



International Telecommunication Union

BSS in 21.4 – 22 GHz Band

ITU
WORLD
RADIOCOMMUNICATION
SEMINAR 2012

GENEVA, 3-7 DECEMBER 2012

www.itu.int/ITU-R/go/WRS-12

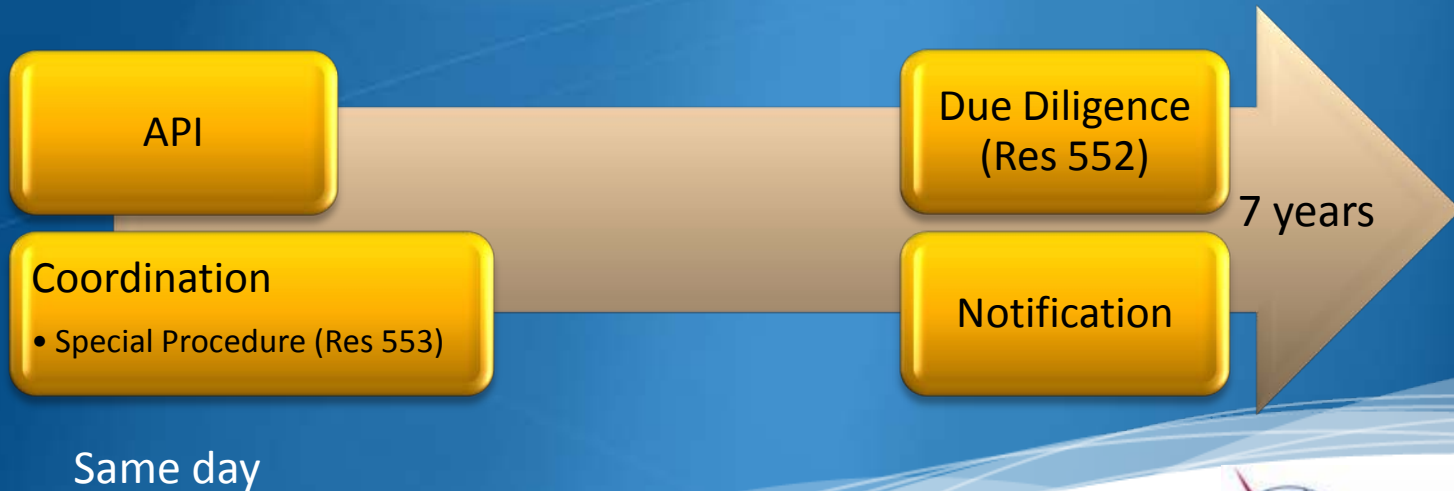
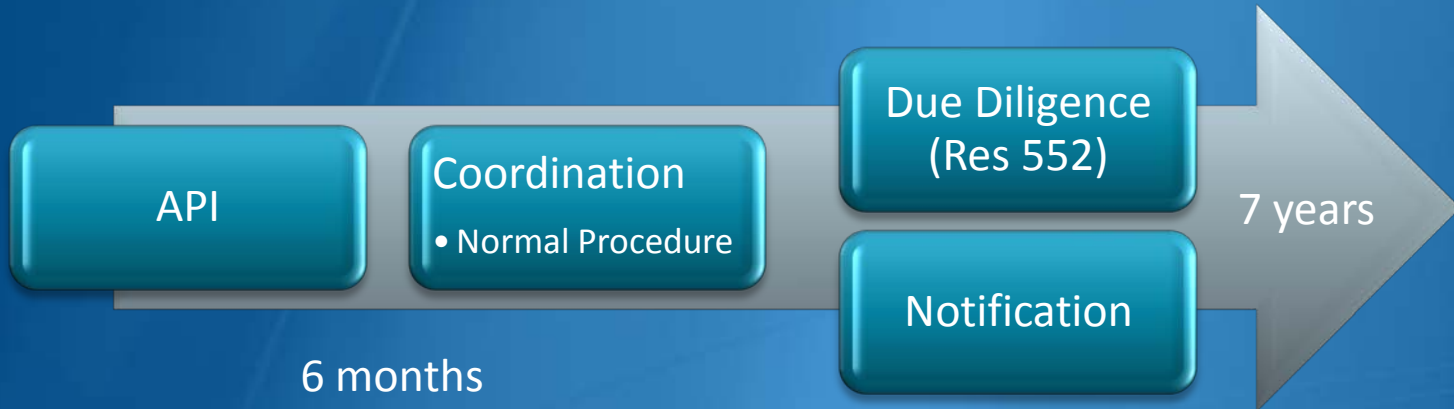


