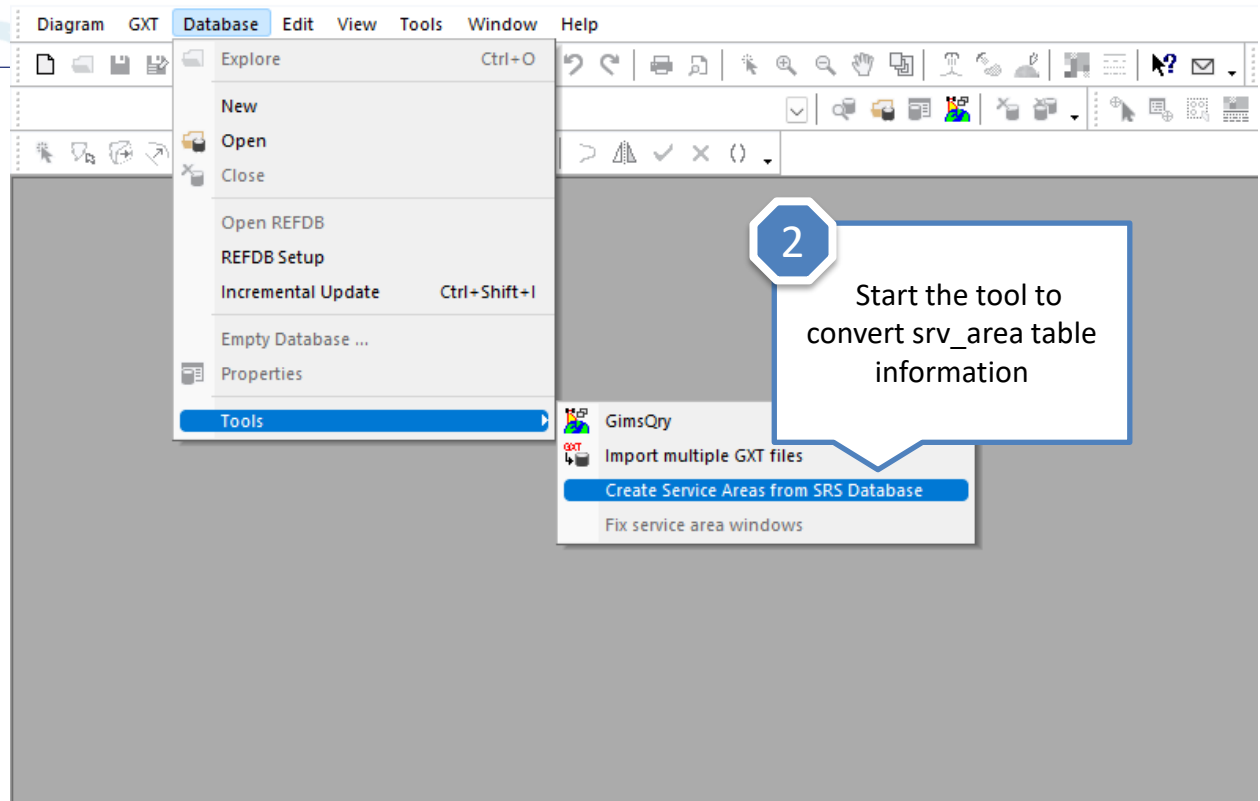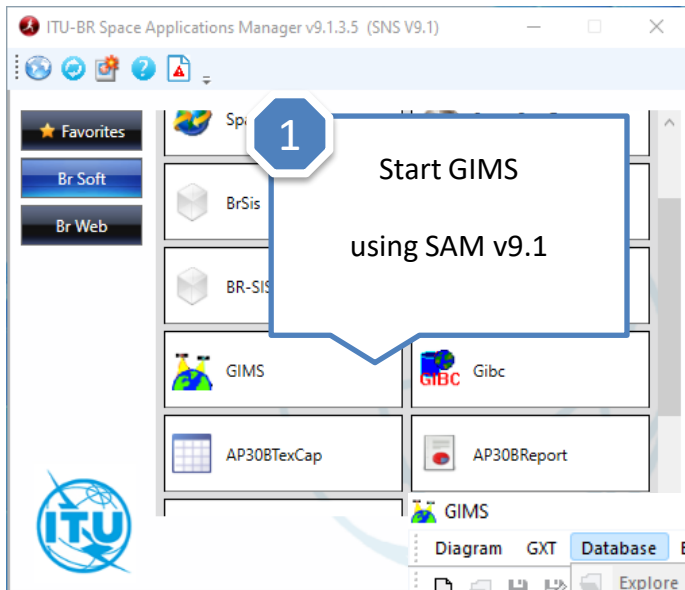# Conversion of Service Areas
from the srv_area table in the SRS notice database to service area diagrams in the GIMS database

