ITUEvents

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Cost Recovery for satellite networks filings

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ITU HQ Geneva 4 December, 2018



Implementation of cost recovery

Council Decision 482

The ITU Council determines the cost recovery principles and fees for satellite network filings

Radio Regulations No.9.38.1 etc.

The WRC determines regulation covering satellite network filings, in particular, the penalty in the event of non-payment of cost recovery fee



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

6 months to make payment

One free entitlement a year for each member state



What Filings are chargeable?

1/API

- * API for NGSO not subject to coordination
- 2/ Coordination Requests

3/ Plans

- * Modifications of the Space Service Plans and Lists
- * The use of guard bands
- *Conversion of an allotment into assignment with modification beyond the envelop characteristics of the initial allotment
- * Requests for implementation of the FSS plans
- 4/ Notification for recording space stations in the MIFR
- 5/ Consolidation for of different GSO at the same orbital position into a single satellite network

Filings



Which Filings are not chargeable?

- 1/ Notification for recording earth stations in the MIFR
- 2/ Publication of special sections and Parts for the amateursatellite service

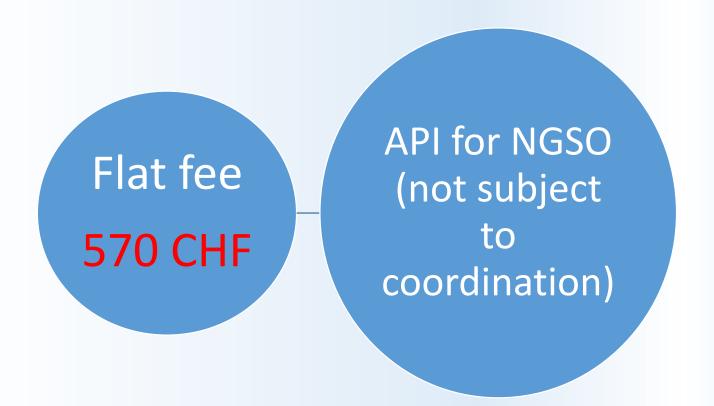
Filings

3/ Conversion of an allotment into an assignment with modification which is not beyond the envelop characteristics of the initial allotment

4/ Addition of a new allotment to the plan for a new Member State of the Union in accordance with the procedure of Article 7 of Appendix 30B



Fees for API (Art. 9 – Section IA)





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

1 form of coordination C1

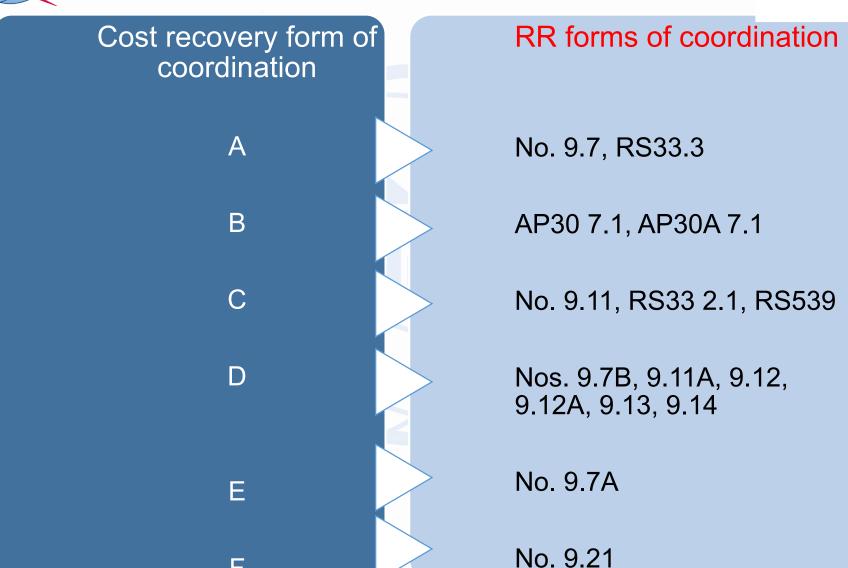
Fee depends
on the number
of forms of
coordination
and units

4 or more forms of coordination C3

2 or 3 forms of coordination C2



What are forms of coordination?





