



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



ITU BR SSD SPR
2022.12

ITU Regulatory Procedures

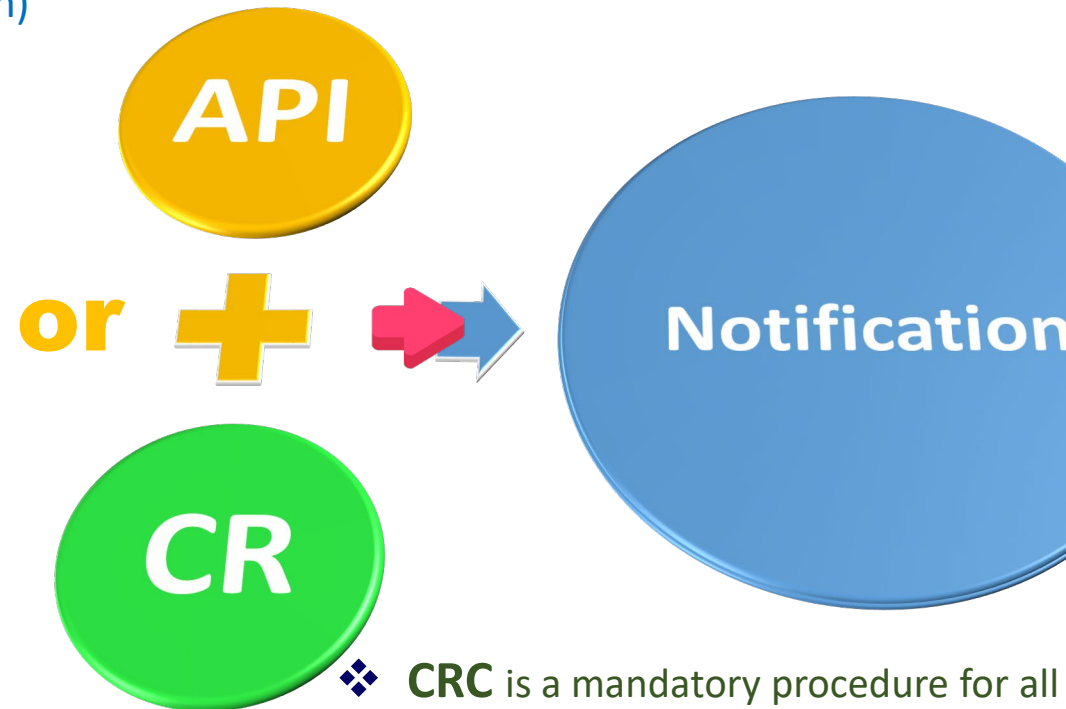


Submit it in the correct format !

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

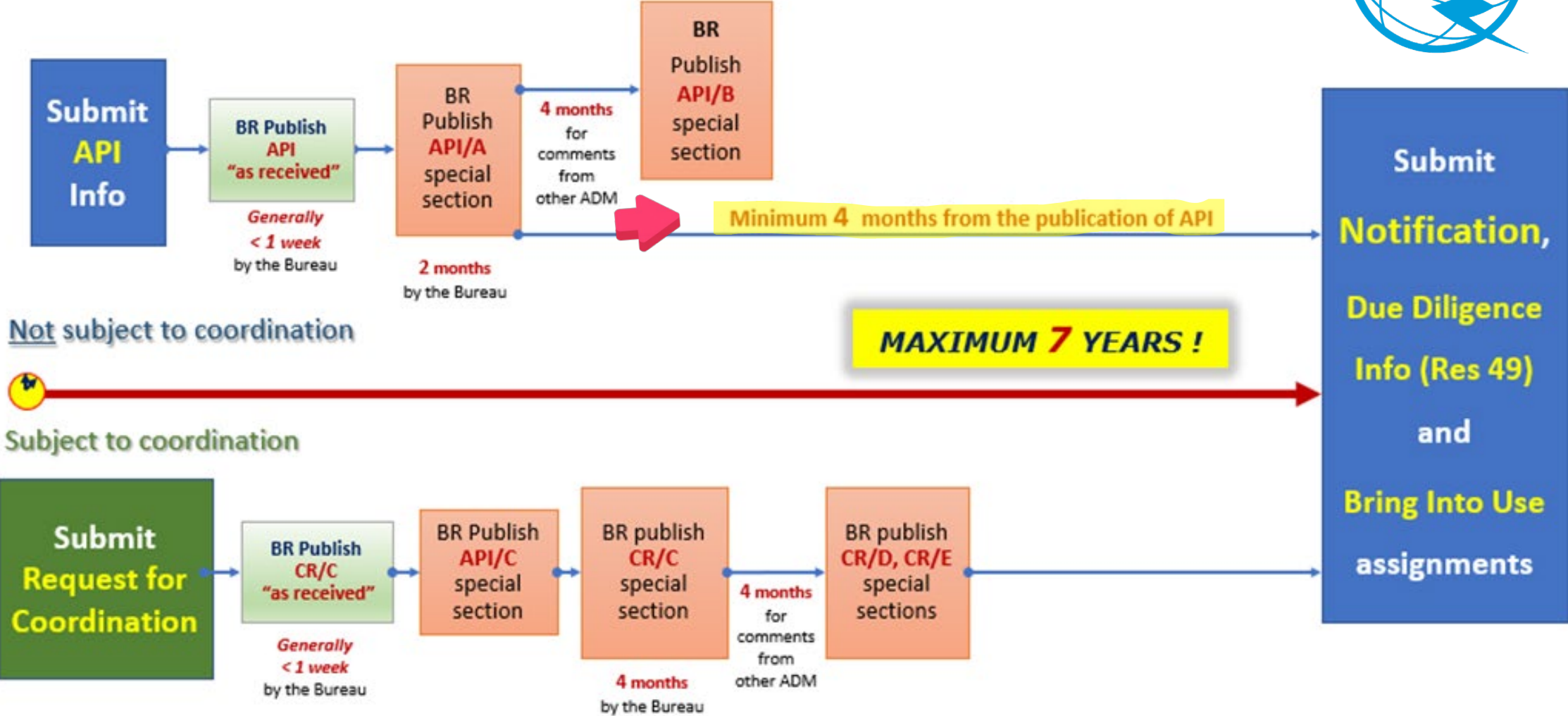
(if specified in RR that the allocation/use is subject to coordination or agreement)

