Identification of affected Administrations on AP30* Special Sections

(SpaceCom AP30(30A)/E Part A and AP30-30A/F/C)

Presented by Omar KA

ITU-R/SSD/SSC

Niamey, Niger

5 -9 December 2011

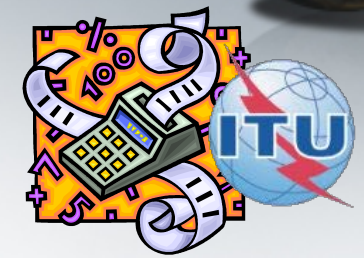
International Telecommunication Union

Committed to connecting the world

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

BSS PLAN	SOF in planned bands		FSS PLAN
Special Section:	Special Section:		Special Section:
AP30(30A)/E/ Part A	AP30-30A/F/C/		AP30B/A6A/
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	BR examination under: AP30#4.1.1D AP30#4.2.3D	BR examination under: RR 9.7 AP30#7.1 AP30A#7.1	BR examination under: AP30B#6.5 AP30B#6.6

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

BR assistance for coordination
Telefax to affected Adm

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

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

1. SpaceCom – Plan (with exercises)

2. Searching the BR IFIC

3. Using SpaceQry

4. Examining the SPS or 30B database

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 (with exercises)**
2. Searching the BR IFIC
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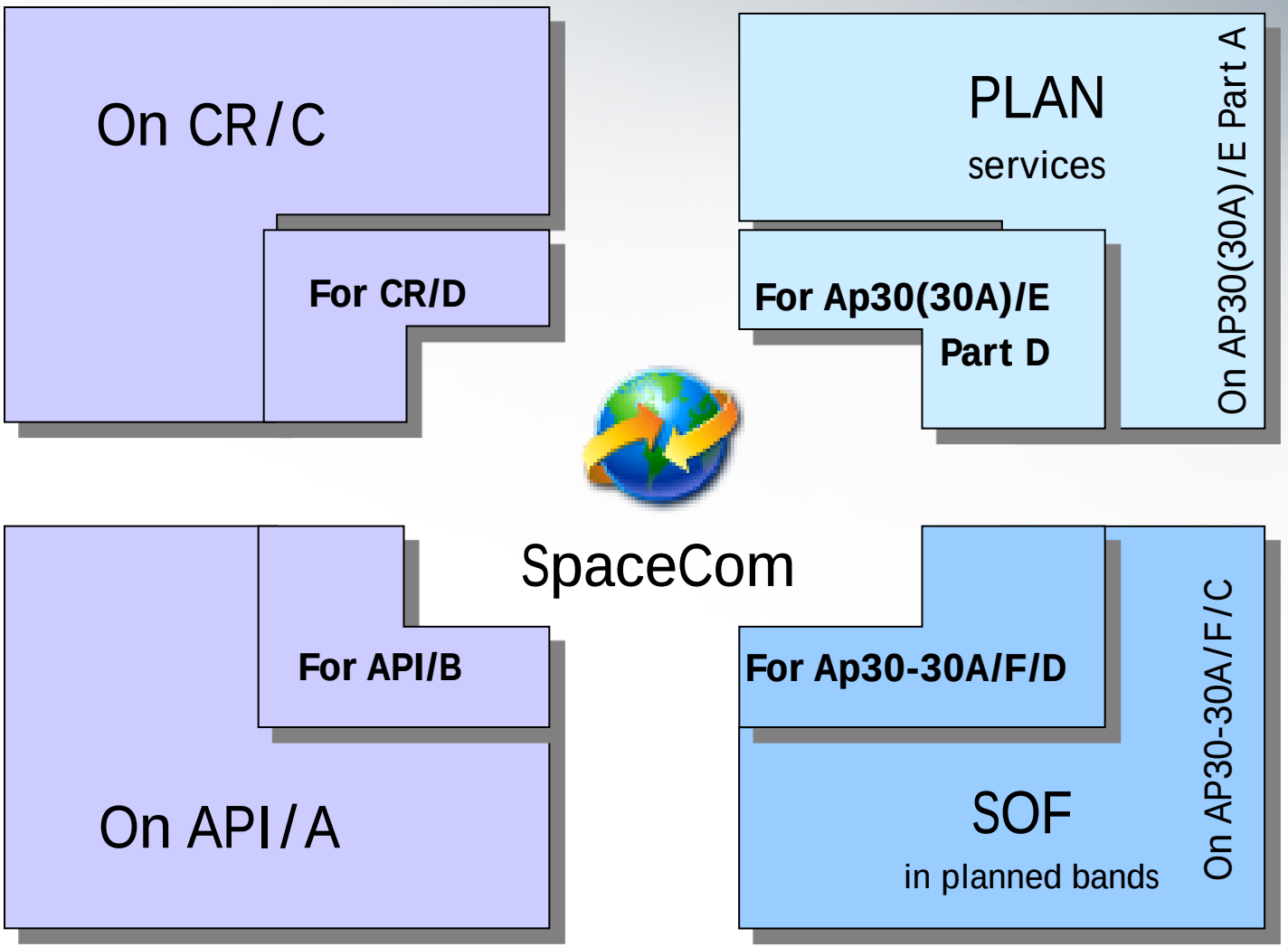
1. SpaceCom - Plan (1/2)