Example (Forms of coordination):



RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE		LUX-G	6-12		SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º		CR/C/2245		
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA			i	BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA		2632 / 11.11.2008			
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE LUX LONGITUDE NOMINAL NOMINAL LONGITUDE LONGITUD NOMINAL			3TUDE 43.5	5 E	NUMÉRO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN	108520161			
RENSEIGNEMENTS REÇUS	PAR LE BUREAU LE	/INFORMATION R	ECEIVED BY THE BURE	AU ON / IN	FORMACIÓN RECIBIDA POR LA O	FICINA EL	18.06.2008		
Cette demande de coordination, re vertu du numéro 9.30 du Régiem er titre des numéros 9.35 et 9.36 et e est aubord onnée au type de coord un X dans la case pertinente. Type de coordination mentionné d	t des radiocommunicatio st publiée conformément ination indiqué dans la co	ns, a été examinée au t au numéro 9.38. Elle cionne de gauche par	pursuant to No. 9.30 of the 9.35 and 9.36 and is publis form of coordination indicate	Radio Regu hed in accor ed in the left-h	d by the Radiocommunication Bureau lations, has been examined under Nos. clance with No. 9.38. It is subject to the hand column by an X in the relevant box consider en eliculation.	Radiocomunic Reglamento d con los Nº 9: sujeta al forr	ud de coordinación, recibida por la Oficina de caciones de conformidad con el punto Nº 9.30 del de Radiocomunicaciones, se ha examina do de conformidad 35 y 9.36 y se publica de conformidad con el Nº 9.38. Está mulario de coordinación indicado en la columna de la una X en la casilla correspondiente.		
X 9.7 9.7A 9.7B 9.42 A P30#7.1 X AP30#7.1 R S77 R S84 R S539 R S33#3	des rad dans le leur dé avant le	diocommunications, les e Tableau I ci-après so ccision à l'Administration a date limite indiquée di		the Administration communication communications and ministration below.	nce with Nos. 9.50-9.52 of the Radio Regu strations identified in Table I below are rec unicate their decision to the Resp tion and the Bureau by the deadline in	quested Radi consible seña dicated deck	conformidad con los N ^a 9.50-9.52 del Reglamento de ocomunicaciones, se solicita a las administraciones ladas en el cuadro I a continuación que comuniquen su sión a la administración responsable y a la Oficina antes lazo indicado más abajo.		
Type de coordination mentionné di X 9.11 X 9.11A 9.12 9.12A X 9.13 X 9.14 X 9.21/A X 9.21/B X 9.21/C RS33#2.1	Les Ad le Table coordin RS33# à l'Adm limite i réagin sem o influen	iministrations, én uméré le au II di-aprés, qui n'ac nation au titre des nun 2.1, sont prées de comm niquée di dessous. Ti pas au titre du numéro considérée comme n'é cée et, dans les cas cou	to in Table II / Formulario de c es ou non-énumérées dans ceptent pas la demande de néros 9.11 à 9.14, 9.21 et muniquer leurs ob servations et au Bureau avant la date oute Administration qui ne 9.52 avant cette date limite tant pas défavorablement verts par les numéros 9.11 à tions des numéros 9.48 et	Administrati not agree to 9.14, 9.21 a comments to by the de- responding regarded as	remitido al cuadro II tions listed or not listed in Table II below, w to the request for coordination under Nos. and RS33#21 are requested to communica to the responsible administration and the adline indicated below. Any administrati under No. 9.52 within this deadline si s unaffected and, in the cases of Nos. 9.11 #2.1, the provisions of Nos. 9.48 and 9.4	9.11 to quad 9.11 to quad ste their RS3: Bureau admindion hall be que to 9.14 plaz:	invita a las administraciones, enumeradas o no en el dro II, que no estén de acuerdo con la solicitud di dinación de conformidad con los Nº 9.11 a 9.14, 9.21 ; 3#2.1 que comuniquen sus observaciones a limistración responsable y a la Oficina dentro del plaza ado más abajo. Se considerará que toda administración no responda de conformidad con el Nº 9.52 dentro de será lado, no está afectada y, en el caso de los Nº 9.11 y RS33#2.1, se aplicarán las disposiciones de los Nº 9.4499		

