



Coordination Request

Capture exercise, Validation, and Correction

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UIT - UAT SÉMINAIRE RÉGIONAL
DES RADIOCOMMUNICATIONS
POUR L'AFRIQUE

NIAMEY, NIGER
20-24 AVRIL 2015

www.itu.int/go/ITU-R/seminars

Organisé par:

15 1865-2015

ARTP

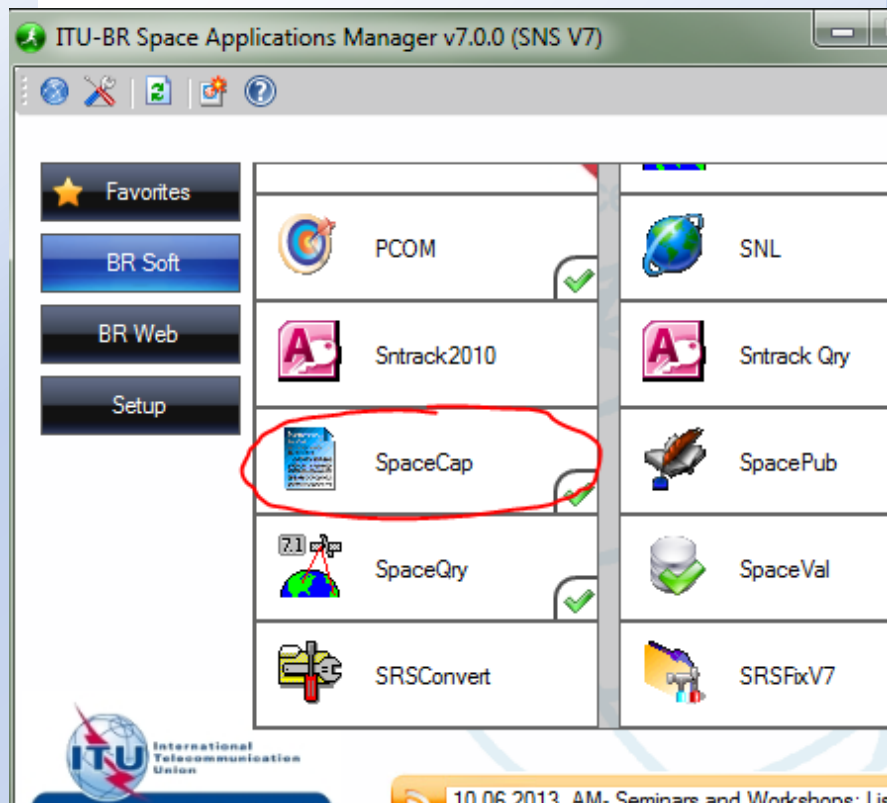
ITU - UAT

ITU

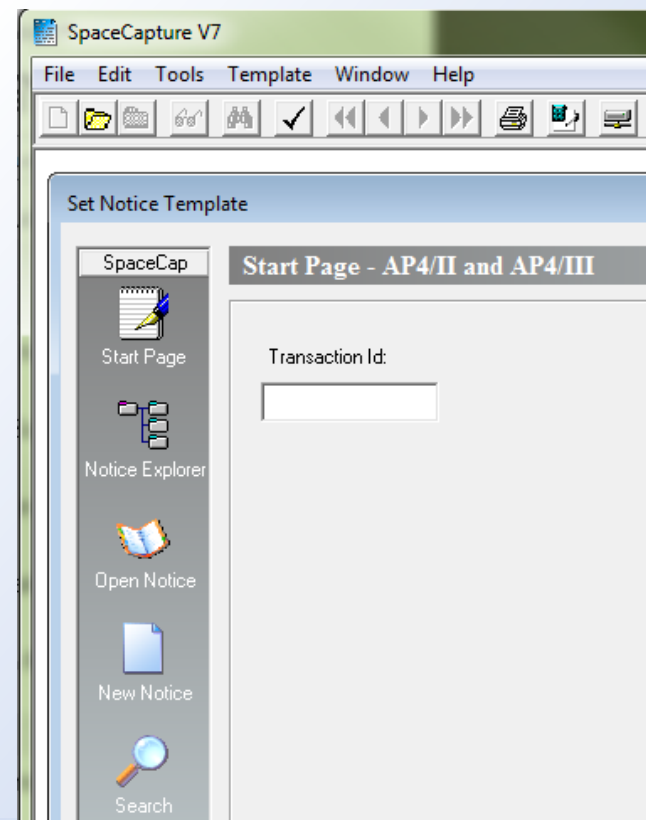
The poster features a night-time photograph of a cityscape with lights and a large, stylized ITU logo in the foreground. The text is in white and red on a dark background.