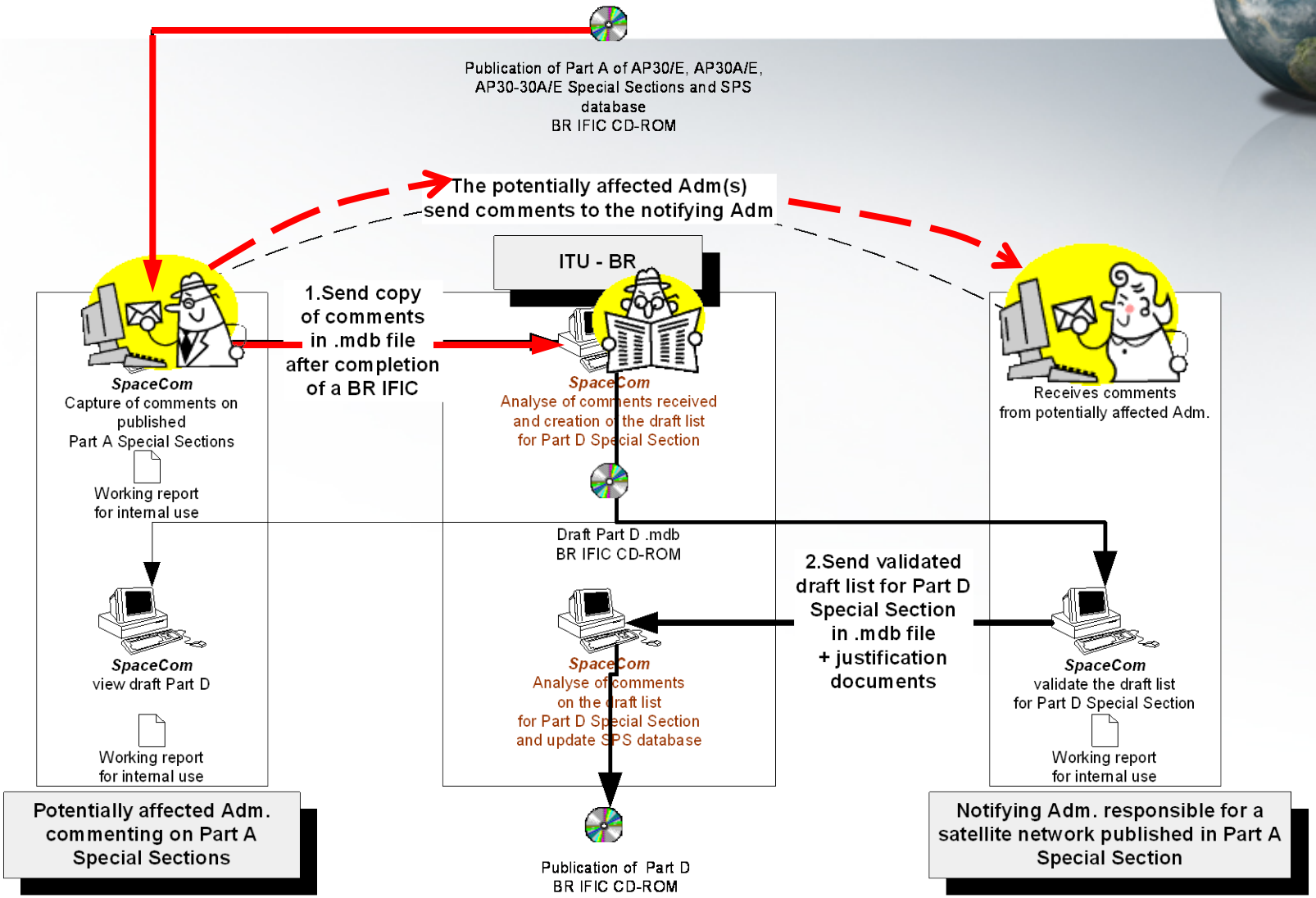


1. SpaceCom – Plan (2/2)

Exercise I: the affected Administration captures its comments on a BR IFIC

Exercise II: the notifying Administration validates the draft list of potentially affected administrations

Exercise I: the affected Administration captures its comments on BR IFIC 2629



Exercise I: you are the Administration "POR" commenting on AP30*/E Part A Special Sections published in the BR IFIC 2629 / 30.09.2008

- Open SpaceCom demo software / click "Ap30*/E PartA"
- Select the Administration code: "**POR**"
- Select "Potentially Affected Administration (Comments a PartA)"

In "Comment":

- Input PartA BR IFIC number / connect to the BR IFIC database: SPS_ALL_IFIC2629.mdb
- Click "Get list of PartA" / select CHOCO-SAT satellite network
- Click "Comment PartA…"

Your analysis of the published satellite network identified unacceptable interference caused on your networks under: A30#4.1.1B and A30#4.1.1E
And your Administration wants its territory POR/AZR to be removed from the service area under: RR 23.13C

- Input your comments accordingly and check "**comments completed**" when finished

In "Validate/Send":

- Enter BR IFIC no. / Browse Comments file location / Click "File validation"

C:\SpaceCom_Comments_Demo\Plan_comments\IFIC2629\AffADM\PLAN-IFIC2629_POR.mdb

Your comments file is ready and could be sent to the Bureau!

Exercise I: the affected Administration **captures its comments on BR IFIC 2629**

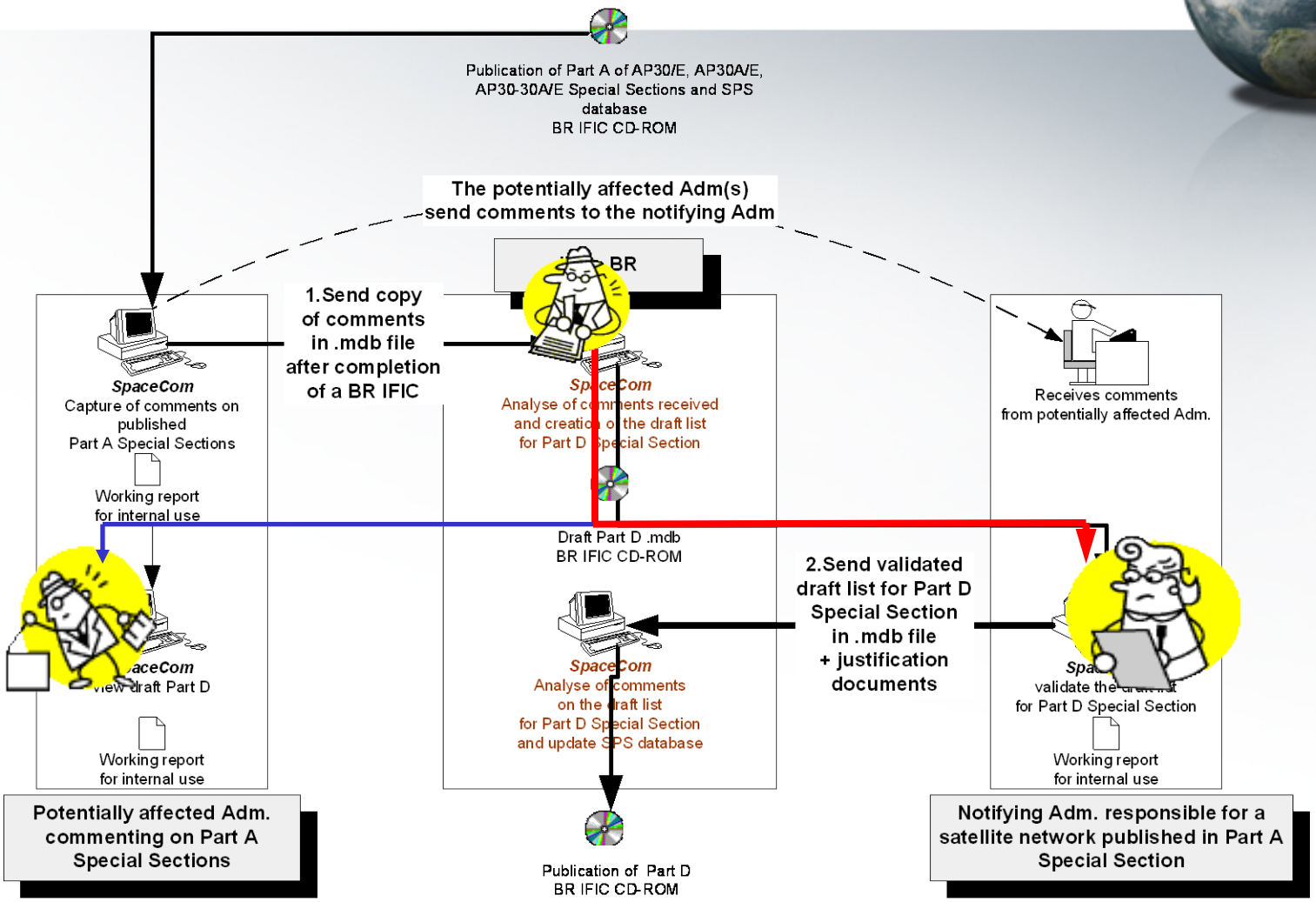
Solution

BR IFIC: 2629 ; Special Section: AP30/E/888 ; Adm./ntwk org.: SUI ; Sat. ntwk: CHOCO-SAT ; Orb. pos.: 30.00

ITU-BR SpaceCom working report for your internal use only.
Not receivable by BR

Provision	Examined notice	To be protected	Link	Identified by BR or added by Aff. Adm.	Administration comments	Comment ID
23.13B	Planned BSS	Territory		*		
23.13C	Planned BSS	Territory		POR/AZR	e1) disagreement	
A30#4.1.1A	Planned BSS	Planned BSS (PLAN)	DN	*		
A30#4.1.1B	Planned BSS	Planned BSS (Art.4/List)	DN	POR	a3) disagreement	
A30#4.1.1C	Planned BSS	Planned BSS (PLAN or Art.4)	DN	POR		
A30#4.1.1D	Planned BSS	Terrestrial		*		
A30#4.1.1E	Planned BSS	Non planned FSS	DN	POR	a3) disagreement	

Exercise II: the notifying Administration **validates the draft list of potentially affected administrations**



Exercise II: you are the Administration "POR"
Validating the draft list of valid comments of your satellite network POR-SAT published in AP30/E/999 Part A Special Section in BR IFIC 2604 / 02.10.2007 before publication of the AP30/E/999 Part D Special Section

- Open SpaceCom demo software / click "Ap30*/E PartA"
- Select the Administration code: "POR"
- Select "Notifying Administration (Confirms a draft PartD sent by the BR)"

In "Draft Validation":

- Input PartA BR IFIC number and reference / connect to the draft database: PLAN-IFIC2604_BR_AP30E999.mdb
  Note: for real cases, location in the BR IFIC is indicated in the Bureau's telefax

- Click "Get draft PartD" / select POR-SAT satellite network / Click "Validate..."