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

11.03.2009



Cost recovery summary in CR/C

SECTION SPECIALE / SPECIAL SECTION / SECCIÓN ESPECIAL /特节 / СПЕЦИАЛЬНАЯ СЕКЦИЯ / القسم الحاص									
A A1a Sat. Network LUX-G6-12	A1f1 Notifying adm. LUX	A1f3 Inter. sat. org.		BR1 Date of receipt	18.06.2008	BR20/BR21	BR IFIC no./pa	t 2632/	
BR6a/BR6b ld. no. 108520161	BR3a/BR3b Provision reference	9.6 C		BR2 Adm. serial no.	30	- 5			

B1a Beam designation	B2 Emi-Rcp	BR8 Action code	Group id.	BR9 Action code	13A Conformity with RR	C3a Assigned freq. band 77000	BR47 Frequency band (MHz)			BR15 Provision reference	BR53 Nb of freq.	C4a Class of station	BR54 Nb of emiss.	BR55 Nb of units
TUHR	E						235	(- V	312	9.21,9.7	1	EI	2	2
	200	3	108627557		Α	7000	315	1.5	322	9.21,9.7	1	EI	2	2
			108627558	23	A	64500	335.4		399.9	9.13,9.21,9.7	1	EI	. 2	2
TV1R	E		108627559	***	A	2000000	37500	-	42500	9.7	2	EC	1	2
		3	108627560	3	A	1000000	39500	- 2	40500	9.7	1	EC	1	1
		1	108627561		A	1000000	39500	3	40500	9.7	1	EI	1	1
	96	. 9	108627562	ox. 3	A	1000000	41000	.c. 2	42000	9.7	1	EV	1	1
TV2R	E		108627563		A	2000000	37500	-	42500	9.7	2	EC	1	2
		1	108627564		A	1000000	39500	- 1	40500	9.7	1	EC	1	1
		1	108627565		A	1000000	39500	-	40500	9.7	1	EI	1	1
			108627566	(a) 8	A	2000000	40500	SV278	42500	9.7	1	EV	1	1
TVR	E	i i	108627757	3 - 3	A	30000	2170		2200	9.13,9.14,9.7	1	EI	6	6
TX1R E	E		108627567		A	125000	7250	-	7375	9.7	1	EC	1	1
			108627568		Α	125000	7250	-	7375	9.7	1	EC	1	1
			108627569		A	125000	7250	-	7375	9.7	1	EC	1	1
			108627570	- 8	A	375000	7375	-	7750	9.7	1	EC	1	1
			108627571		A	375000	7375	-	7750	9.7	1	EC	1	1
		- 3	108627572	-	A	375000	7375	-	7750	9.7	1	EC	1	1
			108627573		A	125000	7250	2	7375	9.21,9.7	1	EI	1	1
			108627574	- 8	A	125000	7250	-	7375	9.21,9.7	1	EI	1	1
			108627575		A	125000	7250	-	7375	9.21,9.7	1	EI	1	1

BR57 Category		C3
BR56 Total number of units	100	398



What are the Units?