Cessy Karina

WRC-12 Decisions related with BSS at 21.4 – 22 GHz :

- Interim to Definitive Procedure
- Due Diligence (Resolution 552)
- Special Procedure (Resolution 553)
- Reviewing number of submissions and harmonizing technical parameters (Resolution 554)

ARTICLE 9 and 11 + +



Special procedure processing of API, Coordination
and Notification submissions in addition to Art. 9
and 11



Resolution 553

Resolution 554

Date Entry into Force:
18.02.2012

Resolution 553: Special procedure applicable for Coordination submissions under certain conditions

- BR to provide assistance, if requested
- API and Coordination request are receivable on the same day
- Provisions of No.9.41 is not applicable to this band
- Special-procedure coordination request is treated before all pending coordination requests, which are not a request for treatment under special procedure

Let us now focus on the process of coordination to establish Findings and coordination Requirements



Coordination Examination comprises two parts

No. 9.35 :

Conformity with Table of Frequency Allocation, Art. 21 , etc...

- + Conformity with Res 553 :
 - Receiving E/S antenna Pattern and diameter
 - Noise temperature
 - EIRP
 - Elliptical beam
 - etc

No. 9.36:

Identify any administration with which coordination may need to be effected



PFD Hard Limit

- the pfd limits of Table 21-4 in this band apply as of 18.02.2012 for all cases, coordination and notifications submissions
- Resolution 755 (WRC-12)
- Circular letter CR 334 (18 May 2012)

Frequency band	Service*	Limit in dB(W/m ²) for angles of arrival (δ) above the horizontal plane			Reference bandwidth
		0°-5°	5°-25°	25°-90°	
...					
19.3-19.7 GHz	Fixed-satellite (space-to-Earth)	-115 ^{13A}	-115 + 0.5(δ - 5) ^{13A}	-105 ^{13A}	1 MHz
21.4-22 GHz (Regions 1 and 3)	Broadcasting-satellite				
22.55-23.55 GHz	Earth exploration-satellite (space-to-Earth)				
24.45-24.75 GHz	Inter-satellite				
25.25-27.5 GHz	Space research				
27.500- 27.501 GHz	(space-to-Earth)				
...					

Establishing Coordination Requirement

Coordination Arc +/-12 degrees

PFD MASKS (Using PXT)

PFD MASK1

Less stringent, applicable to incoming special-procedure cases with respect to non-special-procedure cases for which notification is not received and complete information under Resolution 552 is not received

PFD MASK2

More Stringent, for all cases other than those identified in Resolution 553 and also for all notification cases received by the BR for the first time on or after 18 February 2012

Remarks !!

No. 9.41 does not apply

PXT

Gibc - Graphical Interface for Batch Calculations

Appendix 30B Appendix 30 30A Tools / Options Chaining Manager
PFD Appendix 8 PXT COMP Coord/Notif Appendix 7

Operator ID:

Network ID:

Examination Data

BSS (21.4 -22 GHz) Resolution 547
Output Level: Findings Level:
Power Control (dBW):

Existing

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

"Before" Examination

Perform "Before" Comparisons
Previous Networks:

Files Path

Review PXT Result

Special Procedure

START OF JOB SNSBPXT 11.10.12 16.46.47 VERSION 6.3.0.3 RES. 553/554 ONLY
 112523005-- karina3G ONY

SNS PXT for IRANDBS4-KA (112523005) ANALYSIS REQUESTED BY : karina DATE: 11/10/12 16:46:47

EXI DOWN-LINK IS AFFECTED
 I S IRN IRANDBS4-KA 34.00E 0.10 0.10 21.43000 G 60000 K 02.05.12 C112.523005/112.641812/0001
 KAIRAN ER M R123FR 40.0 DB
 54MOG7W-- 34.7 DEW -42.5 DEW/HZ 2D:24.12.11
 E S KAZ KAZSAT9 34.30E 0.10 0.10 21.42500 G 50000 K 24.12.08 A C108.520314/108.661934/0001
 TKA EV M 43.5 DB
 6M27G7W-- 17.2 DEW -51.0 DEW/HZ 2D:24.12.08
 E E KAZ ES-1KA AP7 56.6 DB
 RSS53/554 BROADCASTING-SATELLITE, SPACE OPERATION
 ALL WORLD 053E35 35N59 IRN 39.76 -108.22 41.66 -146.88 9.7

