International Telecommunication Union

Cost recovery for satellite network filings

Akim FALOU DINE

Niamey, **NIGER**
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Implementation of cost recovery: ITU Council and WRC

- The ITU Council determines the cost recovery principles and fees for satellite network filings
  - Council Decision 482 and others
- The WRC determines regulation covering satellite network filings, including the penalty in the event of non-payment of cost recovery fee
  - Radio Regulations No.9.38.1 etc.

Council Decision 482

- Established a schedule of processing charge that relates to the complexity and size of a filing
- Complexity is modeled with categories
- Size is modeled by units
- For most filings, flat fee only
- For small filings, Start fee + per unit fee
- 6 months to make payment
- One free entitlement a year for each member state
- Created in Council 1999, modified in Council 2001, 2002, 2004 and 2005

Applicable version of Decision 482

- for filings received on or after 31 December 2004 but before 1 January 2006, Decision 482 modified (C-04) applies;
- for filings received on or after 1 January 2006, Decision 482 modified (C-05) applies;

- *In this presentation, only Decision 482 modified (C-05) will be covered.*

What Filings are chargeable?

- API for NGSO not subject to coordination
- API for inter-satellite links of a GSO communicating with NGSO not subject to coordination
- Coordination Requests
- Modifications of the Space Service Plans and Lists
- The use of guardbands
- Requests for implementation of the FSS plans
- Notification for recording

Categorization of filings

- By filing type
  - Advanced Publication (A1)
  - Coordination Request (C1-C3)
  - Notifications (N1-N4)
  - Modifications to Plans and corresponding notifications (P1-P5)

Fees for API (Art. 9 – Section IA)

- Only the following APIs are subject to a cost recovery fee
  - API for NGSO not subject to coordination
  - API for inter-satellite links of a GSO communicating with NGSO not subject to coordination
- Flat fee for these APIs: 570 CHF

Categorization of Coordination Requests (Art. 9 – Section II)

- By number of cost-recovery forms of coordination
  - 1 form of coordination – C1
  - 2 or 3 forms of coordination – C2
  - 4 or more forms of coordination – C3
  - If entire notice is found to be unfavourable under No.11.31,
    or for cases published for information only – C1

What are forms of coordination?

Cost recovery form of coordination	RR forms of coordination
A	No. 9.7, RS33.3
B	AP30 7.1, AP30A 7.1
C	No. 9.11, RS33 2.1, RS539
D	Nos. 9.7B, 9.11A, 9.12, 9.12A, 9.13, 9.14
E	No. 9.7A
F	No. 9.21

Example of Coordination forms:

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	SWANSAT-3A	SECTION SPÉCIALE Nº SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	CR/C/2222
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA	---	BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA	2629 / 30.09.2008
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	NRU LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL 150 E	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	108520131
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BUREAU ON / INFORMACIÓN RECIBIDA POR LA OFICINA EL			15.05.2008

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 Nº 9.30 del Reglamento de Radiocomunicaciones, se ha examinado de conformidad con los Nºs 9.35 y 9.36 y se publica de conformidad con el Nº 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				
X	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 Nºs **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.
	9.7A			
	9.7B			
	9.42			
	AP30#7.1			
	AP30A#7.1			
	RS77			
	RS84			
	RS539			
	RS33#3			
Type de coordination mentionné dans le Tableau II / Form of coordination referred to in Table II / Formulario de coordinación remitido al cuadro II				
	9.11	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 Nºs **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 Nº **9.52** dentro del plazo señalado, no está afectada y, en el caso de los Nºs **9.11** a **9.14** y **RS33#2.1**, se aplicarán las disposiciones de los Nºs **9.48** y **9.49**
	9.11A			
	9.12			
	9.12A			
	9.13			
	9.14			
	9.21/A			
	9.21/B			
	9.21/C			
	RS33#2.1			

DATE LIMITE POUR LA DÉCISION / EXPIRY DATE FOR DECISION / FECHA LÍMITE PARA LA DECISIÓN	30.01.2009

What are Units?