**For submission of
Coordination Request and Notification
of Non-GSO satellite networks**

ITU BR SSD
2022 12

ITU-BR Space Applications Manager v9.1.3.5 (SNS V9.1)

Favorites
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1 Start GIMS

using SAM v9.1

GIMS

Diagram GXT Database Edit View Tools Window Help

Explore   Ctrl+O
New
Open
Close

Open REFDB
REFDB Setup
Incremental Update   Ctrl+Shift+I

Empty Database ...
Properties

Tools ▶
    GimsQry
    Import multiple GXT files
    Create Service Areas from SRS Database
    Fix service area windows

2 Start the tool to convert srv_area table information

1

Select the GIMS database where
the service area diagrams will be saved

Create Service Areas from SRS

Select target GIMS database:

Select SRS database:

2 ...

Choose a network :

Select the service areas to generate:

Select the SRS-formatted database containing service area
information (in the srv_area table)

**As the tool will update that database, ensure that you can write
into it. Clear the read-only flag in advance when necessary.**

OK   Cancel

1 Once the SRS database is selected, the tool displays the list of networks containing data in the srv_area table that could be converted to service area diagrams.
Should the selected database contain several relevant networks, choose the one you wish to process.

3 The contextual menu of the list can help you to select items in the list

Select SRS database:

C:\Users\User\Desktop\srs.mdb

Choose a network :

322500131 / N / SI-SAT-KURUKURU

Select the service areas to generate:

322500131|N|SI-SAT-KURUKURU	|SLM|UUL2B	|R|SA|1|1
322500131|N|SI-SAT-KURUKURU	|SLM|UUL3	|R|SA|1|1
322500131|N|SI-SAT-KURUKURU	|SLM|UUL3	|R|SA|2|1
322500131|N|SI-SAT-KURUKURU	|SLM|UUL3	|R|SA|3|1
322500131|N|SI-SAT-KURUKURU	|SLM|UUL3	|R|SA|4|1
322500131|N|SI-SAT-KURUKURU	|SLM|UUL3B	|R|SA|1|1
322500131|N|SI-SAT-KURUKURU	|SLM|UUL3B	|R|SA|2|1
322500131|N|SI-SAT-KURUKURU	|SLM|UUL3B	|R|SA|3|1
322500131|N|SI-SAT-KURUKURU	|SLM|UUL3B	|R|SA|4|1

Select All
Select all 'E'
Select all 'R'
Unselect All
Toggle Selection
Remove All
Remove Selected

OK

4 Click OK when you are ready to start the conversion.

2 Once a network is selected, the tool displays information about the service areas that it is going to create. **Only the selected service areas will be created**. By default, they are all selected.