EXI DOWN-LINK IS AFFECTED
 I S IRN IRANDBS4-KA 34.00E 0.10 0.10 21.43000 G 60000 K 02.05.12 C112.523005/112.641812/0001
 KAIRAN ER M R123FR 40.0 DB
 54MOG7W-- 34.7 DEW -42.5 DEW/HZ 2D:24.12.11
 E S ARS/ARB ARABSAT 7B-26E 26.00E 0.10 0.10 21.70000 G 600000 K 24.05.09 A C109.520113/109.619907/0001
 KADB EV M 45.0 DB
 2SMOG7W-- 24.7 DEW -49.0 DEW/HZ 2D:24.05.09
 E E ARS TYPICAL KA13 REC-580 33.6 DB
 RSS53/554 BROADCASTING-SATELLITE, SPACE OPERATION
 ALL WORLD 054E01 33N01 IRN 40.00 -104.94 1.98 -106.92 9.7

SUMMARY FOR TRANSACTION : C 112.523005 IRANDBS4-KA IRN
 RESOLUTION 553/554 ADMINISTRATIONS RECEIVING INTERFERENCE:
 CONCERNED ADM: ARS/ARB, CTI/RAS, CYP, D, F, G, HOL, I, ISR, KAZ, LUX, MLA, PAK, PNG, QAT, RUS, TUR, UAE, UKR
 KAIRAN E G112.641812 21 GHZ :ARS/ARB CTI/RAS CYP D F G HOL I ISR KAZ LUX
 MLA PAK PNG QAT RUS TUR UAE UKR
 KAIRAN E G112.641813 21 GHZ :ARS/ARB CTI/RAS CYP D F G HOL I ISR KAZ LUX
 MLA PAK PNG QAT RUS TUR UAE UKR
 KAIRAN E G112.641814 21 GHZ :ARS/ARB CTI/RAS CYP D F G HOL I ISR KAZ LUX
 MLA PAK PNG QAT RUS TUR UAE UKR
 KAIRAN E G112.641815 21 GHZ :ARS/ARB CTI/RAS CYP D F G HOL I ISR KAZ LUX
 MLA PAK PNG QAT RUS TUR UAE UKR



Annex 2 Res 553 a)

Review PXT Result

ORDINARY

START OF JOB SNSBPXT 05.09.12 16.54.22 VERSION 6.3.0.3 RES. 553/554 ONLY
 111523001-- karinalG ONY

SNS PXT for YAHSAT-G6-67.5E_1 (111523001) ANALYSIS REQUESTED BY : karina DATE: 05/09/12 16:54:22

EXI DOWN-LINK IS AFFECTED
 I S UAE YAHSAT-G6-67.5E_1 67.50E 0.05 0.05 21.42500 G 50000 K 25.12.11 C111.523001/111.724396/0001
 KAD3 EV M 45.0 DB
 50K0G7W-- 9.0 DEW -38.0 DEW/HZ 2D:
 E S PNG NEW DAWN 24 66.00E 0.10 0.10 21.70000 G 600000 K 19.05.11 A C110.520127/111.647638/0001
 KA6R EV M 55.0 DB
 36M0G7W-- 25.1 DEW -50.5 DEW/HZ 2D:19.05.11
 E E PNG TYPICAL KAO.35M 29.0-25*LOG(FI) 35.2 DB
 RS553/554 BROADCASTING-SATELLITE, SPACE OPERATION
 ALL WORLD 069E11 00N00

45.00 -108.07 31.89 -139.95 9.7

EXI DOWN-LINK IS AFFECTED
 I S UAE YAHSAT-G6-67.5E_1 67.50E 0.05 0.05 21.42500 G 50000 K 25.12.11 C111.523001/111.724396/0001
 KAD3 EV M 45.0 DB
 50K0G7W-- 9.0 DEW -38.0 DEW/HZ 2D:
 E S KAZ KAZSAT1M 58.50E 0.10 0.10 21.42500 G 50000 K 12.09.07 A C107.520191/107.655864/0001
 TKA EV M 43.5 DB
 6M97G7W-- 17.2 DEW -51.0 DEW/HZ 2D:12.09.07
 E E KAZ ES-1KA AP7 56.6 DB
 RS553/554 BROADCASTING-SATELLITE, SPACE OPERATION
 ALL WORLD 067E04 36N19 AFG