SpaceCap: First steps

- Launch SAM

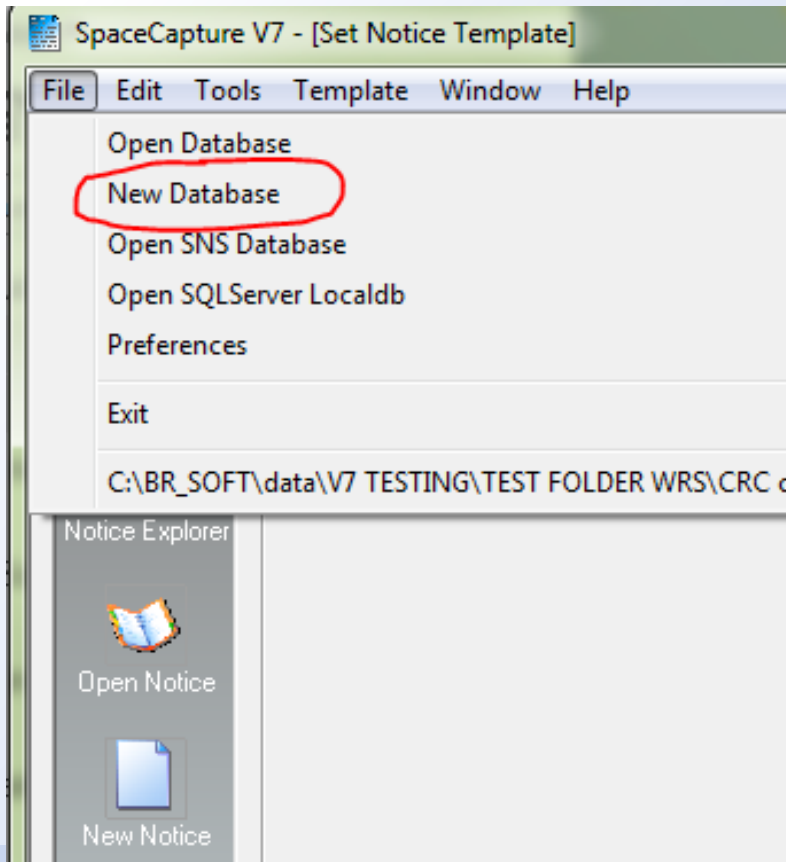


- Launch SpaceCap

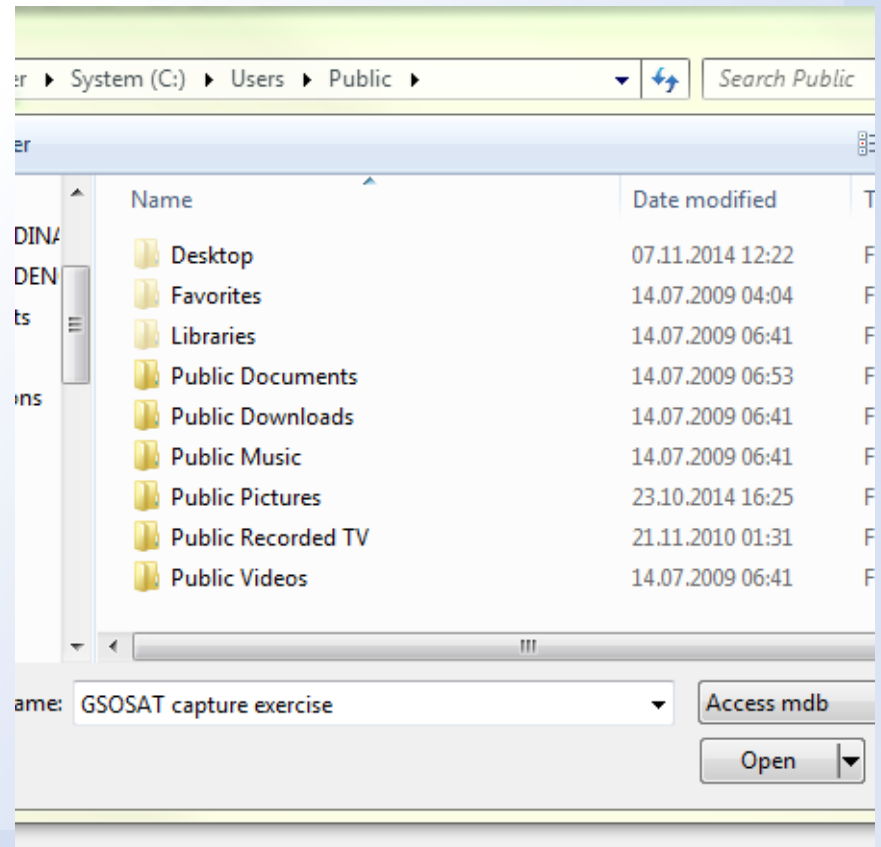


SpaceCap: new database

- Create new database

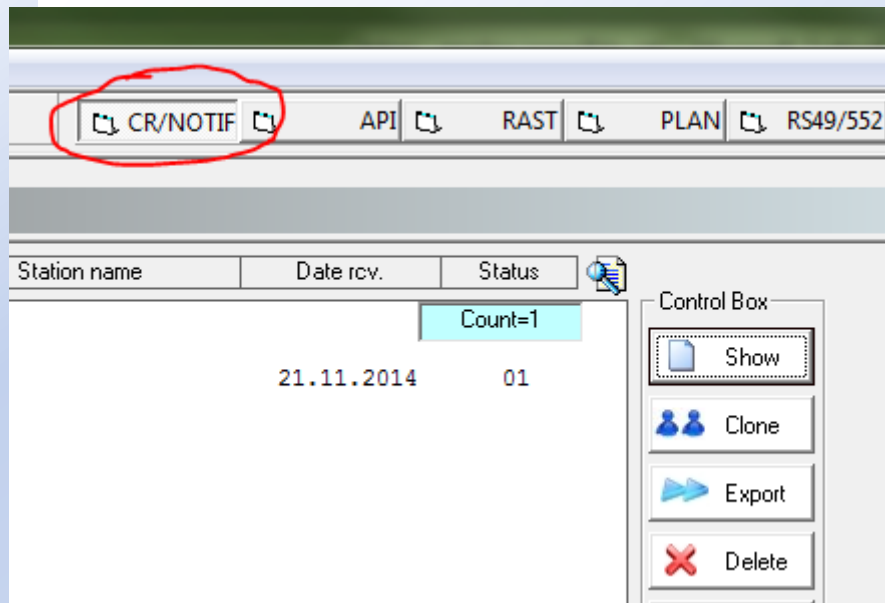


- Call it “GSOSAT”

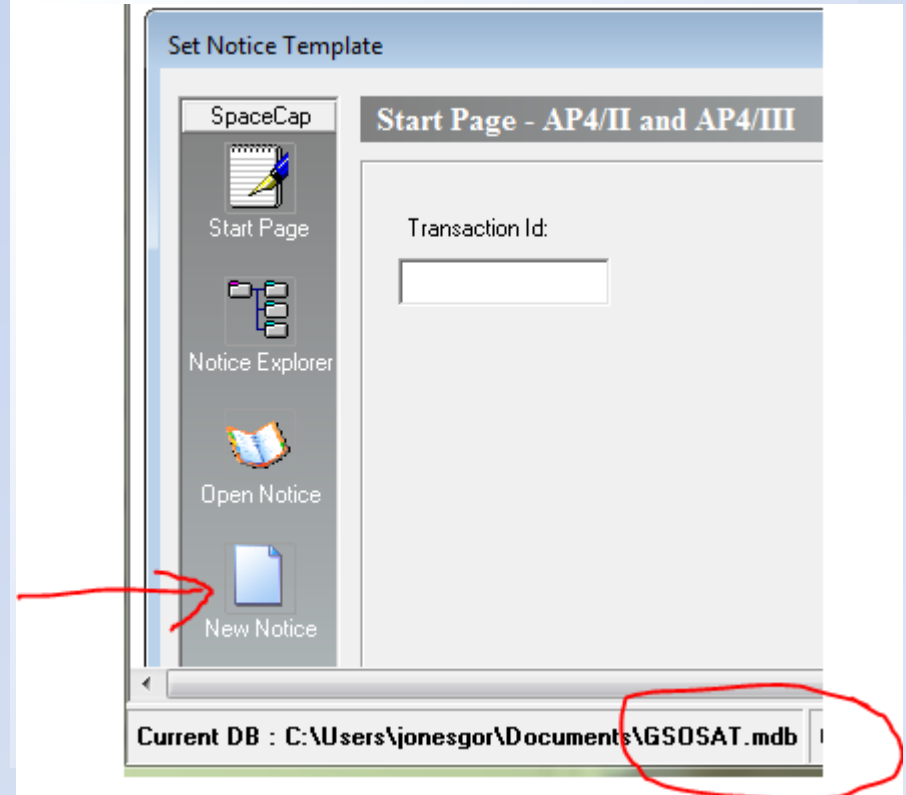


New coordination notice

- Select type of notice



- Verify current database and click “New Notice”





Basic network information

- “Notice-level” data

Notice Id: 114520500 AP4/II and AP4/III (Appendix 4 -

Notice submitted under:

No. 9.6 Coordination **No. 11.2 Noti**

No. 9.11A Applies Bands 21.4 to 22 GHz

No. 9.7A Specific Receive GSO FSS Earth strn

No. 9.17 Earth Station Coordination amongst

Date: DD.MM.YY 19.11.2014 Administration Serial Nbr

A1f1. Notifying Administration A1f2. Notice submitted on behalf of these administrations.