- Units =

the number of frequency assignments
x
number of classes of station
x
number of emissions

summed up for all frequency assignment groups

- Only applicable for categories C1, C2, C3, N1, N2, N3
- For these categories, flat fee applies for units > 100

Example of a Special Section:

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

CR/C/2222

A *A1a* Sat. Network SWANSAT-3A *A1f1* Notifying adm. NRU *A1f3* Inter. sat. org. *BR1* Date of receipt 15.05.2008 *BR20/BR21* BR IFIC no./part 2629/

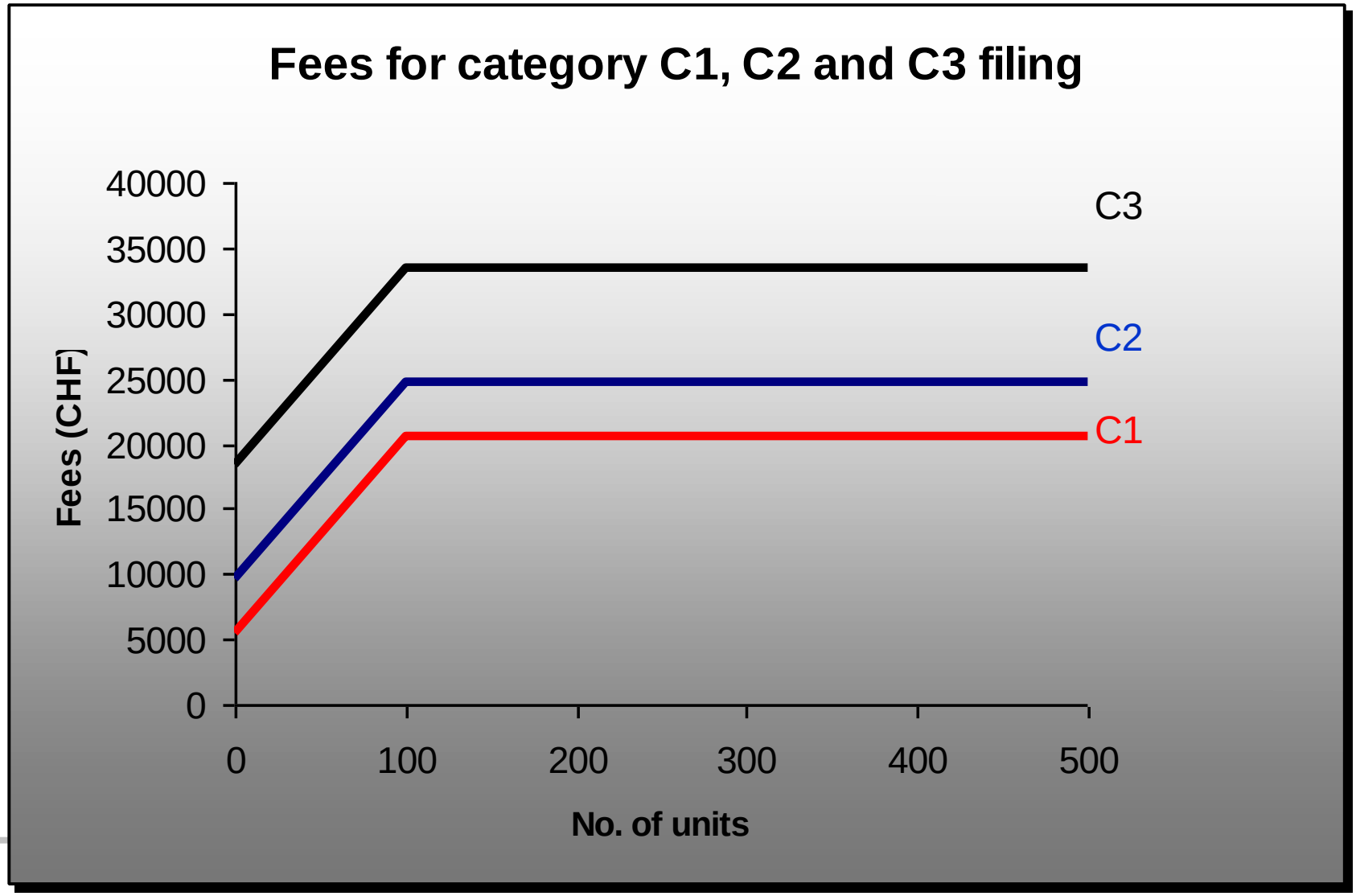
BR6a/BR6b Id. no. 108520131 *BR3a/BR3b* Provision reference 9.6 C *BR2* Adm. serial no.