Each line represents the key information that will be identifying a service area diagram in the GIMS database
notice ID | notification reason | network name | admin. code | beam name | Emission/Reception flag | diagram type | **area number** | picture number (not relevant)
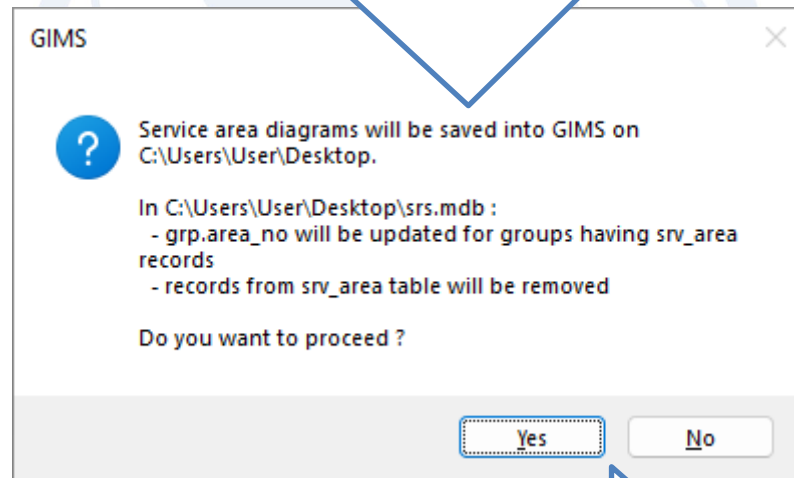
1

Before starting the conversion, a message summarizes the actions that the tool will perform.

It will update the SRS database by removing the content of the srv_area table. The geographical area codes that had been captured in this table will be used to create service area diagrams in the selected GIMS database.
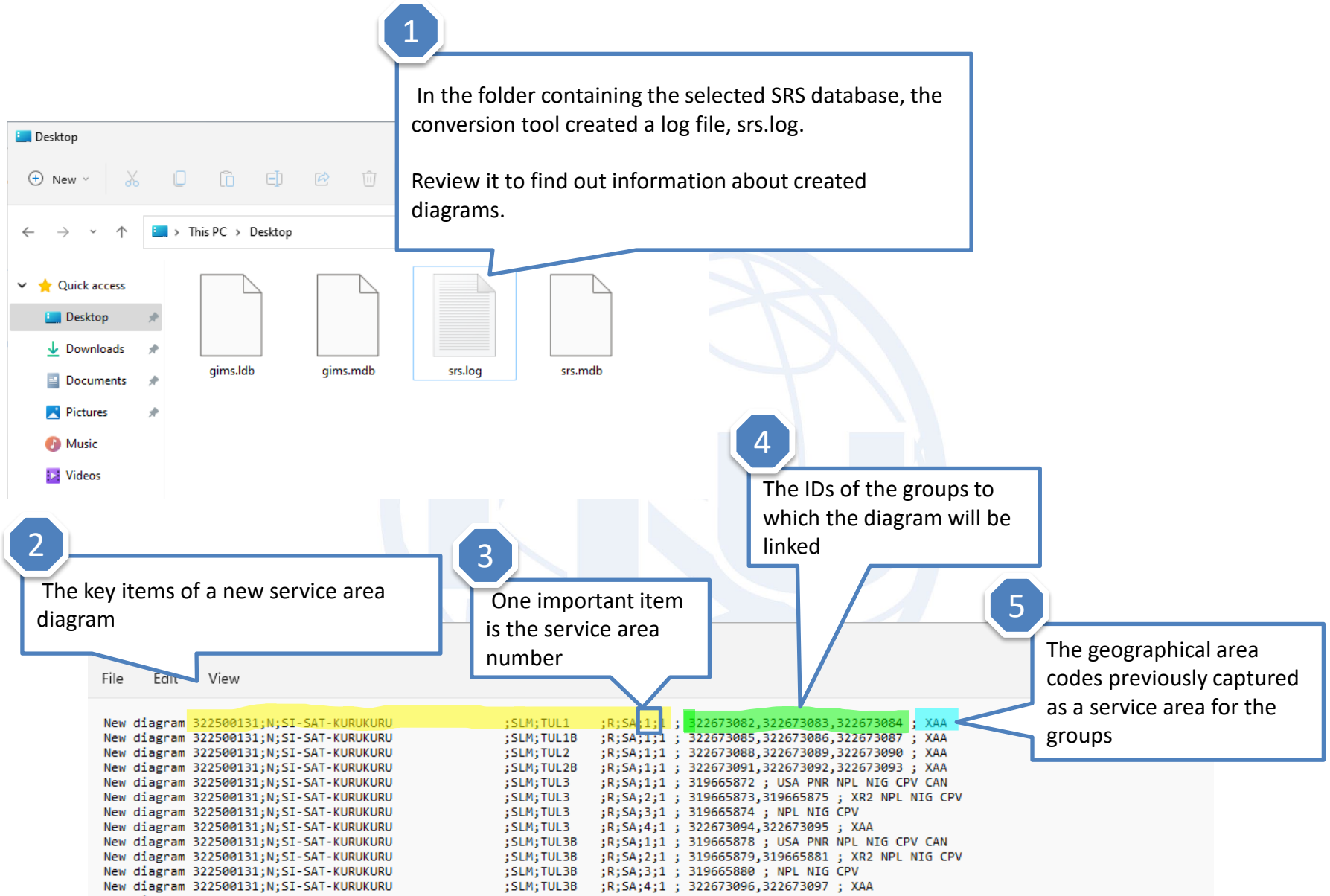
In GIMS, a service area number is identifying each service area diagram and this number will also be inserted in the area number field at the group level (grp.area_no database field)

