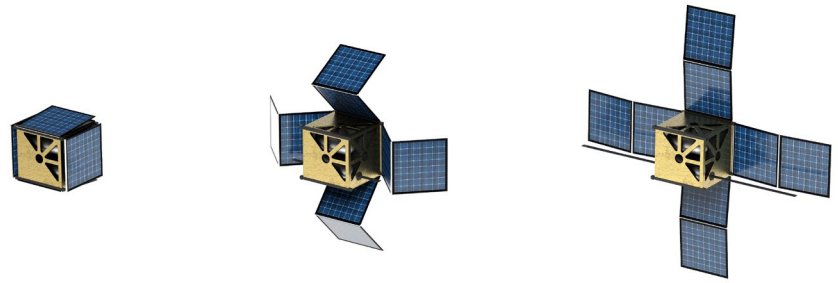


How to merge **API** and **CR** notices into **one Notification**

ITU BR SSD SPR

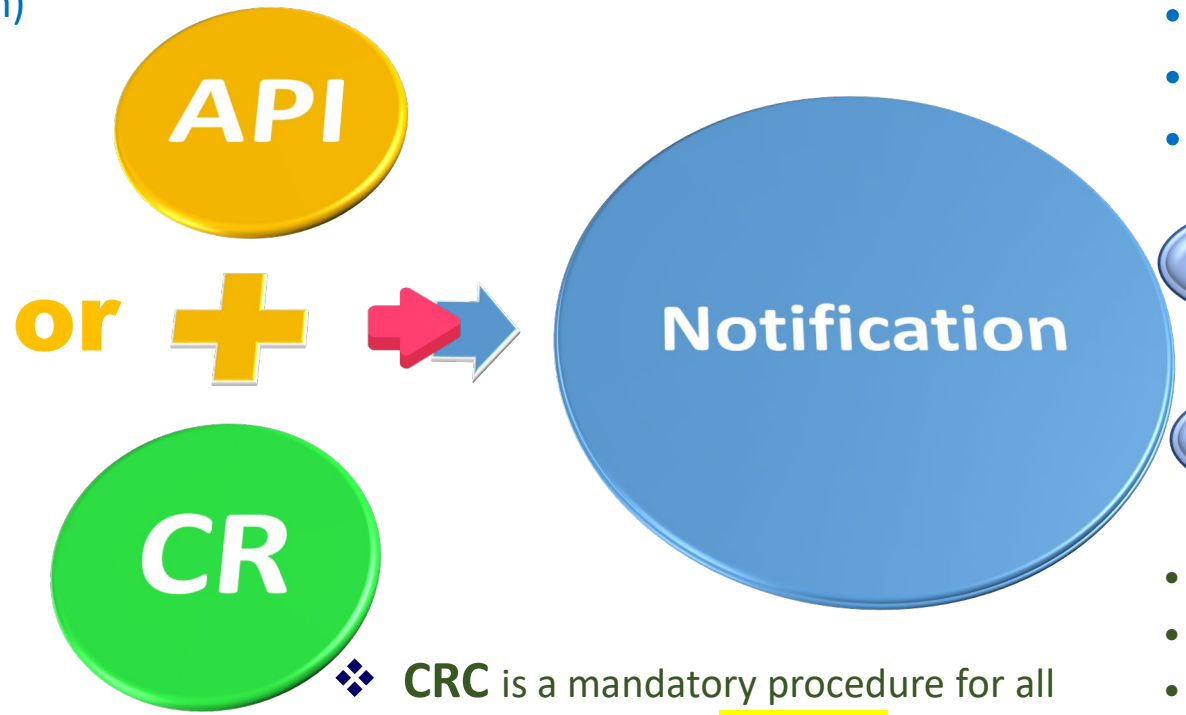
2022.12

ITU Regulatory Procedures

Submit it in the correct format !

Advance Publication Information
(default procedure when no coordination procedure is specified in RR for the allocation)

❖ **API** is a mandatory procedure for all satellite networks not subject to coordination procedure



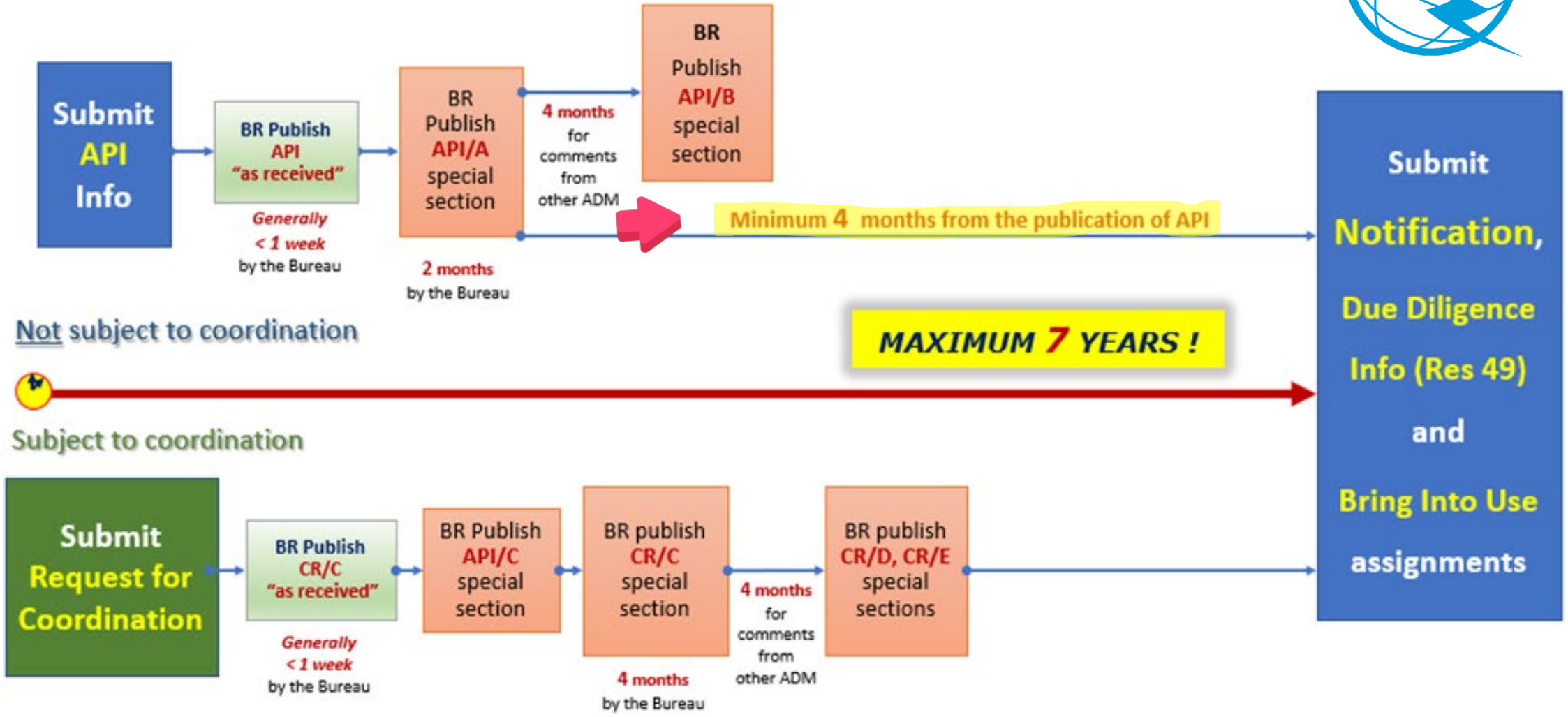
- *API/A*
- *Comments – API/B*
- *Notification*
- *BIU (Bring Into Use)*

Coordination Request
(if specified in RR that the allocation/use is subject to coordination or agreement)

❖ **CRC** is a mandatory procedure for all satellite networks subject to coordination procedure under section II of Article 9

- *CR/C (+API/C)*
- *Comments – (CR/D, CR/E)*
- *Notification*
- *Res 49 (Due Diligence)*
- *BIU (Bring Into Use)*