- The number of frequency assignments
- X
- Number of classes of station

• Number of emissions

Units

- 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

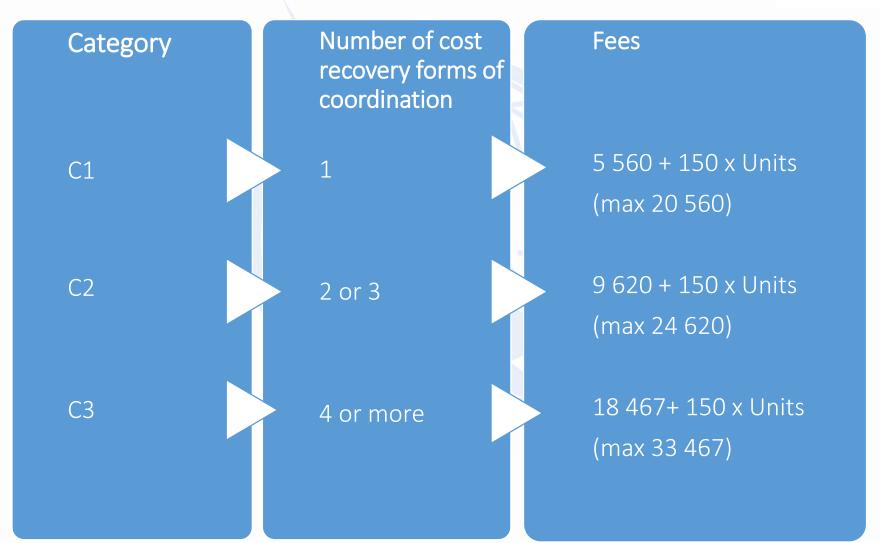


Example of units calculation

Nb. of emiss. = Number of units Nb. of Freq x Class of station x SECTION SPECIALE / SPECIAL SECTION / SECCIÓN ESPECIAL / 持市 СПЕЦИАЛЬНАЯ СЕКЦИЯ / القسم الخاص / CR/C/2222 BR1 Date of receipt 15.05.2008 BR20/BR21 BR IFC no./part 2629/ A1a Sat. Network SWANSAT-3A A1f1 Notifying adm. NAT A1f3 Inter. sat. org. BR6a/BR6b ld. no. 108520131 BR3a/BR3b Provision reference 9. BR2 Adm. serial no. BR5 BR55 BR15 **BR53** B2 BR8 BR7a BR9 13A C3a BR47 Emi-Rcp Beam Action Group id. Action Conformity Assigned Frequency band (Minist) Provision reference Nb of Class of Station Nb of Nb of units code with RR freq. emiss. designation freq. band 1 EC 108617349 A----3000000 71000 74000 3 1 EC 3 A----3000000 71000 74000 9.7 3 108617350 1 EI 108617351 A----3000000 71000 74000 9.7 3 1 E1 3 108617352 3000000 71000 74000 9.7 1 EI 108617353 A----3000000 71000 74000 9.7 108617354 A----2000000 74000 76000 9.7 1 EB, EV 3 6 1 EB. EV 3 6 108617355 A----2000000 74000 76000 9.7 6 108617356 76000 9.7 1 EB, EV A----2000000 74000 2 EC 3 6 108617357 A----3000000 71000 76000 3000000 71000 2 EC 3 6 108617358 A----76000 9.7 2 EC 3 6 108617359 A----3000000 71000 76000 9.7 1 EI З 3 108617360 A----3000000 71000 74000 9.7 1 EI 3 108617361 3000000 71000 74000 9.7 3 A----3 3 108617362 A----9.7 1 EI 3000000 71000 74000 108617363 2000000 74000 76000 9.7 1 EB. EV 3 6 A----108617364 A----2000000 74000 76000 9.7 1 EB, EV 3 6 1 EB. EV 3 108617365 A----2000000 74000 76000 9.7 6 2 EC 3 6 WD3 108617378 3000000 71000 76000 9.7 108617379 A----3000000 71000 76000 2 EC 3 6 9.7 108617380 A----3000000 71000 76000 9.7 2 EC 3 6 1 EI 3 3 108617381 A----3000000 71000 74000 9.7 1 EI 3 3 108617382 3000000 71000 74000 9.7 3 108617383 A----3000000 71000 74000 9.7 1 EI 3 108617384 A----2000000 74000 76000 9.7 1 EB, EV 3 6 1 EB, EV 6 108617385 74000 9.7 3 A----2000000 76000 1 EB. EV 3 6 108617386 A----2000000 74000 76000 9.7 C1 BR57 Category BR56 Total number of units



