

# Commenting on AP30\* Special Sections

Workshop on Space Plan services  
(AP30/30A/30B)



Presented by  
ITU-R/SSD Space Notification and Plans Division



*Committed to connecting the world*

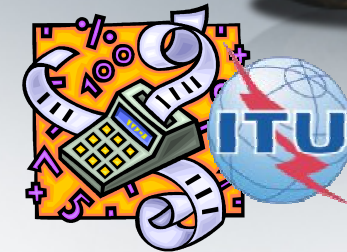
WRS-2010

# Commenting on Special Sections



## BR Examination

on proposed satellite network  
identifies affected Administrations



## Publication

of results in BR IFIC Special Sections



**Affected Administrations have  
4 months to comment**



i.e to inform BR and Notifying Administration of their agreement  
for interfering OR their request for coordination/objection

# Commenting on AP30\* Special Sections





<p><b>BSS PLAN</b> Special Section: <b>AP30(30A)/E/ Part A</b></p>	<p><b>SOF in planned bands</b> Special Section: <b>AP30-30A/F/C/</b></p>	<p><b>FSS PLAN</b> Special Section: <b>AP30B/A6A/</b></p>
<p>BR examination under: A30#4.1.1A/B/C/D/E A30A#4.1.1A4/A7/B4/B7/C/D A30A#4.1.1D(Art.2A) A30#4.2.3A/B/C/D/E6/E7/F A30A#4.2.2A/B/C</p>	<p>BR examination under: AP30#4.1.1D AP30#4.2.3D</p> <p>BR examination under: RR 9.7 AP30#7.1 AP30A#7.1</p>	<p>BR examination under: AP30B#6.5 AP30B#6.6</p>

To comment within 4 months, the Administrations identified above use:

