





## Advance Publication Information (API)

Akim FALOU DINE






Union internationale des télécommunications



UIT - UAT SÉMINAIRE RÉGIONAL  
DES RADIOCOMMUNICATIONS  
POUR L'AFRIQUE

**NIAMEY, NIGER**  
**20-24 AVRIL 2015**

[www.itu.int/go/ITU-R/seminars](http://www.itu.int/go/ITU-R/seminars)



Organisé par:



# Background

- Advance Publication Information (API) is obligatory, before coordination phase or notification (No.9.1)
- First step for all bands not subject to a plan
- No priority in being first to start advance publication
- Formal date of receipt of the API (No.9.1) starts the “regulatory clock” to count towards the 7-year limit



# Advance Publication Information – Radio Regulations

- Section I of Article 9 : Advance publication of information on satellite networks or satellite systems
- No.9.1:
  - Before initiating any action under this Article or under Article **11** in respect of frequency assignments for a satellite network or a satellite system, an administration, or one acting on behalf of a group of named administrations, shall, prior to the coordination procedure described in Section II of Article **9** below, where applicable, **send to the Bureau a general description of the network or system for advance publication** in the International Frequency Information Circular (BR IFIC) not earlier than seven years and preferably not later than two years before the planned date of bringing into use of the network or system (see also No. **11.44**).
  - The characteristics to be provided for this purpose are listed in **Appendix 4**.
  - The coordination or notification information may also be communicated to the Bureau at the same time;
    - it shall be considered as having been received by the Bureau **not earlier than six months after the date of receipt of the information for advance publication** where coordination is required by Section II of Article **9**.
    - Where coordination is not required by Section II, notification shall be considered as having been received by the Bureau **not earlier than six months after the date of publication of the advance publication information**.



# Advance Publication Information - regulations

- Actions by the Bureau
  - **No.9.2A**
    - If the information is found to be **incomplete**, the Bureau shall immediately seek from the administration concerned any clarification required and information not provided.
      - **See also §3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9** of Rules of Procedure on Receivability
  - **No.9.2B**
    - On receipt of the **complete** information sent under Nos. **9.1** and **9.2**, the Bureau shall publish it in a Special Section of its BR IFIC within three months. When the Bureau is not in a position to comply with the time limit referred to above, it shall periodically so inform the administrations, giving the reasons therefor.



# Types of API submissions

## - Sub-section IA

- not subject to coordination under Section II of Article 9
  - Mainly Non-GEO networks
    - Also for GEO networks with inter-satellite link operating with other space stations in bands not subject to coordination (Rules of Procedure relating to No.11.32)
  - Detailed data requirement under Appendix 4
  - Cost recovery category A1 (570 CHF)
    - Exception for Amateur satellite service
  - 4 months for comments, published in an API/B special section
  - Notification if submitted at the same time with the API, will be considered received 6 months after the date of publication of the API

