

#### **Cost Recovery**

for satellite network filings

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ITSO/ITU Workhop on Satellite Communications

AFRALTI, Nairobi, 17-21 July 2017



#### 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

3



### What Filings are chargeable?

#### 1/ API

\* API for NGSO not subject to coordination

2/ Coordination Requests

## Filings

#### 3/ Plans

\* Modifications of the Space Service Plans and Lists

\* The use of guard bands

\* Requests for implementation of the FSS plans

4/ Notification for recording space stations in the MIFR



## Which Filings are not chargeable?

1/ Notification for recording earth stations in the MIFR2/ Publication of special sections and Parts for the amateur-satellite 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

5



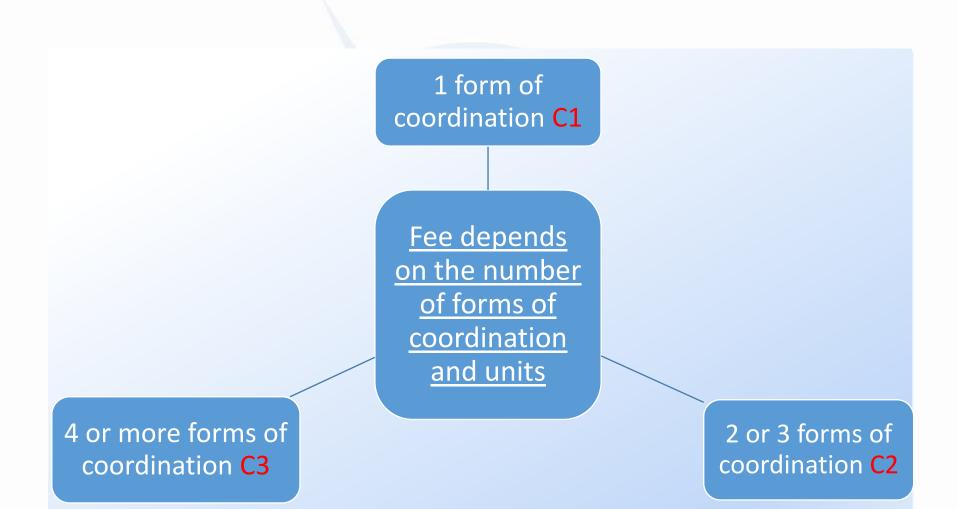
#### Fees for API (Art. 9 – Section IA)

# Flat fee 570 CHF

API for NGSO (not subject to coordination)