GIMS   ✕

?   Service area diagrams will be saved into GIMS on
C:\Users\User\Desktop.

In C:\Users\User\Desktop\srs.mdb :
 - grp.area_no will be updated for groups having srv_area records
 - records from srv_area table will be removed

Do you want to proceed ?

[Yes]   [No]

2

Click Yes to proceed with the conversion.
Click No to cancel.

1

In the folder containing the selected SRS database, the conversion tool created a log file, srs.log.

Review it to find out information about created diagrams.

Desktop

+ New | ✂ | 🗋 | 🗎 | ⬇ | ↗ | 🗑

← → ∨ ↑ | 📁 > This PC > Desktop

∨ ⭐ Quick access
  🖥 Desktop 📌
  ⬇ Downloads 📌
  📄 Documents 📌
  🖼 Pictures 📌
  🎵 Music
  ▶ Videos

gims.ldb   gims.mdb   srs.log   srs.mdb

4

The IDs of the groups to which the diagram will be linked

2

The key items of a new service area diagram

3

One important item is the service area number

5

The geographical area codes previously captured as a service area for the groups

File   Edit   View

```
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL1    ;R;SA;1;1 ; 322673082,322673083,322673084 ; XAA
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL1B   ;R;SA;1;1 ; 322673085,322673086,322673087 ; XAA
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL2    ;R;SA;1;1 ; 322673088,322673089,322673090 ; XAA
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL2B   ;R;SA;1;1 ; 322673091,322673092,322673093 ; XAA
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3    ;R;SA;1;1 ; 319665872 ; USA PNR NPL NIG CPV CAN
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3    ;R;SA;2;1 ; 319665873,319665875 ; XR2 NPL NIG CPV
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3    ;R;SA;3;1 ; 319665874 ; NPL NIG CPV