A1f3. Intergovernmental Satellite System

Type of Satellite Network or Earth Station

GeoStationary Satellite Network

NonGeoStationary Satellite Network

- “Station-level” data

1. Identity of the Satellite Network

4a. For GeoStationary Satellites Only

1. Nominal Orbital Longitude Degrees E/W

2. Longitudinal tolerance (degrees)

a. To West b. To East

2c. Inclination Excursion °

A16a. Commitment to meet off-axis power limitations (applicable bands 12.75-13.25 GHz, 13.75-14.5 GHz and 29.5-30 GHz)

A17a. Commitment to meet power-flux density limits (applicable bands 1164-1215 MHz)

A18a. Commitment of aircraft earth station (applicable bands 14-14.5 GHz)

A17b,c,d,e Power Flux Density



Uplink characteristics

- Click on the “Beam” tab

Characteristics of the Beam

B2.		B1a. Beam Designation: <input type="text" value="UP1R"/>	B1b. <input checked="" type="checkbox"/> Steerable Beam	<input type="radio"/> Add of th
<input checked="" type="radio"/> Receiving Beam <input type="radio"/> Transmitting Beam		Old Beam Designation (if changed) <input type="text"/>		<input type="radio"/> Mod Be: <input type="radio"/> Sup

Antenna Characteristics

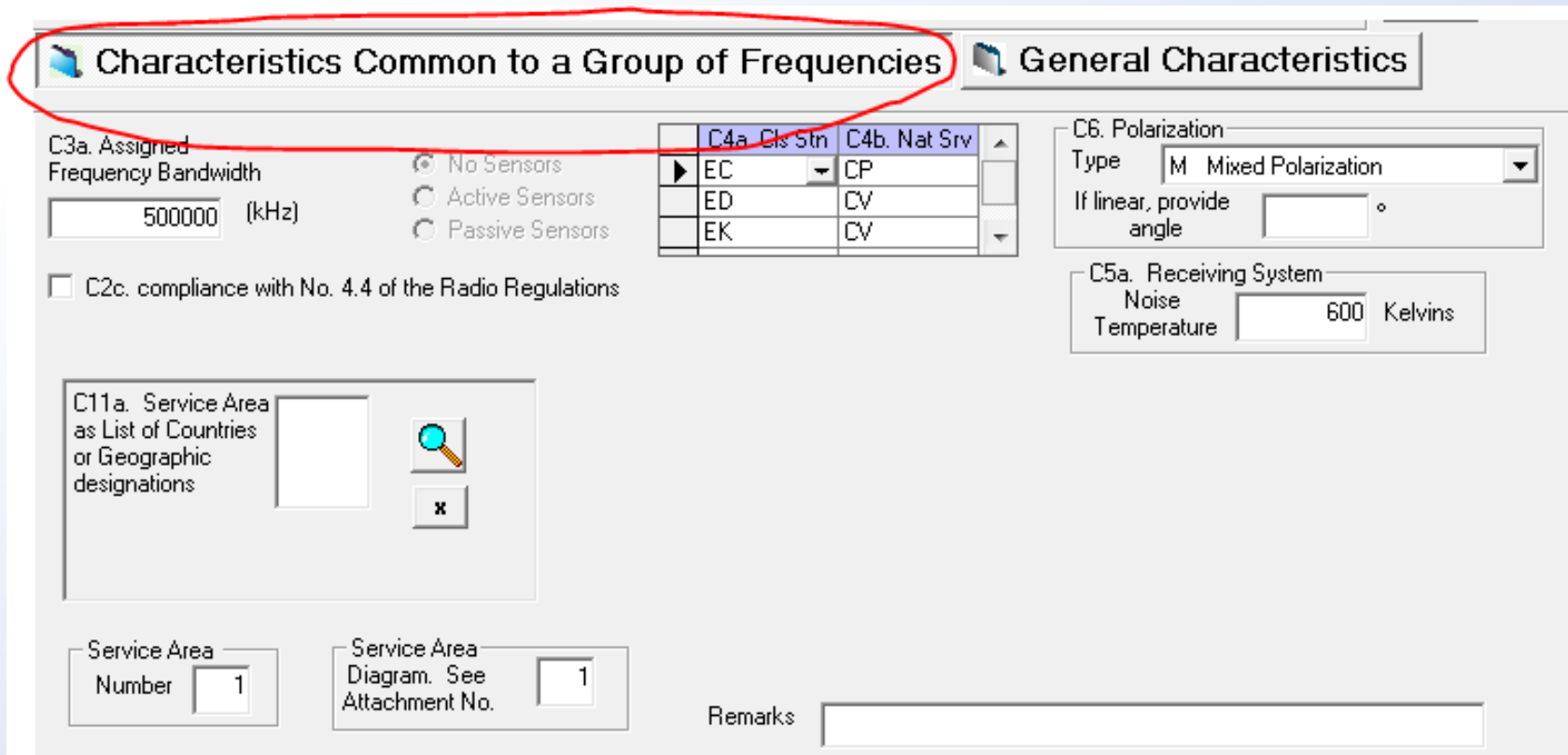
B3a1. Maximum Isotropic Gain +/- dBi	B3d. Pointing Accuracy Degrees +/-	B3b1. Antenna Gain Contours Diagram. See Attachment No.	<input type="text" value="1"/>
<input type="text" value="45"/>	<input type="text" value="0.05"/>	B3e. Antenna Gain vs Orbit Longitude Diagram. See Attachment No.	<input type="text" value="1"/>