ITU Regulatory Procedures

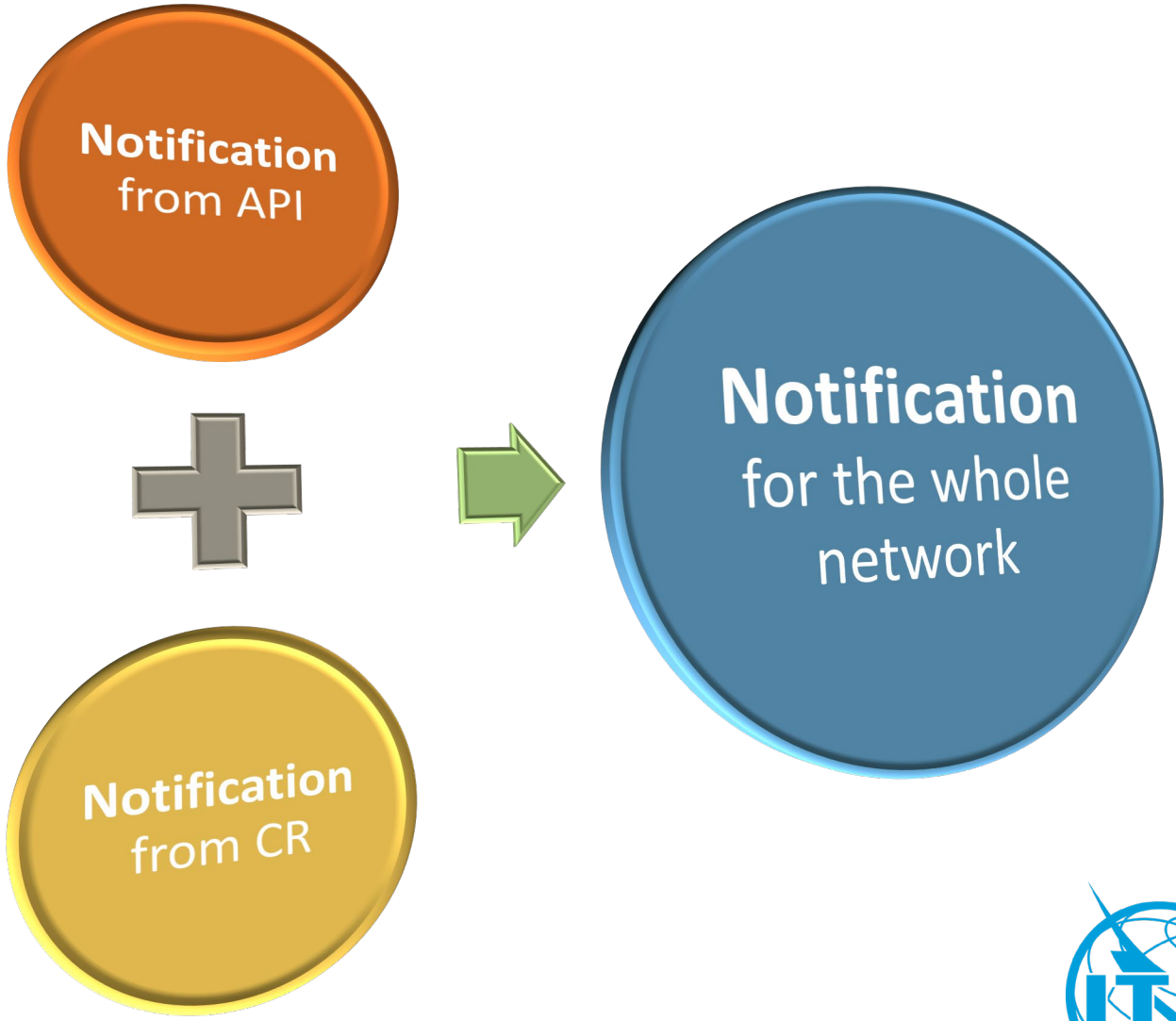


To create a Notification from both API and CR

Step 1. Create the first notification database from the advance publication information (API)
[Check the Guideline of the conversion from API to N]

Step 2. Create the second notification database from the coordination request (CR)
[Check the Guideline of the conversion from CR to N]

Step 3. Merge the two databases mentioned above into one Notification for the whole satellite network



❖ In this guideline, we will focus on how to merge the two notices into one database.

To merge the two notices into one Notification

There are **two** ways to merge the two notices into **one** database:

Option 1:

Use the **Export** and the **Clone** functions via **SpaceCap** to merge the two notices into one.

1) Export one notification notice into another notification database which is created for the same notice, to have the unique mdb file for notification:
   - *Remember to select the option, if the Notice already exist in the target database, to give a new notice ID when export.*
2) Clone all beams from one notice into another notice in the same database:
   - *In this case, you have to clone all beams one by one via SpaceCap;*
     (to allow the clone of multiple beams in one go is under development via SpaceCap)
   - *If the beam exists in the target notice, you can clone all groups in one action under the same beam name;*
   - *Please clone the beams from the notification generated from the API into another notification generated from the CR, since more info is requried at the coordination stage.*
3) Delete the previous notice which had already been cloned into the target notice.
   - *One notice database shall contain only one notice for submission.*

To merge the two notices into one Notification

Option 2:

This option is still under further improvement.

Currently, you could use the **notification merge wizard** to merge the two **notification** mdb files, already created from API and CR separately, into one by selecting "**Notification Merge Wizard**" from the **Tools** Option via **SpaceCap**.

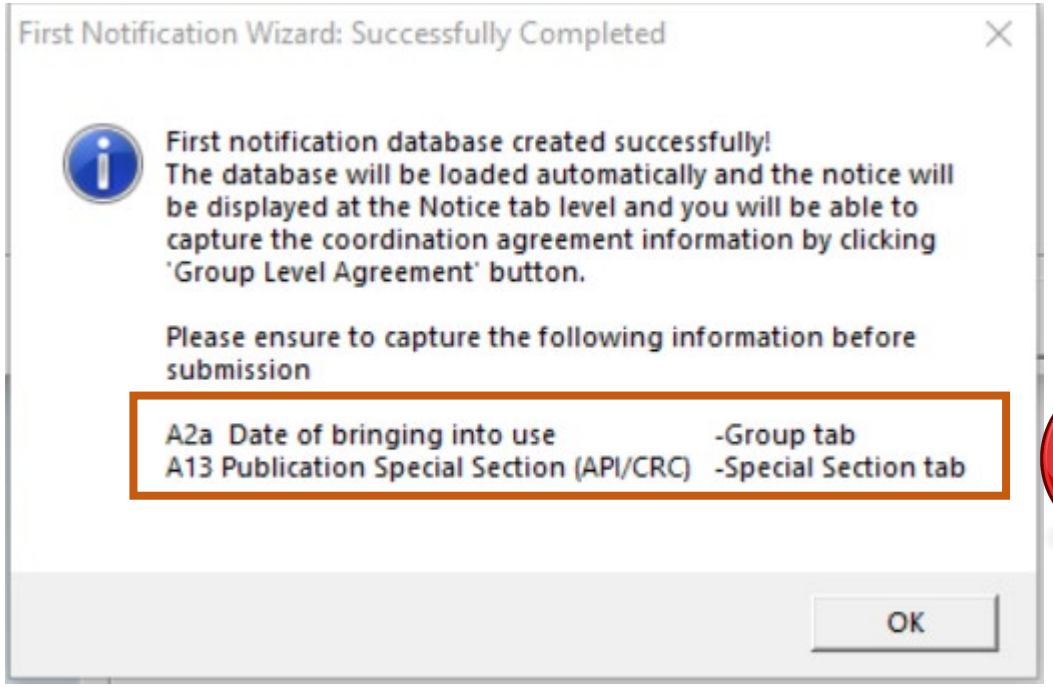
1) Input the notification created from CR **first**;
2) Then input the notification created from API.

If there are some beams with the same name in both notifications created from both API and CR, the process will stop, and the name of the duplicated beam has to be changed either for the one created from API or for the one created from CR before running the Wizard:

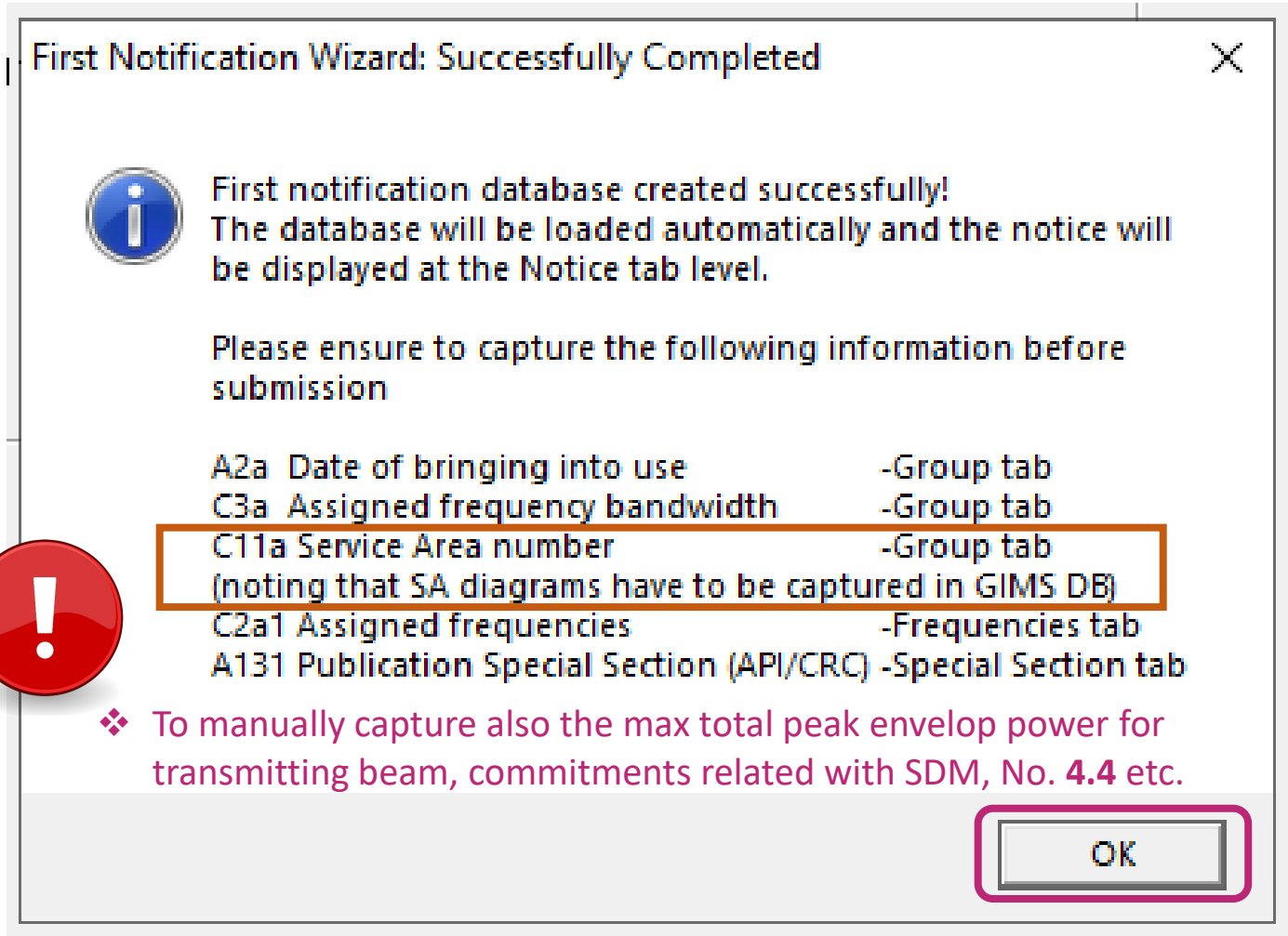
- For example, if the beam name was "UBV", simply add "A" in the end to indicate the beam which is derived from the API and it will become the beam "UBVA" in the Notification notice;
- In this way, same beam name with same direction at the API and CR stage will become two beams with different beam names corresponding to API and CR separately in the merged notification notice.