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3    ;R;SA;4;1 ; 322673094,322673095 ; XAA
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3B   ;R;SA;1;1 ; 319665878 ; USA PNR NPL NIG CPV CAN
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3B   ;R;SA;2;1 ; 319665879,319665881 ; XR2 NPL NIG CPV
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3B   ;R;SA;3;1 ; 319665880 ; NPL NIG CPV
New diagram 322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3B   ;R;SA;4;1 ; 322673096,322673097 ; XAA
```
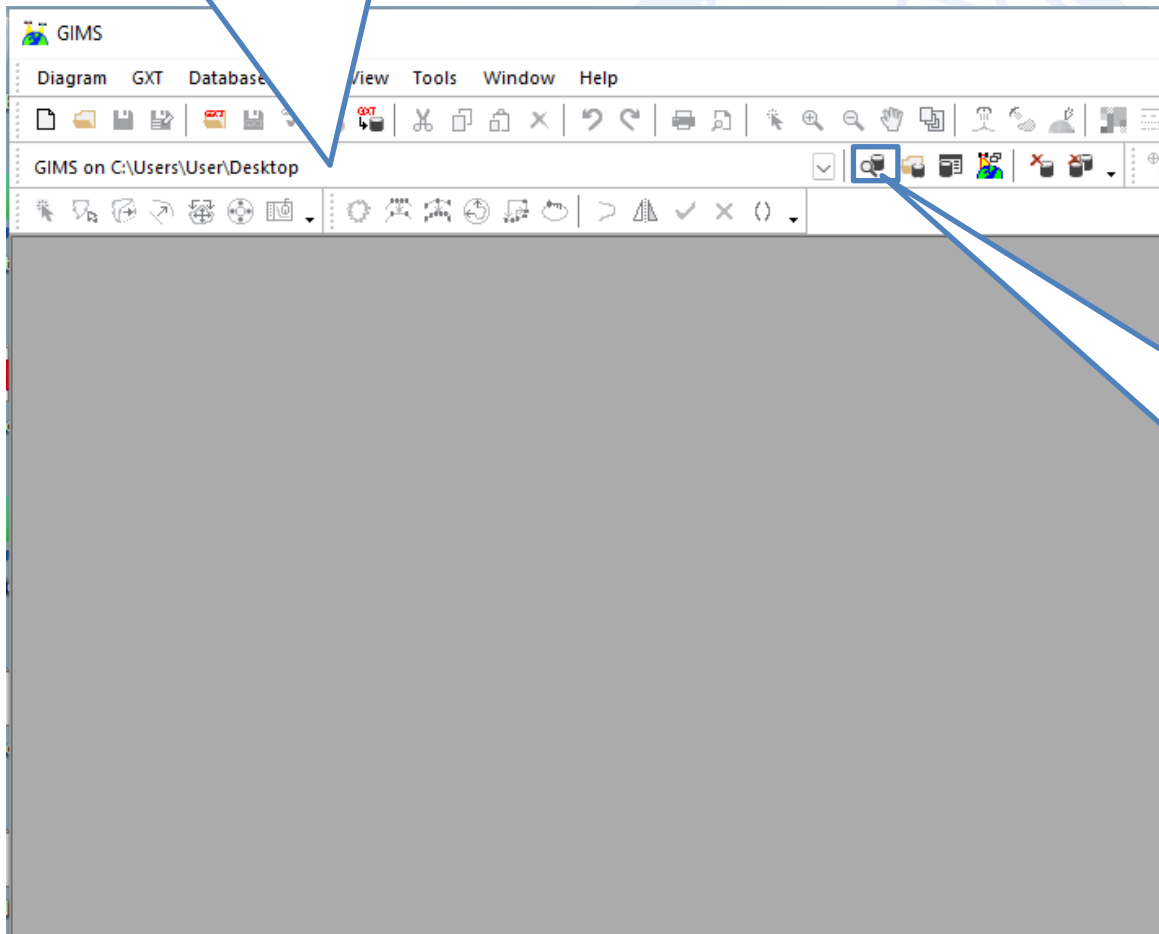
1

When the conversion is completed, the GIMS database containing the newly created service area diagrams is opened.

Let's see how to view the created diagrams

2

You can browse the database content by clicking on this icon.
Alternatively, you can select the menu item **Diagram | Open**.

This will open the Database Explorer.

1 Choose to view non-geostationary satellites diagrams

3 Check the "Service Area (C11a)" box.

This is the service area number

2 Expand a beam until you see the service area diagrams

5 Click OK to open the selected diagrams

4 These are the "checked" diagrams that will be opened

ktop\gims.mdb

Browse for ...
- ○ Geostationary Satellites
- ● Non-geostationary Satellites

Notice ID:

Filter by
Administration

☐ Apply last filters at startup

Filter Off

Select only :
- ☑ Antenna Gain vs Elevation Angle (B4b2)
- ☑ Spreading Loss vs Elevation Angle (B4b3)
- ☑ Earth Station Radiation Pattern (C10d5a)
- ☑ Spectrum Mask Diagram (C9c2)

Ignore :
- ☐ C (Co-polar)
- ☐ X (Cross-polar)
- ☐ E (Emission = Down Link)
- ☐ R (Reception = Up Link)