Fees for Coordination Requests



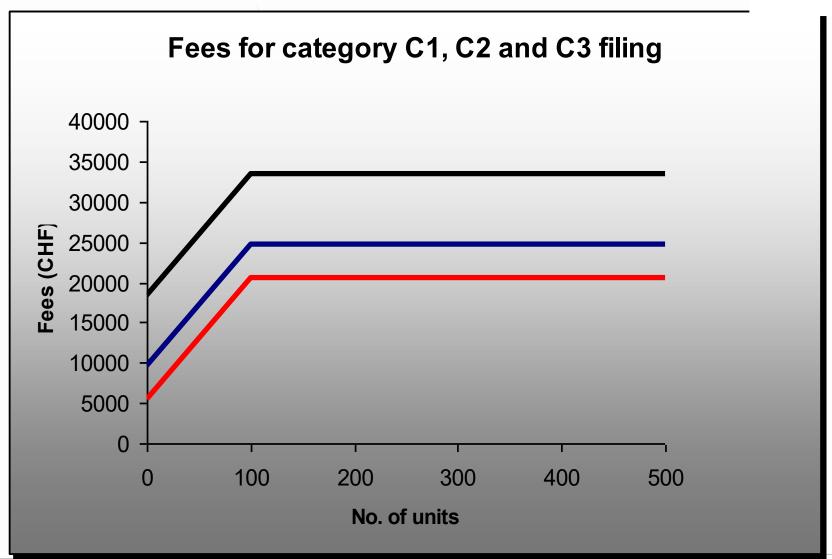


Fees for Coordination Requests of a non-GSO with mutually exclusive sets (Decision 482, Modified in 2018!!!!)

For coordination requests of a non-geostationary satellite network with different sub-sets of orbital characteristics mutually exclusive, the processing charges are separately computed for each of the sub-sets and thereafter added to produce the processing charge of the satellite network



Fees Scaling for Coordination Requests





Article 11 Notifications

Date of receipt: on or after 1/1/2006

API date of receipt: after 19/10/2002

Conditions

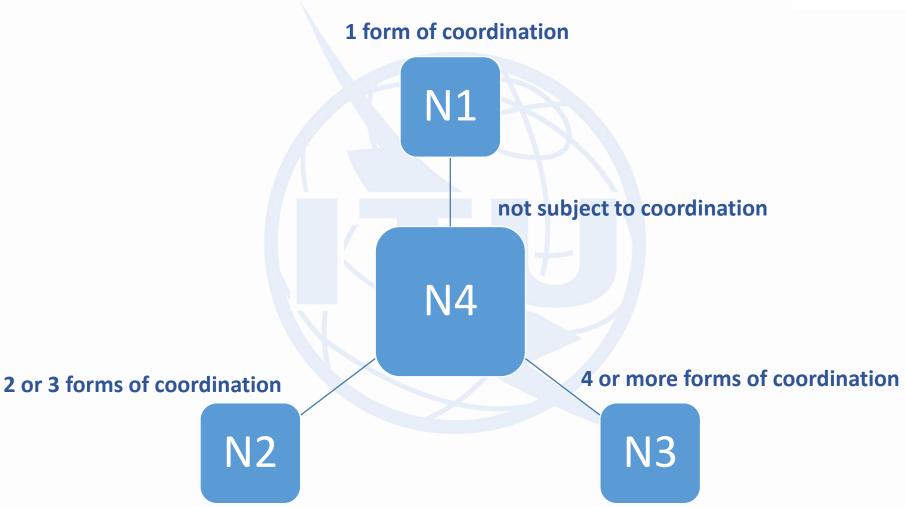
For N1, N2, N3 only:

If application of **No.11.32A** has been requested, invoice will be issued for 100% of the fee.

Otherwise, only 70% of the fee will be invoiced and the remaining 30% will be invoiced if and when **No.11.32A** will be requested by the Administration.