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	13A Conformity with RR	C3a Assigned freq. band	BR47 Frequency band (MHz)	BR15 Provision reference	BR53 Nb of freq.	C4a Class of station	BR54 Nb of emiss.	BR55 Nb of units
			108617349		A-----	3000000	71000 - 74000	9.7	1	EC	3	3
			108617350		A-----	3000000	71000 - 74000	9.7	1	EC	3	3
			108617351		A-----	3000000	71000 - 74000	9.7	1	EI	3	3
			108617352		A-----	3000000	71000 - 74000	9.7	1	EI	3	3
			108617353		A-----	3000000	71000 - 74000	9.7	1	EI	3	3
			108617354		A-----	2000000	74000 - 76000	9.7	1	EB, EV	3	6
			108617355		A-----	2000000	74000 - 76000	9.7	1	EB, EV	3	6
			108617356		A-----	2000000	74000 - 76000	9.7	1	EB, EV	3	6
WD2	E		108617357		A-----	3000000	71000 - 76000	9.7	2	EC	3	6
			108617358		A-----	3000000	71000 - 76000	9.7	2	EC	3	6
			108617359		A-----	3000000	71000 - 76000	9.7	2	EC	3	6
			108617360		A-----	3000000	71000 - 74000	9.7	1	EI	3	3
			108617361		A-----	3000000	71000 - 74000	9.7	1	EI	3	3
			108617362		A-----	3000000	71000 - 74000	9.7	1	EI	3	3
			108617363		A-----	2000000	74000 - 76000	9.7	1	EB, EV	3	6
			108617364		A-----	2000000	74000 - 76000	9.7	1	EB, EV	3	6
			108617365		A-----	2000000	74000 - 76000	9.7	1	EB, EV	3	6
WD3	E		108617378		A-----	3000000	71000 - 76000	9.7	2	EC	3	6
			108617379		A-----	3000000	71000 - 76000	9.7	2	EC	3	6
			108617380		A-----	3000000	71000 - 76000	9.7	2	EC	3	6
			108617381		A-----	3000000	71000 - 74000	9.7	1	EI	3	3
			108617382		A-----	3000000	71000 - 74000	9.7	1	EI	3	3
			108617383		A-----	3000000	71000 - 74000	9.7	1	EI	3	3
			108617384		A-----	2000000	74000 - 76000	9.7	1	EB, EV	3	6
			108617385		A-----	2000000	74000 - 76000	9.7	1	EB, EV	3	6
			108617386		A-----	2000000	74000 - 76000	9.7	1	EB, EV	3	6

BR57 Category	C1
BR56 Total number of units	369

Fees for Coordination Requests

Category	Number of costrec forms of coordination	Fees (CHF)
C1	1	5 560 + 150 x Units (max 20 560)
C2	2 or 3	9 620 + 150 x Units (max 24 620)
C3	4 or more	18 467+ 150 x Units (max 33 467)


Fees for category C1, C2 and C3 filing
40000
35000
30000
25000
20000
15000
10000
5000
0
Fees (CHF)
0
100
200
300
400
500
No. of units
C3
C2
C1

Categorization of Notification (under Art11)

- By number of cost-recovery forms of coordination (similar to Coordination Requests)
  - 1 form of coordination – N1
  - 2 or 3 forms of coordination – N2
  - 4 or more forms of coordination – N3
    If entire notice is found to be unfavourable under No.11.31, or for cases published for information only – N1