Antenna Radiation Pattern

Diagram attached. See Attachment no.:

“Group-level” data

- Click “Group” tab: “Common characteristics”



Characteristics Common to a Group of Frequencies | General Characteristics

C3a. Assigned Frequency Bandwidth: (kHz)

No Sensors
 Active Sensors
 Passive Sensors

C4a. Cls Str	C4b. Nat Srv
EC	CP
ED	CV
EK	CV

C2c. compliance with No. 4.4 of the Radio Regulations

C6. Polarization
Type:

If linear, provide angle:

C5a. Receiving System
Noise Temperature: Kelvins

C11a. Service Area as List of Countries or Geographic designations:

Service Area Number: | Service Area Diagram. See Attachment No.:

Remarks:

“Group-level” data

- “General characteristics”

Add Mod Sup of the group BR Identification of the Group to be modified/suppressed Page No. BR Data

Characteristics Common to a Group of Frequencies General Characteristics

A2b. Period of Validity Years

A3a. Operating Administration or Agency

A3b. Responsible Administration

To apply this information to other groups, select the beam or notice option.

Apply to current group only Apply to all groups in this beam Apply to all groups in this notice



Other “Group-level” data

- Emissions data

Emissions of the Associated Transmitting Stations									
	C7a. Designation of Emission	C8a1/C8b1. Maximum Peak Power (dBW)	C8a2/C8b2. Maximum Power Density	Emission of Type C8b	C8c1. Minimum Peak Power (dBW)	C8c2. Attach No. Pep	C8c3. Minimum Power Density	C8c4. Attach No. Mpd	C8e1. C/N objective (total - clear sky) (dB)
▶	150MG7W--	40.0	-40.0	<input type="checkbox"/>	6.8		-75.0		18.0

- Frequency assignments

	C2a1. Assigned Frequencies	k/M/GHz
▶	27.75000	G
	29.50000	G

- Special Section

Special Section API/A (9.1)	9898
Special Section CR/C (9.6)	
Special Section AP30-30A/F/C	



Associated Earth Station

C10b2. Type of Station
 Typical Specific

C10b1. Associated Earth Station Name
TYPICAL1.8M

Old Station Name (if changed)

of the station
 Add
 Mod
 Sup


	C10d1. Cls Stn	C10d2. Nat Srv
▶	TC	CP
	TD	CV
	TK	CV

C10d. Antenna Characteristics

3. Maximum Isotropic Gain +/- dBi

4. Beamwidth Degrees

7. Diameter Meters

Antenna Radiation Pattern
C10d5a1. Co-polar Radiation Pattern Id: 

[REC-1213 ==> APERR_007V01](#)

C10d5a2. Diagram attached. See Attachment no.:

or diagram no in Gims database

9. Dgso Meters

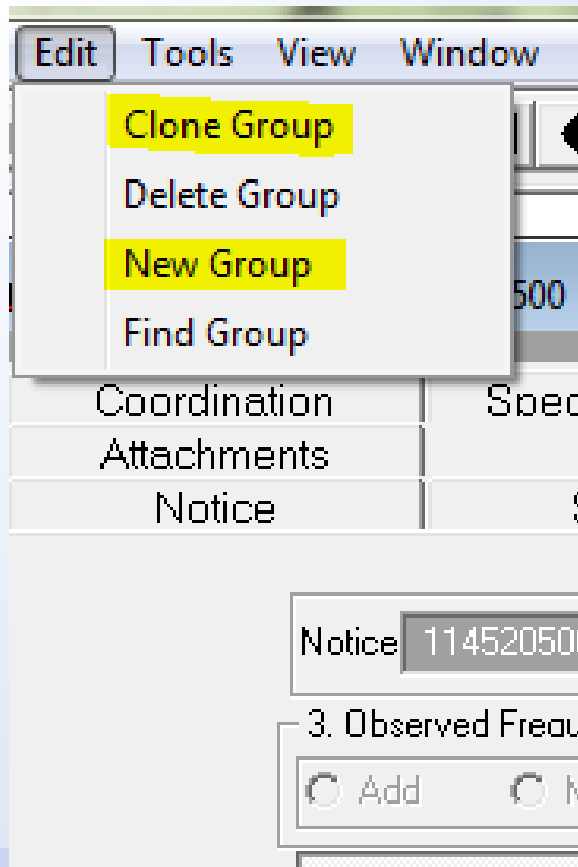
C8g1. Max Aggregate Power dBW

C8g2. Aggregate Bandwidth kHz

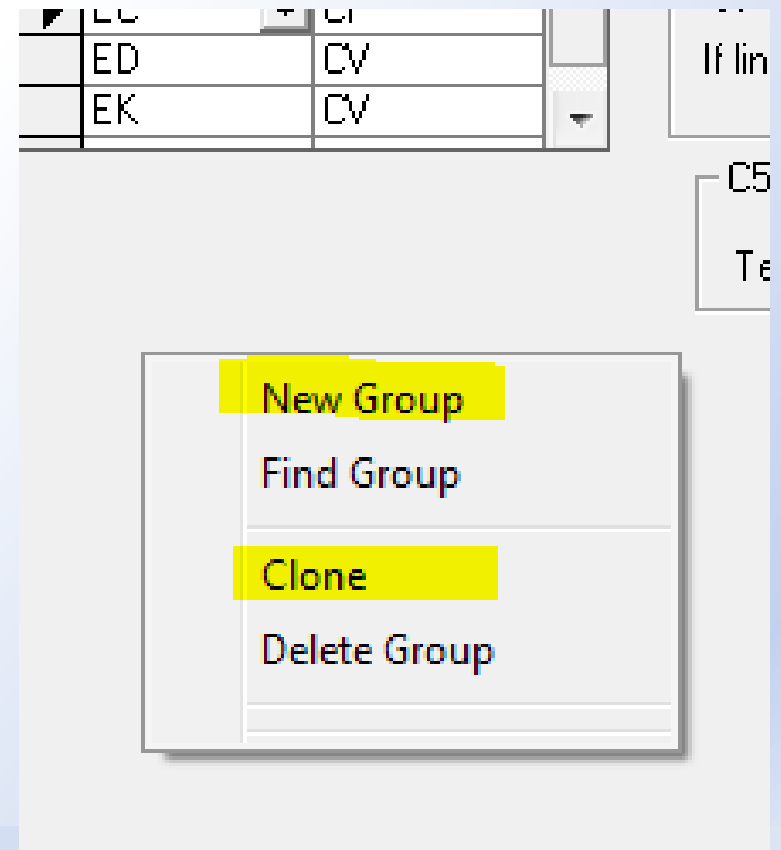
C8g3. Bandwidth Corresponds to Aggr Bandwidth

New or Clone group

- Using “Edit” menu



- Or, right-click





Using a clone of the first group

- Change the frequency assignments (under “Frequencies” tab)