 **SpaceCom software**  
To express disagreement  
(agreement by default)



**Telefax to BR / notifying Adm**  
To express comment  
(disagreement by default)

OR

Results in Special Section:  
**AP30(30A)/E/ Part D**

Results in Special Section:  
**AP30-30A/F/D/**

**BR assistance for coordination**  
**Telefax to affected Adm**



# To comment: how identifying administrations affected by a proposed satellite network?



1. **SpaceCom – Plan**

2. **Searching the BR IFIC**



3. **Using SpaceQry**



4. **Examining the SPS or 30B databases**



5. **Using SNS-OnLine**



**SPS report – detailed information cf. SPS workshop**

# To comment: how identifying administrations affected by a proposed satellite network?



## 1. SpaceCom – Plan

## 2. Searching the BR IFIC



## 3. Using SpaceQry



## 4. Examining the SPS or 30B databases

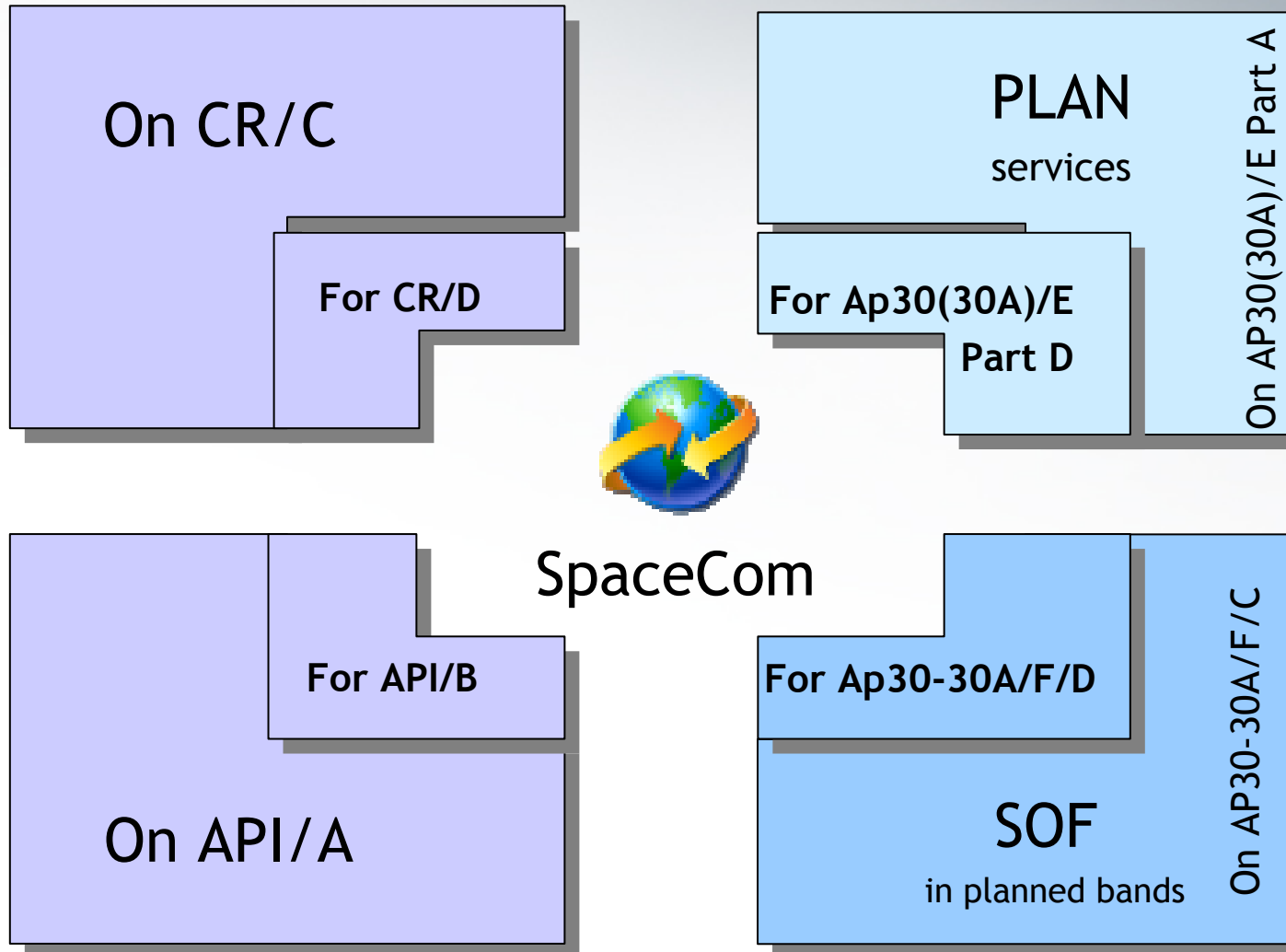


## 5. Using SNS-OnLine





# 1. SpaceCom - Plan (1/4)



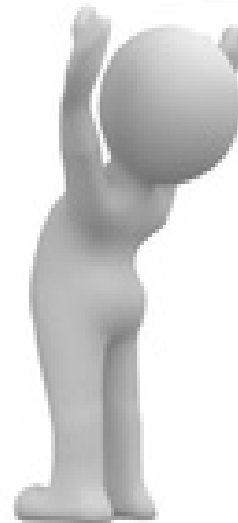
Potentially  
Affected Adm.



Notifying  
Adm.



**Publish BR IFIC  
AP30\*/E Part A**





Potentially  
Affected Adm.

Capture comments  
4 months time-period

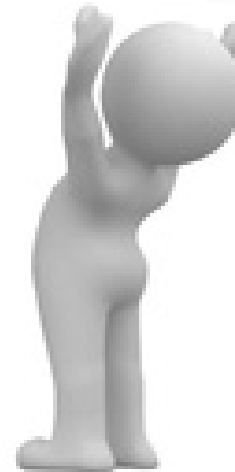


SPS\_mdb

ITU-R



Publish BR IFIC  
AP30\*/E Part A



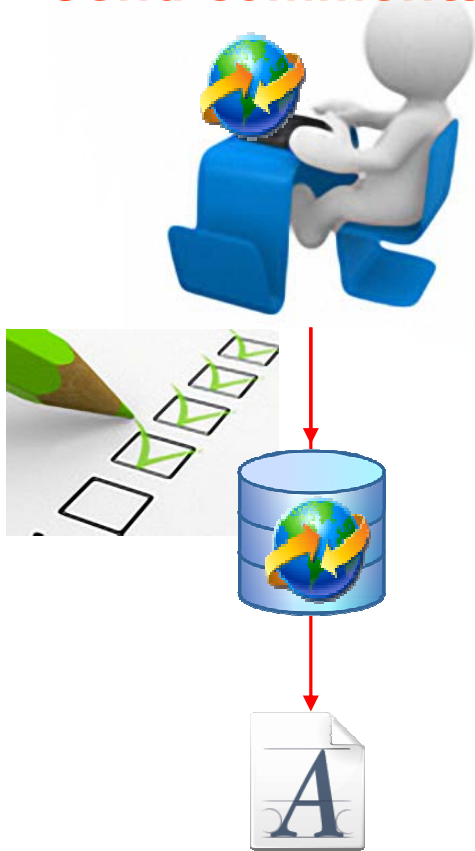
Notifying  
Adm.