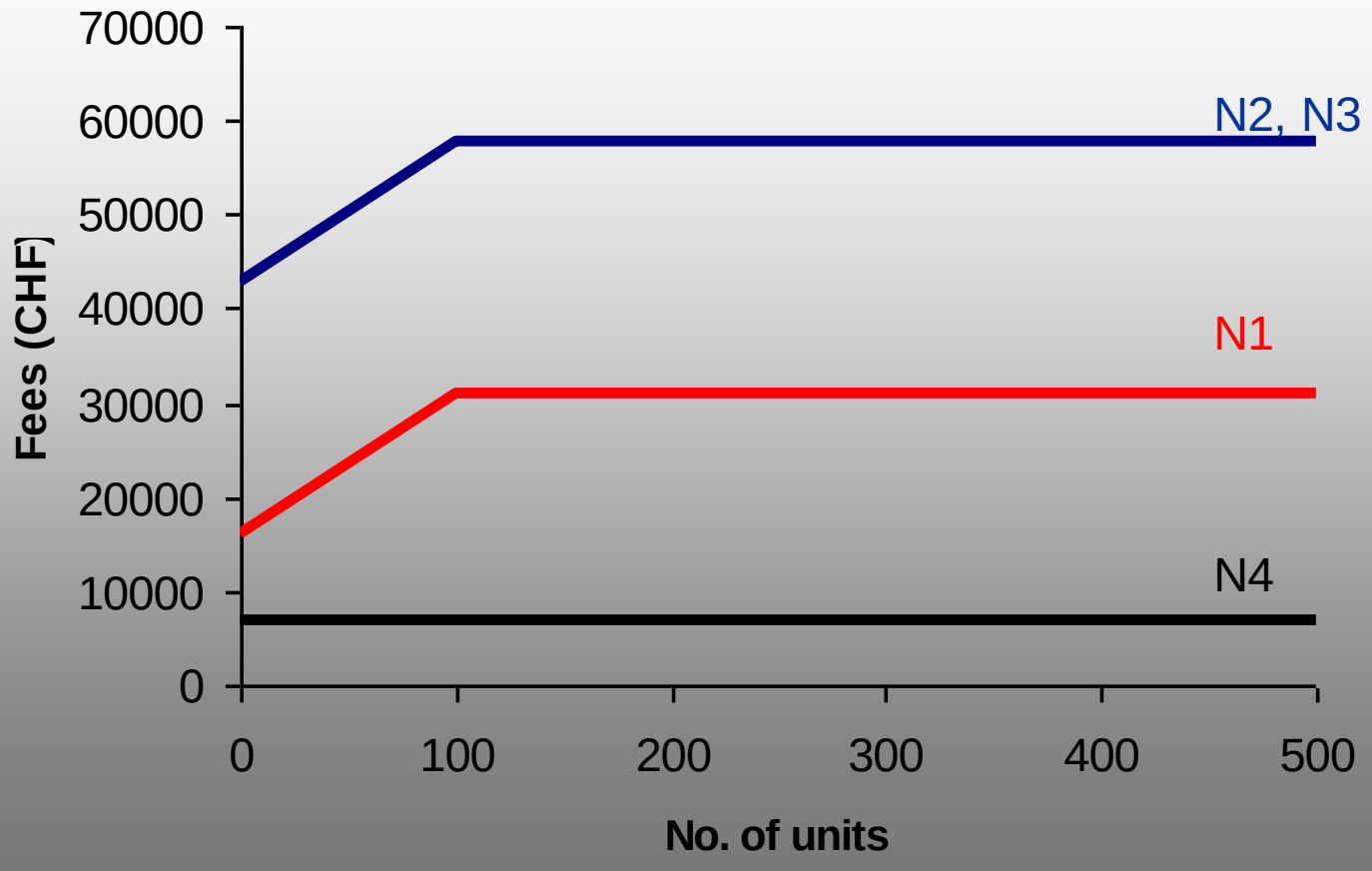
(Definitions of the forms of coordination and units are the same as those for coordination requests)