You have received same comments as the Bureau
from the Administration of "ALG", "DNK", "SUI" within the four-month period.
Agreement was received from Administration of "HOL" not copied to BR.

- Input your validation and check "**comments completed**" when finished.

In "Send to BR":

- Enter BR IFIC no. / Browse Validation file location / Click "File validation"

Your validation is ready and could be sent to the Bureau for AP30/E/999 Part D publication!

C:\SpaceCom_Comments_Demo\Plan_comments\IFIC2604\NotADM\Draft\
PLAN-IFIC2604_NOT_AP30E999.mdb

Exercise II: the notifying Administration **validates the draft list of potentially affected administrations**

Solution

BR IFIC: 2604 ; Special Section: AP30/E/999 ; Adm./ntwk org.: POR ; Sat. ntwk: POR-SAT ; Orb. pos.: -20.00

ITU-BR SpaceCom working report for your internal use only.
Not receivable by BR

Provision	Examined notice	To be protected	Link	Identified by BR or added by Aff. Adm.	Administration comments	Receivability of the comments	Remarks ID
A30#4.1.1B	Planned BSS	Planned BSS (Art.4/List)	DN	ALG	a3) disagreement	True	
				DNK	a3) disagreement	True	
				SUI	a3) disagreement	True	
A30#4.1.1D	Planned BSS	Terrestrial		HOL	c1) agreement through Notif. Adm.	False	
				F	c2) no agreement to be obtained	False	

SpaceCom - more information

the User Manual distributed with the software package

http://www.itu.int/ITU-R/software/space/spacecom/index.html

Contact SpaceCom:

BR_SpaceCom_support@itu.int

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

1. SpaceCom – Plan (with exercises)
2. **Searching the BR IFIC**
3. Using SpaceQry
4. Examining the SPS or 30B database
5. Using SNS-OnLine

2. Searching the BR IFIC (1/3)

The main steps are:

a. Insert

in the user's computer

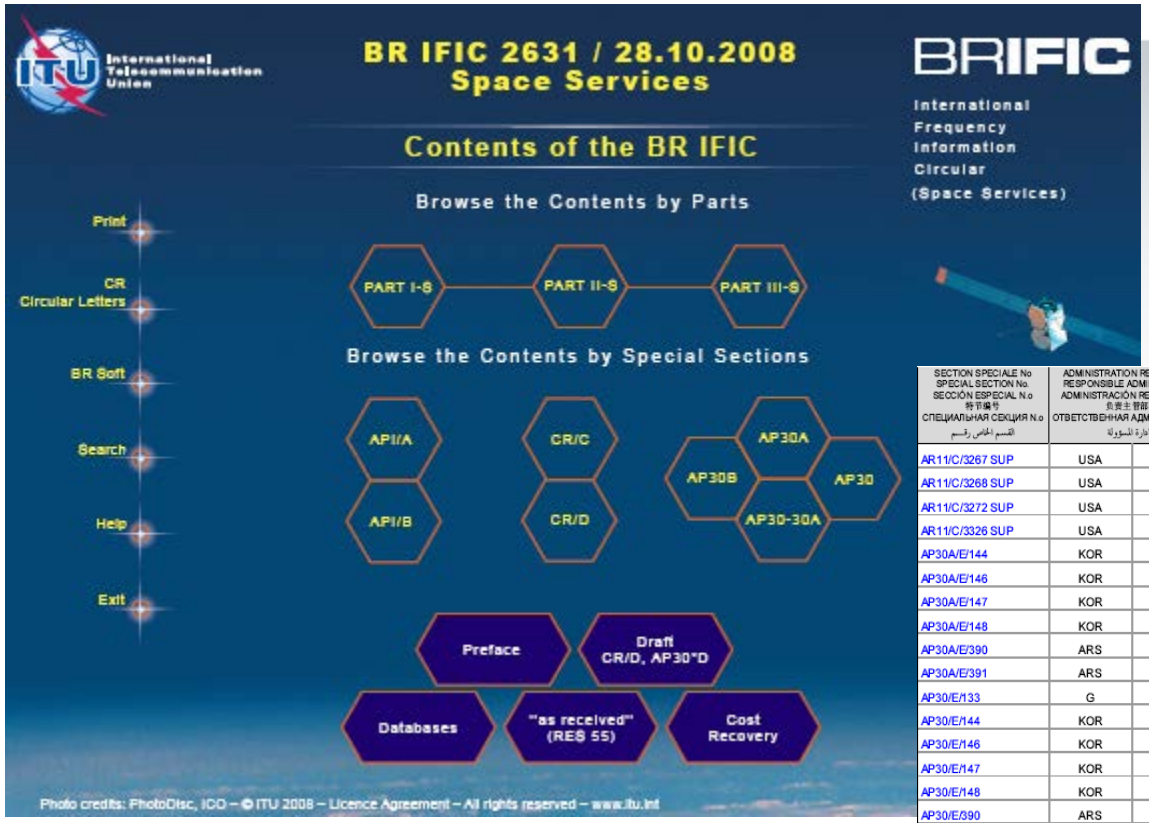
b. Open each AP30/E, AP30A/E, AP30-30A/E, AP30-30A/F/C or AP30B/A6A Special Section (PDF format)

c. Use the Adobe Acrobat "Find" tool to search for the 3 digit 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)



a.

b.