❖ **CR** 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

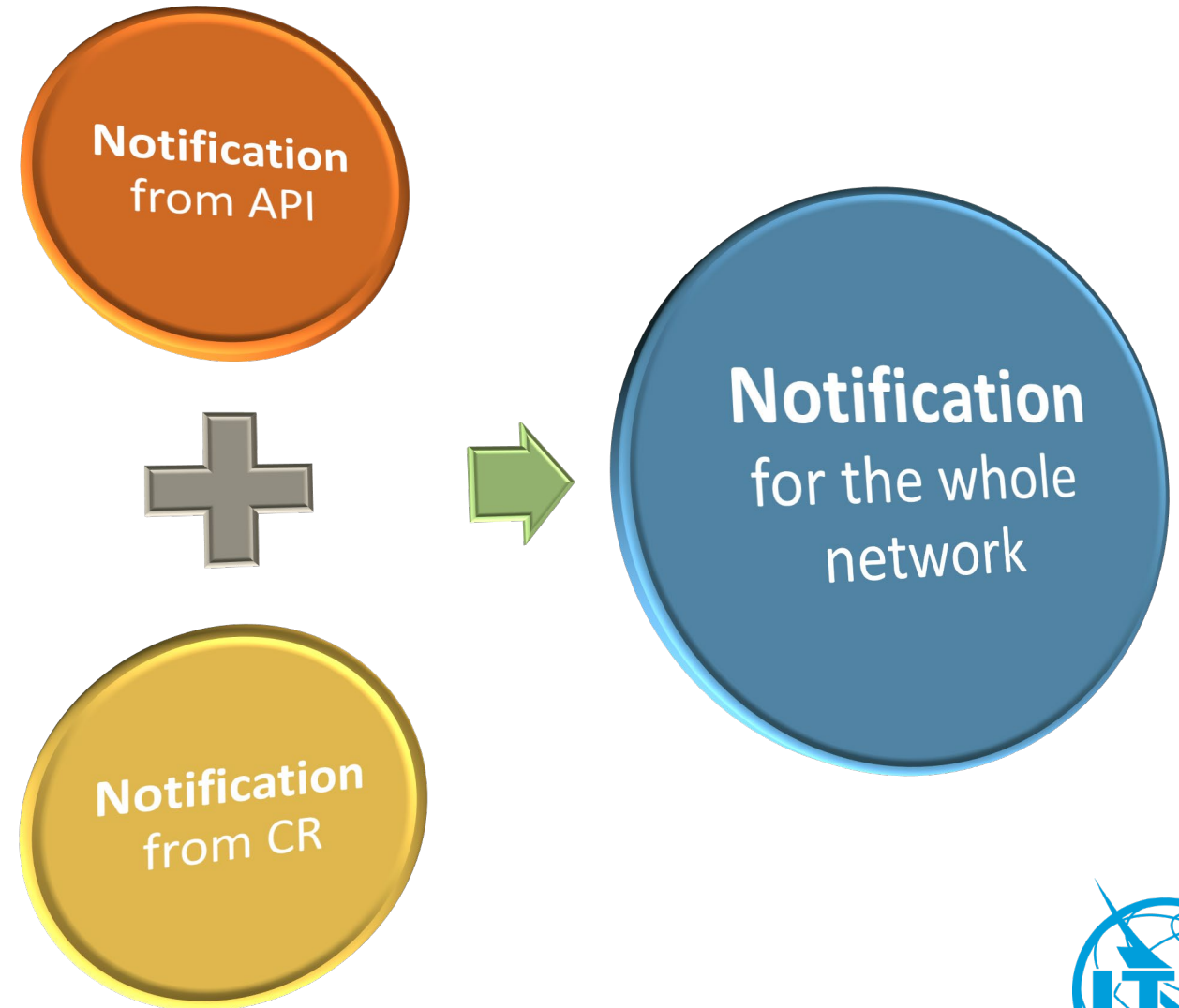


To create a Notification from both API and CR

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 required 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.