45.00 -108.41 0.08 -108.48 9.7

PFD MASK 2

SUMMARY FOR TRANSACTION : C 111.523001 YAHSAT-G6-67.5E_1
 RESOLUTION 553/554 ADMINISTRATIONS RECEIVING INTERFERENCE:

CONCERNED ADM: CYP, F, G, ISR, KAZ, PNG, QAT, TUR

Station	Freq	Pol	Mod	Dir	Intf	Intf	Intf	Intf	Intf
KAD3	E 111.724396	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724397	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724398	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724399	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724400	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724401	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724402	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724403	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724404	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724405	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724406	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724407	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724408	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724409	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724410	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724411	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724412	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724413	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724414	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR
KAD3	E 111.724415	21 GHZ	:CYP	F	G	ISR	KAZ	PNG	QAT TUR

Annex 2 Res 553 b)
 Or Res 554

New Special Section

- The Special Section is published and named differently, i.e. CR/F/XXXX. This is needed in order to maintain the integrity of the number of CR/C that clearly indicates the chronological order of receipt of the Coordination request in the BR
- The coordination request in this band will be split and separate queue will be maintained for examination, with a name different from that of its feeder-link filing



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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE		IRANDBS4-KA		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	CR/F/1
				BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2728 / 18.09.2012
ADM. RESPONSABLE RESPONSABLE ADM. ADM. RESPONSABLE	IRN	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	34 E	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	112523005
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL					02.05.2012

X	LA PROCÉDURE SPÉCIALE RÉSOLUTION 553	SPECIAL PROCEDURE OF RESOLUTION 553 APPLIES	ITO ESPECIAL DE LA V 553
<p>Cette demande de coordination dans la bande 21,4-22 GHz, reçue par le Bureau des radiocommunications en application du numéro 9.30 du Règlement des radiocommunications, a été examinée au titre des numéros 9.35 et 9.36 et elle est publiée conformément au numéro 9.38. Cette demande est assujettie à la coordination au titre du numéro 9.7. Conformément aux numéros 9.50-9.52 du Règlement des radiocommunications, les Administrations identifiées dans le Tableau I ci-après sont priées de faire connaître leur décision à l'administration responsable et au Bureau avant la date limite indiquée ci-après.</p>		<p>This request for coordination for BSS in the band 21.4-22GHz, 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</p>	<p>en la banda 21,4-22 GHz, recibida por la Oficina de Radiocomunicaciones, se requiere a las Administraciones identificadas en el Cuadro I que figura más adelante que comuniquen su decisión a la Administración responsable y a la Oficina dentro del plazo indicado más abajo.</p>
		DATE D'ACCÈS PRIORITAIRE PRIORITY ACCESS DATE FECHA DE ACCESO PRIORITARIO	24.12.2011

<p>their decision to the Responsible administration and the Bureau by the deadline indicated below.</p>		
<p>Cette demande de coordination dans la bande 21,4-22 GHz, reçue par le Bureau des radiocommunications en application du numéro 9.30 du Règlement des radiocommunications, a été examinée au titre des numéros 9.35 et 9.36 et elle est publiée conformément au numéro 9.38. Cette demande est assujettie à la coordination au titre du numéro 9.7. Conformément aux numéros 9.50-9.52 du Règlement des radiocommunications, les Administrations identifiées dans le Tableau I ci-après sont priées de faire connaître leur décision à l'administration responsable et au Bureau avant la date limite indiquée ci-après.</p>	<p>Administrations identified in Table I below are requested to communicate their decision to the Responsible administration and the Bureau by the deadline indicated below.</p>	<p>De acuerdo con los números 9.50-9.52 del Reglamento de Radiocomunicaciones, se requiere a las Administraciones identificadas en el Cuadro I que figura más adelante que comuniquen su decisión a la Administración responsable y a la Oficina dentro del plazo indicado más abajo.</p>

DATE LIMITE POUR LA DÉCISION / EXPIRY DATE FOR DECISION / FECHA LÍMITE PARA LA DECISIÓN	18.01.2013
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RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATELITE		YAHSAT-G6-67.5E_1		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	CR/F/3
				BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2730 / 16.10.2012
ADM. RESPONSABLE RE SPONSIBLE ADM. ADM. RESPONSABLE	UAE	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	67.5 E	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NUMERO DE IDENTIFICACION	111523001
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACION RECIBIDA POR LA OFICINA EL					25.12.2011