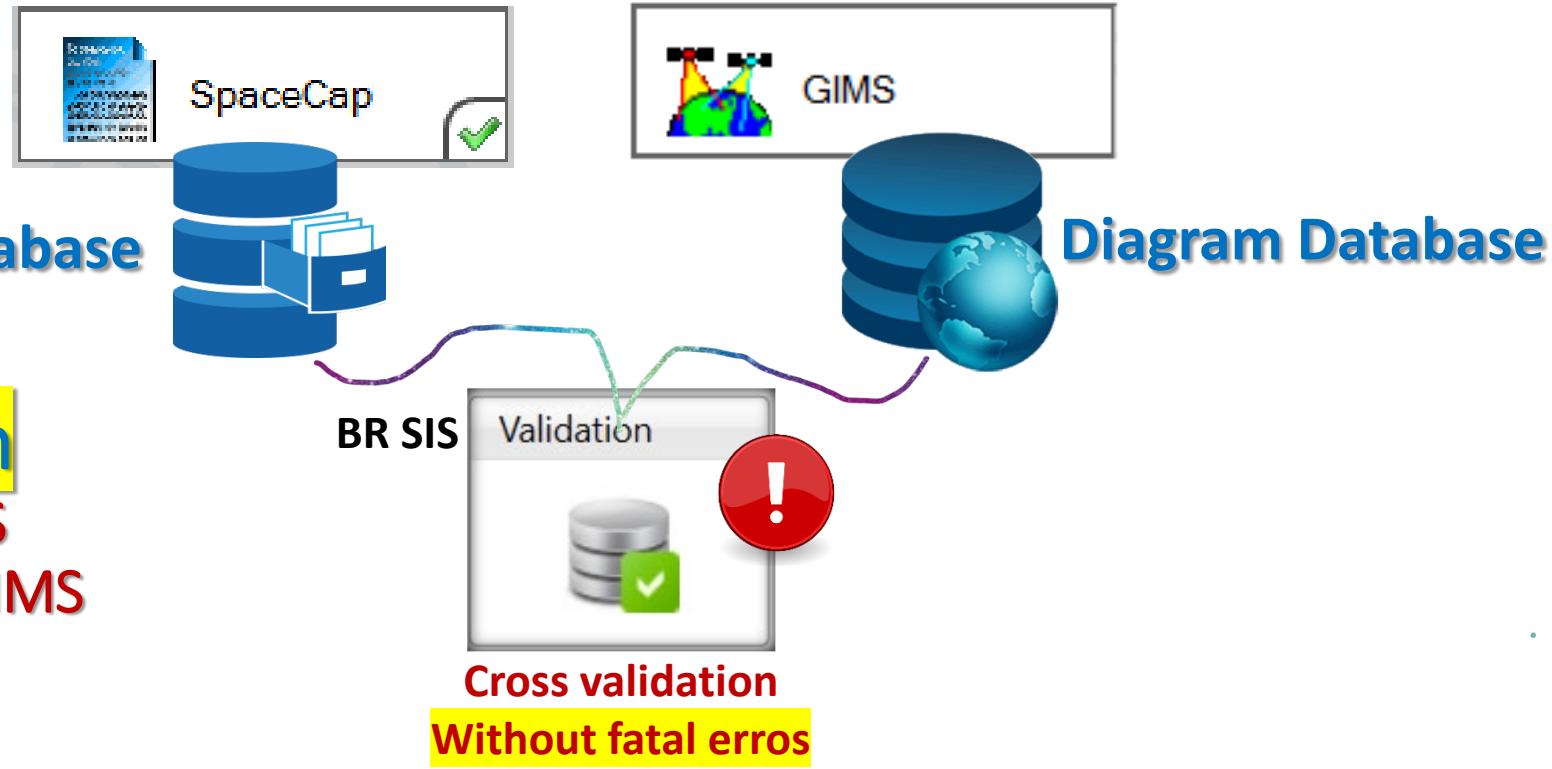
For Notification:

- Make sure to provide the missing mandatory information for notification



- Run BRSIS Validation before submission of notification





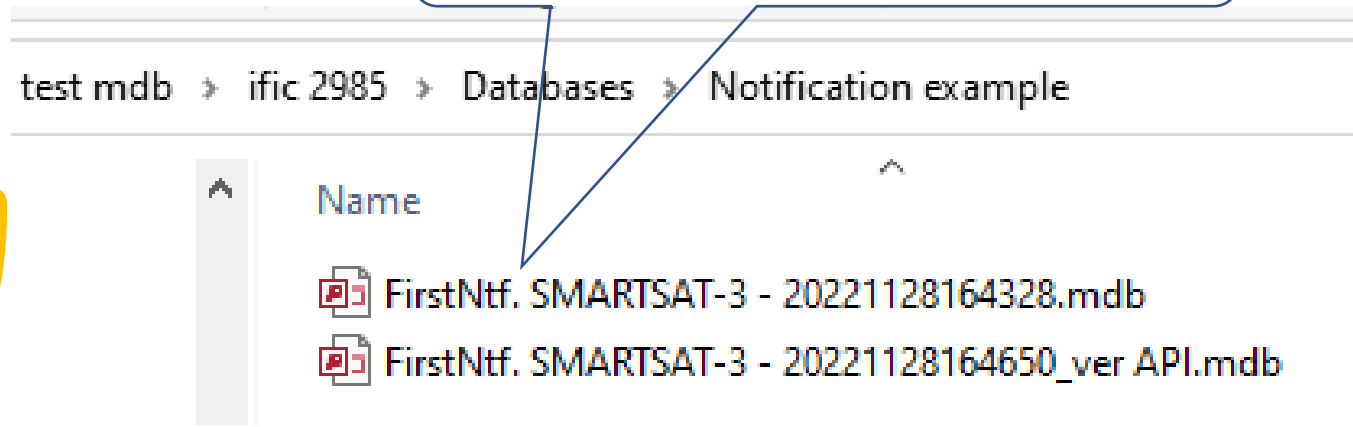
- Run **BR-SIS Validation** to cross check both the SRS Notice database and the GIMS database for Notification

For GIMS database, please check the relevant guides online as follows:

- Graphical Information for Non-GSO
- Guideline on how to capture and validate the diagram number and/or attachment number for the non-GSO satellite network using BR software SpaceCap and BR-SIS Validation
- Guideline of the conversion of service areas from the srv_area table in the SRS notice database to service area diagrams in the GIMS database

EXAMPLES

The notification notices have been generated from API and CR separately.