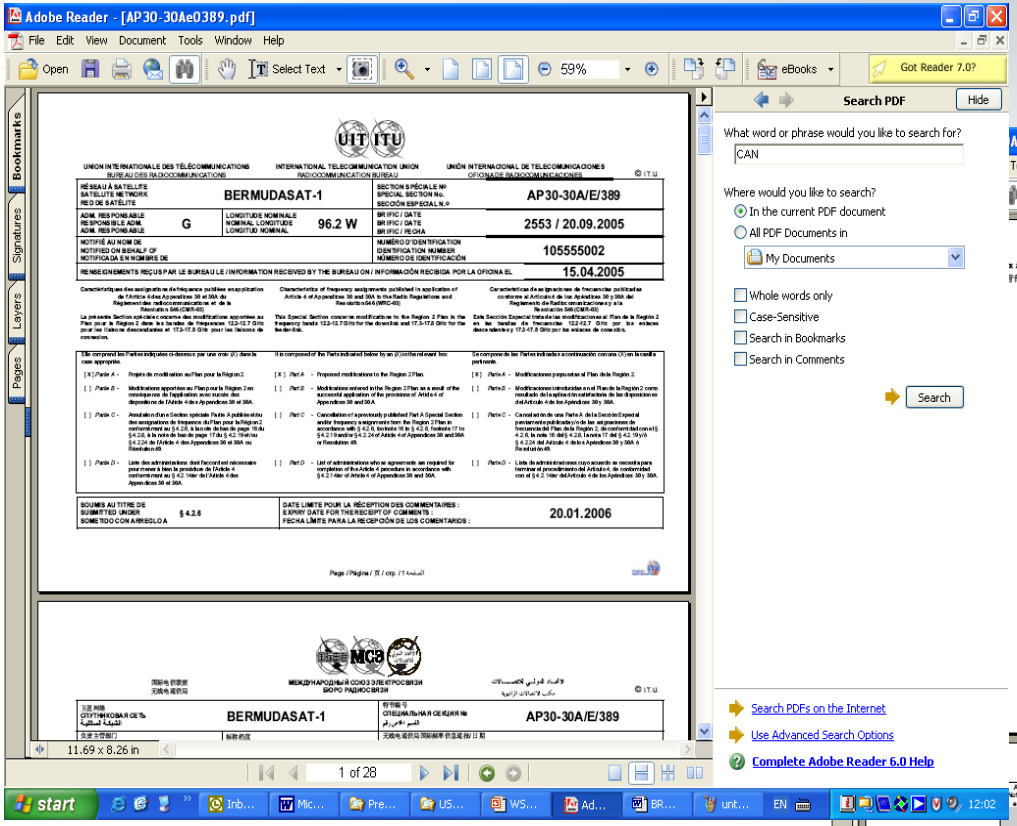
SECTION SPECIALE No SPECIAL SECTION No. SECCIÓN ESPECIAL N.o 特节编号 СПЕЦИАЛЬНАЯ СЕКЦИЯ N.o القسم الخاص رقم	ADMINISTRATION RESPONSIBLE RESPONSIBLE ADMINISTRATION ADMINISTRACIÓN RESPONSABLE 负责主管部门 ОТВЕТСТВЕННАЯ АДМИНИСТРАЦИЯ الإدارة المسؤولة		NOM DE LA STATION SPATIALE NAME OF THE SPACE STATION NOMBRE DE LA ESTACIÓN ESPACIAL 空间台站名称 НАЗВАНИЕ КОСМИЧЕСКОЙ СТАНЦИИ اسم المحطة الفضائية	POS. ORB. ORB. POS. POS. ORB. 轨道位置 ОРБ. ПОЗ. الموقع المداري	NOM DE LA STATION TERRIENNE ASSOCIÉE NAME OF THE ASSOCIATED EARTH STATION NOMBRE DE LA ESTACIÓN TERRENA ASOCIADA 关联地球站名称 НАЗВАНИЕ ВЗАИМОДЕЙСТВУЮЩЕЙ ЗЕМНОЙ СТАНЦИИ اسم المحطة الأرضية المصاحبة	NUMERO D'IDENTIFICATION IDENTIFICATION NUMBER NÚMERO DE IDENTIFICACIÓN 标识号 ИДЕНТИФИКАЦИОННЫЙ НОМЕР رقم تعرف الهوية
AR11/C/3267 SUP	USA		USASAT-28D	110 W		104520574 / 97520297
AR11/C/3268 SUP	USA		USASAT-28E	80 W		104520575 / 97520298
AR11/C/3272 SUP	USA		USASAT-24R	81 W		104520571 / 97520255
AR11/C/3326 SUP	USA		USASAT-35S	81 W		104520576 / 98520203
AP30A/E/144	KOR		KSAT-1	104 E		96554024
AP30A/E/146	KOR		KSAT-3	128 E		96554026
AP30A/E/147	KOR		KSAT-4	134 E		96554027
AP30A/E/148	KOR		KSAT-5	140 E		96554028
AP30A/E/390	ARS	ARB	ARABSAT BSS 6E	34.5 E		105554006
AP30A/E/391	ARS	ARB	ARABSAT BSS 6F	44.5 E		105554007
AP30/E/133	G		INTELSAT KUEXT 33E	33 E		96552013
AP30/E/144	KOR		KSAT-1	104 E		96552024
AP30/E/146	KOR		KSAT-3	128 E		96552026
AP30/E/147	KOR		KSAT-4	134 E		96552027
AP30/E/148	KOR		KSAT-5	140 E		96552028
AP30/E/390	ARS	ARB	ARABSAT BSS 6E	34.5 E		105552006
AP30/E/391	ARS	ARB	ARABSAT BSS 6F	44.5 E		105552007
AP30-30A/E/143	G		INTELSAT KUEXT 310E	50 W		96555012
AP30-30A/E/353	G		IOMBSS-2	123.5 W		104555001
AP30-30A/E/389	G		BERMUDASAT-1	96.2 W		105555002
AP30-30A/F/C/17	CAN		CAN-BSS1 TTAC	82 W		105556002
AP30-30A/F/C/18	CAN		CAN-BSS2 TTAC	91.1 W		105556003
AP30-30A/F/C/19	HOL		SF_BSS5	114.5 W		105556001

BRIFIC 2553

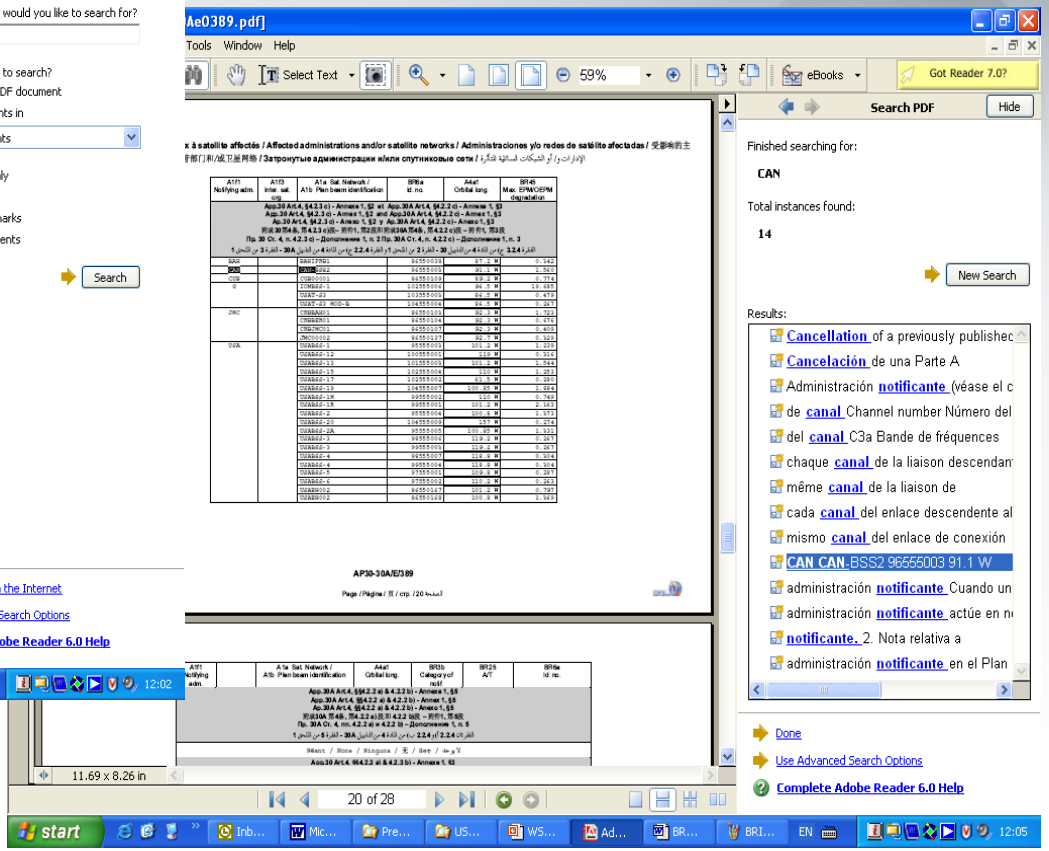
Page / Página / 页 / стр. / 16 الصفحة

Identifying administrations affected by a proposed satellite network

2. Searching the BR IFIC (3/3)



c.



d.