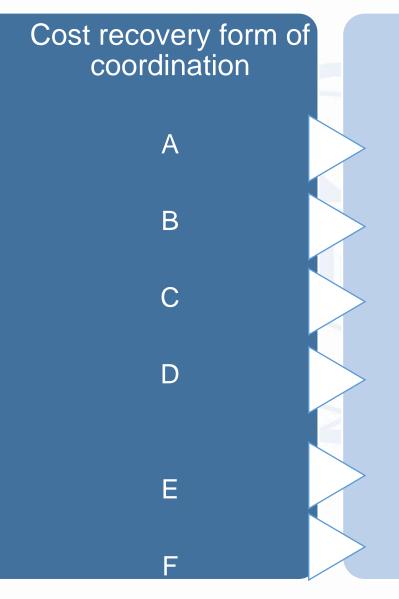


#### Categorization of Coordination Requests (Art. 9 – Section II)





## What are forms of coordination?



RR forms of coordination

No. 9.7, RS33.3

AP30 7.1, AP30A 7.1

No. 9.11, RS33 2.1, RS539

Nos. 9.7B, 9.11A, 9.12, 9.12A, 9.13, 9.14

No. 9.7A

No. 9.21



## **Example (Forms of coordination):**



RÉSEAU À SATELLITE SATELLITE NETWORK RED DE SATÉLITE		LUX-G	6-12	SF	CTION SPÉCIALE Nº ECIAL SECTION No. CCIÓN ESPECIAL N.º		CR/C/2245				
STATION TERRIENNE EARTH STATION ESTACIÓN TERRENA		l.	BR IFIC / DATE BR IFIC / DATE BR IFIC / FECHA			2632 / 11.11.2008					
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	LUX	LONGITUDE NO NOMINAL LON LONGITUD NO	GITUDE 43.5	5 E 10	IMÉRO D'IDENTIFICATION ENTIFICATION NUMBER IMERO DE IDENTIFICACIÓN		108520161				
RENSEIGNEMENTS REÇUS I	PAR LE BUREAU LE	INFORMATION R	ECEIVED BY THE BURE	AU ON / INFOR	MACIÓN RECIBIDA POR LA (	OFICINA E	18.06.2008				
Cette demande de coordination, re; rertu du numéro 9.30 du Réglement tre des numéros 9.35 et 9.35 et e st aubordonnée au type de coordi un X dans la case pertinente. Type de coordination mentionné da	t des radiocommunication st publiée conformément nation indiqué dans la co	rs, a été examinée au au numéro 9.38. Elle ionne de gauche par	pursuant to No. 9.30 of the 9.35 and 9.36 and is publis form of coordination indicate	Radio Regulation shed in accordance ed in the left-hand	the Radiocommunication Bureau s, has been examined under Nos. with No. 338. It is subject to the column by an X in the relevant box	Radiocon Reglame con los N sujeta al	Alcitud de coordinación, recibida por la Oficina de nunicaciones de conformidad con el punto Nº 9.30 del nto de Radiocomunicaciones, se ha examina do de conformidad en 9.35 y 9.56 y se publica de conformidad con el Nº 9.38. Está formulario de coordinación indicado en la columna de la con una X en la casilia correspondiente.				
X 9.7 9.7A 9.42 9.42 X AP3007.1 X AP30407.1 RS77 RS84 RS539 RS33#3	des rad dans le leur déc	locommunications, les Tableau I cl-après so	9.50 à 9.52 du Règlement Administrations identifiées ant préce de communiquer n responsable et au Bureau dessous.	the Administration to communicat	th Nos. 9.50–9.52 of the Radio Reg ns identified in Table Ibelow are re a their decision to the Res nd the Bureau by the deadline i	quested ponsible ndicated	De conformidad con los N <sup>os</sup> 9.50-9.52 del Reglamento de Radiocomunicaciones, se solicita a las administraciones estalabas en el cuadro la continuación que comuniquen s decisión a la administración responsable y a la Oficina antes del plazo indicado más abajo.				
ype de coordination mentionné da	ans & Tableau II / Form of	f coordination referred	to in Table II / Formulario de o	coordinación remiti	do al cuadro II						
X 9.11 X 9.11A 9.12A 9.12A X 9.13 X 9.14 X 9.21/A X 9.21/B X 9.21/C RS339/2.1	le Table coordinu RS33#2 à l'Admi inte in nagira sem co influence 9.14 et	au II ciaprès, qui n'ac ation au titre des nur 2.1, sont priées de com instration responsable idiquée di-dessous. T pas au titre du numéro naidérée comme n'é ée et, dans les cas cou	es ou non é numérées dans sceptent pas la demande de néros 9.11 à 9.14, 9.21 et et au Bureau avant la date oute Administration qui ne 9.52 avant cette date limite tant pas défavorablement wets par les numéros 9.11 à itions des numéros 9.48 et	not agree to the 9.14, 9.21 and R comments to the by the deadline responding und regarded as unaf	isted or not listed in Table II below, v request for coordination under Nos \$33#21 are requested to communic responsible administration and the indicated below. Any administra er No. 9.62 within this deadline of fedded and, in the cases of Nos. 9.1 the provisions of Nos. 9.48 and 9.	which do 9.11 to ate their Bureau fion not shal be 1 to 9.14 49 shal	Se invita a las administraciones, enumeradas o no en el cuadro II, que no estén de acuerdo con la solicitud de condinación de conformidad con los N <sup>er</sup> 9.11 a 9.14, 9.21 y RS3342.1 que comuniquen sus observaciones a la administración responsable y a la Ofdina dentro del plazo indicado más abajo. Se considerará que toda administración que no responda de conformidad con el N° 9.52 dentro del plazo sertiado, no está afectada y, en el caso de los N° 9.11 a 9.14 y RS33#2.1, se aplicarán las disposiciones de los N° 9.45 y 9.49				