+

LA PROCÉDURE SPÉCIALE PRÉVUE DANS LA RESOLUTION 553 S'APPLIQUE	SPECIAL PROCEDURE OF RESOLUTION 553 APPLIES	SE APLICA EL PROCEDIMIENTO ESPECIAL DE LA RESOLUCION 553
<p>Cette demande de coordination pour le SRS dans la bande 21.4-22 GHz, reçue par le Bureau des radiocommunications en application du numéro 9.30 du Règlement des radiocommunications, a été examinée au titre des numéros 9.35 et 9.36 et elle est publiée conformément au numéro 9.38. Cette demande est assujettie à la coordination au titre du numéro 9.7.</p> <p>Conformément aux numéros 9.50-9.52 du Règlement des radiocommunications, les Administrations identifiées dans le Tableau I ci-après sont priées de faire connaître leur décision à l'administration responsable et au Bureau avant la date limite indiquée ci-après.</p>	<p>This request for coordination for BSS in the band 21.4-22GHz, 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 No.9.7 coordination.</p> <p>In accordance with Nos. 9.50-9.52 of the Radio Regulations, the Administrations identified in Table I below are requested to communicate their decision to the Responsible administration and the Bureau by the deadline indicated below.</p>	<p>Esta solicitud de coordinación para el SRS en la banda 21.4-22 GHz, recibida por la Oficina de Radiocomunicaciones con arreglo al número 9.30 del Reglamento de Radiocomunicaciones, ha sido examinada de acuerdo con los números 9.35 y 9.36 y se publica según lo dispuesto en el número 9.38. Está sujeta a la coordinación del número 9.7.</p> <p>De acuerdo con los números 9.50-9.52 del Reglamento de Radiocomunicaciones, se requiere a las Administraciones identificadas en el Cuadro I que figura más adelante que comuniquen su decisión a la Administración responsable y a la Oficina dentro del plazo indicado más abajo.</p>
<p>DATE D'ACCÈS PRIORITAIRE PRIORITY ACCESS DATE FECHA DE ACCESO PRIORITARIO</p>		25.12.2011

X	<p>This request for coordination for BSS in the band 21.4-22 GHz, 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 No.9.7 coordination.</p> <p>In accordance with Nos. 9.50-9.52 of the Radio Regulations, the Administrations identified in Table I below are requested to communicate their decision to the Responsible administration and the Bureau by the deadline indicated below.</p>	<p>de coordinación en la banda 21.4-22 GHz, recibida por la Oficina de Radiocomunicaciones con arreglo al número 9.30 del Reglamento de Radiocomunicaciones, ha sido examinada de acuerdo con los números 9.35 y 9.36 y se publica según lo dispuesto en el número 9.38. Está sujeta a la coordinación del número 9.7.</p> <p>De acuerdo con los números 9.50-9.52 del Reglamento de Radiocomunicaciones, se requiere a las Administraciones identificadas en el Cuadro I que figura más adelante que comuniquen su decisión a la Administración responsable y a la Oficina dentro del plazo indicado más abajo.</p>
<p>DATE LIMITE POUR LA DÉCISION / EXPIRY</p>		16.02.2013



Special Procedure Only Once !!

- Each administration is allowed only once whether or not the system is realized
- Web information is maintained :
<http://www.itu.int/ITU-R/space/snl/>

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Space Network List (SNL)

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Preface

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SNS

The Space Network List (SNL) is a list of basic information concerning planned or existing space stations, earth stations and radio astronomy stations. It includes sections on Advanced Publication Information, coordination requests, notifications, Plans information and their related processing backlog.
More information can be found in the Circular Letter 232. Also, The Bureau would appreciate receiving your comments.

SNL Part A gives information on the use of the frequency spectrum, the occupancy of the geostationary orbit and non-geostationary orbit.
SNL Part B gives information on all reference publications (special sections and PARTS) related to the space services.
SNL Part C gives information on pending networks - received but not yet published by the Bureau.
To obtain more detail information on a network, please consult SNS-online.