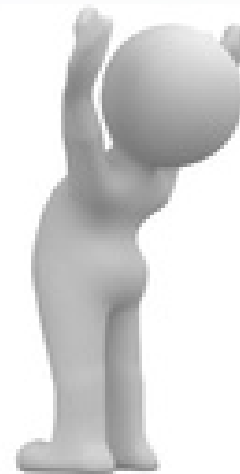


# Potentially Affected Adm.

Complete, validate,  
Send comments file



# ITU-R



# Notifying Adm.



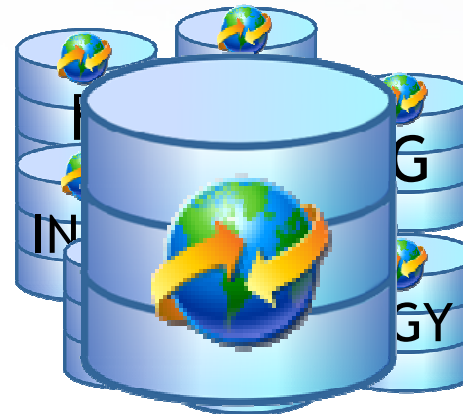
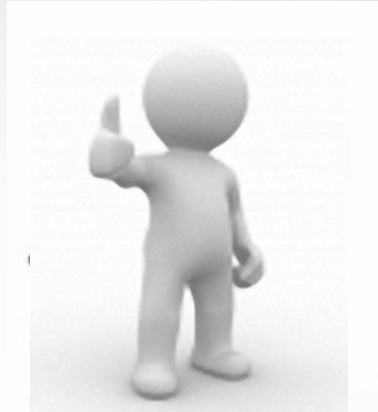
Potentially  
Affected Adm.

ITU-R



Analyses comments  
Creates SpaceCom draft mdb  
AP30\*/E Part D

Notifying  
Adm.



Potentially  
Affected Adm.



Notifying  
Adm.



View SpaceCom  
Draft Part D mdb



BR IFIC with posted  
SpaceCom Draft mdb



Validate Draft Part D  
1month time-period  
Send Draft Part D file

Draft mdb

Draft mdb



Potentially  
Affected Adm.



Notifying  
Adm. 



**Publish BR IFIC  
with  
AP30\*/E Part D**





## 1. SpaceCom - Plan (4/4)



- Practice in next session of the workshop

# To comment: how identifying administrations affected by a proposed satellite network?



1. SpaceCom – Plan

2. Searching the BR IFIC



3. Using SpaceQry



4. Examining the SPS or 30B database



5. Using SNS-OnLine





## Identifying administrations affected by a proposed satellite network

### 2. Searching the BR IFIC (1/3)



The main steps are:

a. Insert  in the user's computer

b. Open each AP30/E, AP30A/E, AP30-30A/E Part A, AP30-30A/F/C or AP30B/A6A **Special Section (PDF format)** 

c. Use the Adobe Acrobat “Find” tool to search for the 3 digits abbreviation of the subject administration

d. Note the name of the **affecting network** and the **provision number**





# Identifying administrations affected by a proposed satellite network

## 2. Searching the BR IFIC (2/3)



b.

a.

**BRIFIC**  
International  
Frequency  
Information  
Circular  
(Space Services)

SECTION SPECIALE No SPECIAL SECTION No SECCIÓN ESPECIAL No 特殊番号 СЕКЦИОННЫЙ ЦИФРОВОЙ № قسم الخاص رقم	ADMINISTRATION RESPONSIBLE RESPONSIBLE ADMINISTRATION ADMINISTRACIÓN RESPONSABLE 负责主管部门 ОТДЕЛ ОБЪЕДИНЕННЫХ АДМИНИСТРАЦИЙ الإدارة الموحدة	NOM DE LA STATION SPATIALE NAME OF THE SPACE STATION NOMBRE DE LA ESTACIÓN ESPACIAL 空间站名称 НАЗВАНИЕ КОСМИЧЕСКОГО СТАЦИОНА اسم المحطة الفضائية	POS. ORS ORS. POS. POS. ORS. 軌道位置 ORS. POS. الموقع المداري	NUMERO D'IDENTIFICATION IDENTIFICATION NUMBER NUMERO DE IDENTIFICACIÓN 识别号 ИДЕНТИФИКАЦИОННЫЙ НОМЕР رقم تعريف المحطة
CR/C/2700	F	MM 10.25W	10.25 W	110 520221
CR/C/2701	AUS	ENDEAVOUR-14 3E	143 E	110 520222
CR/C/2702	AUS	ENDEAVOUR-14 7E	147 E	110 520223
CR/C/2703	AUS	ENDEAVOUR-166E	166 E	110 520224
CR/C/2704	AUS	ENDEAVOUR-169E	169 E	110 520225
CR/C/2705	G	GIBSAT-113W	113 W	110 520226
CR/D/1660	NOR	BIFROST-2E-FSS-2009	2 E	109 520237
CR/D/1661	NOR	BIFROST-4W-FSS-2009	4 W	109 520236
AP30A/E/529	HOL	NSS-BSS 134E	134 E	110 554010
AP30A/E/530	PNG	PACIFISAT BSS-156E	156 E	110 554011
AP30A/E/531	PNG	PACIFISAT BSS-159E	159 E	110 554012
AP30E/512	I	INTERACT	9 E	109 552033
AP30E/529	HOL	NSS-BSS 134E	134 E	110 552010
AP30E/530	PNG	PACIFISAT BSS-156E	156 E	110 552011
AP30E/531	PNG	PACIFISAT BSS-159E	159 E	110 552012
AP30B/A6B/13	USA	USASAT-55E	43 W	104 559005
AP30-30A/E/4 92	G	USAT-S4 MCD-A	68.5 W	109 555003
AP30-30A/E/5 11	G	USAT-S4 MCD-B	68.5 W	109 555008
RES4/495	RUS	TCR-6	128 E	955 00611
RES4/496	RUS	GALS-14	69 E	955 00184
RES4/497	RUS	VOLNA-9	128 E	101 500385
RES4/498	RUS	VOLNA-11	35 E	101 500386
RES49/789 MCD-1	THA	THA/COM-C1	50.5 E	110 590101 / 10 3591241