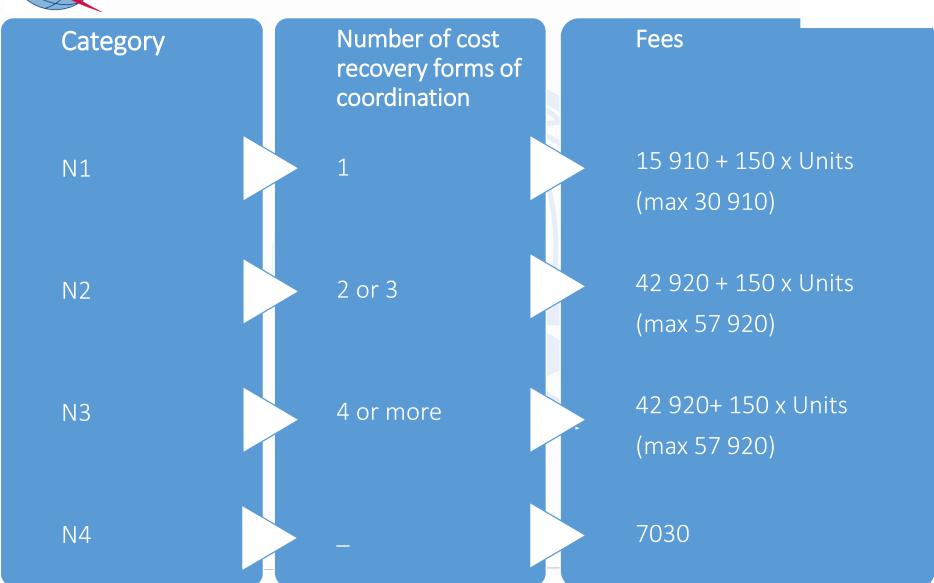


Categorization of Notifications



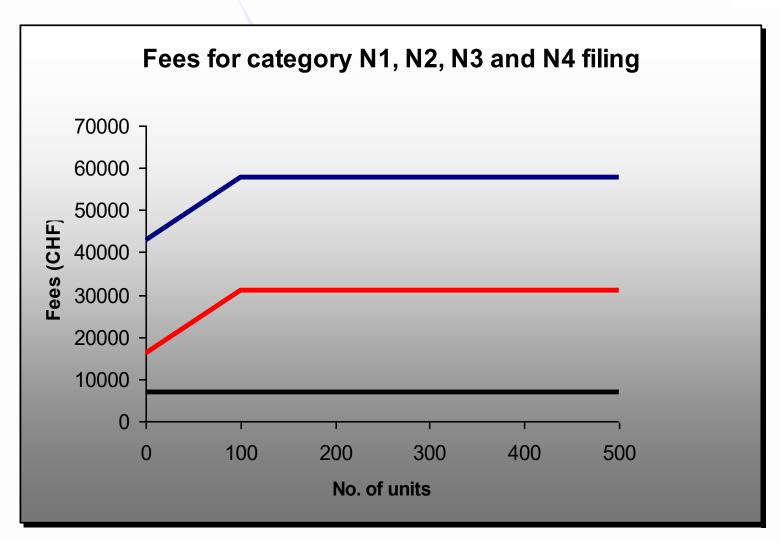


Fees for Notification (Art 11)