 The collection of the BR WIC and BR IFIC Space Services is purchasable on DVD ROM


FREQUENCY USE - ORBIT OCCUPANCY (PART-A)

- List of space networks by frequency bands and orbital position

REPORTS

- Quarterly publication (download)
- ITU BR Annual Space Report on the use of the GSO and other orbits

REFERENCE PUBLICATIONS (PART-B)

- Query by general publication references
- Query by Special Section name
- Query by group of Special Sections
- Definition of the Special Sections : 

SATELLITE NETWORK INFORMATION

- Bringing into use
- Suspension
- Change of names
- Change of notifying administration

INFORMATION "AS RECEIVED" (PART-C)

- Coordination Requests
- Notifications of Space Stations
- Notifications of Earth Stations
- Article 4 of AP30/30A
- Article 2A of AP30/30A
- Articles 6 and 7 of AP30B

BSS - RR 23.13 AND RES 553

- BSS service area exclusion under RR 23.13 - Networks published in AP30/E Part A
- BSS service area exclusion under RR 23.13 - Networks published in SNS
- BSS in 21.4 - 22 GHz (WRC-12)**

http://www.itu.int/ITU-R/go/space-res553/en



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BSS in 21.4 - 22 GHz (WRC-2012)

Resolution 553 (WRC-12)

List of satellite networks for which a request for the special procedure under Resolution 553 (WRC-12) has been received by the Bureau:

ADM	Satellite network	Date of receipt	SNS ID
IRN	IRANDBS4-KA_1	02.05.2012	112525001

Resolution 552 (WRC-12)

Form of submission for information required under Resolution 552 (WRC-12): [FORM_RES552.xls](#) 

Due Diligence (Resolution 552)

Long term access to and development in the band 21.4-22 GHz in Region 1 and 3

Similar to Res 49



ITU-ID



some new data elements (more details + suspension information if applicable)

For small number of networks, this information had to be submitted before **17 August 2012** and had to be published within 2 months



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RESEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE		EUTELSAT-B1-16E		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	RES552/1
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		---		BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2734 / 11.12.2012
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	F	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	16 E	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	112593001
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL					14.08.2012

Les renseignements ont été reçus conformément aux § 1 ou 5 de l'Annexe 1 à la Résolution 552 (WRC-2012). Ils sont publiés par le Bureau des radiocommunications en application du § 4 et § 6 de cette même annexe.

This information has been received pursuant to § 1 or 5 of Annex 1 to Resolution 552 (WRC-2012). It is published by the Radiocommunication Bureau in accordance with § 4 and § 6 of that Annex.

La información ha sido recibida de conformidad con los § 1 ó 5 del Anexo 1 a la Resolución 552 (WRC-2012). Se publica por la Oficina de Radiocomunicaciones en virtud del § 4 y § 6 de este anexo.

Informations détaillées aussi disponibles sur:

- les bases de données SRS ou SPS que l'on peut consulter à l'aide du logiciel SpaceQry
- ou
- Space Network Systems Online Service: <http://www.itu.int/sns/>

Detailed information also available on the:

- SRS or SPS databases which can be viewed using SpaceQry software
- or
- Space Network Systems Online Service: <http://www.itu.int/sns/>

Información detallada también disponible en:

- las bases de datos SRS o SPS que pueden consultarse utilizando el programa SpaceQry
- o
- Space Network Systems Online Service: <http://www.itu.int/sns/>

A A1a Sat. Network A1f1 Notifying adm. A1f3 Inter. sat. org. BR1 Date of receipt
 BR6a/BR6b Id. no. BR3a Provision reference BR2 Adm. serial no.

A4a1 Orbital long. BR4 First date of bringing into use

BR6c Linked Id. no. AR11/A API: CR: NOTIF:

A13 Ref. to Special Sections AR11/A API: CR: NOTIF:

C1 Frequency Range in the relevant special section				BR1
C1a Lower limit		C1b Upper limit		Date of receipt
21.4	GHz	22	GHz	14.08.2012

BR85 SpacecraftITU ID BR86 Regulatory status BR87 Date of regulatory status BR88 Reason for suspension