Take this N-GSO publication from *SNL* for example:

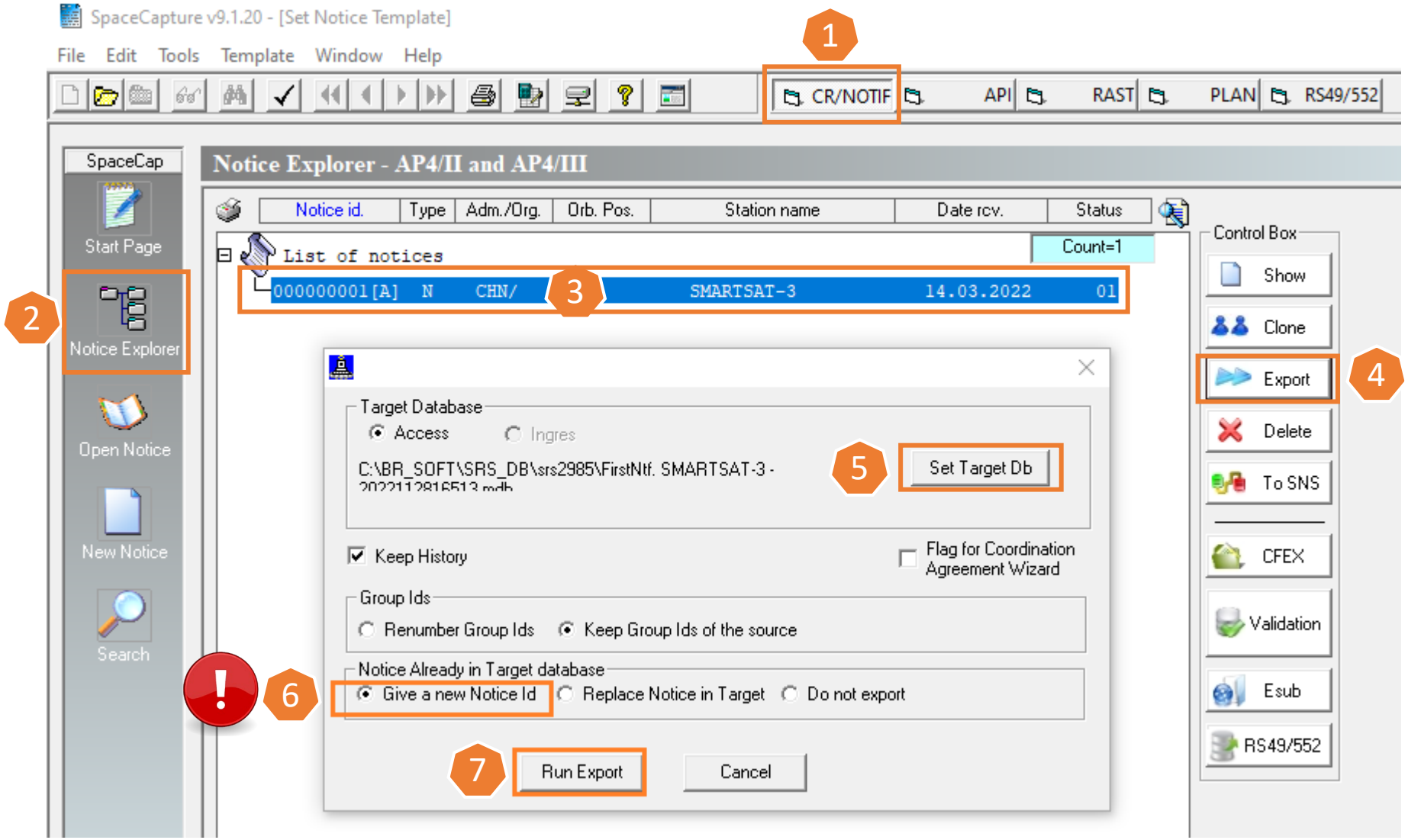
ID number (SNS)	adm	ORG or Geo.area	Satellite name	Earth station	long_nom	Date of receipt	ssn_ref	ssn_no	ssn rev/ Sup	ssn rev no	removal	Part/ Art.	WIC/IFIC (ific.mdb)	WIC/IFIC date
up down	up down	up down	up down	up down	up down	up down	up down	up down					up down	
122545049	CHN		SMARTSAT-3		N-GSO	14.03.2022	API/A	13037					2969	19.04.2022
122520027	CHN		SMARTSAT-3		N-GSO	14.03.2022	API/C	1417					2976	26.07.2022
122520027	CHN		SMARTSAT-3		N-GSO	14.03.2022	CR/C	5714					2977	09.08.2022
122545049	CHN		SMARTSAT-3		N-GSO	14.03.2022	API/B	2019					2980	20.09.2022

- Make use of the **SRS database** published in the BR IFIC to generate notifications based on API and CR separately;
- Create the notification database from the API;
- Create the second notification database from the CR;
- Merge the two databases into one Notification.

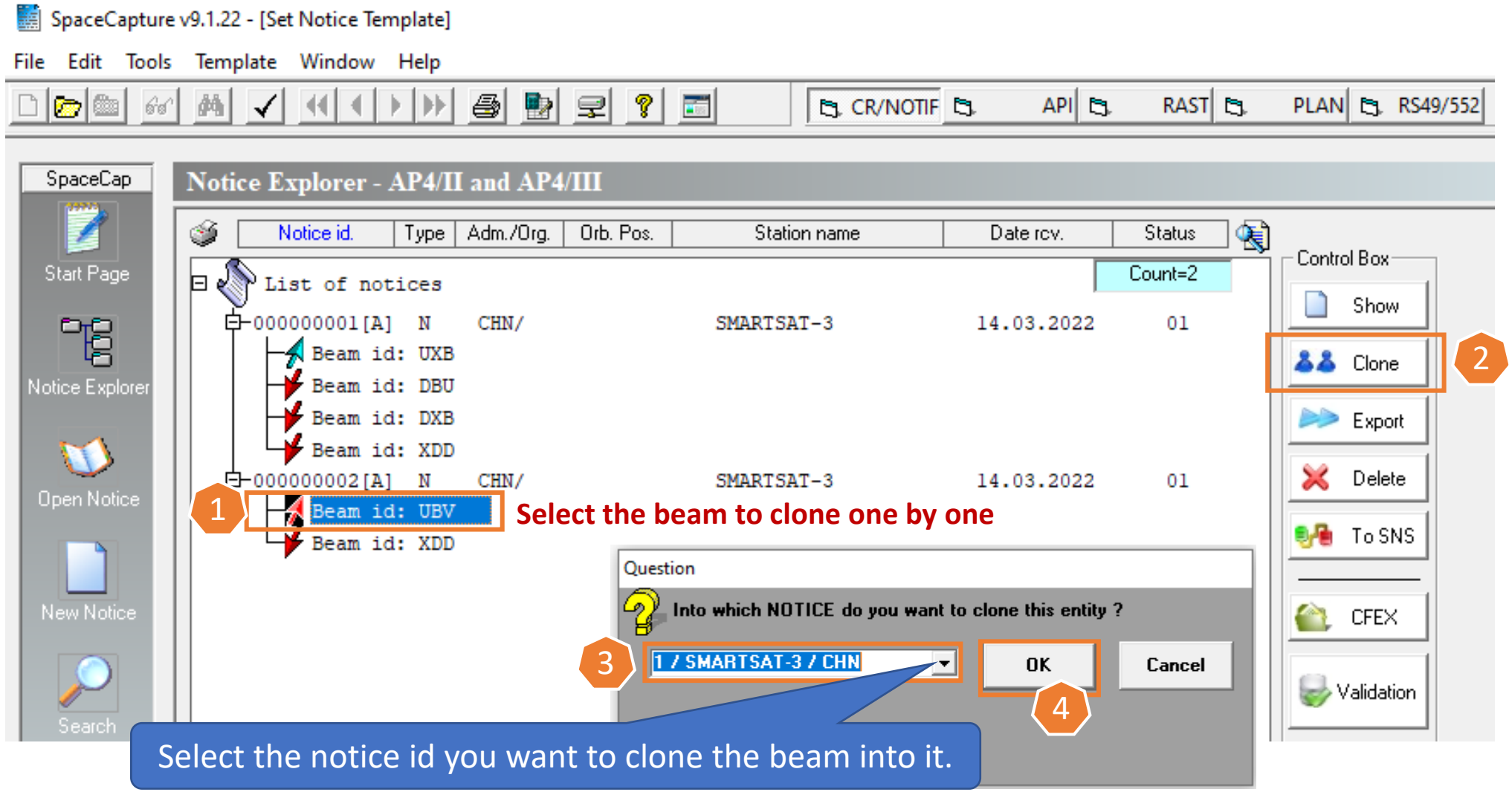
Option 1

via **SpaceCap**,
use the **Export** and the **Clone** functions
to merge the **two** notification notices
derived from API and CR separately into **one**