BRIFIC 2682





# Identifying administrations affected by a proposed satellite network

## 2. Searching the BR IFIC (3/3)



AP30e0529.pdf - Adobe Reader

File Edit View Document Tools Window Help

1 / 32 52.1% LAO

UIT ITU

UNION INTERNATIONALE DES TÉLÉCOMMUNICATIONS  
BUREAU DES RADIOCOMMUNICATIONS

INTERNATIONAL TELECOMMUNICATION UNION  
RADIOCOMMUNICATION BUREAU

UNIÓN INTERNACIONAL DE TELECOMUNICACIONES  
OFICINA DE RADIOCOMUNICACIONES

RÉSEAU A SATELLITE SATELLITE NETWORK RED DE SATÉLITE	<b>NSS-BSS 134E</b>	SECTION SPÉCIALE N° SPECIAL SECTION No. SECCIÓN ESPECIAL N.º	<b>AP30/E/529</b>
ADM. RESPONSABLE RESPONSIBLE ADM. ADM. RESPONSABLE	<b>HOL</b>	LONGITUDE NOMINALE NOMINAL LONGITUDE LONGITUD NOMINAL	<b>134</b>
NOTIFIÉ AU NOM DE NOTIFIED ON BEHALF OF NOTIFICADA EN NOMBRE DE			
RENSEIGNEMENTS REÇUS PAR LE BUREAU LE / INFORMATION RECEIVED BY THE BU			

C.

AP30e0529.pdf - Adobe Reader

File Edit View Document Tools Window Help

23 / 32 100% LAO

A1f1 Notifying adm.	A1f3 Inter. sat. org.	A1a Sat. Network / A1b Plan beam identification	BR6a Id. no.	A4a1 Orbital long.	BR45 Max. EPM/OEPM degradation	BR46 Max. PFD excess
App.30 Art.4, §§4.1.1 a) & 4.1.1 b) - Annexe 1, §1 App.30 Art.4, §§4.1.1 a) & 4.1.1 b) - Annex 1, §1 Ap.30 Art.4, §§4.1.1 a) & 4.1.1 b) - Anexo 1, §1 附录30第4条, 第4.1.1 a)段和 4.1.1 b)段 - 附件1, 第1段 Пр. 30 Ст. 4, пп. 4.1.1 a) и 4.1.1 b) - Дополнение 1, п. 1 الفقرتان 1.1.4 (أ) و 1.1.4 (ب) من المادة 4 من التذييل 30 - الفقرة 1 من الملحق 1						
CHN		CHN15800	100550042	134 E	23.223	39.62
		CHNBSAT-134E	103552006	134 E	36.110	40.31
		CHNC_100	100550046	134 E	23.229	39.93
HOL		NSS-BSS 130E	110552002	130 E	4.019	8.52
		NSS-BSS 142E	110552008	142 E	1.034	0.44
J		NB-SAT-134A	103552001	134 E	22.035	39.93
LAO		LSTAR4B	100551029	126 E	1.186	0.04
NRU		NRU30900	100550158	134 E	24.540	39.41
PNG		PNG13100	100550164	134 E	26.491	40.67
RUS		RST-5	100550176	140 E	0.920	2.09

A1f1 Notifying adm.	A1a Sat. Network / A1b Plan beam identification	A4a1 Orbital long.	BR3b Category of notif.	BR25 AT	BR6a Id. no.
App.30 Art.4, §4.1.1 c) - Annexe 1, §3 App.30 Art.4, §4.1.1 c) - Annex 1, §3					

11.69 x 8.26 in

d.