## **Cost recovery summary in CR/C**

A A1a Sat. Network LUX-G6-12 BR6a/BR6b Id. no. 108520161			A1f1 Notifying adm. LUX BR3a/BR3b Provision reference						BR1 Date of receipt 18.06 BR2 Adm. serial no.	.2008	2008 BR20/BR21 BR IFIC no./part 2632/			
B1a Beam designation	B2 Emi-Rcp	BR8 Action code	BR7a Group id.	BR9 Action code	13A Conformity with RR	C3a Assigned freq. band		BR47 ncy ban	d (MHz)	BR15 Provision reference	BR53 Nb of freq.	C4a Class of station	BR54 Nb of emiss.	BR55 Nb of unit
TUHR	E	s - 1	108627556	90 P	A	77000	235	1923	312	9.21,9.7	1	EI	2	2
	2005		108627557	3	A	7000	315		322	9.21,9.7	1	EI	2	2
			108627558		A	64500	335.4	12	399.9	9.13,9.21,9.7	1	EI	2	
TVIR	E		108627559		A	2000000	37500	-	42500	9.7	2	EC	1	
		1	108627560	1	A	1000000	39500	- 2	40500	9.7	1	EC	1	
		1	108627561		A	1000000	39500	-	40500	9.7	1	EI	1	
	a		108627562	22. JA	A	1000000	41000	10 200	42000	9.7	1	EA	1	2
TV2R	E		108627563		A	2000000	37500	-	42500	9.7	2	EC	1	
			108627564		A	1000000	39500		40500	9.7	1	EC	1	į —
			108627565		A	1000000	39500	i i i	40500	9.7	1	EI	1	
			108627566	10 J	A	2000000	40500	102738	42500	9.7	1	EA	1	
TVR	E		108627757	<u> </u>	A	30000	2170	12-33	2200	9.13,9.14,9.7	1	EI	6	
TXIR	Е		108627567		A	125000	7250	1	7375	9.7	1	EC	1	
		1	108627568	1	A	125000	7250		7375	9.7	1	EC	1	1
			108627569		A	125000	7250		7375	9.7	1	EC	1	
		1	108627570		A	375000	7375		7750	9.7	ĩ	EC	1	
			108627571		A	375000	7375		7750	9.7	1	EC	1	
			108627572		A	375000	7375	-	7750	9.7	ĩ	EC	1	
			108627573		A	125000	7250		7375	9.21,9.7	1	EI	1	
			108627574		A	125000	7250		7375	9.21,9.7	î	EI	1	1
			108627575		A	125000	7250	2	7375	9.21,9.7	1	EI	1	

BR57 Category

BR56 Total number of units

C3



## What are the Units?

- The number of frequency assignments
   Number of classes of station
   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