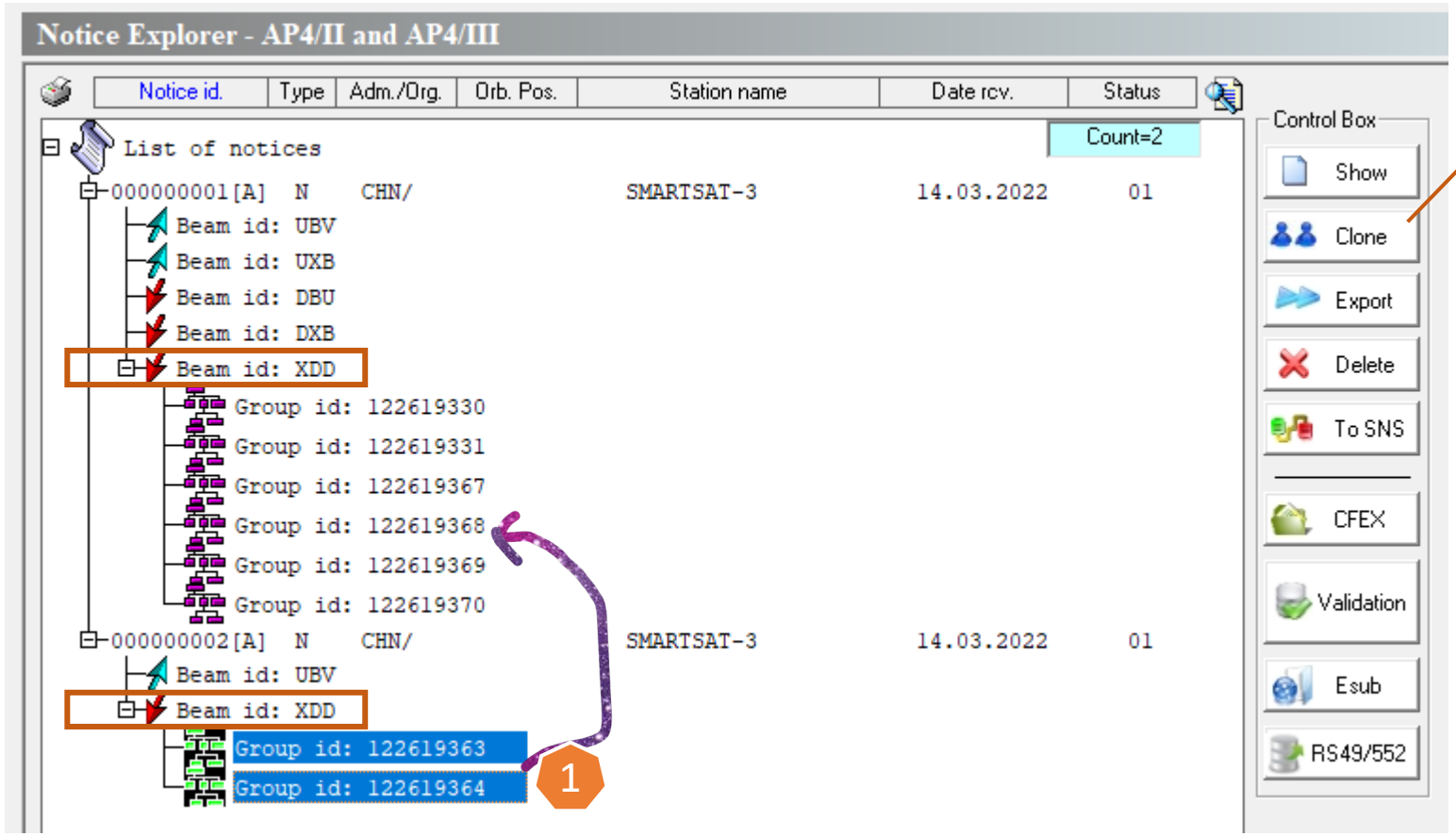
❖ Export one into another notification database

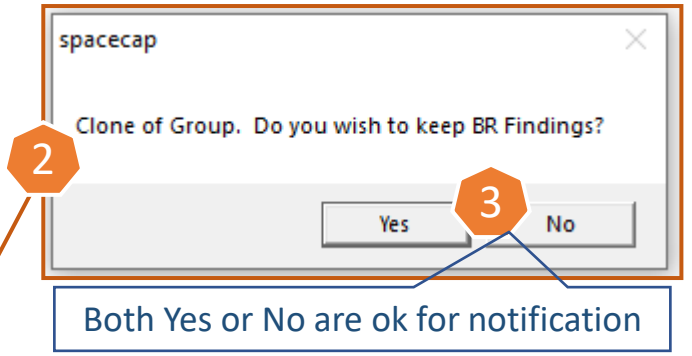


❖ Open the notification database which includes both notification notices to clone all beams from one notice into another notice

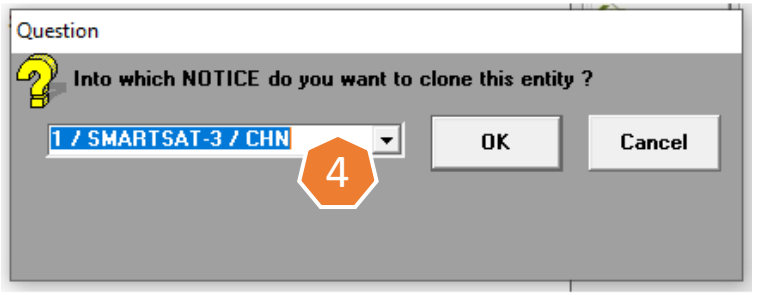


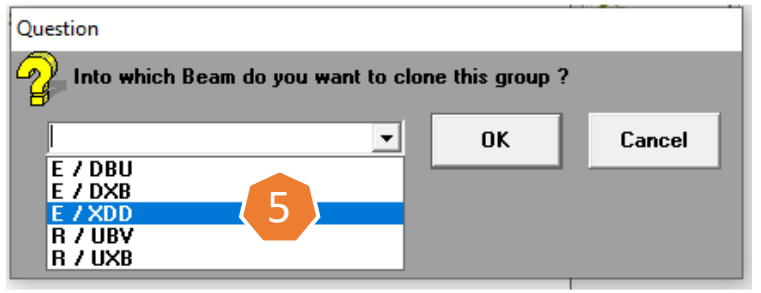
When the same beam exist in the target notice, you can select all the groups to clone from one into another