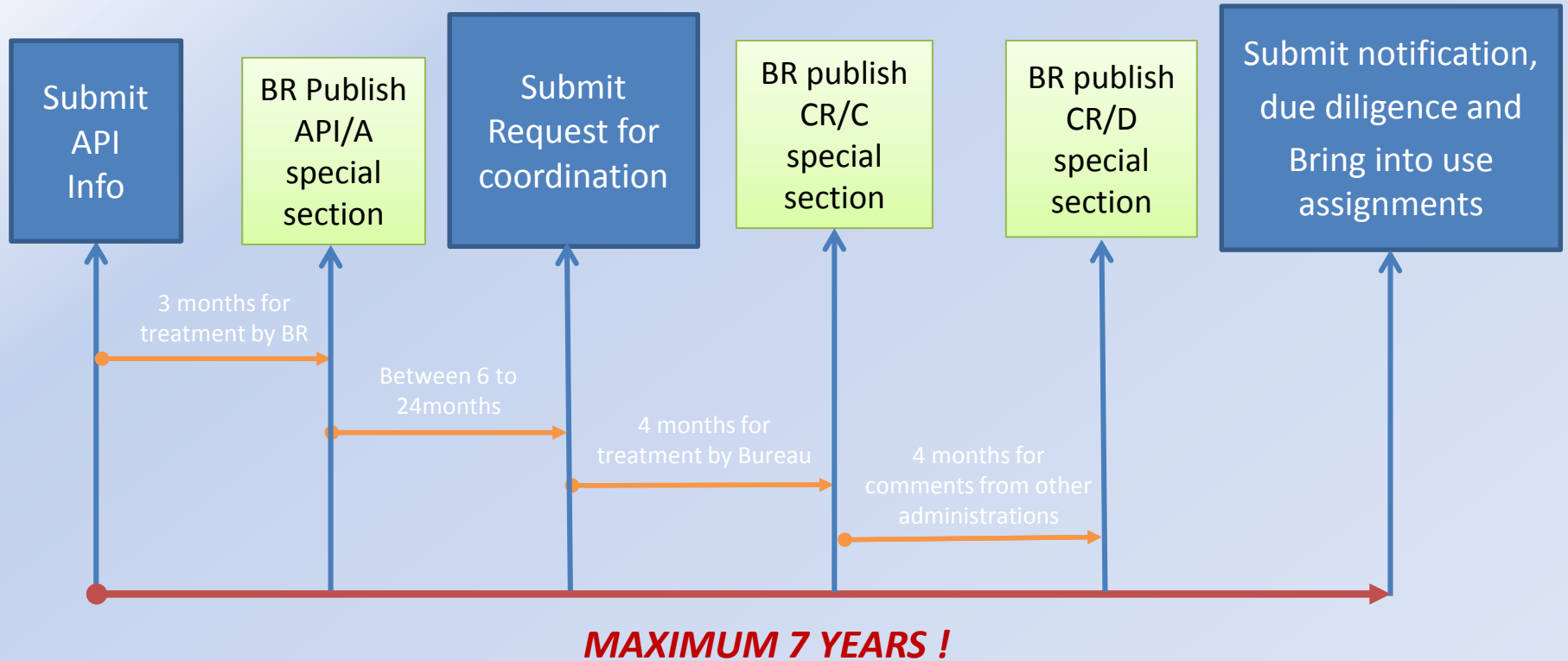


# Types of API submissions - sub-section IB

- subject to coordination under Section II of Article 9
  - For all GEO networks except for point mentioned above
  - For Non-GEO networks operating in bands subject to coordination
  - Simplified data requirement under Appendix 4
  - No cost recovery fee
  - No publication of comments
  - Coordination if submitted at the same time as the API, will be considered as received 6 months after the date of receipt of the API
  - From 1/1/2015, submissions through Spacewisc