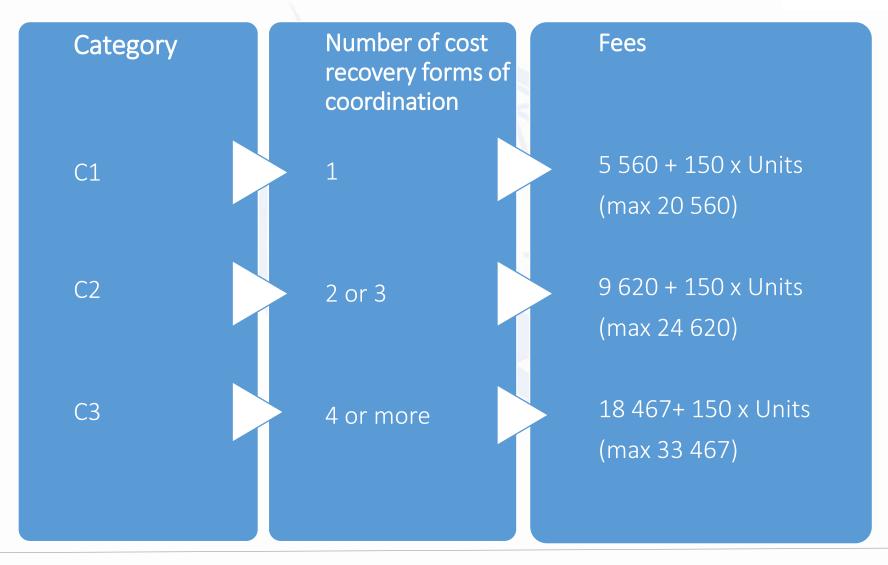


#### **Example of units calculation**

														CR/C/2222
SECTION SPEC	CIALE / SPE	ECIAL SEC	TION / SECCIÓ	N ESPEC	CIAL / 特节 / C	ПЕЦИАЛЬНАЯ	ص / СЕКЦИЯ م	القسم الخا						GR/G/2222
A A1a S	at. Network	SWANSAT	-3A		A1f1 Notifying	adm. NRU	A1f3 Inter.	sat. org.	E	BR1 Date of receipt 15.05	.2008	BR20/BR21 BR IF	IC no./part	2629/
BR6a/BR6b	ld. no. 10	8520131				vision reference	e 9.6	C	E	BR2 Adm. serial no.				
B1a	B2	BR8	BR7a	BR9	13A	C3a		BR47		BR15	BR53	C4a	BR54	BR55
Beam	Emi-Rcp	Action	Group id.	Action	Conformity	Assigned	Freque	ency band (N	1Hz)	Provision reference	Nb of	Class of station		Nb of unit
designation		code		code	with RR	freq. band					freq.		emiss.	
			108617349		A	3000000	71000		1000	9.7	1	EC	3	
			108617350	1	A	3000000	71000		000	9.7	1		3	
			108617351		A	3000000	71000		000	9.7	1	EI	3	
			108617352 108617353		A	3000000	71000		1000	9.7	1	and a loss of the	3	
			108617353		A	2000000	74000		5000	9.7	1	EB, EV	3	
			108617354		A	2000000	74000		5000	9.7		EB, EV	3	
			108617355		A	2000000	74000		5000	9.7		EB, EV	3	
100	Е		108617357		A	3000000	71000		5000	9.7		EC	3	-
ND2 E	E		108617358		A	3000000	71000		5000	9.7		EC	3	
			108617359		A	3000000	71000		5000	9.7		EC	3	
			108617360		A	3000000	71000		1000	9.7		EI	3	
			108617361		A	3000000	71000		1000	9.7		EI	3	
			108617362		A	3000000	71000		1000	9.7	1		3	
			108617363		A	2000000	74000		5000	9.7	1	EB, EV	3	
			108617364		A	2000000	74000	- 7	5000	9.7	1	EB, EV	3	
			108617365		A	2000000	74000	- 7	5000	9.7	1	EB, EV	3	
ID3	Е		108617378		A	3000000	71000	- 7	5000	9.7	2	EC	3	
			108617379		A	3000000	71000	- 7	5000	9.7	2	EC	3	
			108617380		A	3000000	71000	- 7	5000	9.7	2	EC	3	
			108617381		A	3000000	71000	- 7	4000	9.7	1	EI	3	in the second
		[	108617382		A	3000000	71000	- 7	1000	9.7	1	EI	3	
			108617383		A	3000000	71000		4000	9.7	1	EI	3	
			108617384		A	2000000	74000		5000	9.7	1	EB, EV	3	
			108617385		A	2000000	74000		5000	9.7	1		3	
			108617386		A	2000000	74000	- 7	5000	9.7	1	EB, EV	3	