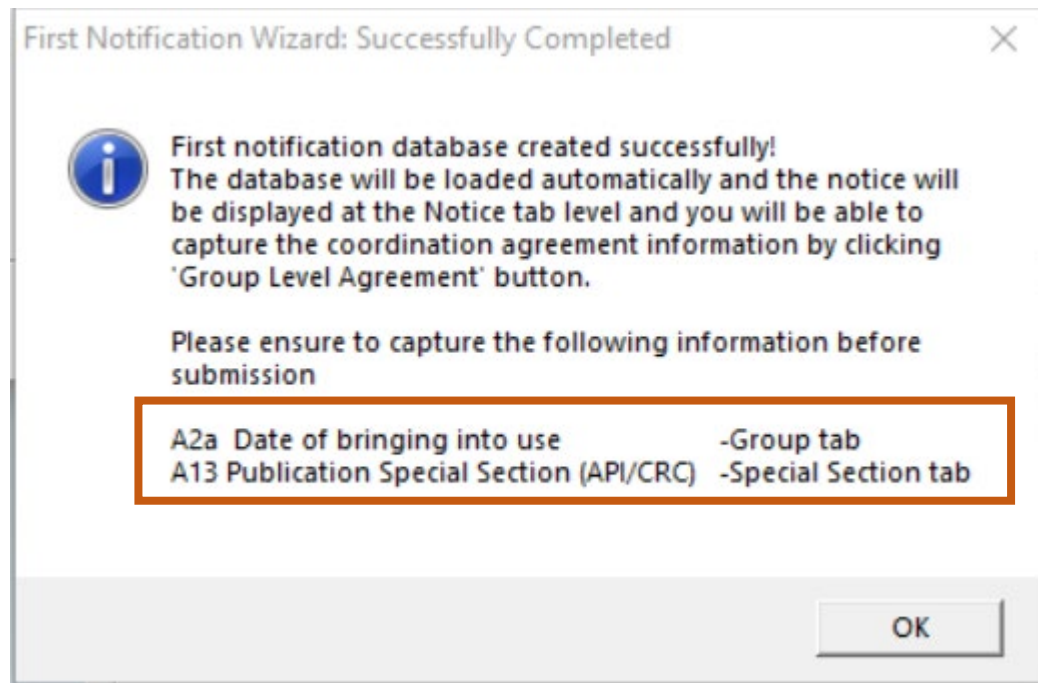
If there are some beams with the same name in both notifications created from both API and CR, the process will stop, and the name of the duplicated beam has to be changed either for the one created from API or for the one created from CR before running the Wizard:

- 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.