Notice	Reason ↻	Admin. ↻	Satellite Name
2500131	N	SLM	SI-SAT-KURUKURU
○ TUL1			
○ TUL1B			
○ TUL2			
○ TUL2B			
☐ ○ TUL3			
☑ ○ TUL3B			
☑ Service Area (C11a)			
☑ 1 / 1 - SERVICE AREA			
☑ 2 / 1 - SERVICE AREA			
☑ 3 / 1 - SERVICE AREA			
☐ 4 / - SERVICE AREA			
☐ ○ UUL1			
☐ ○ UUL1B			
☐ ○ UUL2			

```
322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3B  ;R;SA;1;1
322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3B  ;R;SA;2;1
322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3B  ;R;SA;3;1
322500131;N;SI-SAT-KURUKURU          ;SLM;TUL3B  ;R;SA;4;1
```

OK   Cancel

1 To view the key items identifying a diagram

2 The service area number

GIMS - 322500131.N.SI-SAT-KURUKURU .SLM.TUL3B .R.SA.2.1 from GIMS on C:\Users\User\Desktop

Diagram | GXT | Database | Info Points | Edit | View | Capture | Win

New...	Ctrl+N	
Open...	Ctrl+O	
Close		
Save	Ctrl+S	
Save As...		
Import GXT File	Ctrl+Shift+O	
Export to GXT File	Ctrl+Shift+S	
Validate		
View GXT	Ctrl+G	
Show Key		
Show History		
Titles and Legends		
Print...	Ctrl+P	
Print Multiple...		
Print Preview		
Page Setup...		

1 322500131.SI-SAT-KURUKURU.TUL3B.4.1 (SA) - GIMS
2 322500131.SI-SAT-KURUKURU.TUL3B.3.1 (SA) - GIMS
3 322500131.SI-SAT-KURUKURU.TUL3B.2.1 (SA) - GIMS
4 322500131.SI-SAT-KURUKURU.TUL3B.1.1 (SA) - GIMS
5 121520204.IK-49.5W.KUT.C.0 (GSO) - GREFDB2985
6 121520204.IK-49.5W.KUT.C.1 (CO,SA) - GREFDB2985

Exit

SERVICE AREA

Diagram Keys

Service Area (C11a) keys

Notice ID	322500131
Notification Reason	N (Notification)
Administration	SLM
Satellite Name	SI-SAT-KURUKURU
Beam Name	TUL3B
Emission / Reception	R (Reception = Up Link)
Diagram Number	1
Diagram Type	Service Area (C11
Comment	

Close

For Help, press F1

CAP NUM

Note:
- There may be different service areas with different service area numbers within the same beam, captured for different groups.
- One group can have only one service area.
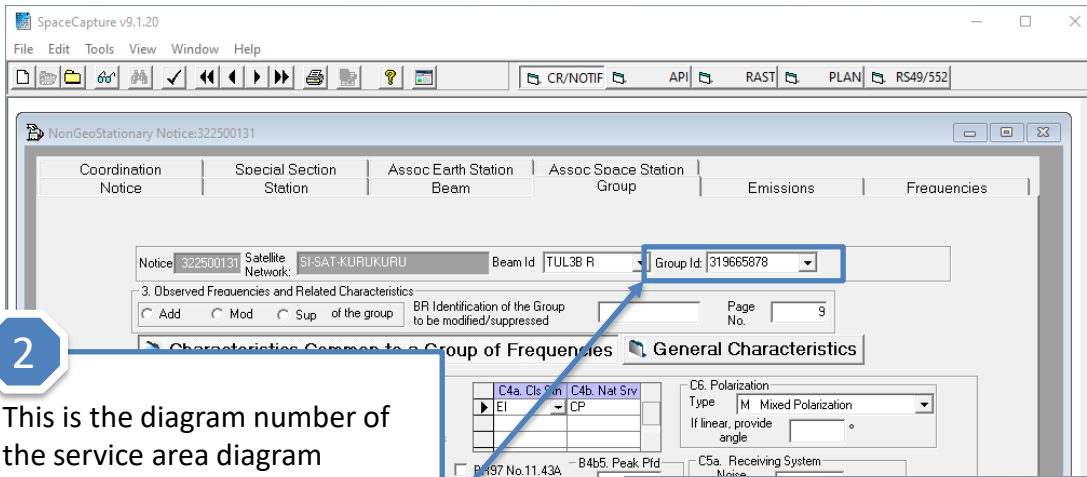
2 This is the diagram number of the service area diagram associated to this group.

