




## BR Space Databases

Akim FALOU DINE  
(ITU-BR/SSD/SPR)  
Akim.faloudine@itu.int






Union internationale des télécommunications



UIT - UAT SÉMINAIRE RÉGIONAL  
DES RADIOCOMMUNICATIONS  
POUR L'AFRIQUE

**NIAMEY, NIGER**  
**20-24 AVRIL 2015**

[www.itu.int/go/ITU-R/seminars](http://www.itu.int/go/ITU-R/seminars)



Organisé par:



# BR Space Databases

Why?

- Purpose of BR databases and Software

what are they?

- What is in BR Databases?

Format and Version

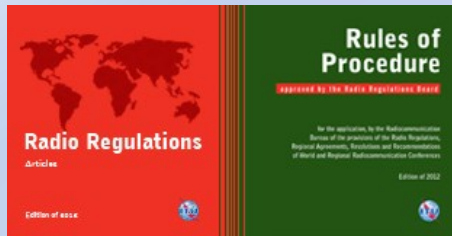
- SNS Format and Versioning



# Purpose of BR Databases and Software

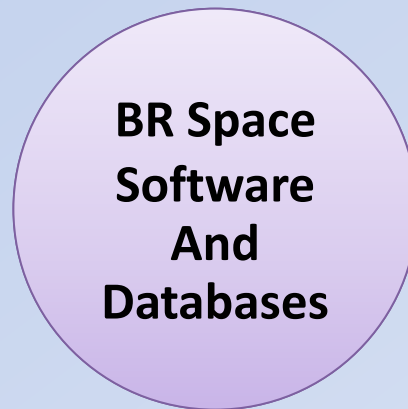
## Radio Regulations

Incorporate the decisions of the World Radiocommunication Conference



## Rules of Procedure

Complement the RR by providing clarification of the application of particular Regulations



Streamline the Implementation of the RR and Rules of Procedure



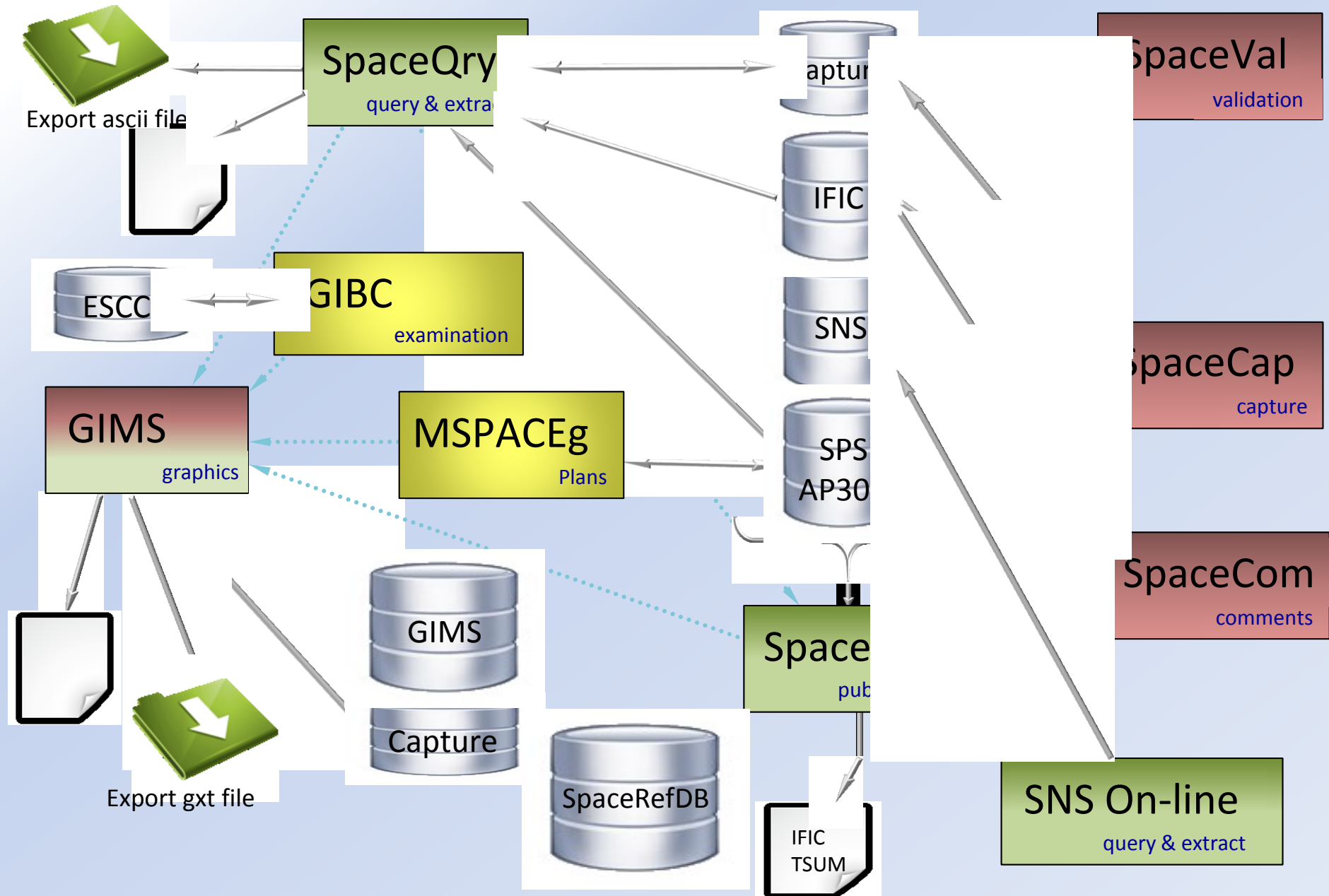
Help you prepare electronic filings according to the RR