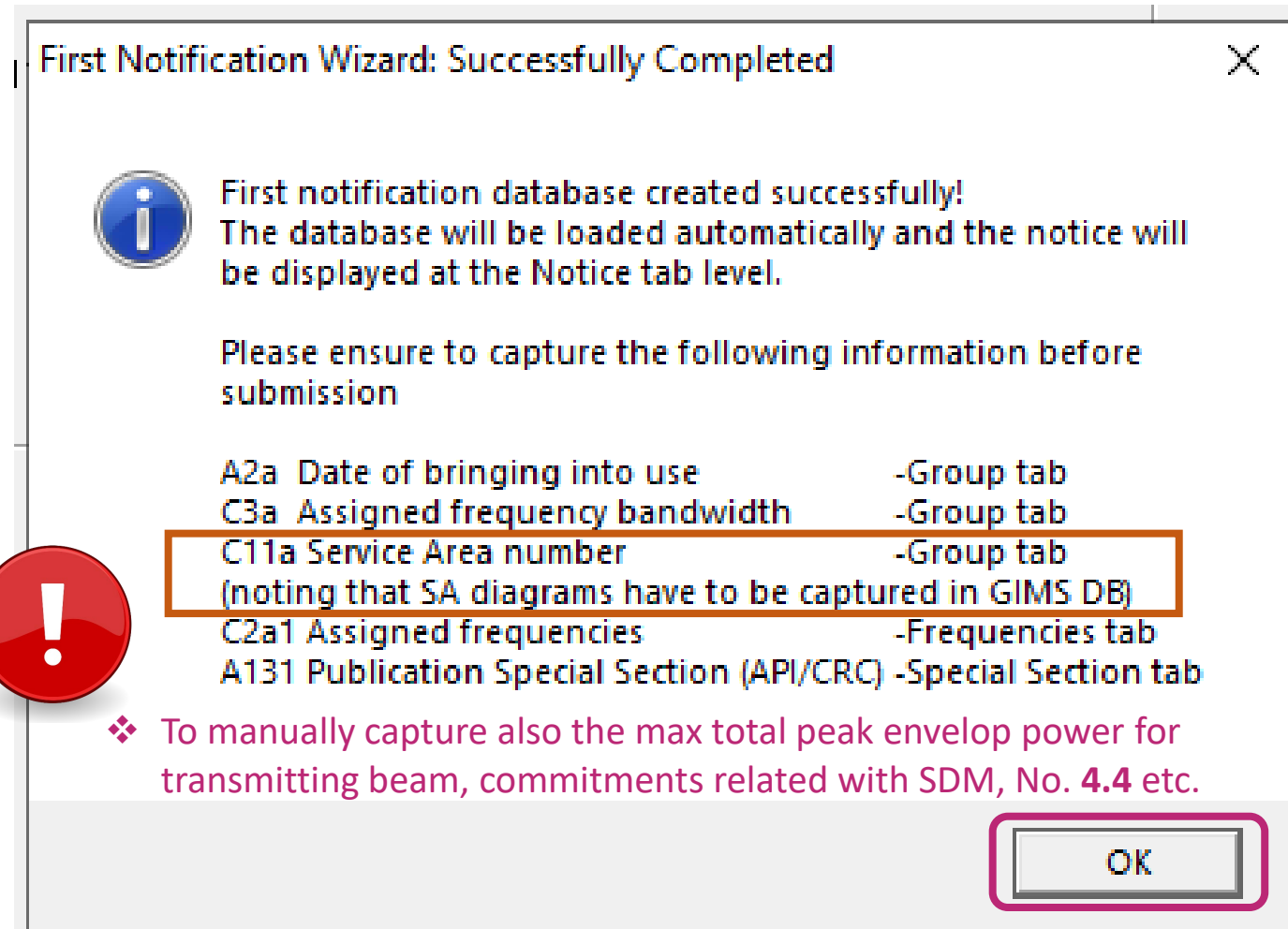


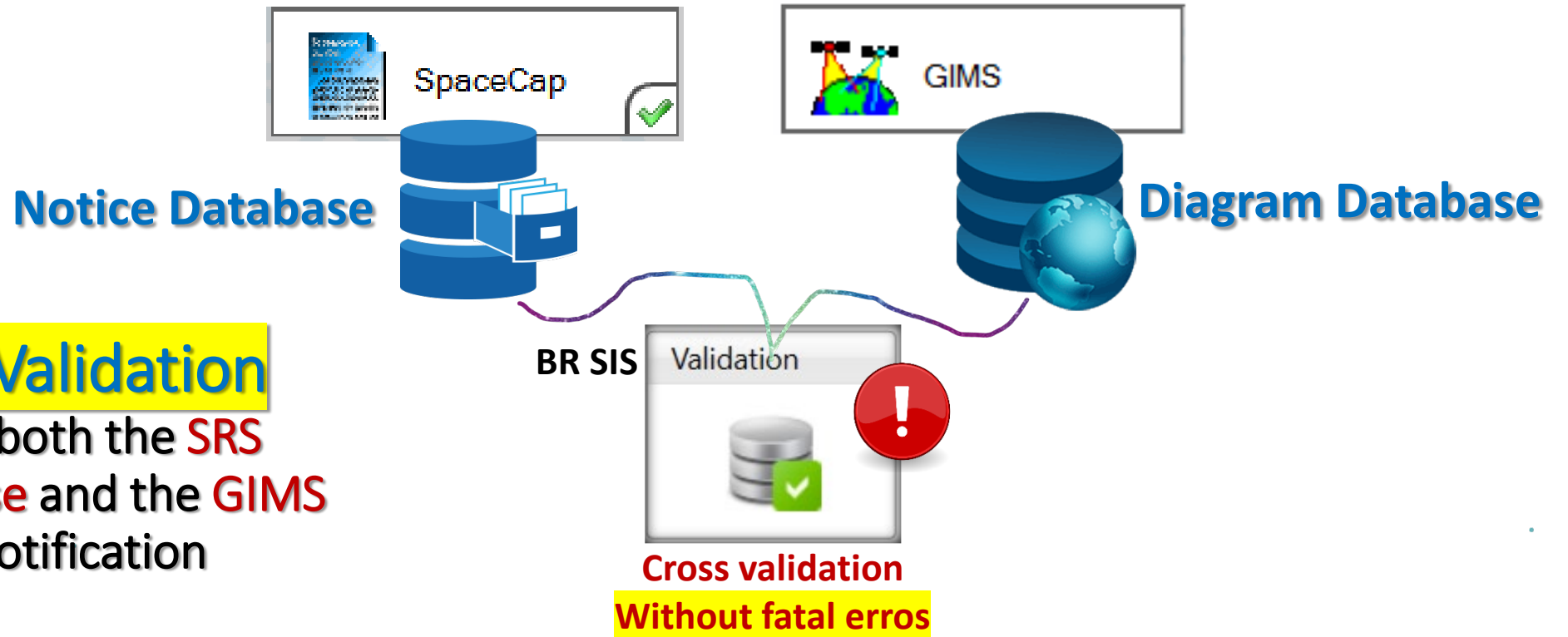
For Notification:

- ❖ 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.

test mdb > ific 2985 > Databases > Notification example

Name

- FirstNtf. SMARTSAT-3 - 20221128164328.mdb
- FirstNtf. SMARTSAT-3 - 20221128164650_ver API.mdb

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

The screenshot displays the SpaceCapture v9.1.20 interface with the 'Notice Explorer' window open. The main window shows a table of notices with the following data:

Notice id	Type	Adm./Org.	Orb. Pos.	Station name	Date rcv.	Status
000000001 [A]	N	CHN/		SMARTSAT-3	14.03.2022	01

The 'Export' button in the 'Control Box' is highlighted. A dialog box titled 'Target Database' is open, showing the following settings:

- Target Database: Access Ingres
- Path: C:\BR_SOFT\SRS_DB\srs2985\FirstNtf. SMARTSAT-3-2022112916513.mdb
- Keep History:
- Flag for Coordination Agreement Wizard:
- Group Ids: Renumber Group Ids Keep Group Ids of the source
- Notice Already in Target database: Give a new Notice Id Replace Notice in Target Do not export

The 'Run Export' button is highlighted. A red warning icon is visible in the bottom left corner.

Numbered callouts (1-7) indicate the following steps:

1. Click on the 'CR/NOTIF' button in the top toolbar.
2. Click on the 'Notice Explorer' icon in the left sidebar.
3. Click on the selected notice row in the table.
4. Click on the 'Export' button in the 'Control Box'.
5. Click on the 'Set Target Db' button in the dialog box.
6. Click on the 'Give a new Notice Id' radio button in the dialog box.
7. Click on the 'Run Export' button in the dialog box.

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

SpaceCapture v9.1.22 - [Set Notice Template]

File Edit Tools Template Window Help

CR/NOTIF API RAST PLAN RS49/552

SpaceCap

Start Page

Notice Explorer

Open Notice

New Notice

Search

Notice Explorer - AP4/II and AP4/III

Notice id.	Type	Adm./Org.	Orb. Pos.	Station name	Date rcv.	Status
000000001 [A]	N	CHN/		SMARTSAT-3	14.03.2022	01
List of notices Count=2						
├─ Beam id: UXB						
├─ Beam id: DBU						
├─ Beam id: DXB						
├─ Beam id: XDD						
000000002 [A]	N	CHN/		SMARTSAT-3	14.03.2022	01
├─ Beam id: UBV						
└─ Beam id: XDD						

Control Box

- Show
- Clone
- Export
- Delete
- To SNS
- CFEX
- Validation

1 Select the beam to clone one by one

2

3

4

Question

Into which NOTICE do you want to clone this entity ?