1 You can also open the converted SRS notice database with SpaceCap and review the group data.
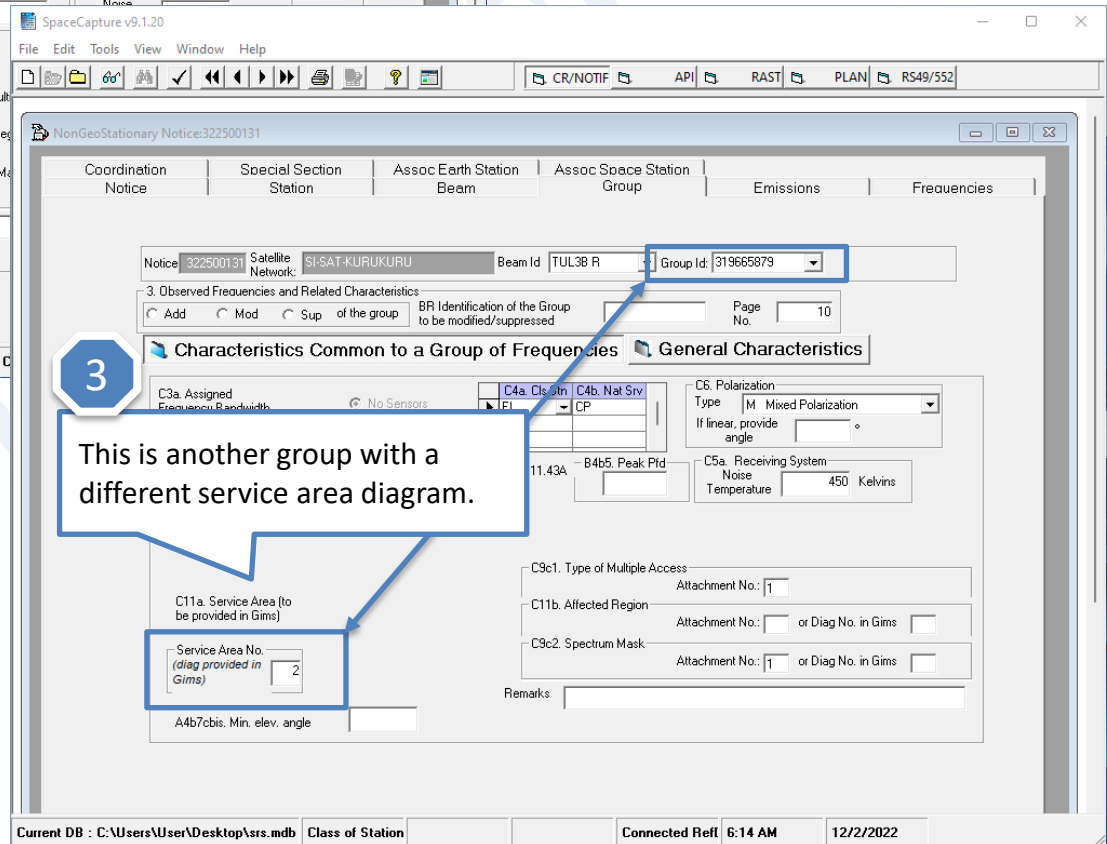
**3** This is another group with a different service area diagram.

Invalid Codes ?