Process the electronic filings sent to the BR



# Space Network System





# BR Space Databases

Why?

- Purpose of BR databases and Software

what are they?

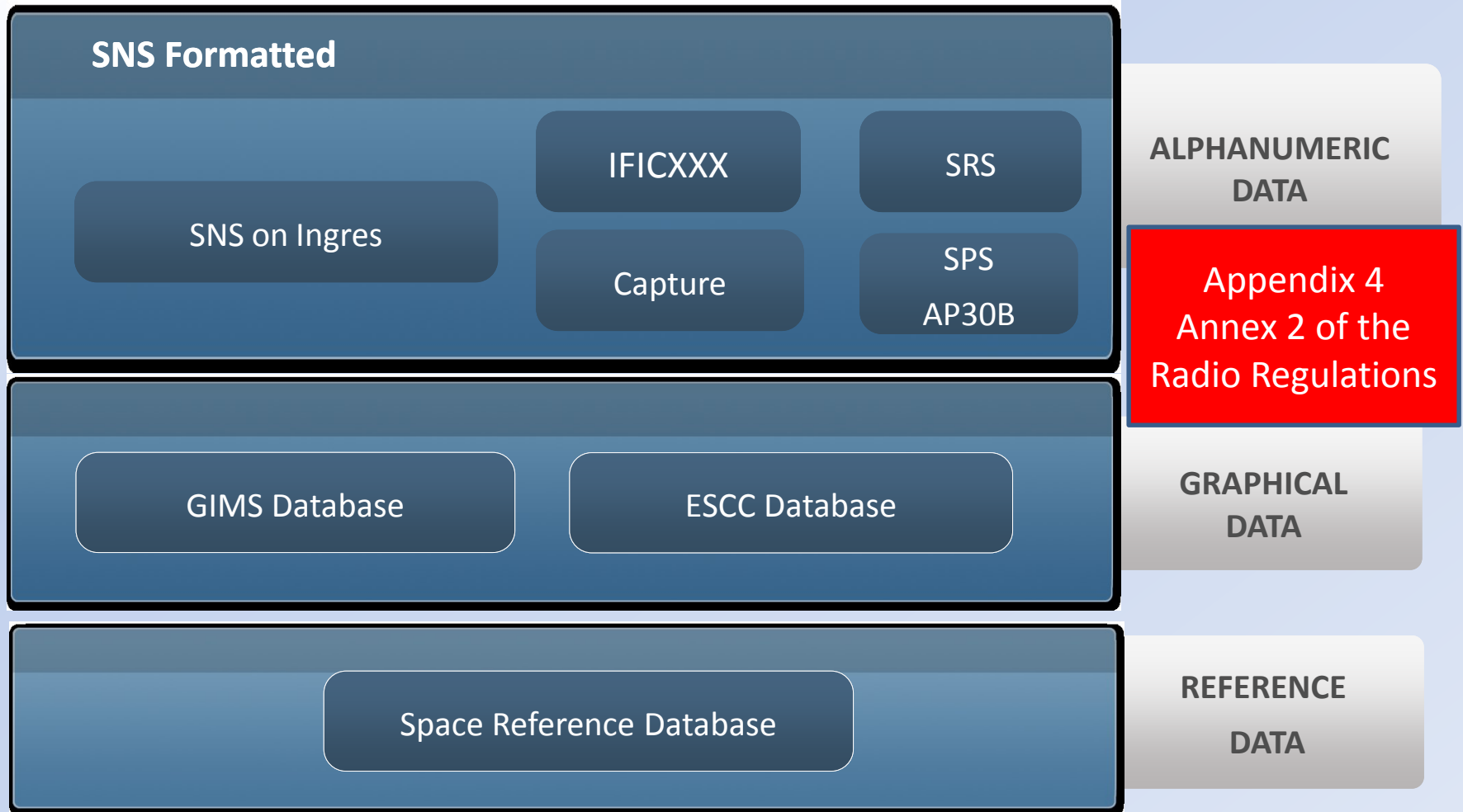
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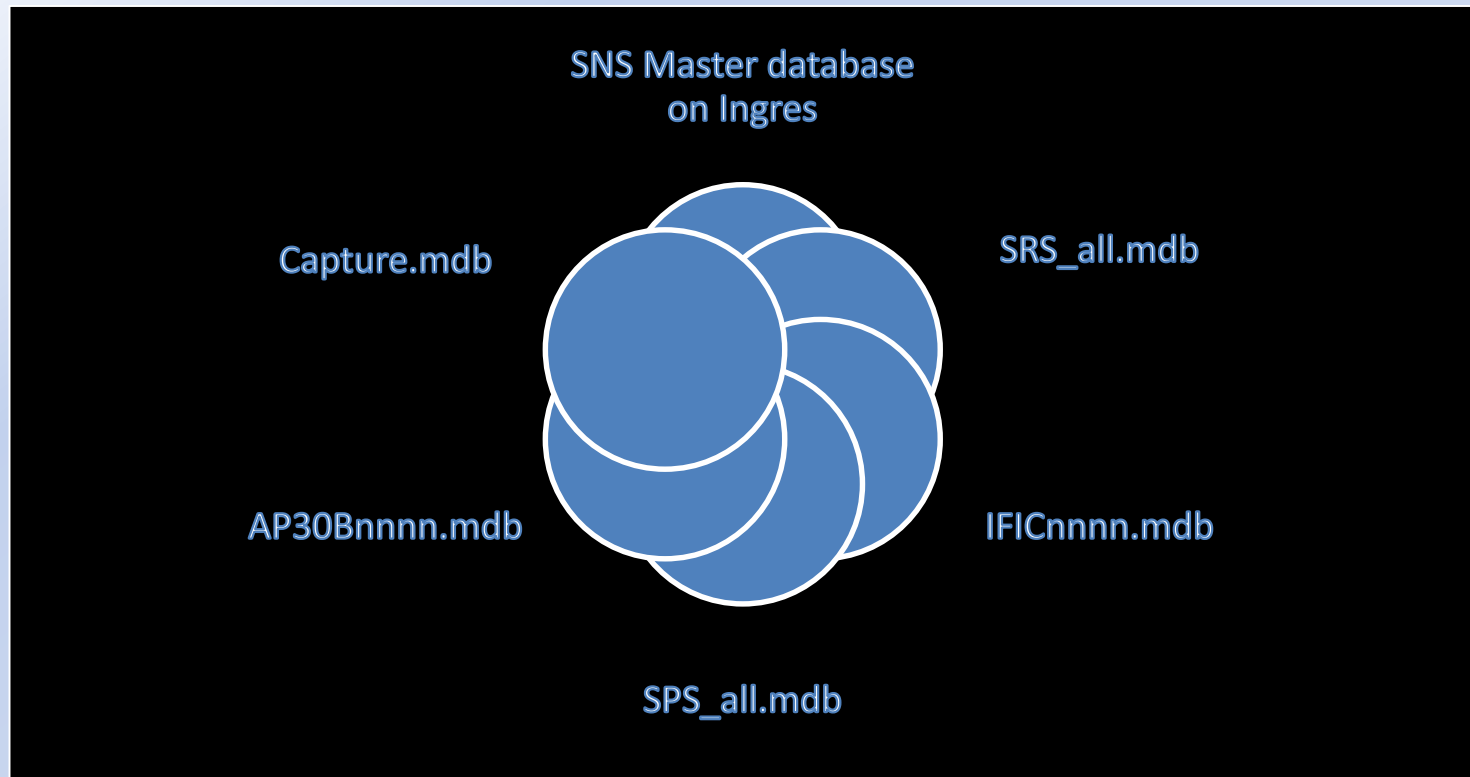