1 / SMARTSAT-3 / CHN

OK Cancel

Select the notice id you want to clone the beam into it.



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

Notice Explorer - AP4/II and AP4/III

Notice id.	Type	Adm./Org.	Orb. Pos.	Station name	Date rcv.	Status
000000001	[A]	N	CHN/	SMARTSAT-3	14.03.2022	01
List of notices						
Count=2						
Beam id: UBV						
Beam id: UXB						
Beam id: DBU						
Beam id: DXB						
Beam id: XDD						
Group id: 122619330						
Group id: 122619331						
Group id: 122619367						
Group id: 122619368						
Group id: 122619369						
Group id: 122619370						
000000002	[A]	N	CHN/	SMARTSAT-3	14.03.2022	01
Beam id: UBV						
Beam id: XDD						
Group id: 122619363						
Group id: 122619364						

Control Box

- Show
- Clone
- Export
- Delete
- To SNS
- CFEX
- Validation
- Esub
- RS49/552

1

spacecap

Clone of Group. Do you wish to keep BR Findings?

Yes No

2 3

Both Yes or No are ok for notification

Question

Into which NOTICE do you want to clone this entity ?

1 / SMARTSAT-3 / CHN

OK Cancel

4

Question

Into which Beam do you want to clone this group ?

E / DBU

E / DXB

E / XDD

R / UBV

R / UXB

OK Cancel

5

Question

Into which Beam do you want to clone this group ?

E / XDD

OK Cancel

6

❖ Tips for notification

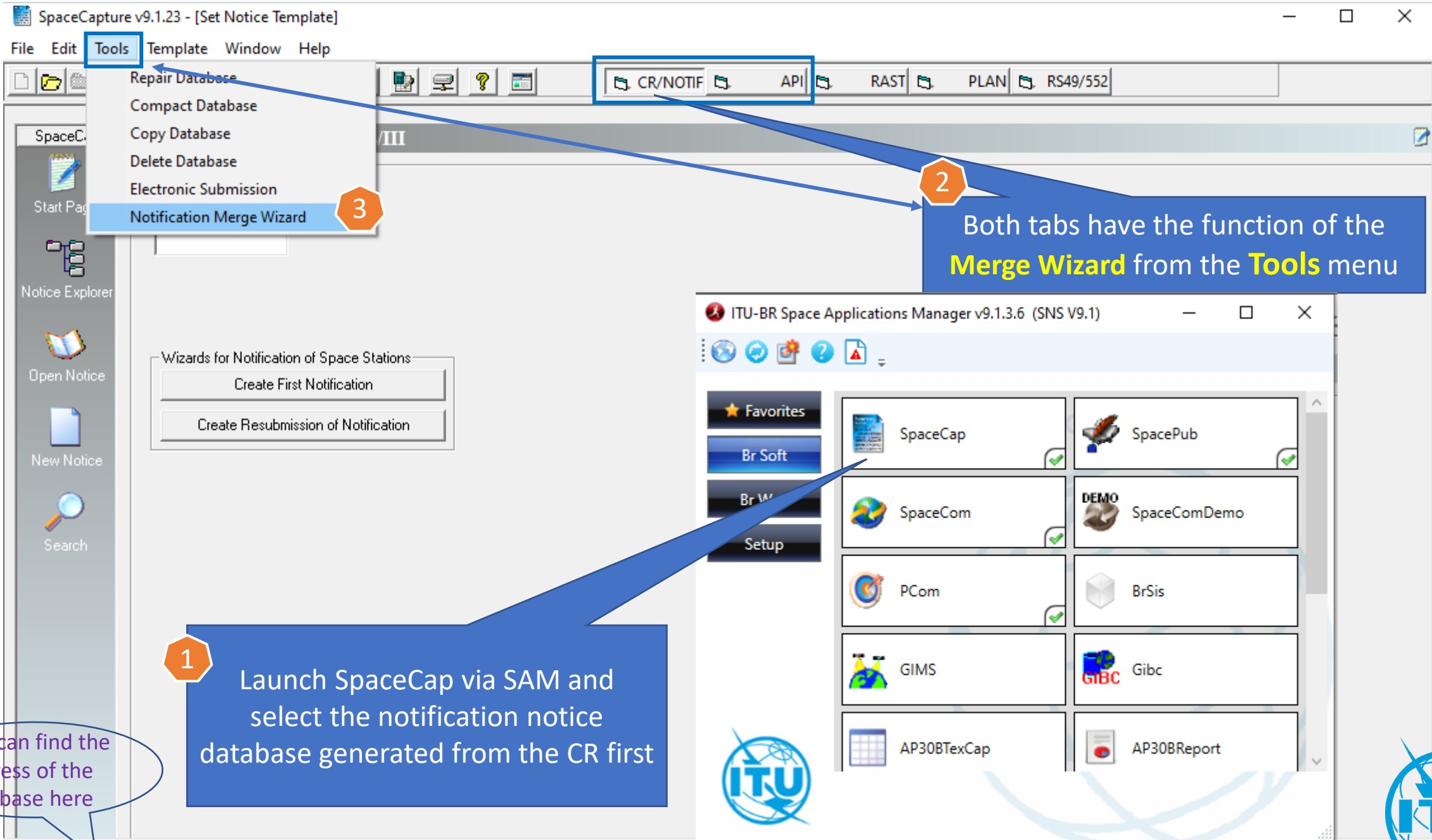
- Make sure that all the notice level information, as well as the orbital information for N-GSO, are identical or captured as intentional;
- In general, please clone the beams from the notification notice generated from API into the notification notice generated from the CR, since the CR parts normally contain more AP4 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**