signed Frequencies	k/M/GHz
27.25000	G

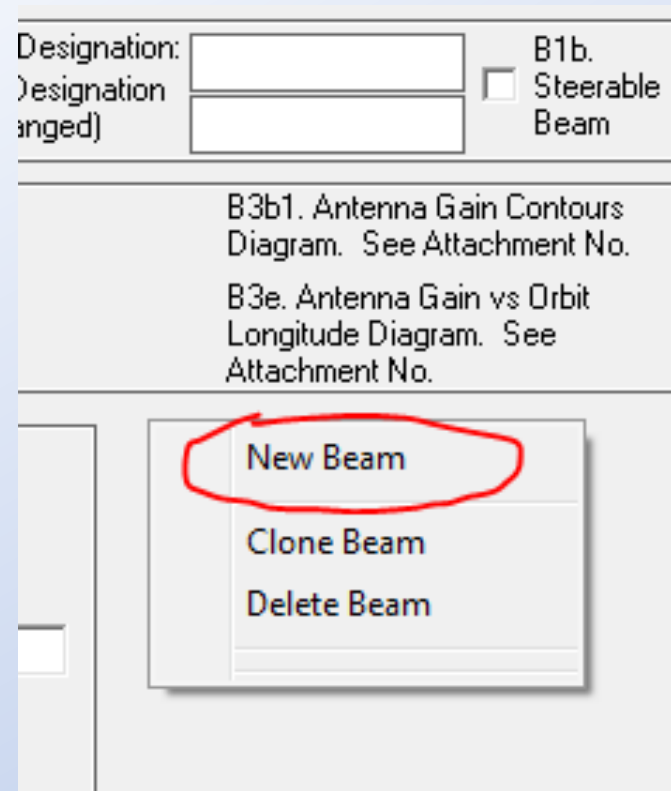
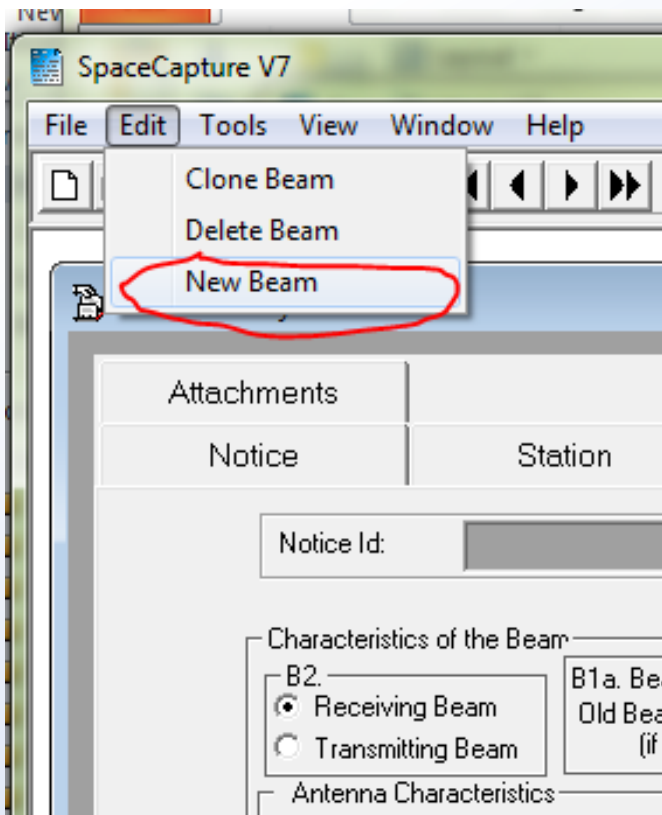
- Change Service Area Number 1 → 2 (under “Group” tab)

C11a. Service Area as List of Countries or Geographic designations

Service Area Number

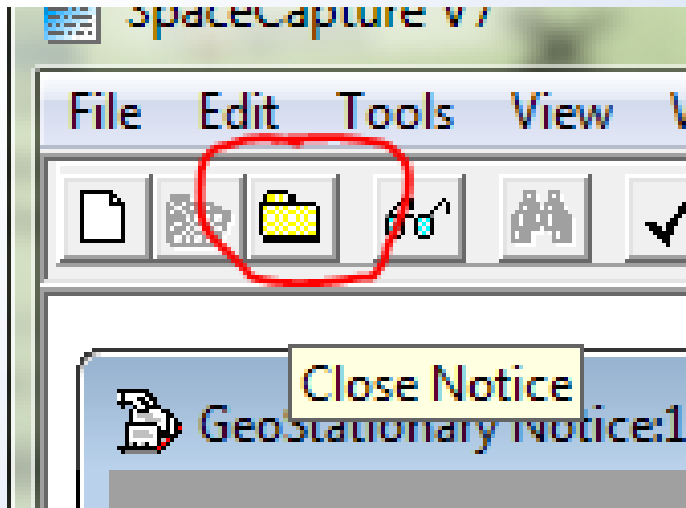
Return to “Beam” tab

- Create a new beam (“Edit” menu or right-click)