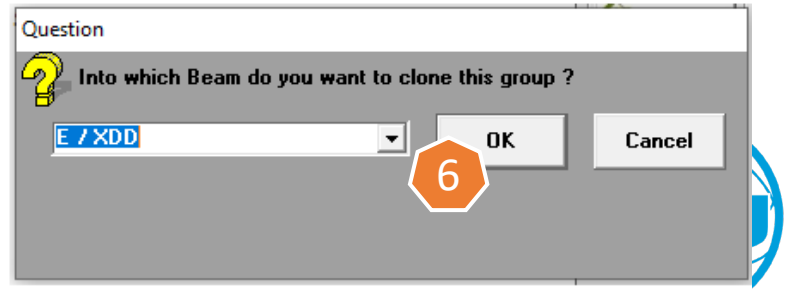




Both Yes or No are ok for notification





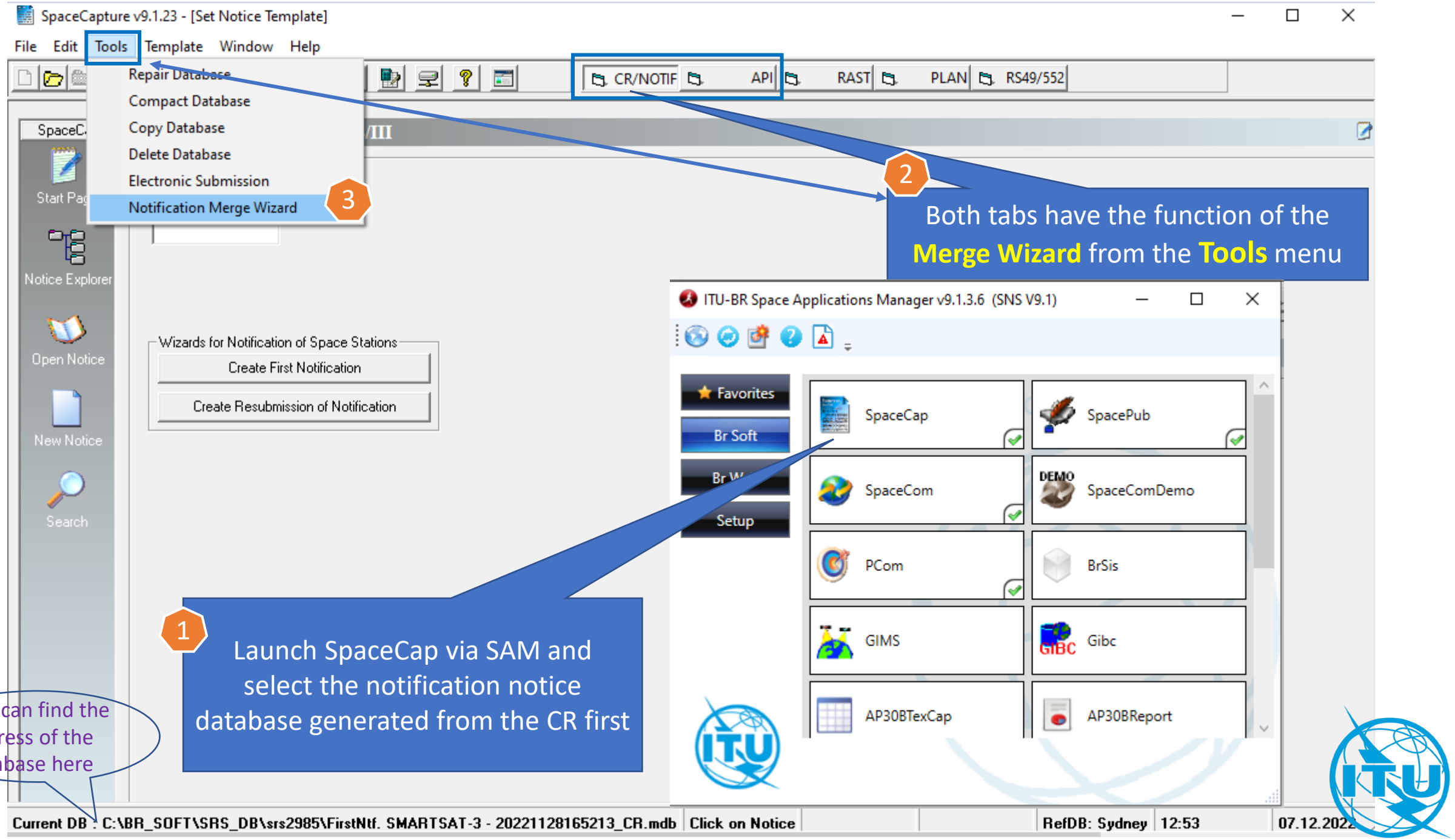


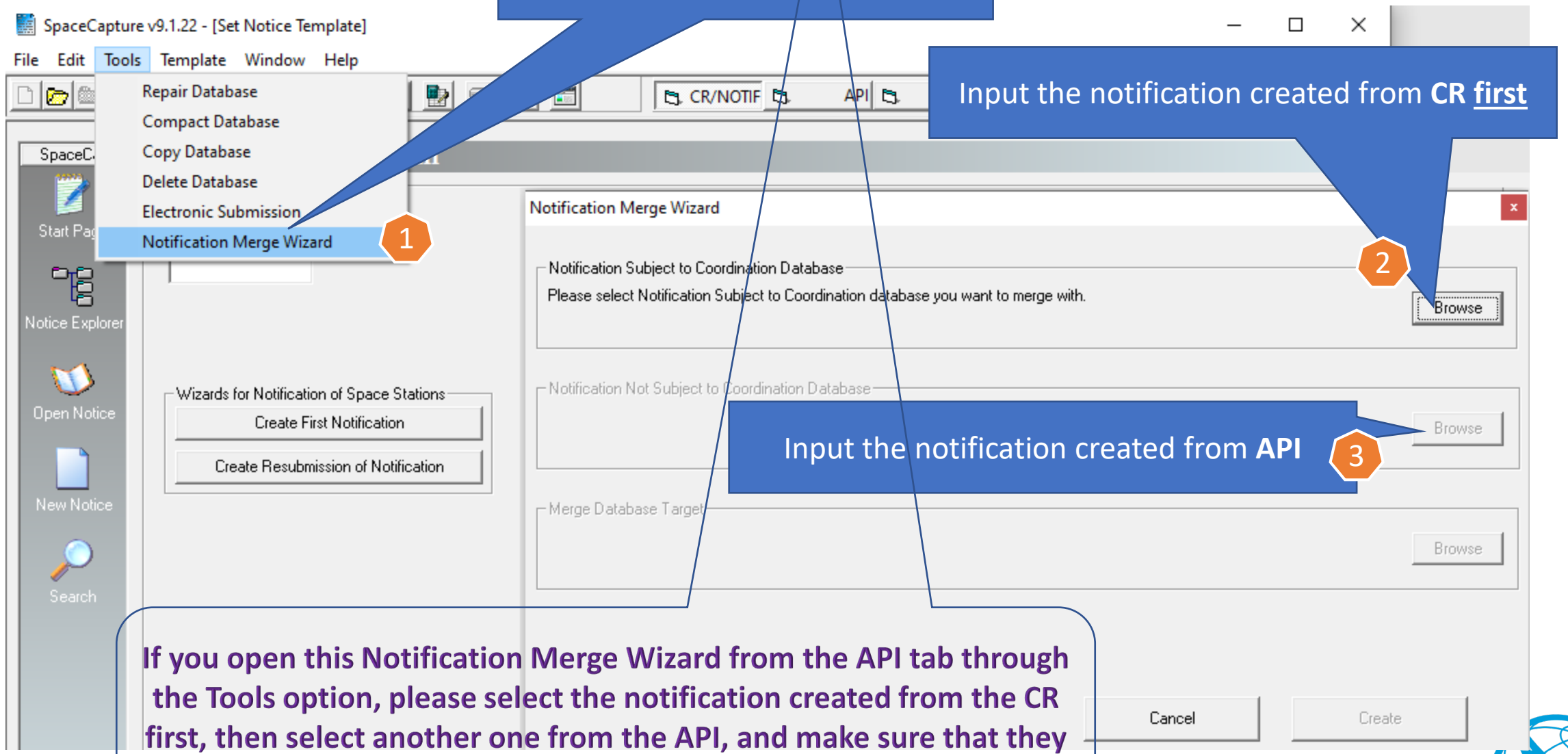
❖ Tips for notification

- Make sure that all the notice level information, as well as the orbital information for N-GSO, are identical or captured as intentional;
- In general, please clone the beams from the notification notice generated from API into the notification notice generated from the CR, since the CR parts normally contain more AP**4** info required; it's considerable also to clone the notice which has less number of beams into another depends on the complexity of the filing submission;
- Make sure you have cloned all the beams, one by one, from one notice to another;
- After the two notices are merged successfully, please ensure to capture all those additional information required for notification;
- After the clone, please delete from the database the original notice which had already been cloned into another. One notice database shall contain only one notice for submission;
- For notification, all service area information need to be provided in the GIMS database;
- Please run BR-SIS Validation, fix the errors if any, before submission.

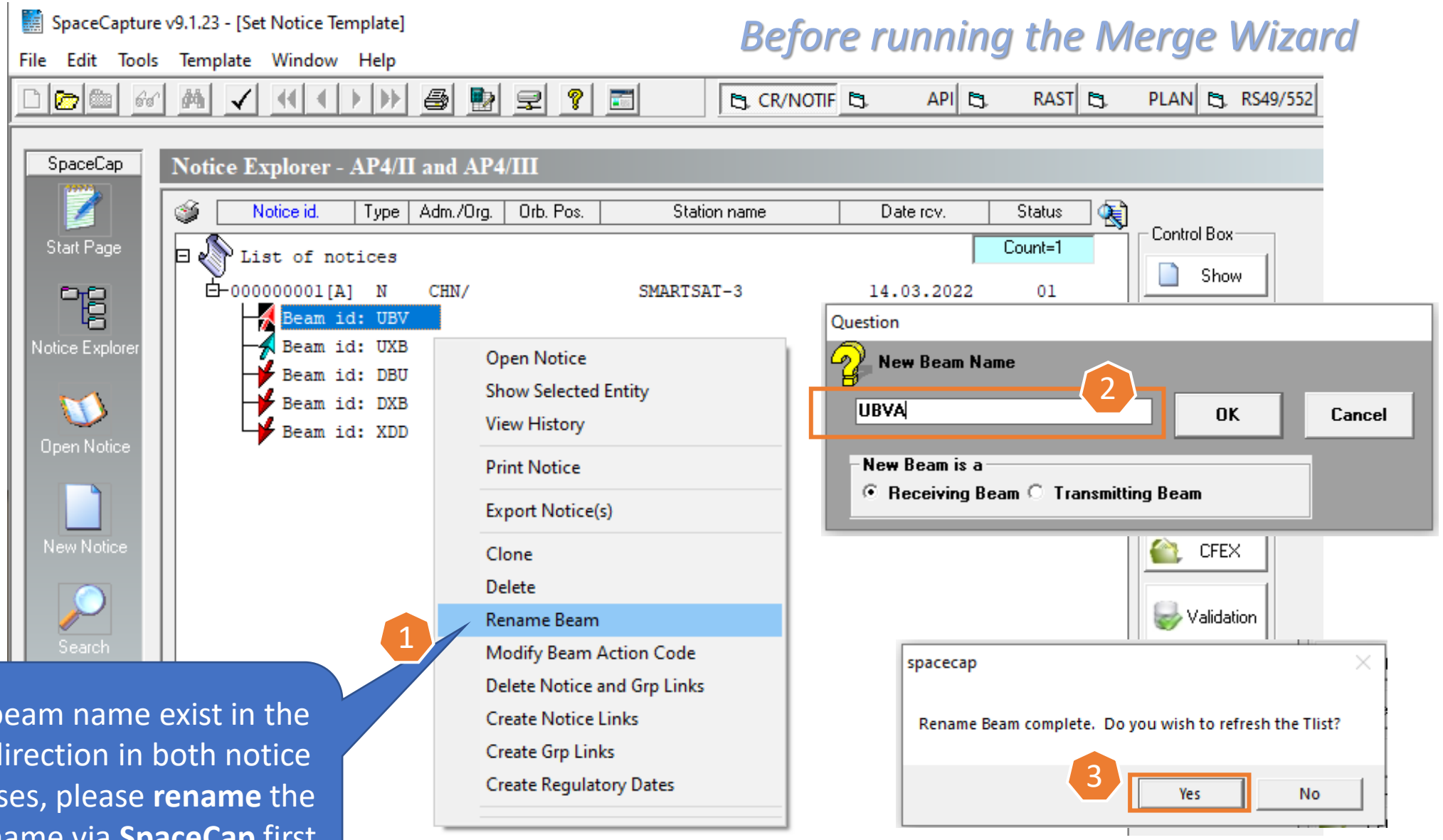
Option 2

Use the **Notification Merge Wizard** tool to merge the **two** notification notices already generated from API and CR separately into **one** via **SpaceCap**


SpaceCapture v9.1.23 - [Set Notice Template]
File Edit Tools Template Window Help
Repair Database
Compact Database
Copy Database
Delete Database
Electronic Submission
Notification Merge Wizard
3
CR/NOTIF API RAST PLAN RS49/552
2
Both tabs have the function of the Merge Wizard from the Tools menu
Start Page
Notice Explorer
Open Notice
New Notice
Search
Wizards for Notification of Space Stations
Create First Notification
Create Resubmission of Notification
ITU-BR Space Applications Manager v9.1.3.6 (SNS V9.1)
Favorites
Br Soft
Setup
SpaceCap
SpacePub
SpaceCom
SpaceComDemo
PCom
BrSis
GIMS
Gibc
AP30BTexCap
AP30BReport
1
Launch SpaceCap via SAM and select the notification notice database generated from the CR first
You can find the address of the database here
Current DB : C:\BR_SOFT\SRS_DB\srs2985\FirstNtf. SMARTSAT-3 - 20221128165213_CR.mdb
Click on Notice
RefDB: Sydney
12:53
07.12.2022


Select **Notification Merge Wizard** from **Tools**
SpaceCapture v9.1.22 - [Set Notice Template]
File
Edit
Tools
Template
Window
Help
Repair Database
Compact Database
Copy Database
Delete Database
Electronic Submission
Notification Merge Wizard
1
CR/NOTIF
API
Input the notification created from **CR first**
Start Pag
Notice Explorer
Open Notice
New Notice
Search
Wizards for Notification of Space Stations
Create First Notification
Create Resubmission of Notification
Notification Merge Wizard
Notification Subject to Coordination Database
Please select Notification Subject to Coordination database you want to merge with.
Browse
2
Notification Not Subject to Coordination Database
Browse
Input the notification created from **API**
3
Merge Database Target
Browse
Cancel
Create
If you open this Notification Merge Wizard from the API tab through the Tools option, please select the notification created from the CR first, then select another one from the API, and make sure that they do not have the same beam name in the same direction.