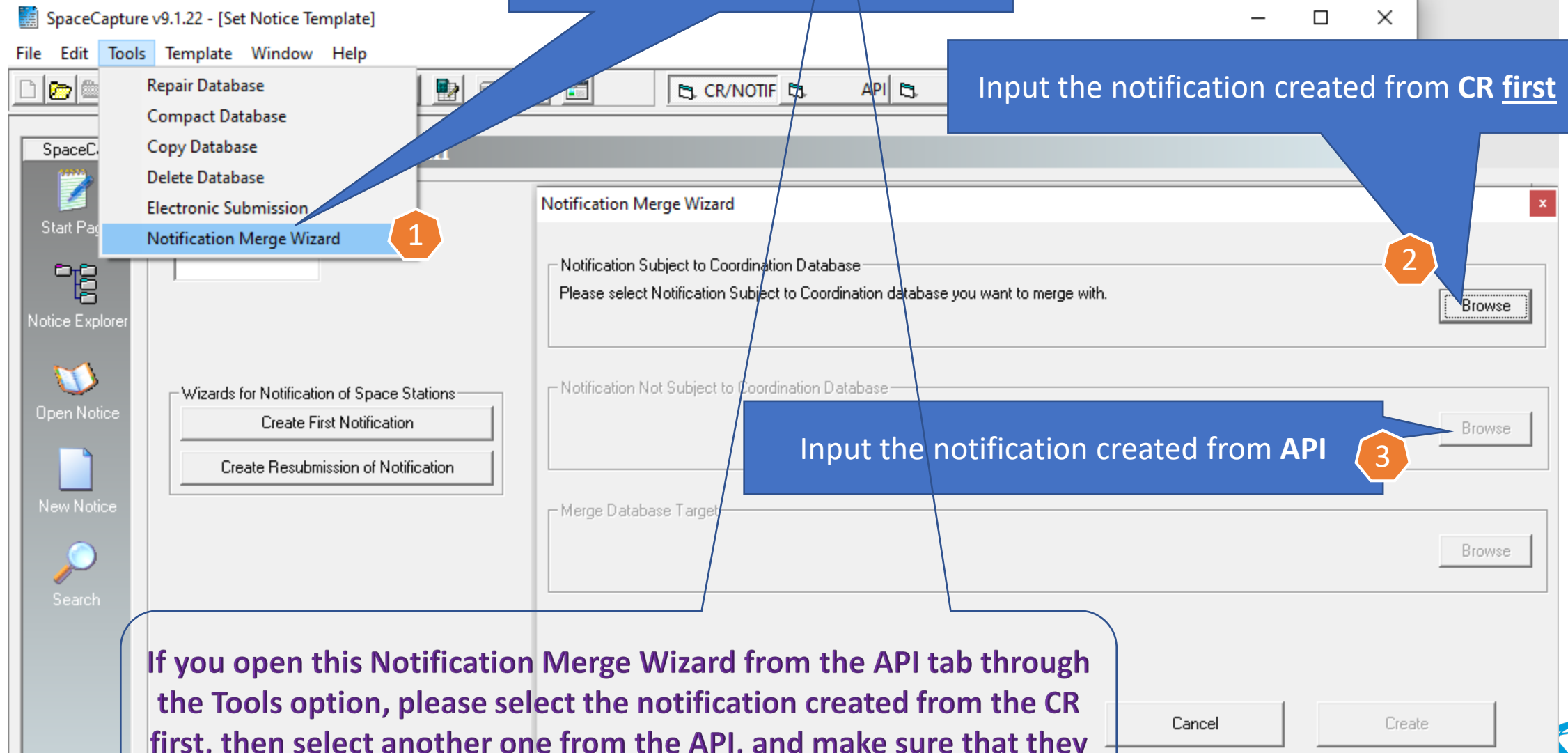
Both tabs have the function of the **Merge Wizard** from the **Tools** menu

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

Select Notification Merge Wizard from Tools

Input the notification created from CR first



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.

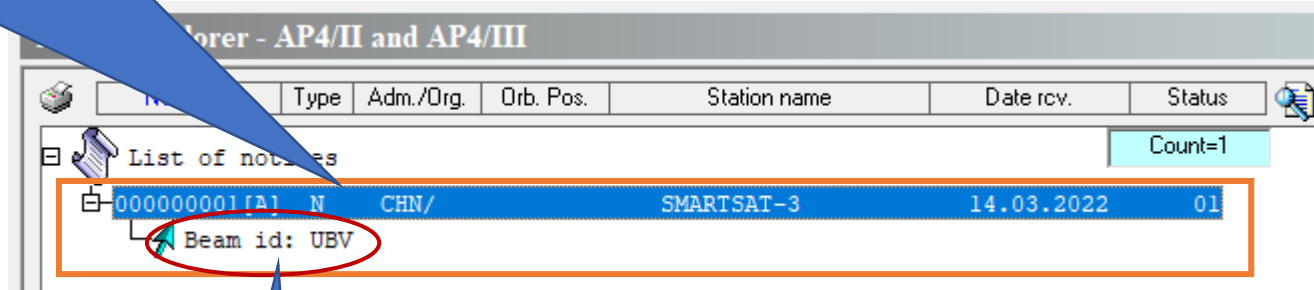
The screenshot shows the SpaceCap software interface. The main window is titled "Notice Explorer - AP4/II and AP4/III". It displays a table of notices with columns for Notice id, Type, Adm./Org, Orb. Pos, Station name, Date rcv, and Status. A list of notices is shown under "List of notices", with "Beam id: UBV" selected. A context menu is open over the selected beam, with "Rename Beam" highlighted. A blue callout bubble with the number "1" points to the "Rename Beam" option. To the right, a "Question" dialog box is open, titled "New Beam Name", with "UBVA" entered in the text field. A red callout bubble with the number "2" points to the text field. Below the dialog, a "spacecap" message box says "Rename Beam complete. Do you wish to refresh the Tlist?". A red callout bubble with the number "3" points to the "Yes" button in the message box.