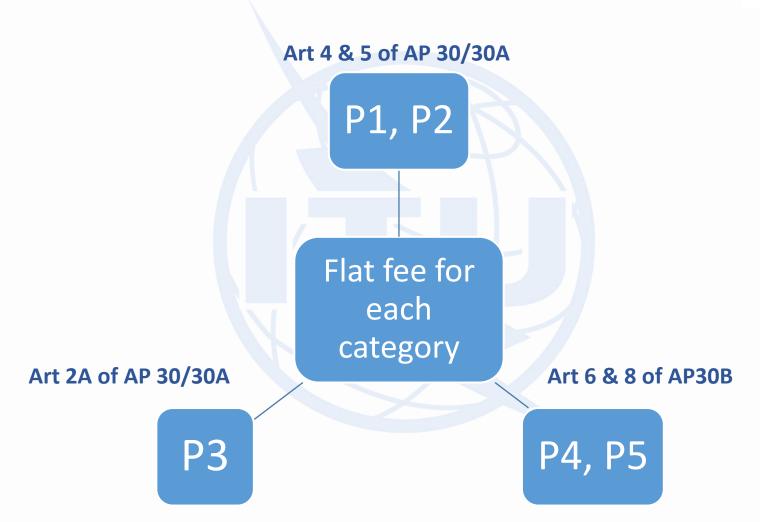


Fees Scaling for Notification Filings





Categorization of Plans



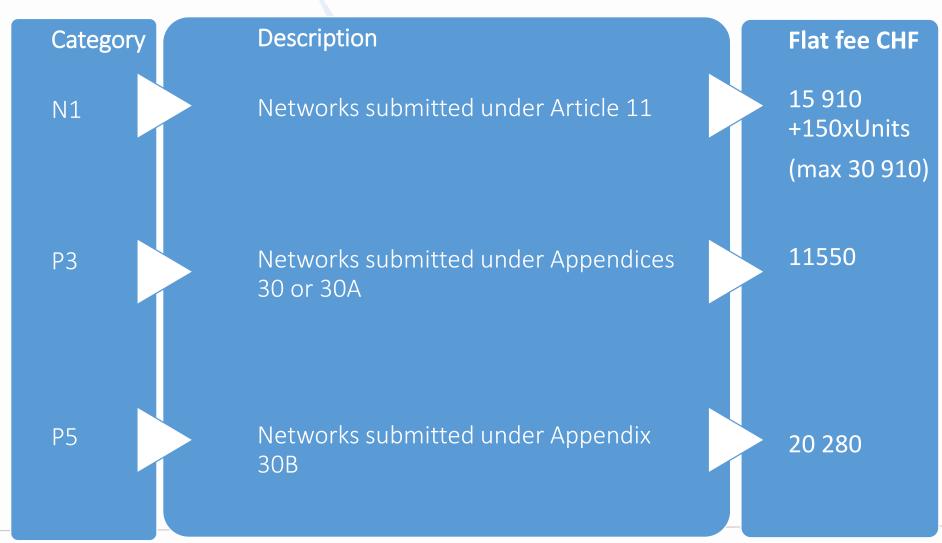


Fees for Plans (AP30/30A/30B)

Category	Description	Flat fee CHF
P1	AP30/E, AP30A/E, AP30-30E/ (Part A or Part B) - Part B chargeable only if that Part A received after 7/11/98	28 870
P2	Notification under Article 5 of AP30/30A - Notification chargeable only if Part A received on or after 19/10/2002	11 550
P3	Coordination request under Article 2A of AP30/30A	12 000
P4	Procedures under Article 6 of AP30B	25 350
P5	Notification under Article 8 of AP30B	20 280



Fees for Consolidation of frequency assignments in the MIFR of different GSO networks (WRC-12)





Invoicing

Upfront Stage:

Upon receipt of filing, the BR examines receivability

Invoice will be issued based on the category and units of the filing at that time (see SpaceCap)

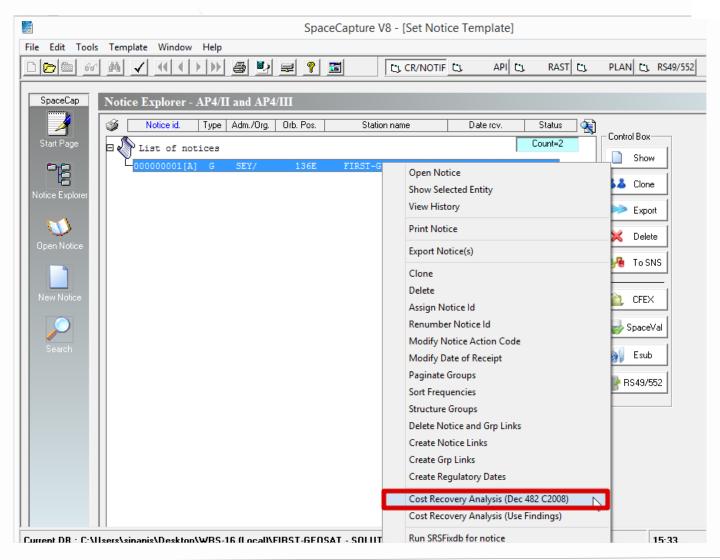
Invoicing process

Publication Stage (IFIC):

