments
*	<input type="checkbox"/>	<input type="checkbox"/>	

Remark:

2. Click 'Check Comments completed' when you have finished with all your entries

ITU BR

Before you finish...



SpaceCom v6
File Options Help

Aff. ADM

Comment

Import

Validate/Send

3

Potentially affected Administration's comments under No. 9.41

1. Input information to get a list of CR/C(s) to comment

BR IFIC No. / Date / Expiry date for decision

BR IFIC database

Administration code / network org. /

Comments file location

1

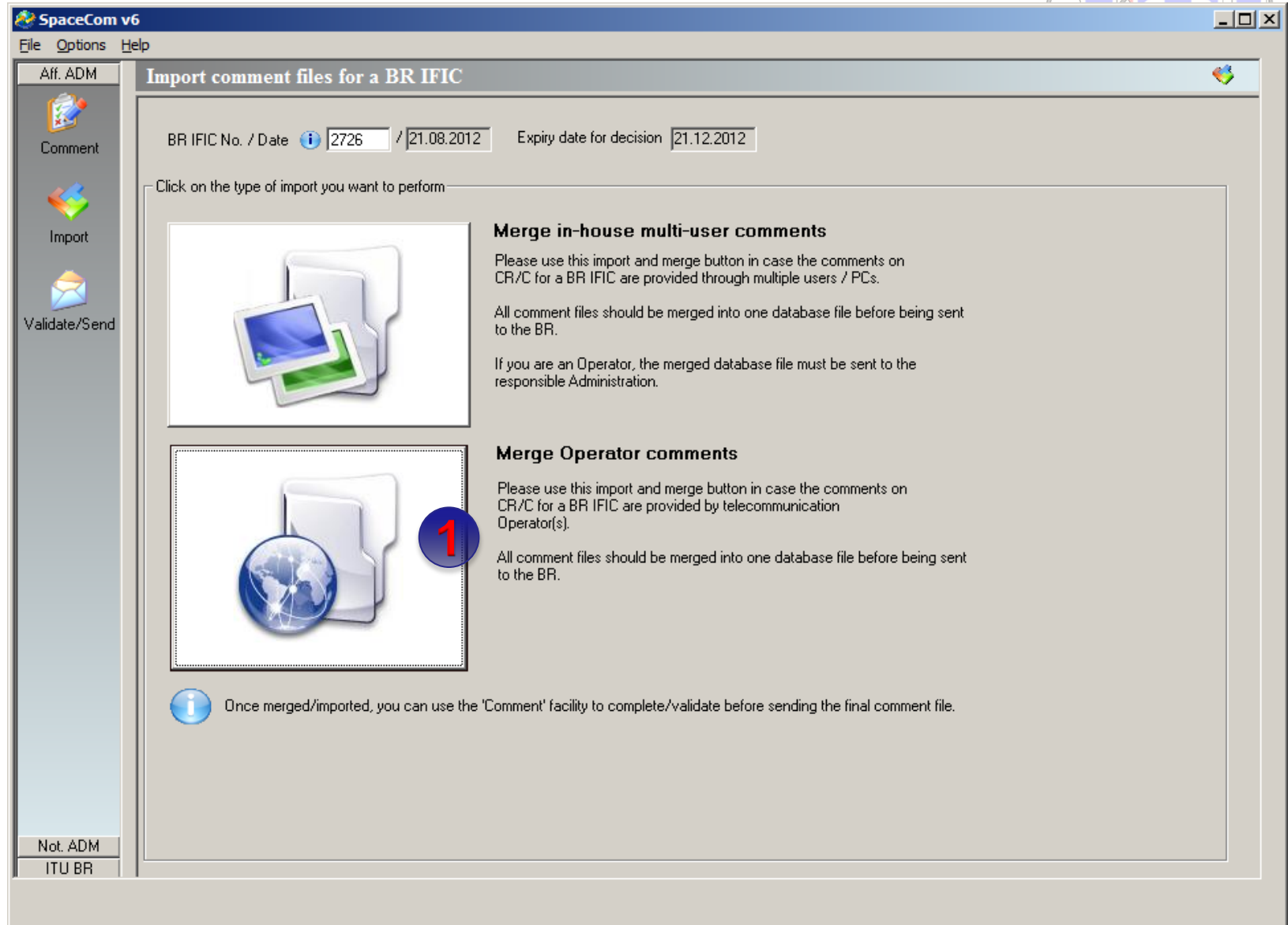
2. Select a CR/C to comment and click 'Comment CR/C...'

	Notice id	Special section	Rev.	No.	Adm.	Org.	Satellite network	Earth station	Orb.Pos.	Comments completion	Comments last update
▶	111520306	CR/C/2986	M	1	F		AST-102w		-102.00	✓	23.08.2012 12:12:15
	112520069	CR/C/3142			RUS	IK	INTERSPUTNIK-16w-4		-16.00	✓	23.08.2012 12:16:02
	112520070	CR/C/3143			CAN		CANSAT(82w)-KA		-82.00	✓	23.08.2012 12:16:02
	112520073	CR/C/3144			PNG		PACIFISAT KA-75E		75.00	✓	23.08.2012 12:06:46