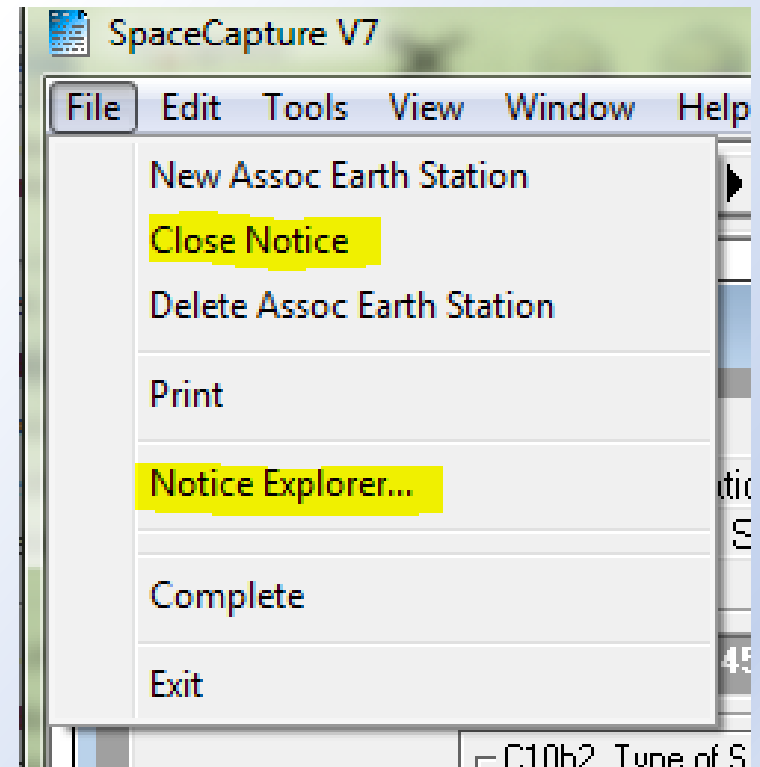


Closing and Opening a Notice

- Icon buttons



- File menu



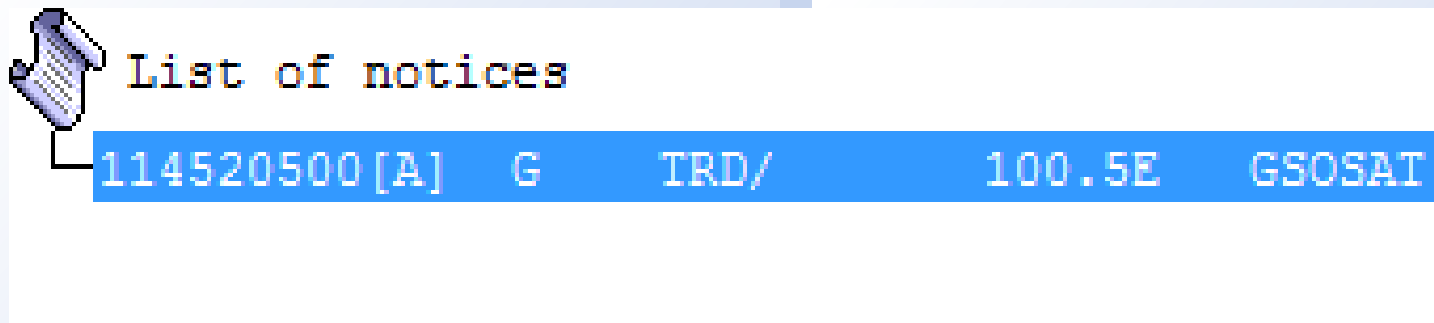


Using SpaceVal

RUNNING SPACEVAL ON GSOSAT

On the “Notice Explorer” screen

- Select the notice by clicking on it



- Click the SpaceVal button





• SpaceVal dialog box

Two main areas

Show all messages



Cross-Validate
GIMS diagrams



Click SpaceVal



The screenshot shows the 'SpaceVal Dialog' window with the following sections:

- Initiate Validation for:** Dbname: M:\BRSSD\SPR\Coordination\WRS-2014\GSOSAT crc capture exercise\CRC capture; Ntc ID: 114520500; Adm: TRD; Sat Name: GSOSAT; Orb Pos: 100.5; Action: A; Status: 01; D_RCV: 19.11.2014
- Enter parameters for SpaceVal:** Includes a checkbox for 'Run as external user'.
- Error message and level selection:** Radio buttons for 'Show fatal messages only' and 'Show all messages'.
- Validation Options:** Checkboxes for 'Straps not provided - optional under appendix 4 (WRC2007)' and 'Check frequency overlap using assigned frequency bandwidth'.
- Graphical Data Cross Validation:** Includes a 'Cross Validate' checkbox, a 'Browse' button, and a text field for 'GIMS Database (.mdb)' containing 'M:\... \WRS-2014\GSOSAT..\CRC capture BEAMS.mdb'.
- ITU internal Options:** Checkboxes for 'Skip API check', 'Skip FixThings', and 'Partial Merge option'.

At the bottom, there is a green text prompt 'Press control button to start SpaceVal', a 'SpaceVal' button with a green checkmark icon, and a 'Close' button with a red stop icon.



Using SpaceVal

CORRECTING ERRORS: WRONG_SAT



• SpaceVal dialog box

Two main areas

Show all messages



Cross-Validate
GIMS diagrams



Click SpaceVal