# BR Space Databases





# BR SNS Format databases



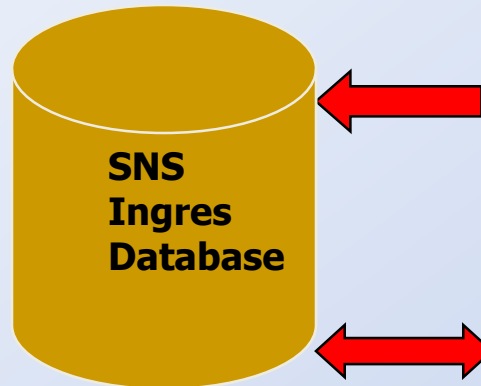


# SNS Databases

## SNS Master Database On Ingres

in the Master Register

- Coordination and Notification
- Advance Publication
- Resolution 49



- Electronic Filings received by the BR
  - New assignments
  - Mod of existing
  - Delete existing
- Notifications in technical Examination





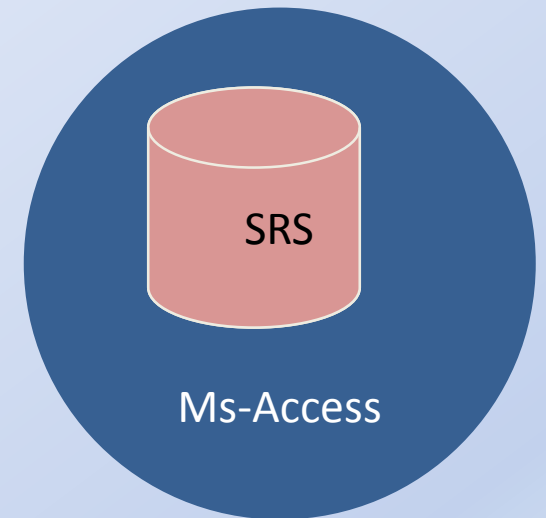
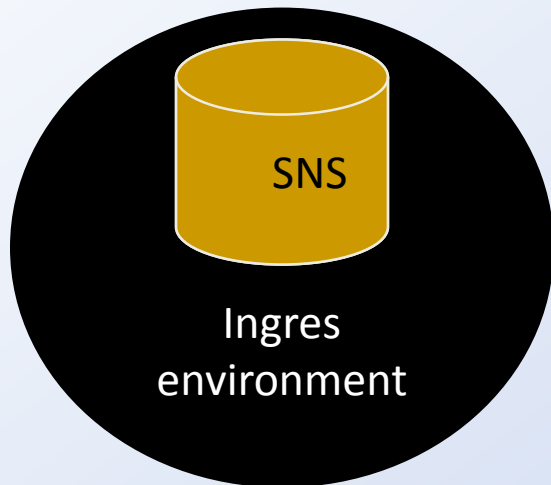