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1. SpaceCom – Plan (with exercises)
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

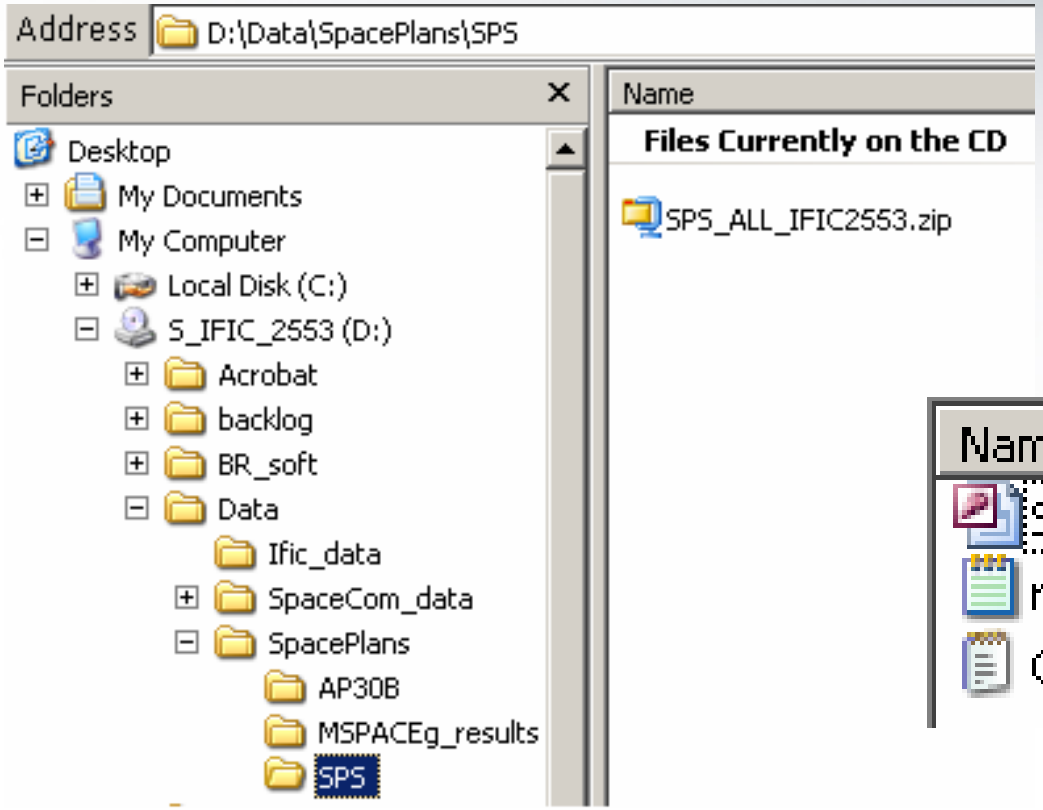
c. Open the SPS/30B database with SpaceQry

d. Search networks published in the BR IFIC

e. Select a network

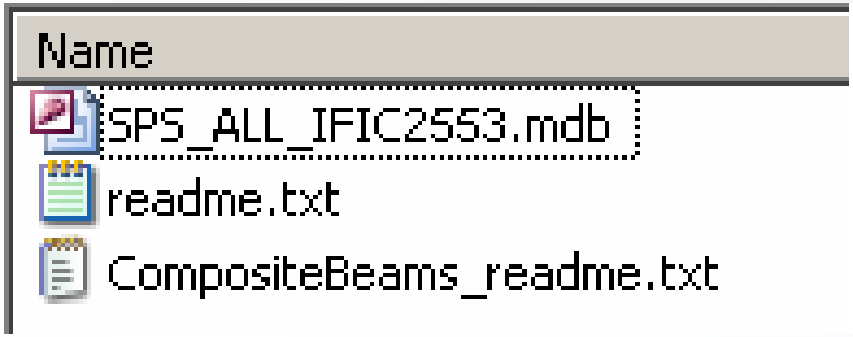
f. Click "show coordination info"

3. Using SpaceQry(2/4)



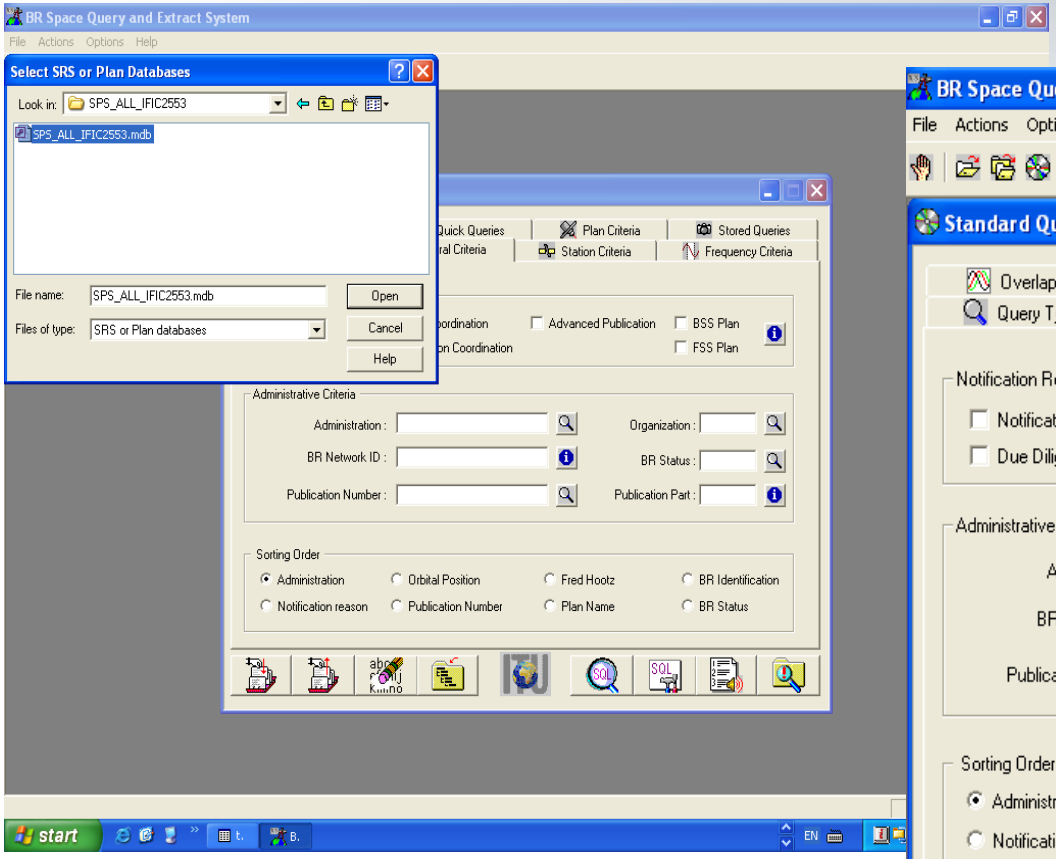
a.

b.