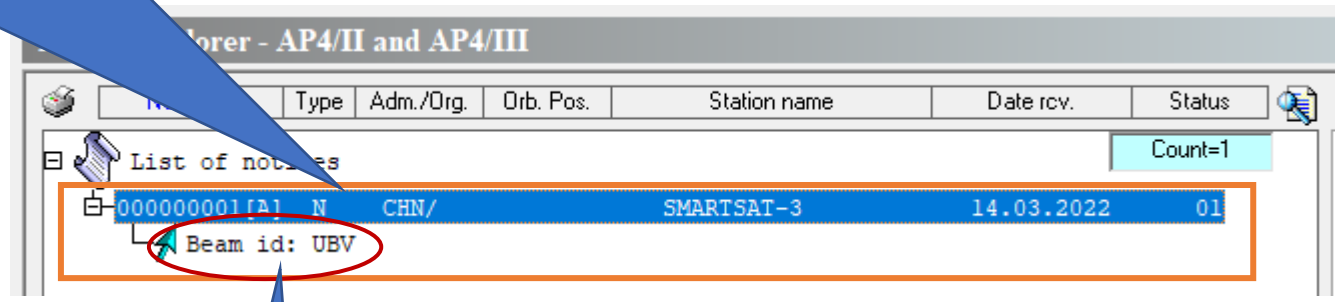
Before running the Merge Wizard

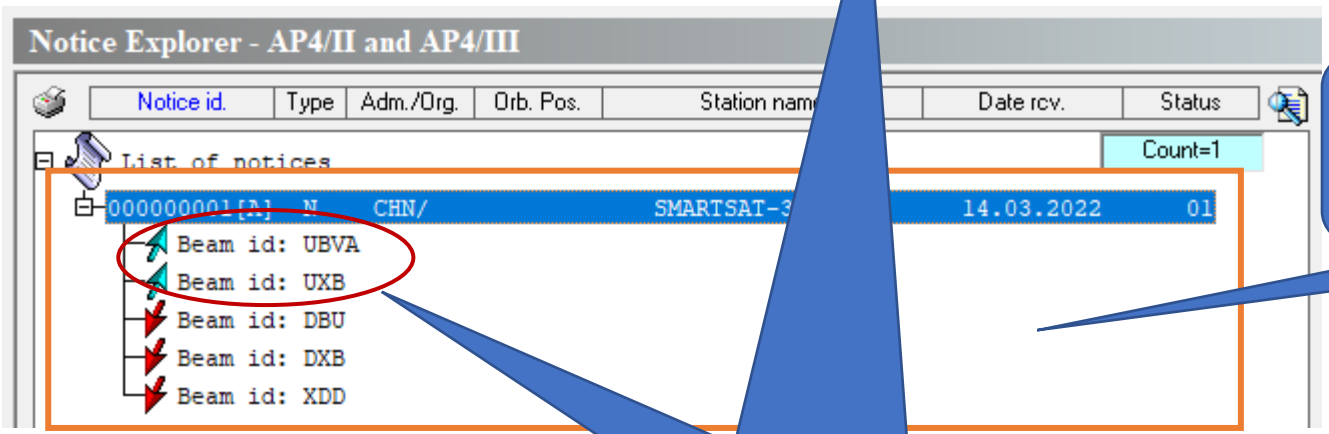


If the beam name exist in the same direction in both notice databases, please **rename** the beam name via **SpaceCap** first