BR89 Spacecraft manufacturer

BR31 Date of execution of the contract BR90 Delivery date

BR34 Launch vehicle provider BR35 Launch vehicle

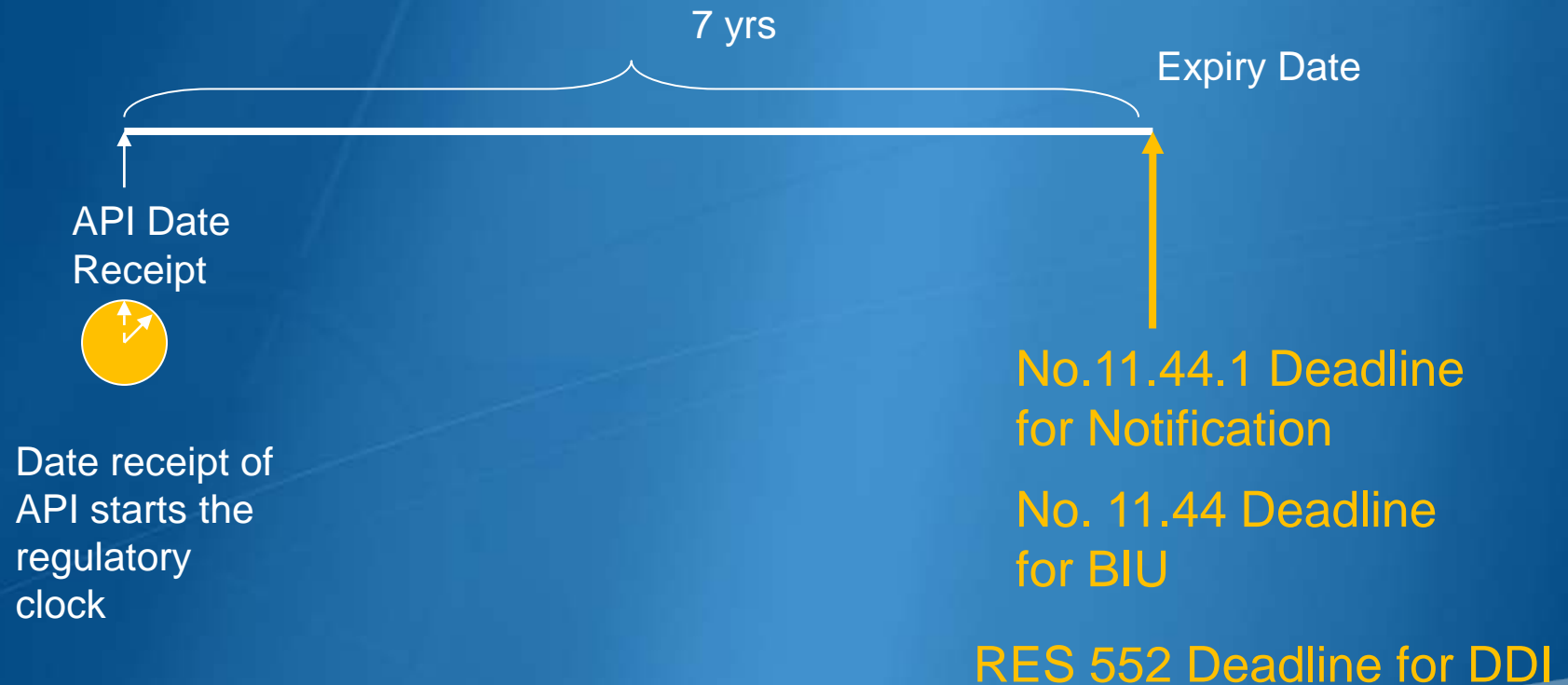
BR36 Date of execution of the contract BR91 Launch date

BR38 Launch facility BR39 Country/location BR40 Geographical coordinates

BR41 Commercial name

C1 Frequency Range on board of the spacecraft				
BR94 Lower limit		BR95 Upper limit		
J1	21.401801	GHz	21.434801	GHz
J2	21.434801	GHz	21.467801	GHz
J3	21.467801	GHz	21.500801	GHz
J4	21.500801	GHz	21.533801	GHz
J5	21.533801	GHz	21.566801	GHz
J6	21.566801	GHz	21.599801	GHz
J7	21.599801	GHz	21.632801	GHz
J8	21.632801	GHz	21.665801	GHz
J9	21.665801	GHz	21.698801	GHz
J10	21.698801	GHz	21.731801	GHz
J11	21.731801	GHz	21.764801	GHz
J12	21.764801	GHz	21.797801	GHz
J13	21.797801	GHz	21.830801	GHz
J14	21.830801	GHz	21.863801	GHz

11.48 & 11.44.1, Regulatory Period: 7 Years



Circular letter CR/336

- Implementation of decisions of WRC-12
- Associated transitional arrangements that entered into force on 18 february 2012

Circular letter CR/334

- As from 1 january 2013, administrations are requested to use the new BR soft 7.0 when submitting to the Bureau for CRF and for Resolution 552(WRC-12).