# To comment: how identifying administrations affected by a proposed satellite network?



1. SpaceCom – Plan

2. Searching the BR IFIC



3. Using SpaceQry



4. Examining the SPS or 30B databases



5. Using SNS-OnLine





### 3. Using SpaceQry(1/4)



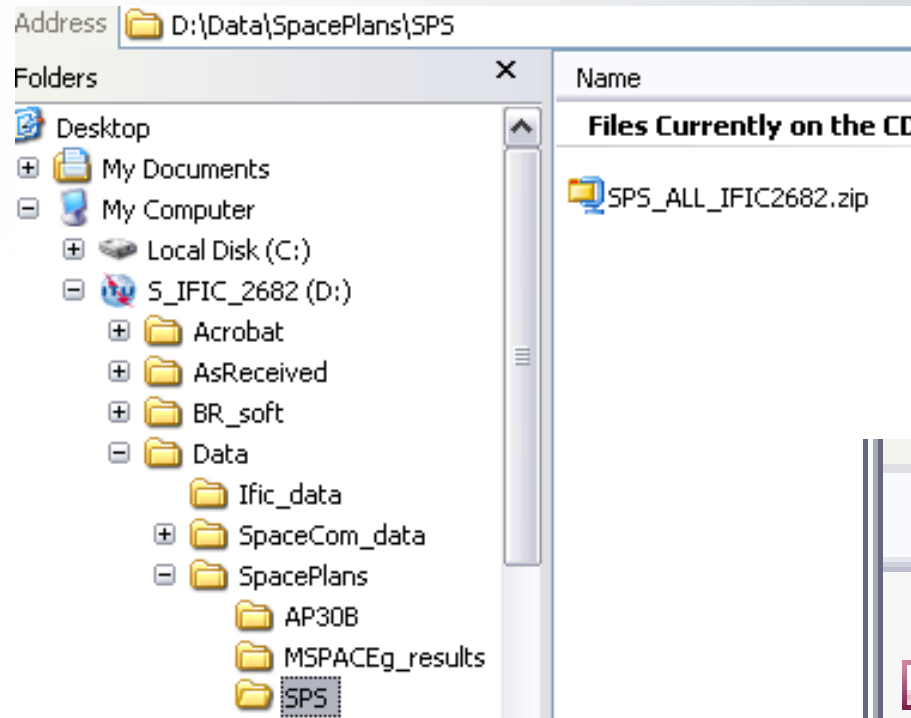
The main steps are:

- a. Copy the zipped **SPS or A30B databases** from the BR IFIC CD ROM or the ITU website to the user's computer
- b. Un-zip the SPS or A30B databases
- c. Open the SPS/30B database with **SpaceQry**
- d. Search networks published in the BR IFIC
- e. Select a network
- f. Click **“show coordination info”**

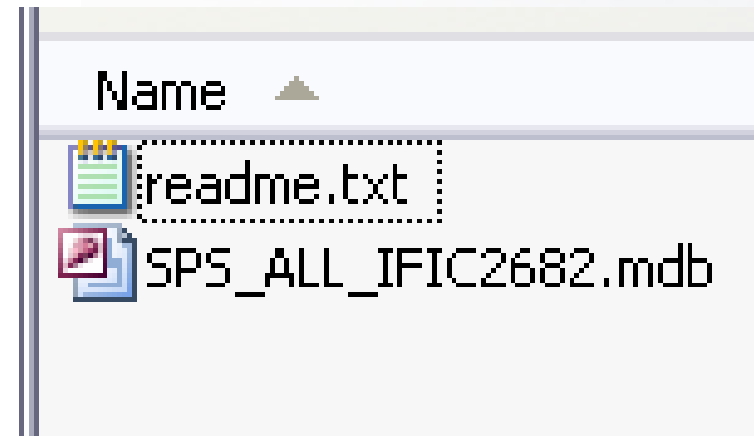


# Identifying administrations affected by a proposed satellite network

## 3. Using SpaceQry(2/4)



**b.**







# Identifying administrations affected by a proposed satellite network

## 3. Using SpaceQry(3/4)



d.