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



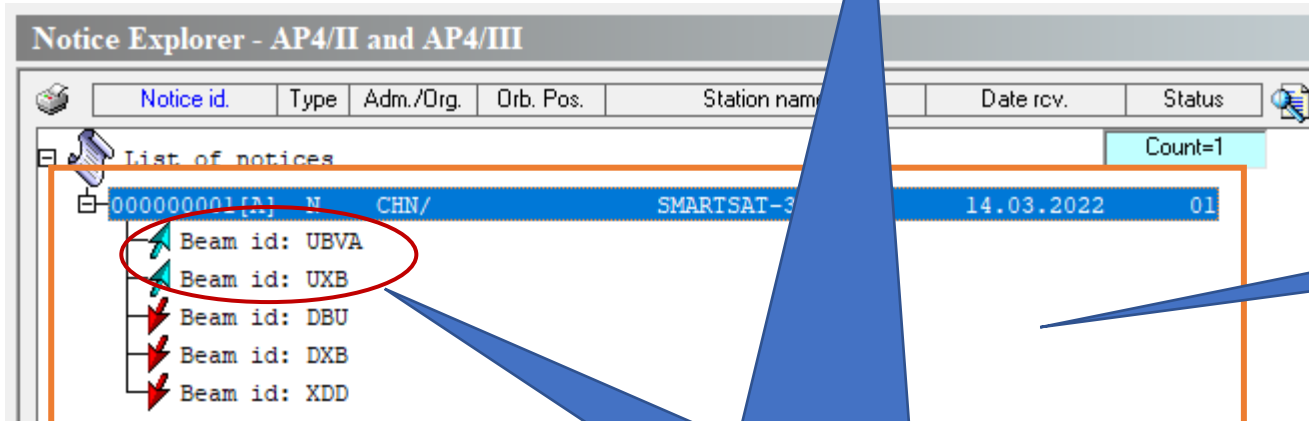
Before running the Merge Wizard

This is the notification notice database generated from the Coordination Request



Notice id.	Type	Adm./Org.	Orb. Pos.	Station name	Date rcv.	Status
000000001[2]	N	CHN/		SMARTSAT-3	14.03.2022	01

Beam id: UBV



Notice id.	Type	Adm./Org.	Orb. Pos.	Station name	Date rcv.	Status
000000001[2]	N	CHN/		SMARTSAT-3	14.03.2022	01

- Beam id: UBVA
- Beam id: UXB
- Beam id: DBU
- Beam id: DXB
- Beam id: XDD

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

The screenshot shows the 'Notification Merge Wizard' dialog box. It has several sections:

- Notification Subject to Coordination Database:** Contains the file path `C:\BR_SOFT\SRS_DB\srs2985\FirstNtf. SMARTSAT-3 - 20221128165213_CR.mdb` and a 'Browse' button.
- Notification Not Subject to Coordination Database:** Contains the file path `C:\BR_SOFT\SRS_DB\srs2985\FirstNtf. SMARTSAT-3 - 2022112816513.mdb` and a 'Browse' button.
- Merge Database Target:** A section with the instruction 'Please select the target database where you want the Merge Notice to be saved to.' and a 'Browse' button. This section is highlighted with an orange box and labeled with a '1' in an orange hexagon.
- Merge Database Target:** A section showing the selected target file path `C:\BR_SOFT\SRS_DB\srs2985\NtfMerge. SMARTSAT-3 - 20221207.mdb`. This section is highlighted with an orange box and labeled with a '3' in an orange hexagon. An orange arrow points from this section to the 'Merge Database Target' section above.
- Buttons:** 'Cancel' and 'Create' buttons are at the bottom. The 'Create' button is highlighted with an orange box and labeled with a '4' in an orange hexagon.

On the right side, a file explorer window is partially visible, showing a folder structure with subfolders 'API', 'RAST', 'PLAN', and 'RS49/552'.

A 'spacecap' dialog box is overlaid on the bottom right, containing the following text:

spacecap

?

Create merge notification to a new database:
'C:\BR_SOFT\SRS_DB\srs2985\NtfMerge. SMARTSAT-3 - 20221207.mdb'
Do you want to create it ?

Buttons: 'Yes' and 'No'. The 'Yes' button is highlighted with an orange box and labeled with a '2' in an orange hexagon.

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

Notice Station Beam

Notice Id: 1 AP4/II and AP4/III (Appendix 4 - Annex 2A) 28.07.2022 Status: 01

Notice submitted under/for:

- No. 9.6 Coordination
- No. 11.2 Notification First Notification
- No. 9.11A Applies
- Bands 21.4 to 22 GHz Special Procedure
- Specific Earth Station Coordination under No. 9.7A
- Earth Station Coordination under No. 9.21
- Earth Station Coordination between Administrations under No. 9.17

Subj. to Coord. Sect.II Art.9
 11.32
 11.32 + 11.32A
 Not Subj. to Coord. Sect.II Art.9

Date: DD.MM.YY 14.03.2022 Administration Serial Nbr

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

A1f3. Intergovernmental Satellite System

Notice intended for:
 Addition
 Modification
 Suppression
BR Identification No. of Station to be modified/suppressed

Type of Satellite Network or Earth Station

- GeoStationary Satellite Network
- NonGeoStationary Satellite Network

A5./A6. Coordination Agreements
Group Level Agreement

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

Notification Merge Wizard: Successfully Completed

Notification Merge database created successfully!
The database will be loaded automatically and the notice will be displayed at the Notice tab level.

