

International Telecommunication Union

Cost recovery for satellite network filings



Bangkok, Thailand 28 -30 September 2010

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.



- 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?



- OAPI for NGSO not subject to coordination
- API for inter-satellite links of a GSO communicating with NGSO not subject to coordination
- **OCoordination Requests**
- Modifications of the Space Service Plans and Lists
- OThe use of guardbands
- ORequests for implementation of the FSS plans
- ONotification 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)



- Only the following APIs are subject to a cost recovery fee
 - OAPI 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
 - \bigcirc 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
Α	No. 9.7, RS33.3
В	AP30 7.1, AP30A 7.1
С	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:



UITITU										
UNION INTERNATIONALE DES TÉL BUREAU DES RADIOCOMM		INTERNAT RA					ACIONAL DE TELECOMUNICACIONES			
RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE	SWA	ANSAT-3A			SECTION SPÉCIALE N ^O 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 15 LONGITUD NOMINAL				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 9.35 and 3.96 and is published in accordance with No. 9.38. It is subject to the con los N ⁶⁶ 9.35 y 9.35 y 9.35 y se publica de conformidad con el N ⁶ 9.							solicitud de coordinación, recibida por la Oficina de municaciones de conformidad con el punto Nº 9.30 del ento de Radiocomunicaciones, se ha examinado de conformidad Nº 9.35 y 9.36 y se publica de conformidad con el Nº 9.38. Está al formulario de coordinación indicado en la columna de la la con una X en la casilla correspondiente.			
Type de coordination mentionne dans le l'ables X 9.7 9.7A 9.7B 9.7B 9.42 AP30#7.1 AP30A#7.1 RS77 RS84 RS539 RS33#3	des radiocommunications, les Administrations identifiées the dans le Tableau I ci-après sont priées de communiquer to				nada en el cuadro i nee with Nos. 9.50-9.52 of the Radio Reg strations identified in Table I below are re inicate their decision to the Res ion and the Bureau by the deadline i	quested ponsible	De conformidad con los N ^{os} 9.50-9.52 del Reglamento de Radiocomunicaciones, se solicita a las administraciones señaladas en el cuadro l 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									
9.11 9.11A 9.12A 9.12A 9.13 9.14 9.21/A 9.21/B 9.21/C RS33#2.1	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 a			not agree to 9.14, 9.21 a comments to by the dea responding regarded as	ions listed or not listed in Table II below, o the request for coordination under Nos and RS33#2.1 are requested to communic to the responsible administration and the adline indicated below. Any administra- under No. 9.52 within this deadline s unaffected and, in the cases of Nos. 9.1 #2.1, the provisions of Nos. 9.48 and 9	a 9.11 to cate their e Bureau ation not shall be 1 to 9.14	 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 seña afor da y en el caso de los N°s 9.11 			
DATE LIMITE POUR LA DÉCISION				DARAL			30.01.2009			
DATE LIMITE POUR LA DECISION		IN DECISION / FECH		FARA L/	DECISION		30.01.2003			

What are Units?



O 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:



	at. Network	the state of the s	-3A		A1f1 Notifying	g adm. NRU	A 1f3 Inter	. sat. org.		BR1 Date of receipt 15.05	5.2008	BR20/BR21 BR IF	IC no./part	2629/
BR6a/BR6b	ld. no. 10	8520131		BF	R3a/BR3b Pro	vision reference	e 9.6	er Hill Selfred	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	Frequ	BR47 ency ban	d (MHz)	BR15 Provision reference	BR53 Nb of freq.	C4a Class of station	BR54 Nb of emiss.	BR55 Nb of unit
			108617349		A	3000000	71000		74000	9.7	10071	EC	3	
			108617350		A	3000000	71000	-	74000	9.7	1	EC	3	
			108617351		A	3000000	71000	-	74000	9.7	1	EI	3	
			108617352		A	3000000	71000	-	74000	9.7	1	EI	3	
			108617353		A	3000000	71000	-	74000	9.7	1	EI	3	
			108617354		A	2000000	74000	-	76000	9.7	1	EB, EV	3	
			108617355		A	2000000	74000	-	76000	9.7	1	EB, EV	3	
			108617356		A	2000000	74000	-	76000	9.7	1	EB, EV	3	
WD2 E		108617357		A	3000000	71000	-	76000	9.7	2	EC	3		
	1 1		108617358		A	3000000	71000	-	76000	9.7	2	EC	3	
			108617359		A	3000000	71000	-	76000	9.7	2	EC	3	
			108617360		A	3000000	71000	-	74000	9.7	1	EI	3	
			108617361		A	3000000	71000	12	74000	9.7	1	EI	3	
			108617362		A	3000000	71000	-	74000	9.7	1	EI	3	
			108617363		A	2000000	74000	7.	76000	9.7	1	EB, EV	3	
	1		108617364		A	2000000	74000	-	76000	9.7	1	EB, EV	3	
			108617365		A	2000000	74000		76000	9.7	1	EB, EV	3	
WD3	E		108617378		A	3000000	71000	-	76000	9.7	2	EC	3	
			108617379		A	3000000	71000	-	76000	9.7	2	EC	3	
		Ī	108617380		A	3000000	71000	-	76000	9.7	2	EC	3	
		ľ	108617381	ŝ.	A	3000000	71000	-	74000	9.7	1	EI	3	
		ſ	108617382		A	3000000	71000	-	74000	9.7	1	EI	3	
		ſ	108617383		A	3000000	71000	-	74000	9.7	1	EI	3	
		ſ	108617384		A	2000000	74000	-	76000	9.7	1	EB, EV	3	
		ľ	108617385		A	2000000	74000	-	76000	9.7	1	EB, EV	3	
	1		108617386		A	2000000	74000	2	76000	9.7	1	EB, EV	3	