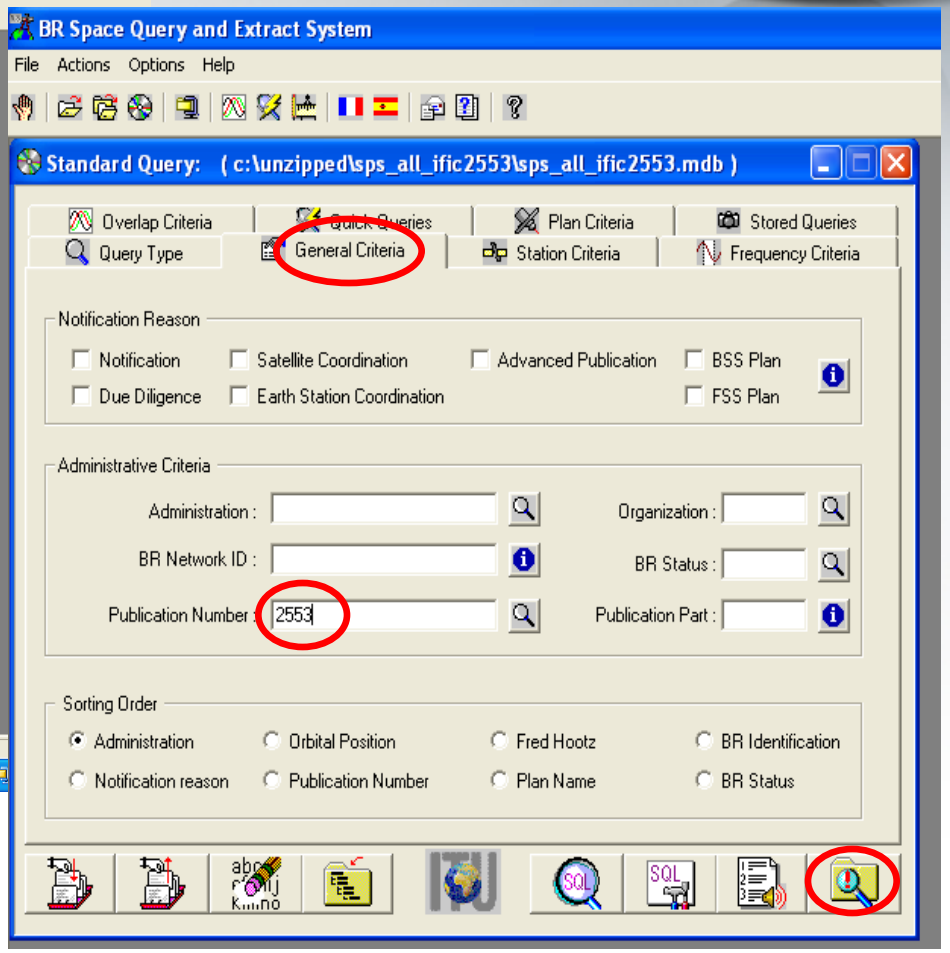
Identifying administrations affected by a proposed satellite network

3. Using SpaceQry(3/4)



c.

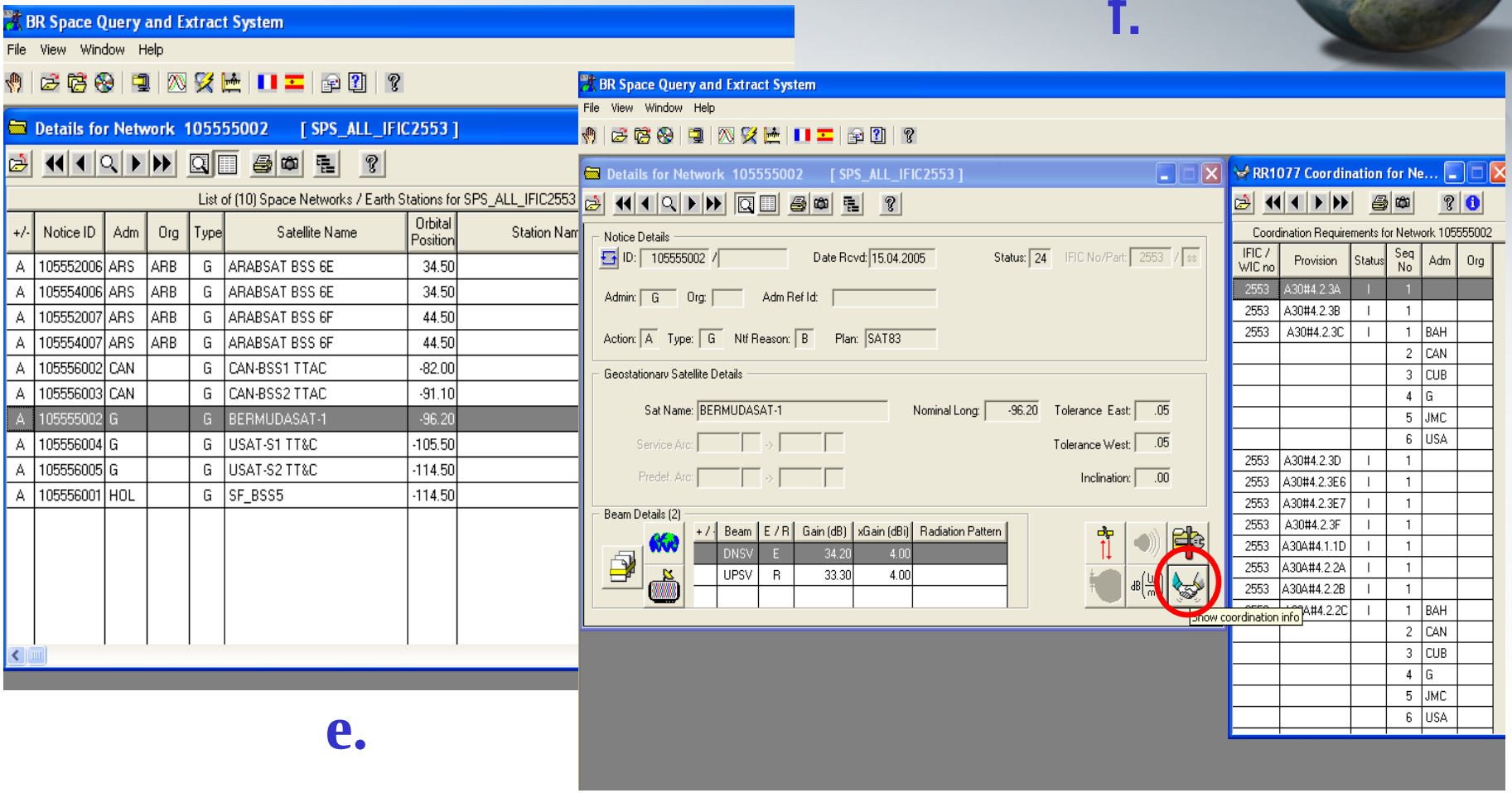
d.



Identifying administrations affected by a proposed satellite network

3. Using SpaceQry(4/4)

f.



e.