# SNS Databases

## SRS\_all.mdb on the BR SPACE IFIC DVD

- Published every IFIC DVD
- Snap-shot of the SNS Master Database

- Coordinations and Notifications in the **Master Register**
- in **Technical Examination**
- for **Advance Publication**
- for **Resolution 49**

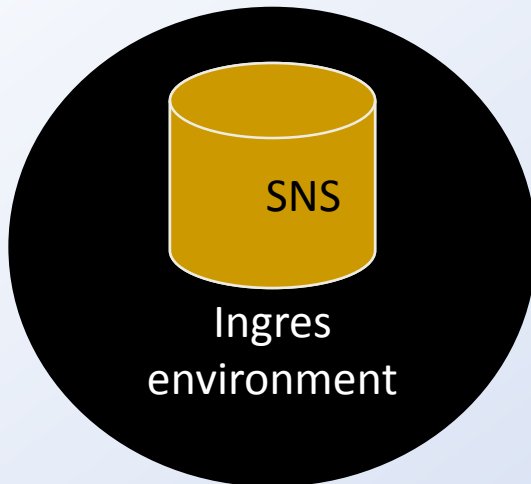




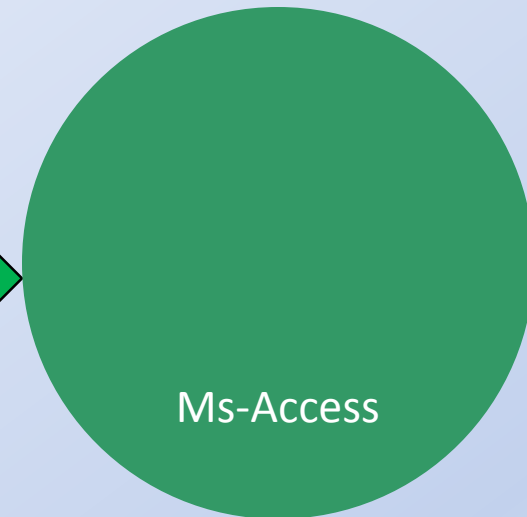
# SNS Databases

## IFICnnnn.mdb on the BR IFIC DVD

- **Published every 2 weeks**



- **Part IS** – new frequencies or modifications, cancellations of assignments in the Master Register received by the BR
- **Part IIS** – Updates to the Master Register with Findings
- **Part IIIS** – Notifications returned to ADM with unfavourable findings
- **Special Sections** – Notifications published API/A, CR/C, API/B, CR/D, CR/E, CR/F





# SNS Databases

## SPS\_ALL.mdb on the BR IFIC DVD

### Published on the IFIC

- Appendices 30/30A
  - Region 1 and 3 Plan, List and Pending Article 4 networks
  - Article 2a of Appendices 30 and 30A
- RARC SAT-R2 Region 2 Plan
- Article 5 of Appendices 30 and 30A
- Resolution 49