Spacecap V7 – Res 553

SpaceCapture V7

File Edit Tools View Window Help

CR/NOTIF API RAST PLAN RS49/552

Forms of Notice Ap4/II and Ap4/III

Notice Station Beam Strapping Noise Gamma Attachments

Notice Id: 1 AP4/II and AP4/III (Appendix 4 - Annex 2A) 12.11.2012 Status 01

Notice submitted under:

No. 9.6 Coordination No. 11.2 Notification First Notification Resubmission

No. 9.11A Bands 21.4 to Bands 21.4 to 22 GHz Special Procedure

No. 9.7A Receive GSO FSS Coordination

No. 9.17 Coordination Administrations

Date: DD.MM.YYYY 12.11.2012 Administration Serial No.

A1f1 Notifying Administration A1f1 Notice submitted on behalf of these Administrations +

A1f3 Intergovernmental Satellite System *

Notice intended for:

Addition Modification Suppression

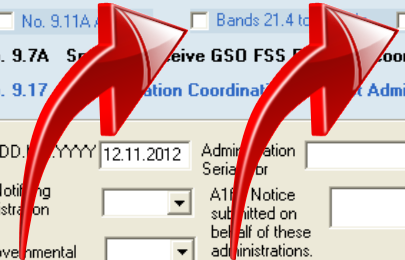
BR Identification No. of Station to be modified/suppressed

Type of Satellite Network or Earth Station

GeoStationary Satellite Network Specific Earth Station

NonGeoStationary Satellite Network Typical Earth Station

More...



Spacecap V7 – Res 552

The screenshot displays the SpaceCapture V7 application window. The title bar reads "SpaceCapture V7" and the menu bar includes "File", "Edit", "Tools", "Template", "Window", and "Help". The toolbar contains various icons for file operations and navigation. The main window is titled "Set Notice Template" and shows the "RS49 Wizard" dialog box. The wizard has a "Transaction Id:" field and an "Open Res49 filing" button. A smaller dialog box, "Resolution 49/552 Wizard V7", is overlaid on top. This dialog box contains the following text: "The RS49/RS552 Wizard requires the RS49/RS552 summary data for a Satellite network." and "Create the Due Diligence summary data with SpaceQry or SNS Online". It features two icons: "SpaceQry Due Diligence Query" and a URL "http://www.itu.int/sns/diligsum.html". Below this, there are two text boxes for specifying the mdb (Microsoft Access Database) that contains the Due Diligence summary data, each with a browse button "...". At the bottom of the dialog box are buttons for "Help", "Cancel", "< Back", "Next >", and "Finish".

SpaceCapture V7

File Edit Tools Template Window Help

CR/NOTIF API RAST PLAN RS49/552

Set Notice Template

SpaceCap

Start Page

Notice Explorer

Open N

Search

RS49 Wizard

RS49 Wizard

Transaction Id:

Open Res49 filing

Resolution 49/552 Wizard V7

The RS49/RS552 Wizard requires the RS49/RS552 summary data for a Satellite network.

Create the Due Diligence summary data with SpaceQry or SNS Online

SpaceQry Due Diligence Query <http://www.itu.int/sns/diligsum.html>

Specify the mdb that contains Due Diligence summary data downloaded from SNS Online.

The Wizard will create the RS49 Submission in this mdb.

Help Cancel < Back Next > Finish

Reviewing number of submissions and harmonizing technical parameters

- ADD
- **5.530D** See Resolution 555 (COM5/9) (**WRC-12**). (WRC-12)
- Resolution 555, Additional regulatory provisions for broadcasting-satellite service networks in the band 21.4-22 GHz in Regions 1 and 3 for the enhancement of equitable access to this band :
 - Administrations to review their submissions in the band 21.4-22 GHz submitted before 18 February 2012 and indicate to the Bureau, before 30 June 2012, the networks which are no longer required to be considered and processed by the Bureau and administrations under Articles **9** and **11**;
 - Administrations to accommodate submissions received from other administrations with few filings
 - For submissions received before 18 February 2012 but not yet processed by the Bureau, the notifying administration may modify, without any change in their initial date of receipt, the characteristics of the submissions and supply new values within the ranges specified in Annex 1 to the Attachment to Resolution **553 (WRC-12)** or Report ITU-R BO.2071;
 - For submissions received before 18 February 2012 and processed by the Bureau, the notifying administration may modify, without any change in their initial date of receipt, the characteristics within the ranges specified in Annex 1 to the Attachment to Resolution **553 (WRC-12)** or Report ITU-R BO.2071, provided that such modifications do not cause more interference than the current submitted parameters

Question ?



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