Startup Wizard Database Selection

Look in: IFIC\_DB PLAN

SPS\_ALL\_IFIC2681.mdb  
SPS\_ALL\_IFIC2682.mdb

File name: SPS\_ALL\_IFIC2682.mdb

Files of type: All Publication Circulares

BR Space Query and Extract System

File Actions Options Help

Standard Query: ( e:\br\_data\spacelific\_db plan\sp\_s\_all\_ific2682.mdb )

Overlap Criteria Quick Queries Plan Criteria Stored Queries  
Query Type General Criteria Station Criteria Frequency Criteria

Notification Reason

Notification  Satellite Coordination  Advanced Publication  BSS Plan  
 Due Diligence  Earth Station Coordination  FSS Plan

Administrative Criteria

Administration: Organization:  
BR Network ID: BR Status:  
Publication Number: 2682 Publication Part:

Sorting Order

Administration  Orbital Position  Adm Identification  BR Identification  
 Notification reason  Publication Number  Satellite Name  BR Status

C.



# Identifying administrations affected by a proposed satellite network

## 3. Using SpaceQry(4/4)



BR Space Query and Extract System

File View Window Help

Space Network / Earth Station List [ SPS\_ALL\_IFIC2682 ]

List of (6) Space Networks / Earth Stations for SPS\_ALL\_IFIC2682

+/-	Notice ID	Adm	Org	Type	Satellite Name	Orbital Position	Station Name	Rsn	Date Received
A	110552010	HOL		G	NSS-BSS 134E	134.00		B	19.07.2010
A	110554010	HOL		G	NSS-BSS 134E	134.00		B	19.07.2010
A	110552011	PNG		G	PACIFISAT BSS-156E	156.00		B	20.07.2010
A	110554011	PNG		G	PACIFISAT BSS-156E	156.00		B	20.07.2010
A	110552012	PNG		G	PACIFISAT BSS-159E	159.00		B	20.07.2010
A	110554012	PNG		G	PA				

f.

e.

Space Network / Earth Station List [ SPS\_ALL\_IFIC2682 ]

Plan Notice Details

ID: 110552010 Plan: WRC-00 DL Date Rcvd: 19.07.2010 Status: 24 IFIC No/Part: 2682 / ss

Admin: HOL Org: Adm Ref Id:

Action: A Type: G Ntf Reason: B 4.1.3

Geostationary Satellite Details

Sat Name: NSS-BSS 134E Nominal Long: 134.00 Tolerance East: .10  
Tolerance West: .10  
Inclination: .00

Beam Details (2)

+ / -	Beam	E / R	Gain (dB)	xGain (dBi)	Radiation Pattern
	GBL	E	30.00	.00	
	RG1	E	30.00	.00	

List of Affected Networks for 11

Plan Coordination for Network: 1

Coordination Requirements for Network 11

IFIC / WIC no	Provision	Status	Seq No	Adm
2682	A30#4.1.1A	I	1	CHN
			2	NRU
			3	PNG
			4	RUS
2682	A30#4.1.1B	I	1	CHN
			2	HOL
			3	J
			4	LAO
2682	A30#4.1.1C	I	1	
2682	A30#4.1.1D	I	1	AFG
			2	ARS
			3	F
			4	F 22
			5	F





# To comment: how identifying administrations affected by a proposed satellite network?



1. SpaceCom – Plan

2. Searching the BR IFIC



3. Using SpaceQry



4. Examining the SPS or 30B databases



5. Using SNS-OnLine



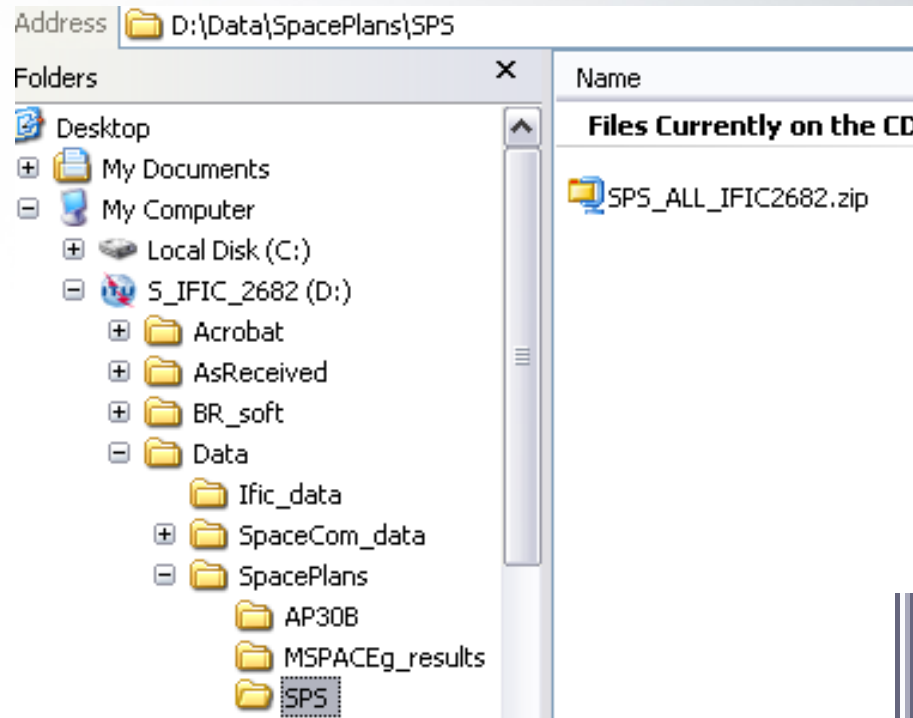
## 4. Examining the SPS or 30B databases(1/4)