Following the detailed examination of the notice, if the category or units of the filing is found to be different, any resulting excess fee (or refund) will be invoiced after the publication of the notice

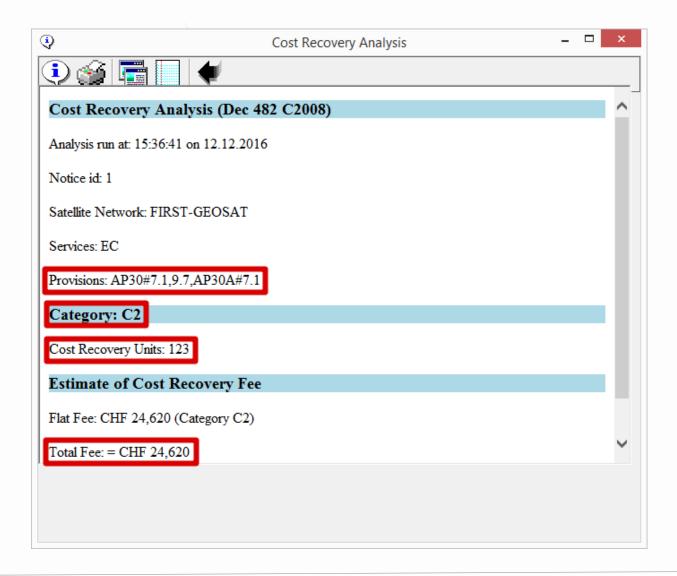


SpaceCap





SpaceCap Cost Analysis Results

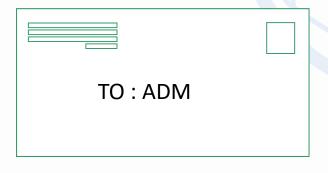


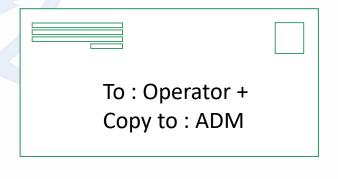


Address field on the invoice

Invoice will be issued to the Administration

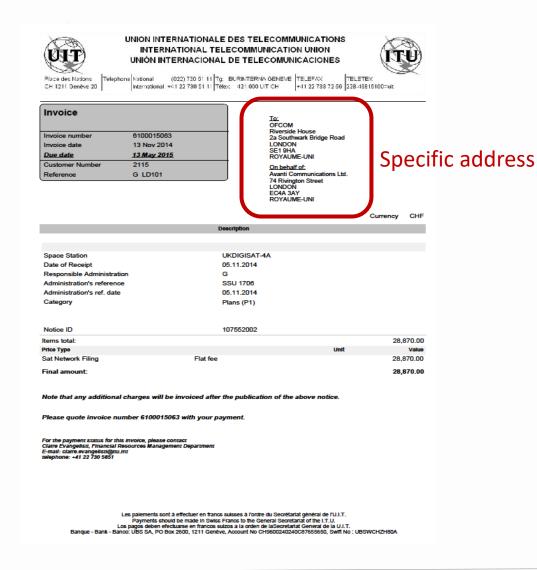
Only if an Administration requests in writing, the invoice can be issued directly to the operator, with a copy to the Administration







Invoice example





Cancellation of a filing due to non-payment

WRC-2003

No.9.2B.1, 9.38.1 etc.

- The Bureau shall send a reminder 60 days before the due date for payment
- 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

WRC-2007

Extended to all notifications and some additional sections of Appendix 30B

- If notifications received and or after 1st
 December 2006
 - If payment is not received by 15 May2008, the filings will be cancelled



Withdrawal or suppression of a filing by the Administration

Condition

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 or parts of the BR IFIC 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

Conditions

Should correspond to the year of receipt of the filing

To be made by the end of the period for payment of the invoice



References

- Council Decision 482 (modified C2018)
- BR Circular letter CR/245

BR web site
 http://www.itu.int/ITU-R/go/space-cost-recovery/en

Thank you



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Please remember to visit the WRS-18 Exhibition located at the entrance of the ITU Montbrillant building