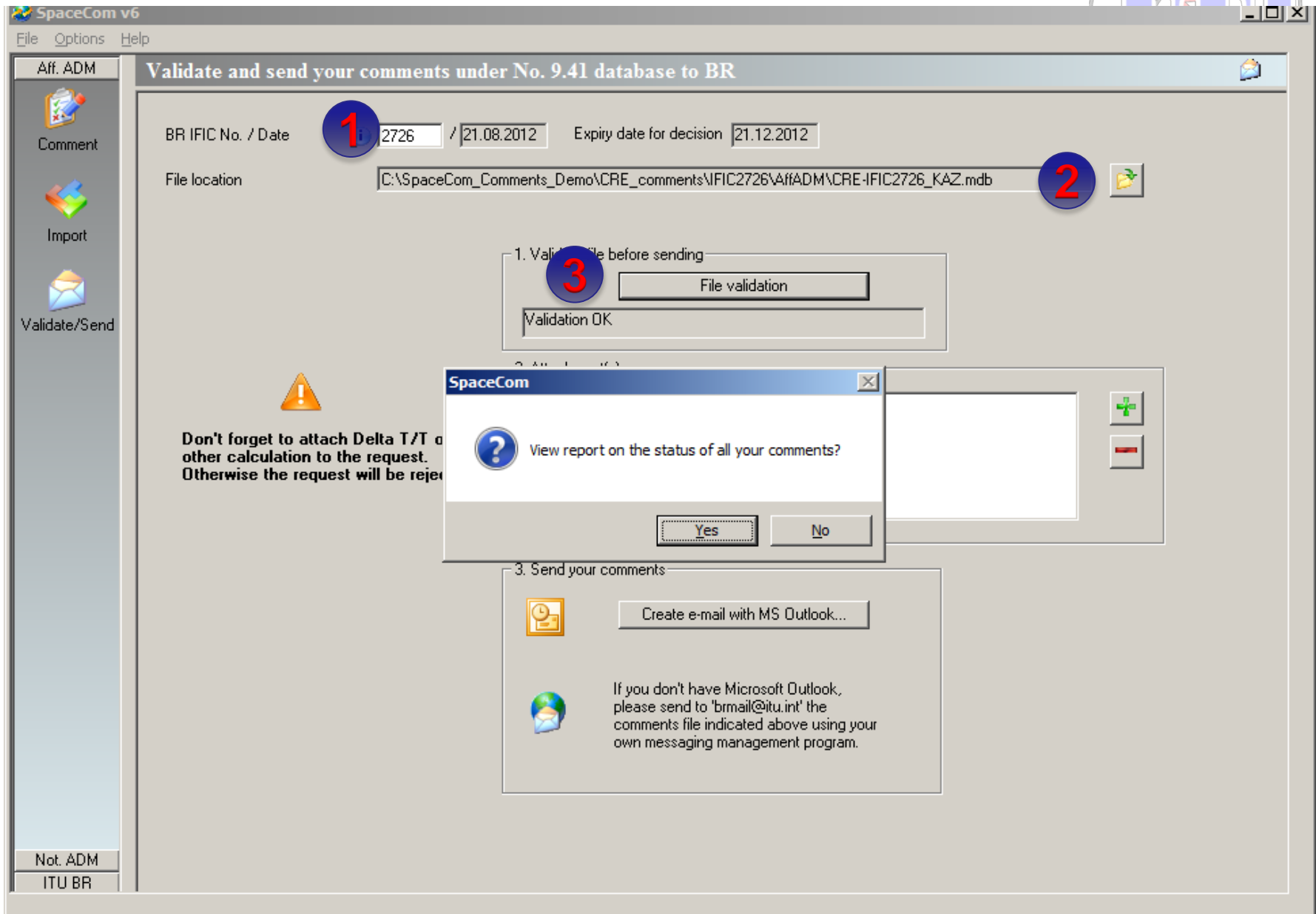
2

Not. ADM
ITU BR

Merge comments from different operators...



...validate...



...add attachments and send...

The screenshot shows the 'SpaceCom v6' application window. The title bar reads 'SpaceCom v6'. The menu bar includes 'File', 'Options', and 'Help'. The left sidebar contains icons for 'Aff. ADM', 'Comment', 'Import', and 'Validate/Send'. The main window has a title bar 'Validate and send your comments under No. 9.41 database to BR'. It contains several input fields: 'BR IFIC No. / Date' with values '2726' and '21.08.2012', 'Expiry date for decision' with value '21.12.2012', and 'File location' with a path 'C:\SpaceCom_Comments_Demo\CRE_comments\IFIC2726\AffADM\CRE-IFIC2726_KAZ.mdb'. A warning message with an orange triangle icon states: 'Don't forget to attach Delta T/T or other calculation to the request. Otherwise the request will be rejected.' The interface is divided into three numbered steps: 1. 'Validate file before sending' with a 'File validation' button and a 'Validation OK' status; 2. 'Attachment(s)' with a large empty text area and a red circle with the number '1'; 3. 'Send your comments' with a 'Create e-mail with MS Outlook...' button and a red circle with the number '2'. A note at the bottom of step 3 says: 'If you don't have Microsoft Outlook, please send to 'brmail@itu.int' the comments file indicated above using your own messaging management program.' The bottom status bar shows 'Not. ADM' and 'ITU BR'.

SpaceCom v6

File Options Help

Aff. ADM

Comment

Import

Validate/Send

Validate and send your comments under No. 9.41 database to BR

BR IFIC No. / Date 2726 / 21.08.2012 Expiry date for decision 21.12.2012

File location C:\SpaceCom_Comments_Demo\CRE_comments\IFIC2726\AffADM\CRE-IFIC2726_KAZ.mdb

1. Validate file before sending

File validation

Validation OK

2. Attachment(s)

Don't forget to attach Delta T/T or other calculation to the request. Otherwise the request will be rejected.

3. Send your comments

Create e-mail with MS Outlook...

If you don't have Microsoft Outlook, please send to 'brmail@itu.int' the comments file indicated above using your own messaging management program.

Not. ADM

ITU BR

Questions