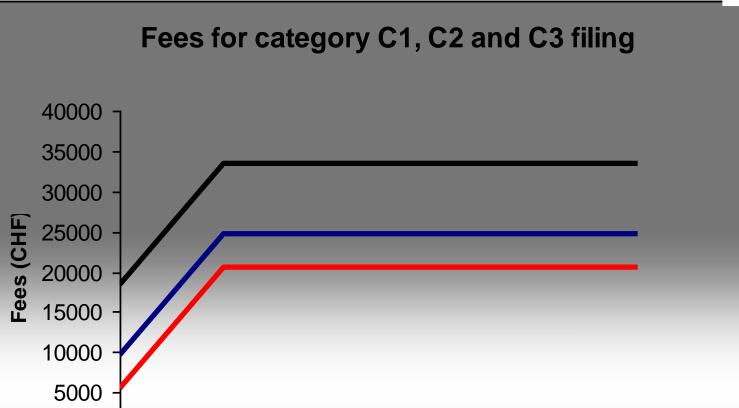


#### **Fees for Coordination Requests**





#### **Fees Scaling for Coordination Requests**



No. of units



#### **Article 11 Notifications**

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

API date of receipt: after 19/10/2002

Conditions

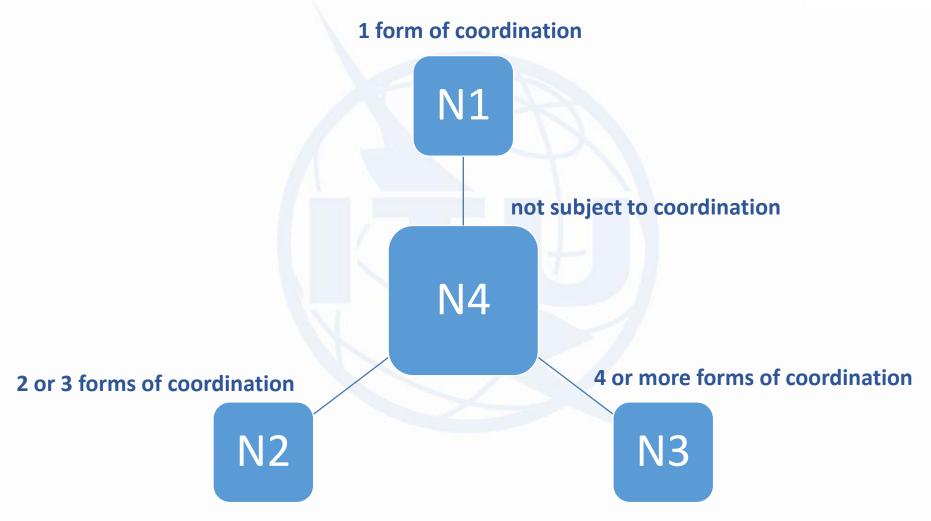
For N1, N2, N3 only:

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

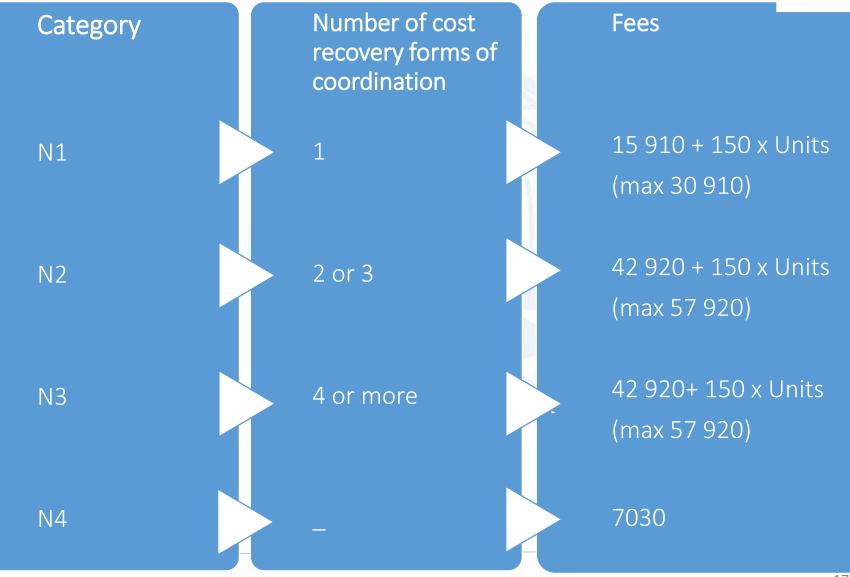
Otherwise, only 70% of the fee will be invoiced and the remaining 30% will be invoiced if and when **No.11.32A** will be requested by the Administration.