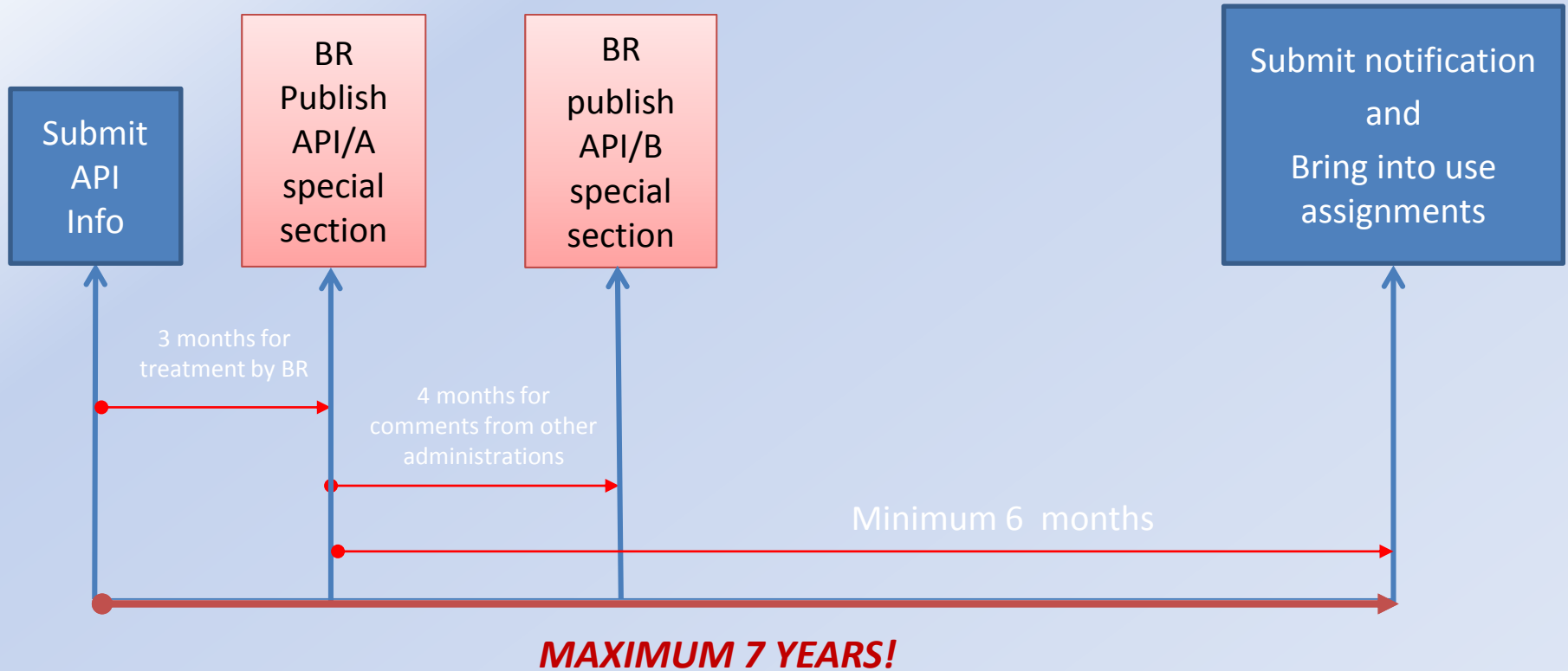


# ITU Process for satellite network subject to coordination





# ITU Process for satellite network not subject to coordination







# Advance Publication Information – Information required

- Annex 2 of Appendix 4
  - 3 separate columns for API
    - Advance publication of a geostationary-satellite network
    - Advance publication of a non-geostationary-satellite network subject to coordination under Section II of Article 9
    - Advance publication of a non-geostationary-satellite network not subject to coordination under Section II of Article 9
- Resolution 55
  - .....shall be submitted in electronic format compatible with the BR electronic notice form capture software (Spacecap)
- Resolution 908 and Rules of Procedure relating to Receivability
  - APIs for networks subject to coordination shall be submitted through Spacewisc (with effect from 1.1.2015)



# API special section - 1



UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS  
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION  
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES  
OFICINA DE RADIOCOMUNICACIONES

© I.T.U.

RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE		<b>GBSAT-KA-02</b>		SECTION SPÉCIALE N <sup>o</sup> SPECIAL SECTION No. SECCIÓN ESPECIAL N.º		<b>API/A/8307</b>			
				BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA					
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	<b>G</b>	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	<b>95 E</b>	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN					
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA									

Ces renseignements sont publiés par le Bureau des radiocommunications en application du No. 9.2B. Ils font l'objet de la (les) procédure(s) suivante(s), indiquée(s) ci-dessous par un X dans la case pertinente.

This information is published by the Radiocommunication Bureau in accordance with No. 9.2B. It is subject to the procedure(s) indicated below by an X in the relevant box.

Esta información se publica por la Oficina de Radiocomunicaciones en virtud del No. 9.2B. Está sujeta al (a los) procedimiento(s) siguiente(s), señalado(s) con una X en la casilla apropiada.

<input type="checkbox"/>	Les renseignements ont été reçus conformément à l'Article 9, sous-section IA  Toute administration estimant que des brouillages inacceptables peuvent être causés à ses réseaux ou à ses systèmes à satellites existants ou en projet devra communiquer ses commentaires à l'administration qui a demandé la publication, avec copie au Bureau des radiocommunications, dans le délai de quatre mois qui suit la date de la présente publication.	The information has been received pursuant to Article 9, Sub-Section IA  Any administration which believes that unacceptable interference may be caused to its existing or planned satellite networks or systems shall communicate its comments to the publishing administration, with a copy to the Radiocommunication Bureau, within four months after the date of this publication.	La información ha sido recibida de conformidad con el Artículo 9, sub-sección IA  Toda administración que estime que pueden causarse interferencias inaceptables a sus redes o sistemas de satélites existentes o previstos comunicará sus comentarios a la administración que haya publicado la información, con copia a la Oficina de Radiocomunicaciones, en un plazo de cuatro meses contados a partir de la fecha de esta publicación.
<b>DATE LIMITE POUR LA RÉCEPTION DES COMMENTAIRES EXPIRY DATE FOR THE RECEIPT OF COMMENTS FECHA LÍMITE PARA LA RECEPCIÓN DE LOS COMENTARIOS</b>			
<input checked="" type="checkbox"/>	Les renseignements ont été reçus conformément à l'Article 9, sous-section IB  Toute administration estimant que ses réseaux à satellite, ses systèmes à satellites ou ses stations de terre, selon le cas, existants ou en projet, sont affectés, peut envoyer ses observations à l'administration qui a demandé la publication des renseignements, avec copie au Bureau des radiocommunications.	The information has been received pursuant to Article 9, Sub-Section IB  Any administration which considers that its existing or planned satellite systems or networks or terrestrial stations, as appropriate, are affected, may send its comments to the administration which has requested publication of the information, with a copy of such comments to the Radiocommunication Bureau.	La información ha sido recibida de conformidad con el Artículo 9, sub-sección IB  Cualquier administración que considere que sus sistemas o redes de satélites o estaciones terrenales, según el caso, existentes o planificados se verán afectados, podrá comunicar sus comentarios a la administración que haya solicitado la publicación de la información, enviando una copia de dichos comentarios a la Oficina de Radiocomunicaciones.