OK

You can find the location of the database here

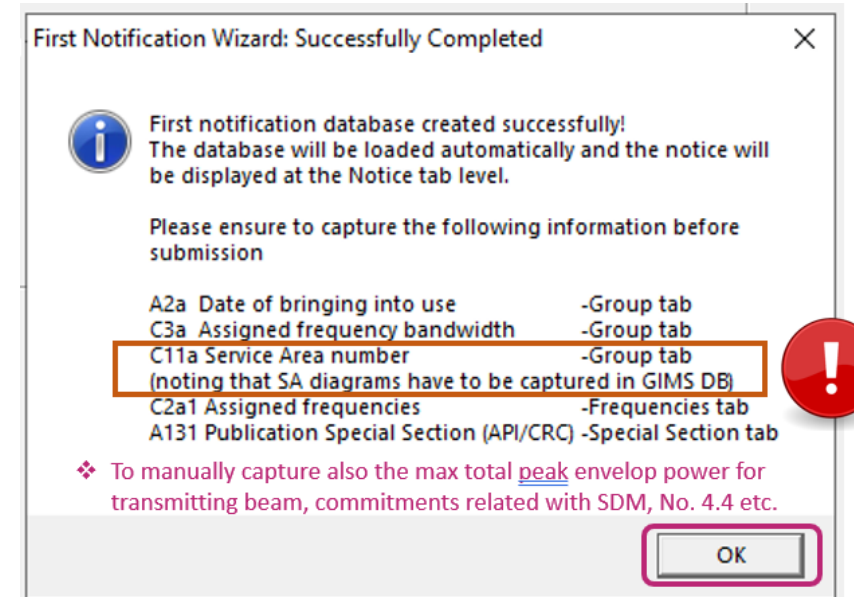


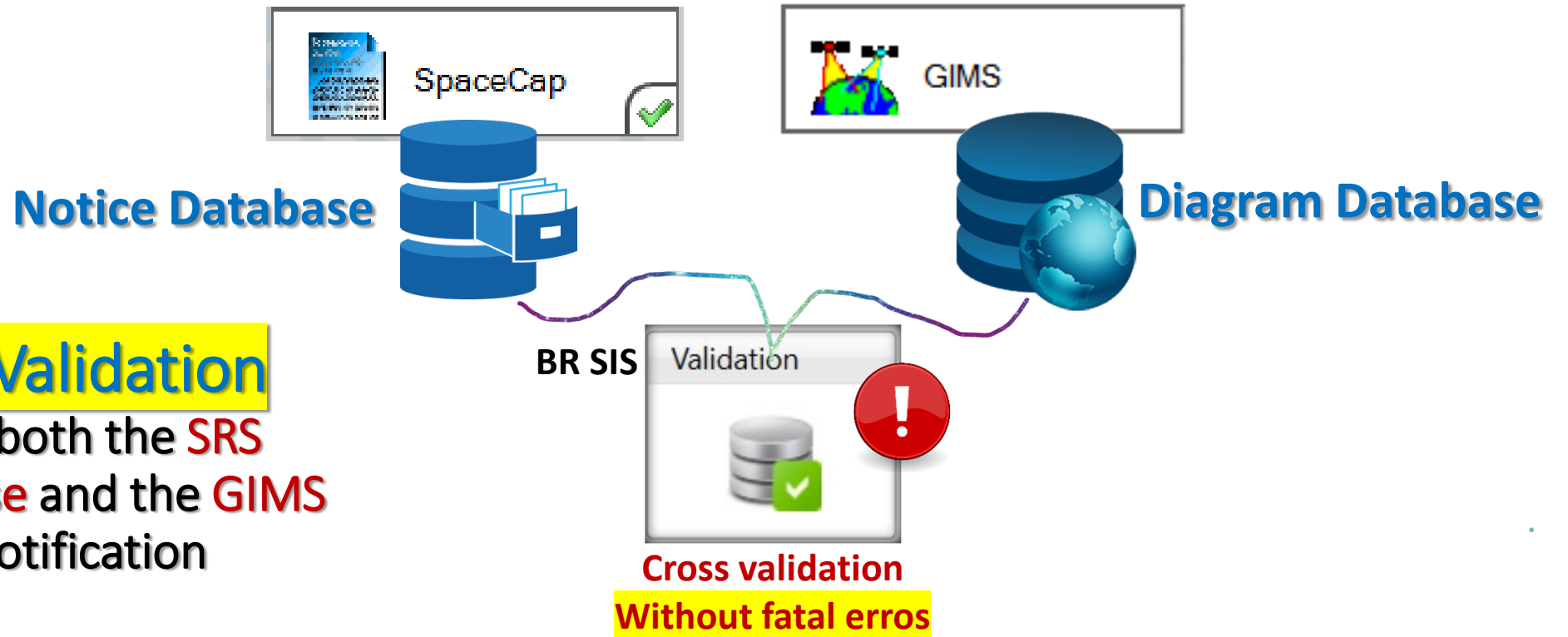
❖ Tips for notification

- 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:

- [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](#)





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