#### **Categorization of Notifications**

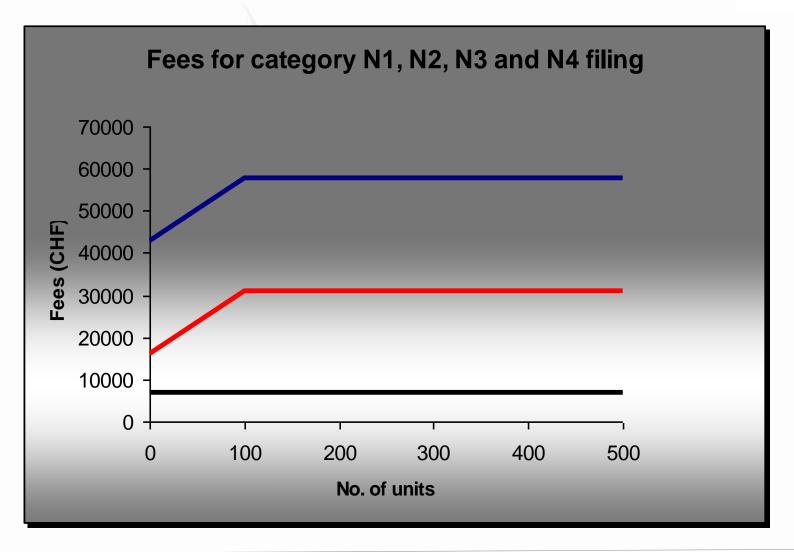






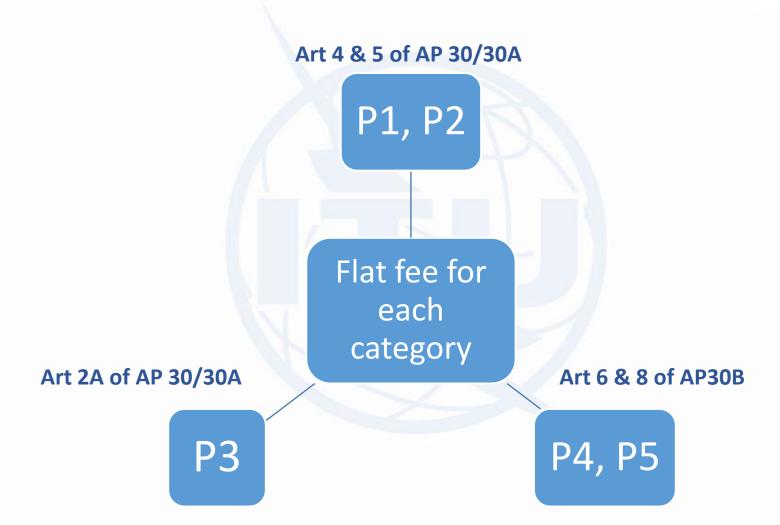


#### **Fees Scaling for Notification Filings**





#### **Categorization of Plans**





P1

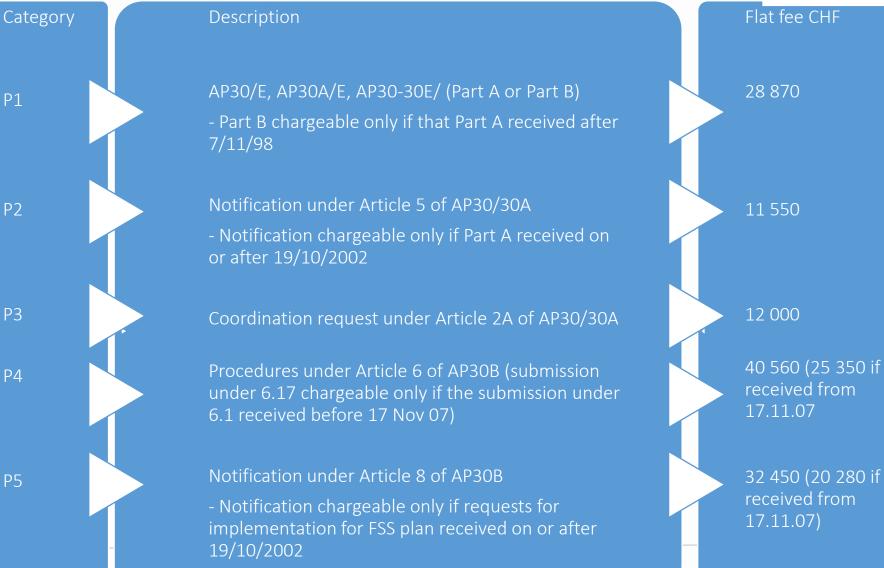
P2

P3

Ρ4

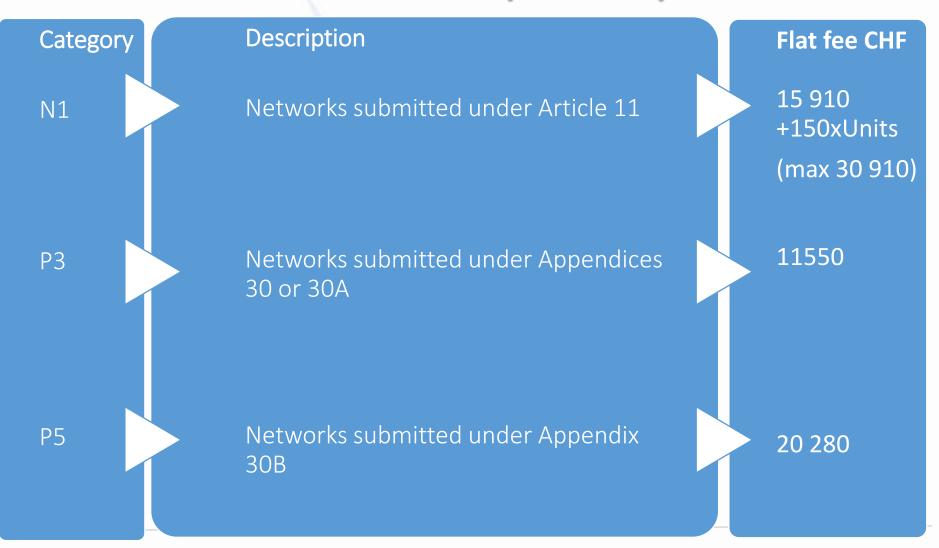
P5

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





#### 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)

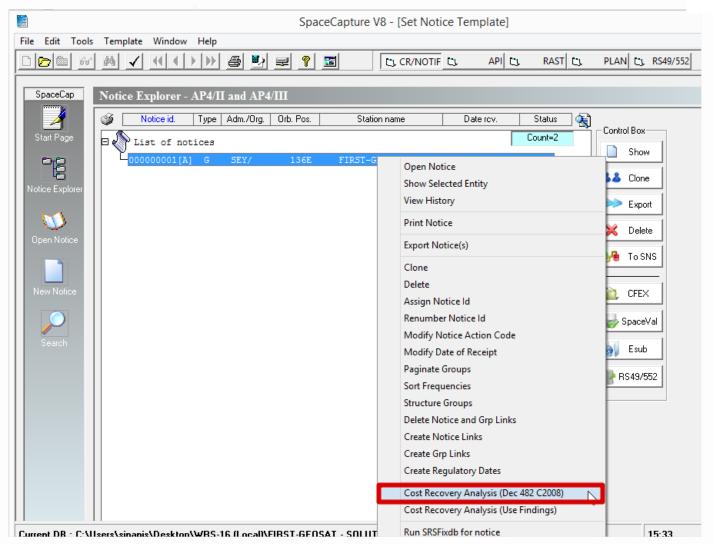
Invoicing process

#### **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 Cost Analysis Results

<ul> <li>(i)</li> </ul>	Cost Recovery Analysis	- 5	×
۷ 🚔 🔚 🔶			
Cost Recovery Analysis (Dec 4	82 C2008)		^
Analysis run at: 15:36:41 on 12.12.2010	5		
Notice id: 1			
Satellite Network: FIRST-GEOSAT			
Services: EC			
Provisions: AP30#7.1,9.7,AP30A#7.1			
Category: C2			- 11
Cost Recovery Units: 123			
Estimate of Cost Recovery Fee			- 11
Flat Fee: CHF 24,620 (Category C2)			
Total Fee: = CHF 24,620			~



## **Address field on the invoice**

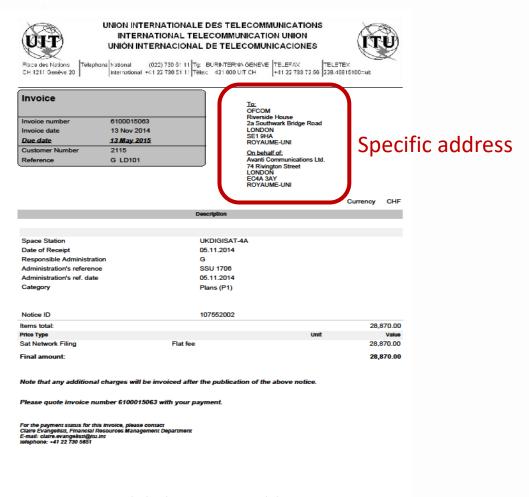
#### **Invoice will be issued to the Administration**

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





#### **Invoice example**



Les palements sont a effectuer en trans suisses à l'ordre du Secrétaria general de l'ULIT. Payments should be made in Swiss France to the General Secretaria d'he ILU. Los pagos deben efectuarse en transos suizos a la orden de laSecretariat General de la ULIT. Banque - Banto LIBS A. PO Box 2600. [211 Geneva, Acount No CH9600204204207555550, Switt No : UBS/WCH2H8DA



# 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 1<sup>st</sup>
 December 2006

If payment is not received by 15 May
2008, 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 <u>After that</u>, 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



#### References

- Council Decision 482 (modified C2013)
- BR Circular letter CR/245
- BR web site <u>http://www.itu.int/ITU-R/go/space-cost-</u> <u>recovery/en</u>



## Thank you!

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