- For notification of satellite networks that are not subject to coordination - N4

Fees for Notification (Art 11)

Category	Number of costrec forms of coordination	Fees (CHF)
N1	1	15 910 + 150 x Units (max 30 910)
N2	2 or 3	42 920 + 150 x Units (max 57 920)
N3	4 or more	42 920+ 150 x Units (max 57 920)
N4	-	7 030

Fees for category N1, N2, N3 and N4 filing



Notification – Application of No.11.32A

- For categories N1, N2, N3 only
  - If procedure under No.**11.32A** is requested (examination with respect to the probability of harmful interference that may be caused to or by recorded assignments, or published under Nos. **9.38** but not yet notified, as appropriate, for those cases for which the notifying adm states that the procedure for coordination could not be successfully completed) - invoice will be issued for 100% of the fee
  - Otherwise, only 70% of the fee will invoiced, and 30% will be invoiced if and when No.**11.32A** is requested.

Fees for Plans (AP30/30A/30B)

– Flat fee for each category

Category	Description	Flat fee (CHF)
P1	AP30/E, AP30A/E, AP30-30E/ (Part A or Part B)	28 870
P2	Notification under Article 5 of AP30/30A	11 550
P3	Coordination request under Article 2A of AP30/30A	12 000
P4	Various procedures under AP30B	40 560
P5	Notification under Article 8 of AP30B	32 450

Invoicing process

- <u>Upfront Stage:</u>

  Upon receipt of filing, the BR establish receivability
- Invoice will be issued based on the category and units of the filing at that time (see SpaceCap)

- <u>Publication Stage (IFIC):</u>
- Following the detailed examination of the notice, if the category or units of the filing is found to be any different, any excess fee (or refund) will be issued after the publication of the notice.

SpaceCap:

Cost Recovery Analysis (Dec 482 C2005)

Analysis run at: 15:27:46 on 06.10.2008

Notice id: 1

Satellite Network: SWANSAT-3A

Services: EB,EC,ED,EI,EK,ER,ES,ET,EV

Provisions: 9.11,9.7

Category: C2

Cost Recovery Units: 369

Estimate of Cost Recovery Fee

Flat Fee: CHF 24'620 (Category C2)

Total Fee: = CHF 24'620

Please note that this is an estimation.

Address field on the invoice:

- Invoice will be issued to the Administration.
- Only if an Administration request for it in writing, the invoice can be issued directly to the operator, with a copy to the Administration

Cancellation of a filing due to non-payment

- WRC-2003
  - No.9.2B.1, 9.38.1 etc.
    - If payment is not received by the due date (which is 6 months from the date of the invoice), the Bureau shall cancel the publication
    - The Bureau shall send a reminder 60 days before the due date for payment
- WRC-2007
  - Extended to all notifications and some additional sections of Appendix 30B
    - If payment is not received by 15 May 2008, the filings will be cancelled.

Withdrawal or suppression of a filing by the Administration

- Upon submission of a filing, an Administration can withdraw a filing within 15 days with no charge
- After that, the filing is chargeable even if it was withdrawn before its publication.

Annual Free Entitlement

- Each Member state shall be entitled to the publication of special sections for one satellite network each year without charge
- Nomination of free entitlement
  - To be made by the member state in its role as the notifying administration
  - Should correspond to the year of receipt of the filing
  - To be made by the end of the period for payment of the invoice
  - Cannot be applied to a filing previously cancelled for non-payment
    - Thus if Administration is unsure whether a filing will be nominated for free entitlement, they should first submit the payment before the due date
    - When this filing is finally chosen as the annual free entitlement, the payment will be refunded to the Administration

References

- Council Decision 482 modified C2005
- BR Circular letter CR/245
- BR web site
  - http://www.itu.int/ITU-R/space/costrec
- Contact:

Chuen Chern Loo
Tel: +41 22 730 5339
Email: chuen-chern.loo@itu.int

International Telecommunication Union

Cost Recovery for Satellite Network Filings

Questions ?