Before running the Merge Wizard

This is the notification notice database generated from the Coordination Request

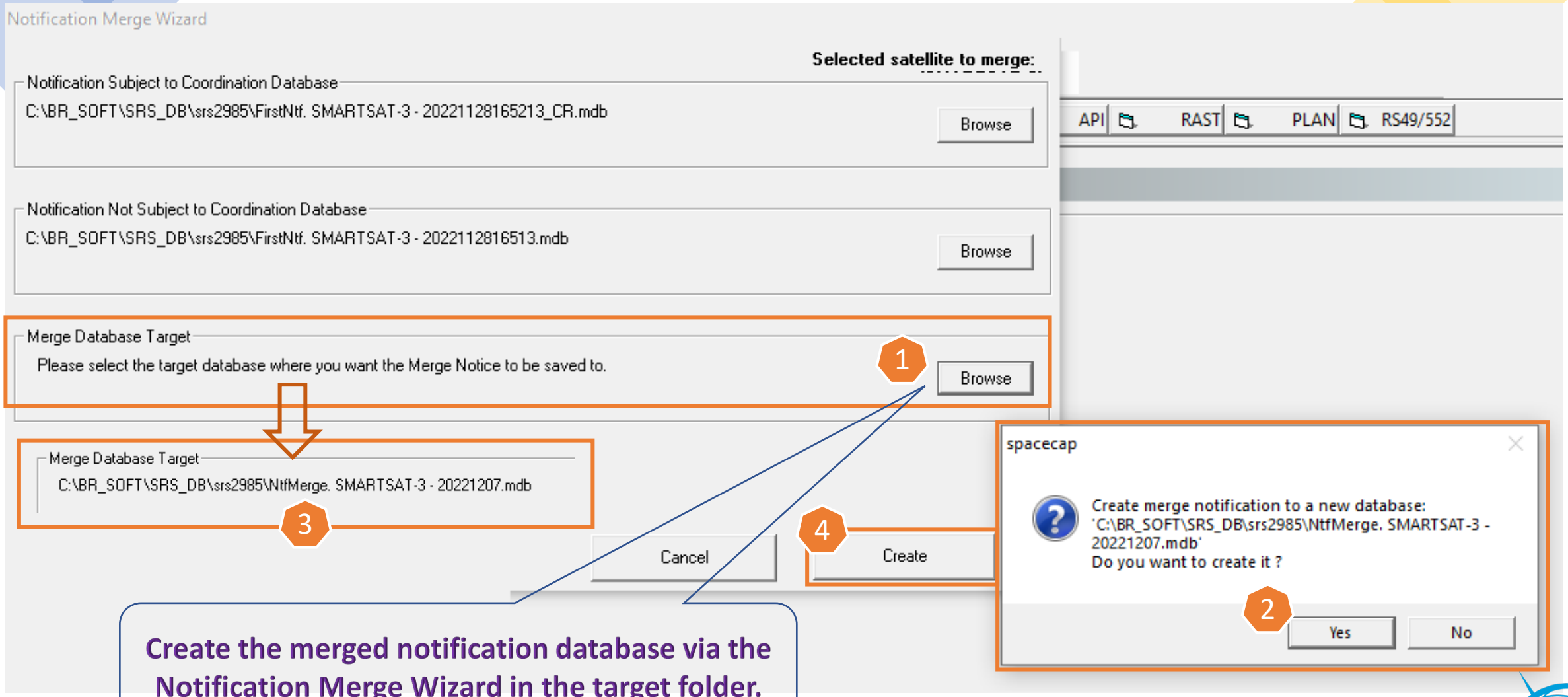




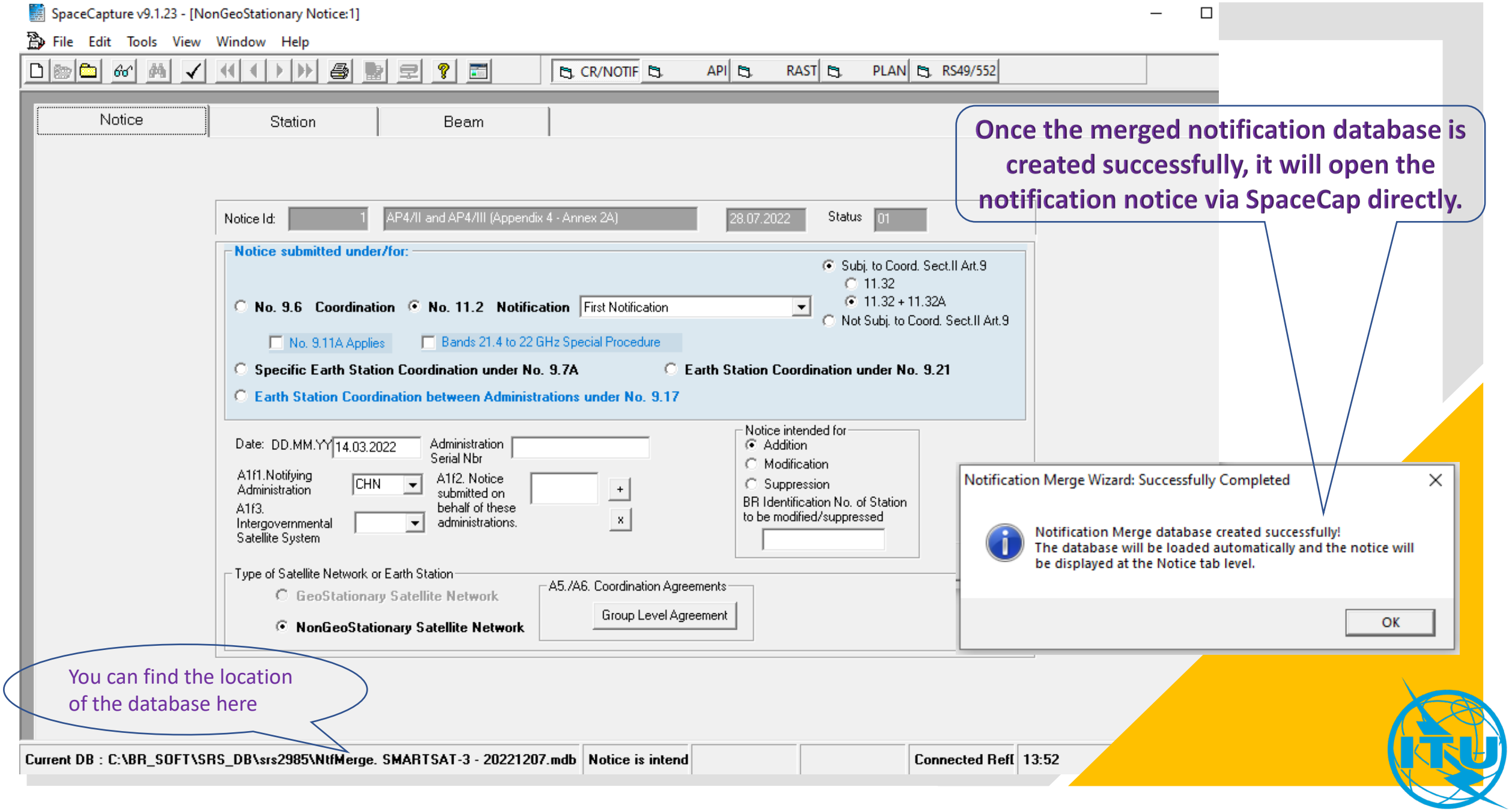
This is the notification notice database generated from the API

Make sure all beam names are different in the same direction

After select both the notification databases via the Merge Wizard



Create the merged notification database via the Notification Merge Wizard in the target folder.

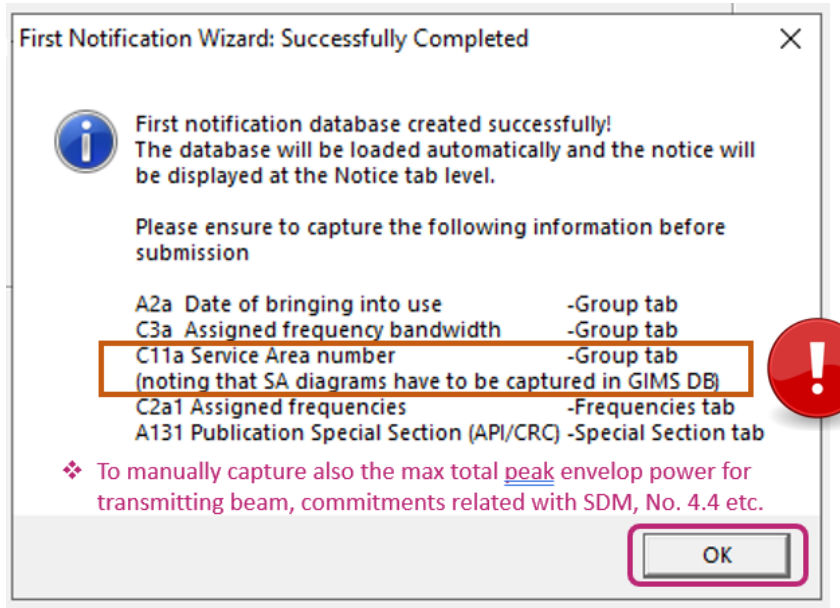


Once the merged notification database is created successfully, it will open the notification notice via SpaceCap directly.

You can find the location of the database here

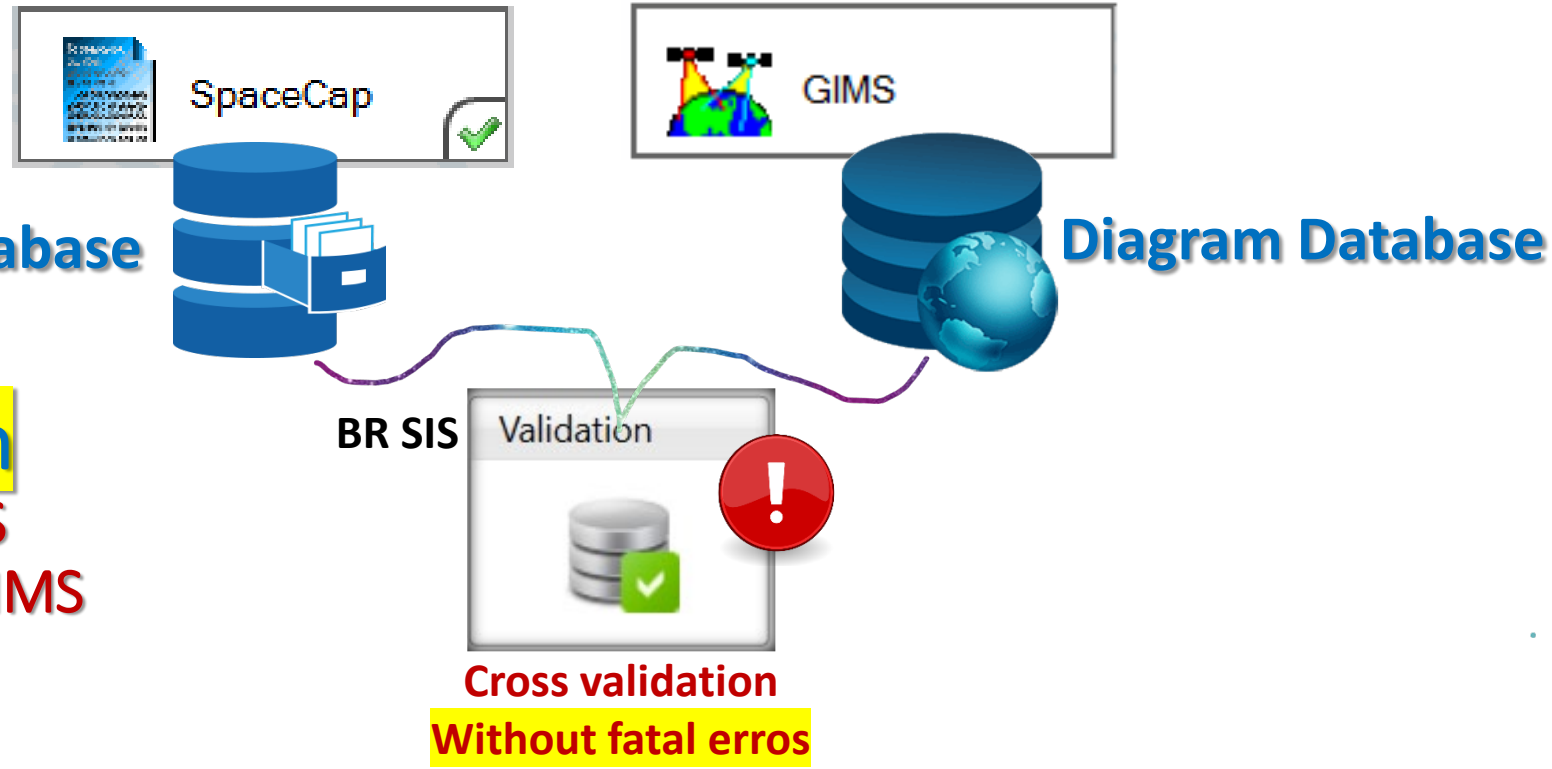
❖ Tips for notification

- If it's happened to have the same beam name (in the same direction) in both API and CR, please use the **Option 1** to merge the two notification notices. Otherwise, to change the beam name in advance;
- Please ensure to capture all those additional information required for notification;
- Especially check the orbital information and ensure that they are all captured correctly for the notification;
- For notification, all service area information need to be provided in the GIMS database;
- Please run BR-SIS Validation to cross check the compatibility between the SRS notice database and the Gims diagram database, fix the errors if any, before submission.
- Please check the guidelines shown below:



Guideline of the conversion from API to N

Guideline of the conversion from CR to N



- Run **BR-SIS Validation** to cross check both the SRS Notice database and the GIMS database for Notification

For GIMS database, please check the relevant guides online as follows:

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- Guideline of the conversion of service areas from the srv_area table in the SRS notice database to service area diagrams in the GIMS database

Thank you!

ITU – Radiocommunication Bureau

Questions to brmail@itu.int or xiuqi.wang@itu.int