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

1. SpaceCom – Plan (with exercises)
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

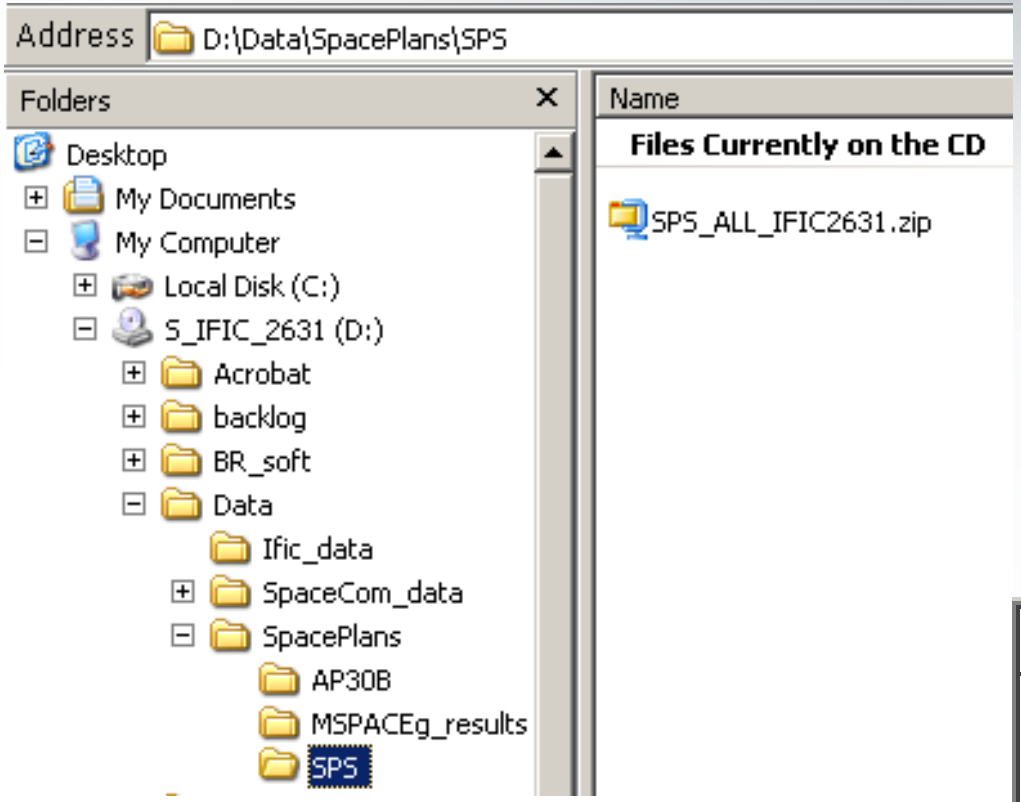
c. Open the SPS/30B database using Microsoft ACCESS. Open the "tr_provn" table

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

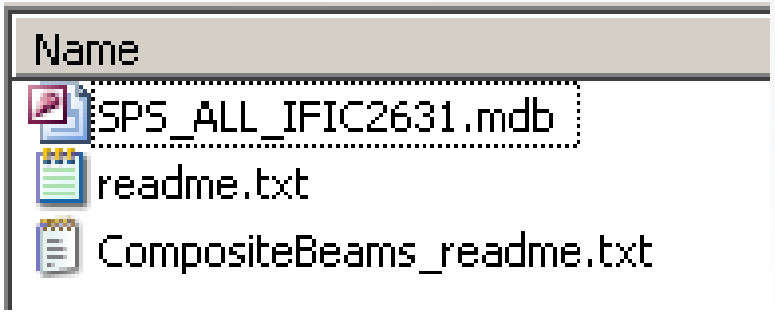
f. Repeat steps c) to e) with the "tr_aff_ntw" table

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

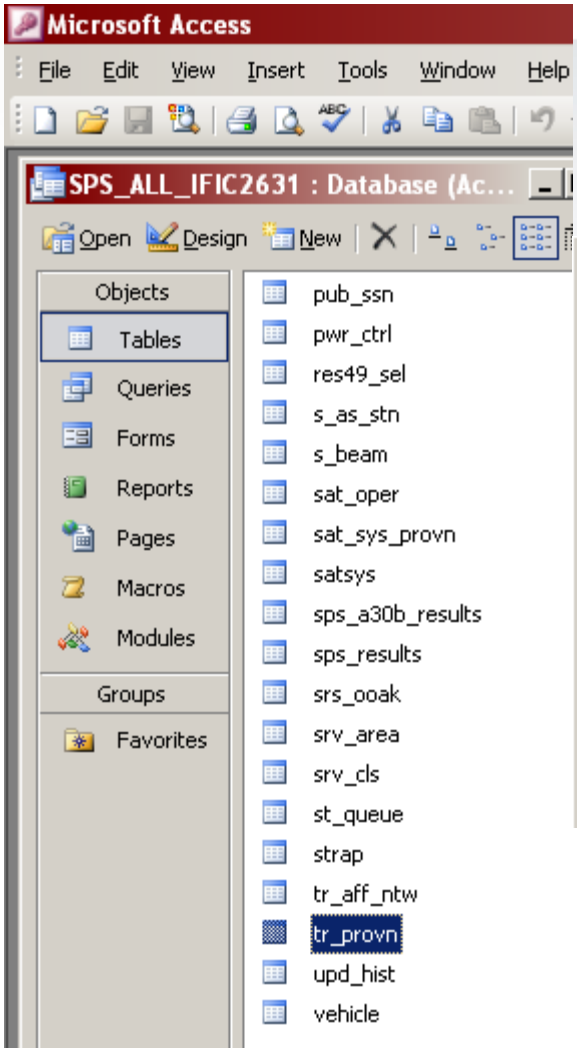


a.

b.

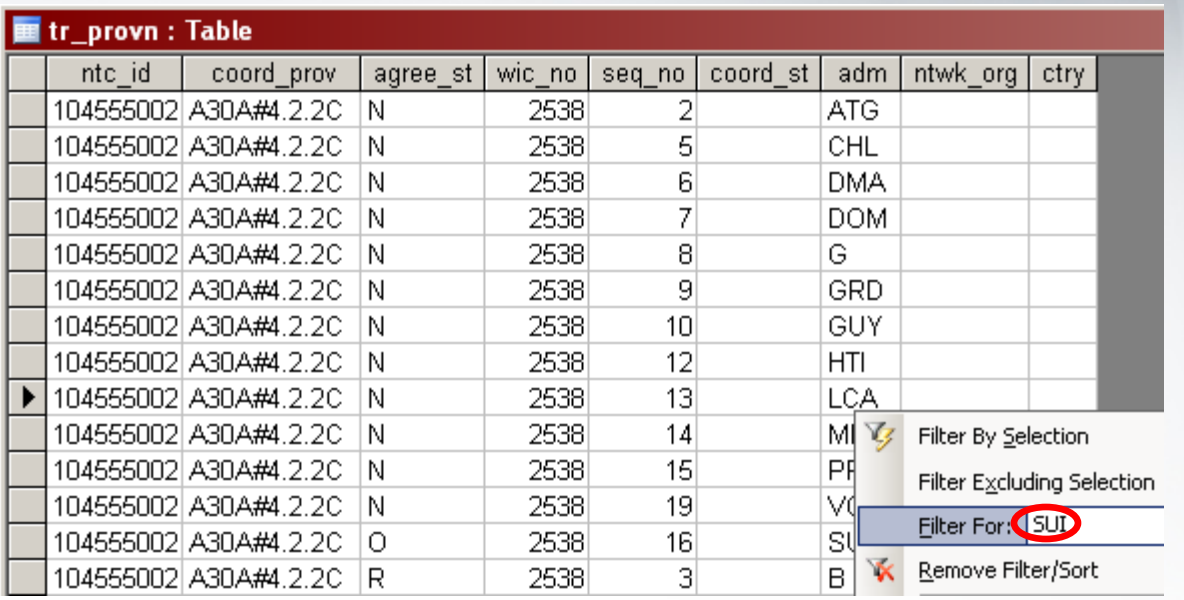


4. Examining the SPS or 30B databases(3/4)



c.

d.