The most common problem is when the conversion tool encounters geographical codes with which it cannot be processed.
They may be wrong codes not corresponding to any known countries or regulatory areas.
For instance, some old country codes are no longer in use.
They could also be valid codes, described in the Preface, but that cannot be converted to geographical areas.
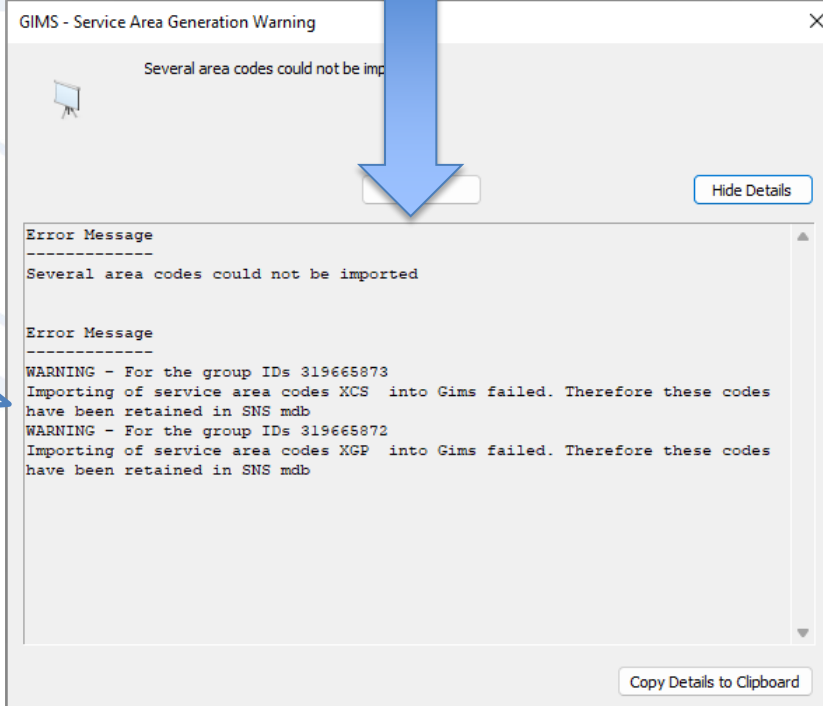
When this message is displayed at the end of the conversion process, click the **Show Details** button.

GIMS - Service Area Generation Warning

Several area codes could not be imported
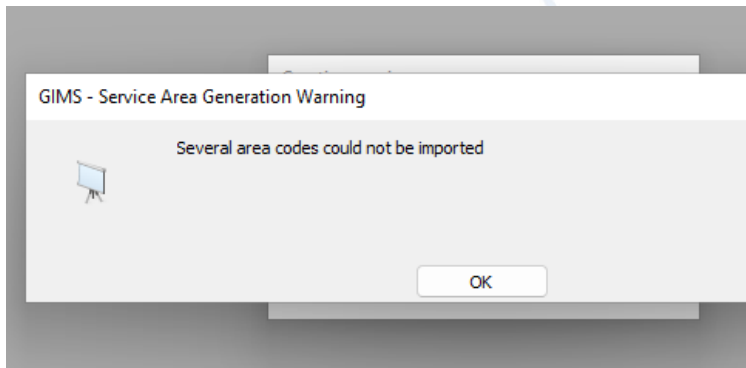
OK   Show Details

2

For the groups with such erroneous codes, the conversion does not create any service area diagrams in GIMS and **all (valid as well as invalid)** codes are retained in the srv_area table in the SRS database.

GIMS - Service Area Generation Warning   ✕

Several area codes could not be imp

Hide Details

```
Error Message
-------------
Several area codes could not be imported


Error Message
-------------
WARNING - For the group IDs 319665873
Importing of service area codes XCS  into Gims failed. Therefore these codes
have been retained in SNS mdb
WARNING - For the group IDs 319665872
Importing of service area codes XGP  into Gims failed. Therefore these codes
have been retained in SNS mdb
```

Copy Details to Clipboard

Possible Solutions

1 For NGSO networks submitted for coordination or notification SpaceCap v9.1 does not show the service area information anymore Therefore, to solve the invalid codes issue you will have to resort to using MS Access and correct the srv_area table data.

3 Edit the invalid code or remove it.

2 Double-click the table named "srv_area".

4 Re-run the conversion using the same SRS and GIMS database.

Thank you!

ITU – Radiocommunication Bureau

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