The main steps are:

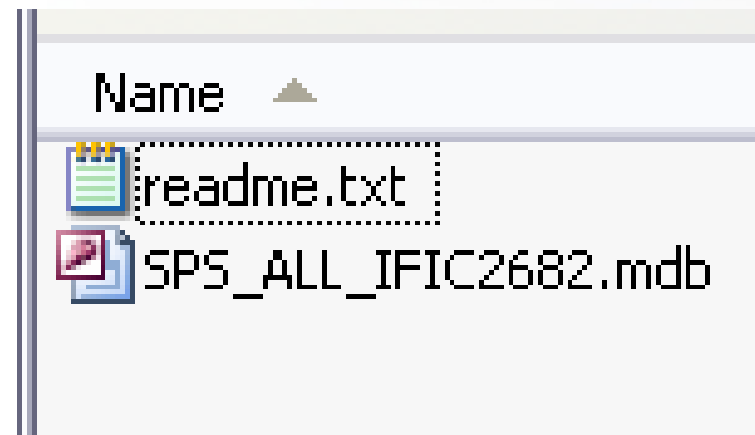
- a. Copy the zipped **SPS or 30B databases** from the BR IFIC CD ROM or the ITU website to the user's computer
- b. Un-zip the SPS/30B database
- c. Open the SPS/30B database using **Microsoft ACCESS**.  
Open the **“tr\_provn” table**
- d. In the **“adm”** field, use the **“filter for”** tool to find the relevant records of the affected administration
- e. Note the notice ID, BR IFIC no. and the provision number of the affected network
- f. Repeat steps c) to e) with the **“tr\_aff\_ntw”** table

# 4. Examining the SPS or 30B databases(2/4)



a.

b.



# 4. Examining the SPS or 30B databases(3/4)



SPS\_ALL

All Access Objects

- srs\_oak
- srv\_area
- srv\_cls
- st\_queue
- strap
- tr\_aff\_ntw
- tr\_provn**
- upd\_hist

Rea... Num Lock

C.

d.

d_prov	agree_s	wic_no	seq_n	coord_st	adm	ntwk_or	ctry
4.2.3E6	I	2681	1		AUS		
4.2.3E6	I	2681	2		J		
4.2.3E7	I	2681	1				
4.2.3F	I	2681	1				
110555003	A30A#4.1.1D	I	2681	1			
110555003	A30A#4.2.2A	I	2681	1			
110555003	A30A#4.2.2B	I	2681	1			
110555003	A30A#4.2.2C	I	2681	1	ARG		
110555003	A30A#4.2.2C	I	2681	2	ATG		
110555003	A30A#4.2.2C	I	2681	3	B		
110555003	A30A#4.2.2C	I	2681	4	BOL		
110555003	A30A#4.2.2C	I	2681	5	CAN		
110555003	A30A#4.2.2C	I	2681	6	CHL		
110555003	A30A#4.2.2C	I	2681	7	DMA		
110555003	A30A#4.2.2C	I	2681	8	DOM		
110555003	A30A#4.2.2C	I	2681	9	G		

Sort A to Z

Sort Z to A

Clear filter from adm

Text Filters

- KIR
- KNA
- KOR
- KRE
- KWT
- LAO
- LBN
- LBR
- LBY
- LCA

OK Cancel



# 4. Examining the SPS or 30B databases(4/4)

tr_provn					
ntc_id	coord_prov	a	wi		adm
107552014	A30#4.1.1D	N	2605	4	LAO
108552014	A30#4.1.1D	N	2639	4	LAO
110552002	A30#4.1.1A	I	2672	2	LAO
110552002	A30#4.1.1B	I	2672	3	LAO
110552010	A30#4.1.1B	I	2682	4	LAO

e.

f.