ntc_id	coord_prov	agree_st	wic_no	seq_no	coord_st	adm	ntwk_org	ctry
104555002	A30A#4.2.2C	N	2538	2		ATG		
104555002	A30A#4.2.2C	N	2538	5		CHL		
104555002	A30A#4.2.2C	N	2538	6		DMA		
104555002	A30A#4.2.2C	N	2538	7		DOM		
104555002	A30A#4.2.2C	N	2538	8		G		
104555002	A30A#4.2.2C	N	2538	9		GRD		
104555002	A30A#4.2.2C	N	2538	10		GUY		
104555002	A30A#4.2.2C	N	2538	12		HTI		
104555002	A30A#4.2.2C	N	2538	13		LCA		
104555002	A30A#4.2.2C	N	2538	14		MI		
104555002	A30A#4.2.2C	N	2538	15		PF		
104555002	A30A#4.2.2C	N	2538	19		VC		
104555002	A30A#4.2.2C	O	2538	16		SU		
104555002	A30A#4.2.2C	R	2538	3		B		

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

tr_provn : Table

ntc_id	coord_prov	agree_st	wic_no	seq_no	coord_st	adm	ntwk_org	ctry
100552007	A30#4.1.1A	I	2495	17		SUI		
100552008	A30#4.1.1A	I	2495	20		SUI		
100554008	A30A#4.1.1A7	I	2495	7		SUI		
101552003	A30#4.1.1D	N	2508	21		SUI		
101552004	A30#4.1.1D	N	2508	27		SUI		
101552005	A30#4.1.1D	N	2508	33		SUI		
101552006	A30#4.1.1D	N	2508	34		SUI		
101552007	A30#4.1.1D	N	2508	39		SUI		
107552001	A30#4.1.1A	R	2598	15		SUI		
107552009	A30#4.1.1A	N	2605	13		SUI		
107552020	A30#4.1.1D	I	2616	37		SUI		

e.

f.

tr_aff_ntw : Table

ntc_id	coord_prov	agree_st	aff_ntc_id	adm	ntwk_org	ctry	
105552016	A30#4.1.1E	I	101520051	HOL			NSS-32
105552016	A30#4.1.1E	I	102520047	G			IOMSA
105552016	A30#4.1.1E	I	103520070	MLA			MEASA
105552016	A30#4.1.1E	I	103520162	AUS			PAS-E
105552016	A30#4.1.1E	I	103520238	F			F-SAT-
105552016	A30#4.1.1E	I	103520239	F			F-SAT-
105552016	A30#4.1.1E	I	103520556	LUX			
105552016	A30#4.1.1E	I	103520557	LUX			
105552016	A30#4.1.1E	I	103520558	LUX			
105552016	A30#4.1.1E	I	104520224	BLR			

Filter By Selection
Filter Excluding Selection
Filter For: SUI

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

1. SpaceCom – Plan (with exercises)
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

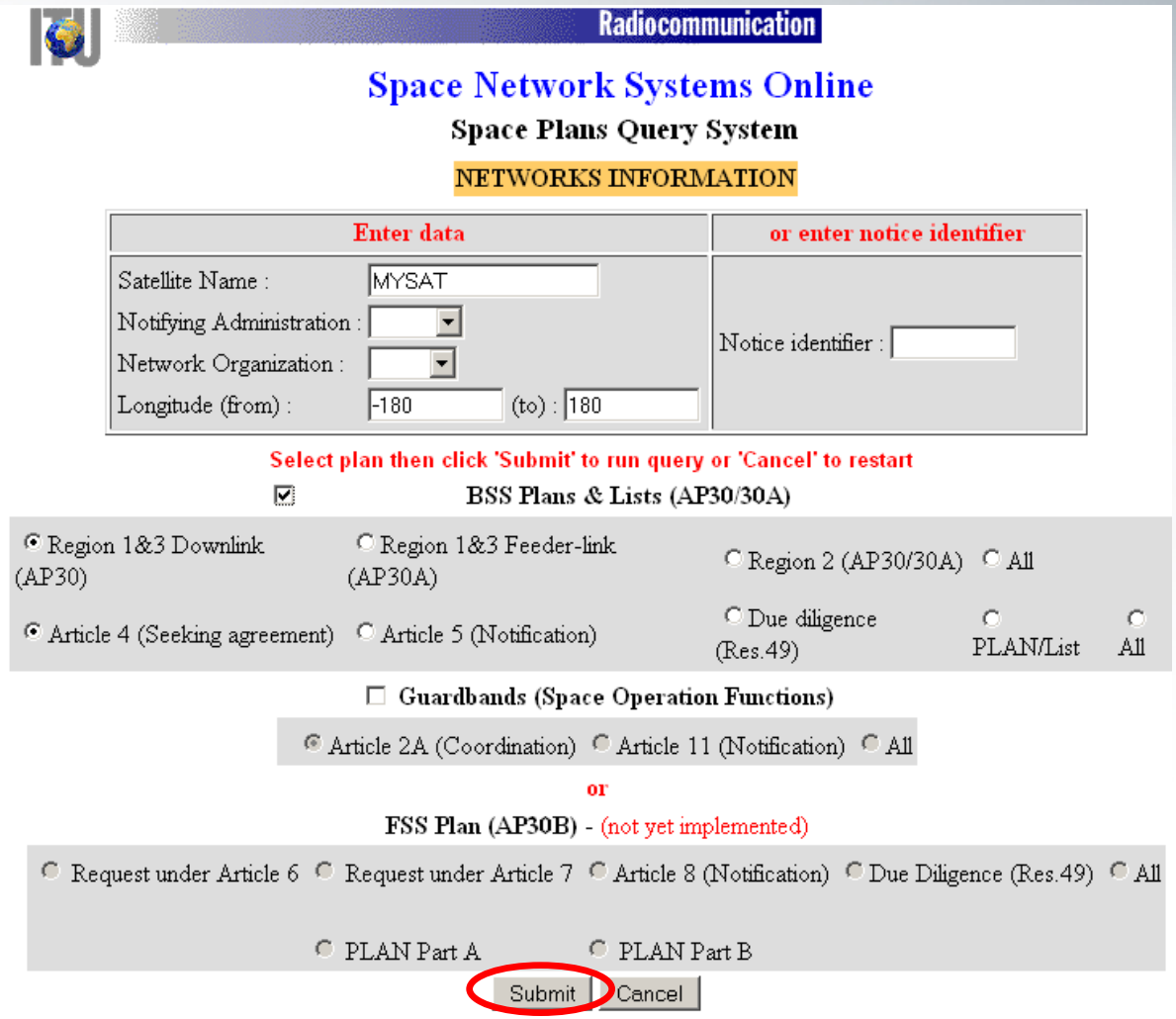
b. **Input data and Submit**

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.



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
SIRIUS-4.8E-BSS	B	27.02.2004	104552001	00DN	S		4.8	See TSUM	24	2543
SIRIUS-4.8E-BSS-2	B	29.12.2005	105552016	00DN	S		4.8	See TSUM	24	2574

d.

COORDINATION					
Provision	Status	BR IFIC	Coord. Status	Admin.	Ntwk Org. Country
A30#4.1.1A	N	2543		AFS	
A30#4.1.1A	N	2543		BOT	
A30#4.1.1A	N	2543		CVA	
A30#4.1.1A	N	2543		GRC	
A30#4.1.1A	N	2543		KWT	
A30#4.1.1A	N	2543		LBN	
A30#4.1.1A	N	2543		LSO	

Web links for further information

SpaceQry software:

http://www.itu.int/ITU-R/software/space/spaceqry/index.html

BR IFIC:

http://www.itu.int/ITU-R/space/brific/index.html

SPS/30B databases:

http://www.itu.int/ITU-R/space/plans/AP30-30A/index.html
http://www.itu.int/ITU-R/space/plans/MIFR/index.html
http://www.itu.int/ITU-R/space/plans/AP30B/index.html

Your questions are welcome

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Thanks!