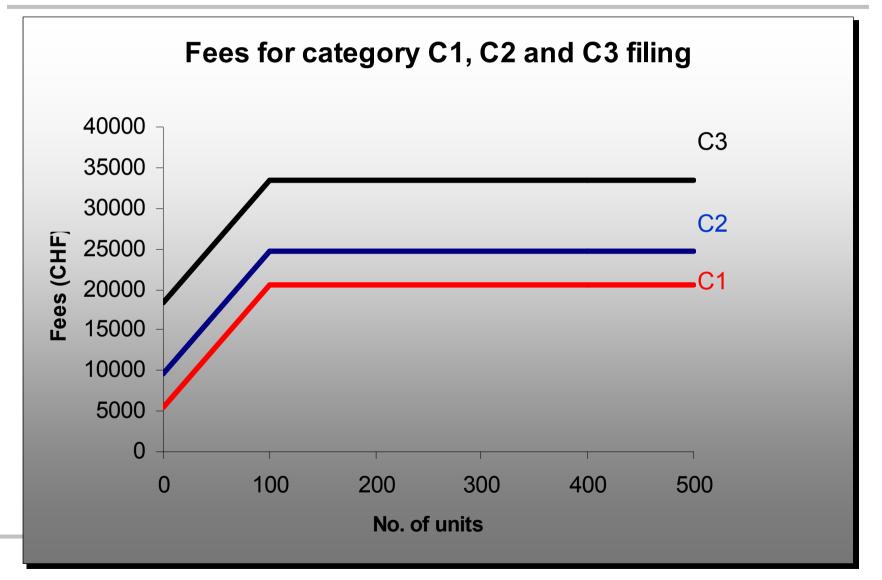
BR57 Category	C1
BR56 Total number of units	369

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)







Categorization of Notification (under Art11)

- By number of cost-recovery forms of coordination (similar to Coordination Requests)
 - \bigcirc 1 form of coordination N1
 - \odot 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

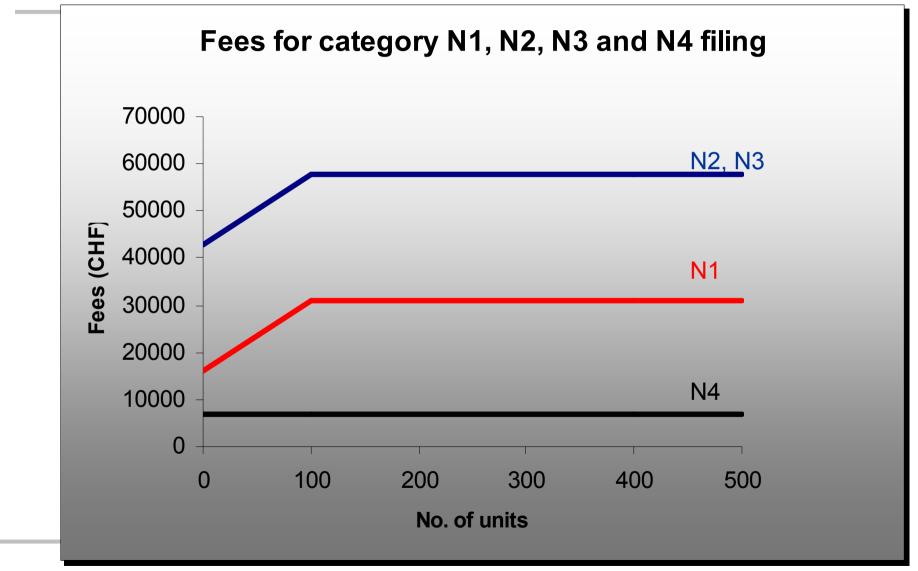
(Definitions of the forms of coordination and units are the same as those for coordination requests)

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



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







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

Flat fee (CHF) Category **Description P1** AP30/E, AP30A/E, AP30-30E/ 28 870 (Part A or Part B) **P2** Notification under Article 5 of AP30/30A 11 550 Coordination request under Article 2A of **P**3 12 000 AP30/30A **P4** Various procedures under AP30B 40 560 32 450 **P5** Notification under Article 8 of AP30B

Invoicing process



Upfront Stage:

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)

Publication Stage (IFIC):

 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



Oupon 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.



- 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 nonpayment
 - 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

Ohttp://www.itu.int/ITU-R/space/costrec

Contact:

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International Telecommunication Union

Cost Recovery for Satellite Network Filings

Questions?