tr_aff_ntw					
ntc_id	coord_prov	agree_st	aff_ntc_id	adm	ntwk_org
100520365	9.7	A	98520659	USA	
100520365	A30#7.1	Q	95552047	G	
100520490	9.7	A	98520659	USA	
100520490	A30#7.1	Q	95552047	G	
100520490	A30#7.1	Q	97552044	INS	
100520490	A30#7.1	Q	97552045	INS	
100520491	9.7	A	98520659	USA	
100520491	A30#7.1	Q	95552047	G	
100520491	A30#7.1	Q	97552044	INS	
100520491	A30#7.1	Q	97552045	INS	
101520078	9.7	A	98520659	USA	
101520078	A30#7.1	Q	95552047	G	
101556001	9.7	A	98520659	USA	
101556001	A30#7.1	Q	95552047	G	
101556001	A30#7.1	Q	97552044	INS	

Sort A to Z  
Sort Z to A  
Clear filter from ad

Text Filters

- JMC
- KAZ
- KOR
- KRE
- LAO
- LBN
- LBR
- LUX
- LVA
- MCO

OK

# To comment: how identifying administrations affected by a proposed satellite network?



1. SpaceCom – Plan

2. Searching the BR IFIC



3. Using SpaceQry



4. Examining the SPS database



5. Using SNS-OnLine





## 5. Using SNS-OnLine (1/3)



The main steps are:

- a. With your TIES account, connecting <http://www.itu.int/sns/plans.html>
- b. Input data and Submit
- c. “See TSUM” of the selected network
- d. Use the “Find” facility in the Coordination requirements to find the relevant records of the affected administration





# 5. Using SNS-OnLine (2/3)

a.

http://www/sns/plans.html - Windows Internet Explorer

**Radiocommunication**

**Space Network Systems Online**

**Space Plans Query System**

**NETWORKS INFORMATION**

Enter data	or enter notice identifier
Satellite Name : <input type="text" value="NSS-BSS 134E"/>	Notice identifier : <input type="text"/>
Notifying Administration : <input type="text"/>	
Network Organization : <input type="text"/>	
Longitude (from) : <input type="text" value="-180"/> (to) : <input type="text" value="180"/>	

Select plan then click 'Submit' to run query or 'Cancel' to restart

**BSS Plans & Lists (AP30/30A)**

Region 1&3 Downlink (AP30)  
  Region 1&3 Feeder-link (AP30A)  
  Region 2 (AP30/30A)  
  All

Article 4 (Seeking agreement)  
  Article 5 (Notification)  
  Due Diligence (Res.49)  
  PLAN/List  
  All

**Guardbands (Space Operation Functions)**

Article 2A (Coordination)  
  Article 11 (Notification)  
  All

or

**FSS Plan (AP30B)**

Article 6 (Seeking agreement)  
  Article 8 (Notification)  
  Due Diligence (Res.49)  
  PLAN/List  
  All

**NEW**  
**FSS Plan AP30B**  
**data**  
**available as from**  
**25 January 2011!**

b.



## 5. Using SNS-OnLine (3/3)

### C.

SATELLITE NAME	CATEGORY	DATE OF RECEIPT	NOTICE ID.	PLAN ID.	ADM	NTWK ORG	LONGITUDE DETAILS	STATUS	BR IFIC
<a href="#">NSS-BSS 134E</a>	B	19.07.2010	110552010	00DN	HOL		134	<a href="#">See TSUM</a>	<a href="#">24</a> <a href="#">2682</a>

### d.

COORDINATION						
Provision	Status	BR IFIC	Coord. Status	Admin.	Ntwk Org.	Country
A30#4.1.1A	I	2682			CHN	
A30#4.1.1A	I	2682			NRU	
A30#4.1.1A	I	2682			PNG	
A30#4.1.1A	I	2682			RUS	
A30#4.1.1B	I	2682			CHN	
A30#4.1.1B	I	2682			HOL	
A30#4.1.1B	I	2682			J	
A30#4.1.1B	I	2682			LAO	
A30#4.1.1C	I	2682				

# Web links for further information



## SpaceCom software:

<http://www.itu.int/en/ITU-R/software/Pages/spacecom.aspx>

## SpaceQry software:

<http://www.itu.int/en/ITU-R/software/Pages/spaceqry.aspx>

## BR IFIC:

<http://www.itu.int/ITU-R/go/space-brific/en>

## SPS/30B databases:

<http://www.itu.int/en/ITU-R/space/plans/Pages/AP30-30A.aspx>

<http://www.itu.int/en/ITU-R/space/plans/Pages/AP30B.aspx>

## SNS On line:

<http://www.itu.int/sns/>



# Your questions are welcome

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## Thanks!