Information aussi disponible sur le / Information also available on the / Información también disponible en:

Space Network Systems Online Service : <http://www.itu.int/sns/advpub.html>



# API special section - 2

SECTION SPECIALE / SPECIAL SECTION / SECCIÓN ESPECIAL / 特节 / СПЕЦИАЛЬНАЯ СЕКЦИЯ / القسم الخاص

<b>A</b>	<b>A1a Sat. Network</b> GBSAT-KA-02	<b>A1f1 Notifying adm.</b> G	<b>A1f3 Inter. sat. org.</b>	<b>BR1 Date of receipt</b> 03.04.2013	<b>B</b>
	<b>BR6a/BR6b Id. no.</b> 113540091	<b>BR3a Provision reference</b> 9.1/IB		<b>BR2 Adm. serial no.</b>	

**A1f2 Submitted on behalf** \_\_\_\_\_

**A4a1 Orbital long.** 95 E

<b>BR7a/BR7b Group id.</b> 113636841	<b>B2 Emi-Rcp</b> R	<b>BR1 Date of receipt</b> _____	<b>C2c RR No. 4.4</b> _____
--------------------------------------	---------------------	----------------------------------	-----------------------------

**BR14 Special Section** API/A/8307

**A2b Period of valid.** 25

**BR60 Regulatory deadline(s)** 11.44/11.44.1 03.04.2020 9.5D 03.04.2015

C1 Frequency Range	
C1a Lower limit	C1b Upper limit
30 GHz	31 GHz

**C4a Class of station** EC ED EI EK

**C4b Nature of service** OT OT OT OT

**C11a2 Service area** XVE

**C11a3 Service area diagram** \_\_\_\_\_

**C11a4 Service area name** \_\_\_\_\_

<b>BR7a/BR7b Group id.</b> 113636842	<b>B2 Emi-Rcp</b> E	<b>BR1 Date of receipt</b> 03.04.2013	<b>C2c RR No. 4.4</b> _____
--------------------------------------	---------------------	---------------------------------------	-----------------------------

**BR14 Special Section** API/A/8307

**A2b Period of valid.** 25

**BR60 Regulatory deadline(s)** 11.44/11.44.1 03.04.2020 9.5D 03.04.2015



# Modifications to API - GEO

- For GEO network, the following changes will be considered a new request, and therefore will be given a new date of receipt
  - Submission of an **additional frequency band** or
  - **modification of the orbital location by more than  $\pm 6^\circ$**  for a space station using the geostationary-satellite orbit



# Expiry of API

- API will be suppressed if no request for coordination is submitted for the bands within 24 months from API receipt (No. 9.5D)
- All special sections, including API, will be suppressed if notification or due diligence information is not submitted within 7 years of the receipt of API, or if the frequency assignments are not brought into use within the same period (No.11.48).



# Software for submission

- Software
  - Spacecap – for capturing the information
    - Spaceval – for validating the information
  - Spacepub – for viewing/printing detailed information
- Database
  - Must be in SNS format

*From 1/1/2015, all APIs subject to coordination must be submitted through the web-based submission system: Spacewisc*



# Advance Publication Procedure - sub-section IA

- Check against table of frequency allocations to be sure that service is allocated for that frequency band
- If service is not allocated for the band, consider selecting another band or request for the application of No.4.4
- Verify whether the frequencies are subject or not subject to coordination
- Check that information is complete
  - Run Spaceval to make sure there is no fatal error
- Check that antenna radiation patterns are submitted where necessary for space station and earth station
- Frequency band at the API stage should not be too narrow



# Modifications to API

- for Non-GEO not subject to coordination

- For non-GEO network API where coordination is not required by Section II of Article 9, the following changes will be considered a new request, and therefore will be given a new date of receipt
  - modification of the reference body or
  - the modification of the direction of transmission for a space station using a non-GEO satellite orbit





# Submission to Bureau

- Create a zip file e.g. ITUSAT.zip containing
  - API ITUSAT.MDB - Change the file extension from “.mdb” to “.itu”
  - Any other attachments or notes in Word or PDF format
- Send email with attachment ITUSAT.zip to [BRMAIL@ITU.INT](mailto:BRMAIL@ITU.INT)
- Send confirmation telefax to BR at +41 22 7305785
- *From 1/1/2015, all APIs subject to coordination must be submitted through the web-based submission system: Spacewisc*



# Questions?

akim.faloudine@itu.int  
ITU-BR/SSD/SPR