- Download from

<http://www.itu.int/en/ITU-R/space/plans/Pages/default.aspx>



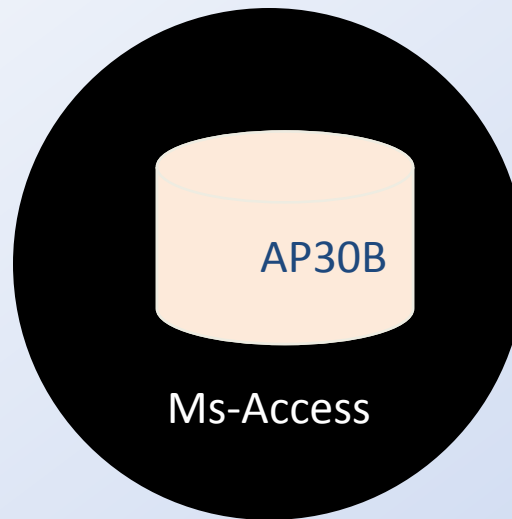
# SNS Databases

## Appendix 30B Database on the BR IFIC DVD

### Published on the IFIC

- **Appendix 30B**

- Plan, List and Pending Article 6 networks
- Article 8 of Appendix 30B

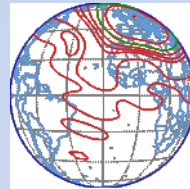


- Download from <http://www.itu.int/en/ITU-R/space/plans/Pages/default.aspx>



# Graphical Data

- **Gims diagrams**
  - **Appendix 4 – GSO and Non GSO Satellites**
  - **Contains Graphical data for both Non-plan and Plan**



- **ESCC Diagrams**
  - **Earth Stations Coordination Contours**

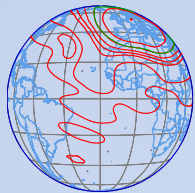


# Graphical Data

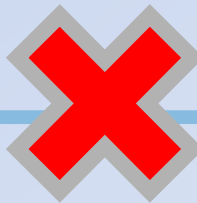
## GIMS Format

- Where to find information on the GXT file format?
  - Section III Chapter 2 of the Space Preface
- Circular Letter 337

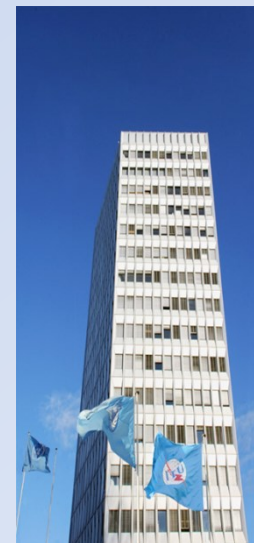
The BR would like you to submit graphical data in the form of the GIMS database. GXT files will no longer be accepted in 2013!



GXT File Format  
in Preface



January 1<sup>st</sup>, 2013





# Graphical Data

## ESCC Database

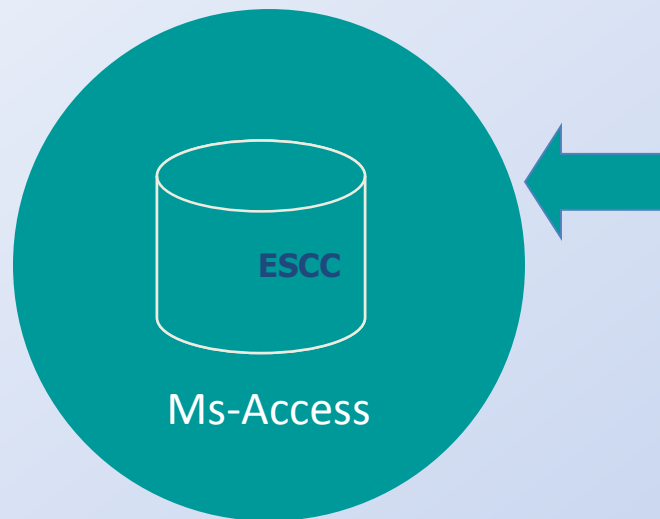
### Master repository for Earth Station Coordination Contours

#### Graphical Data for Earth Stations

- used in-house
- used by Technical Examination software
- Available via SNS Online

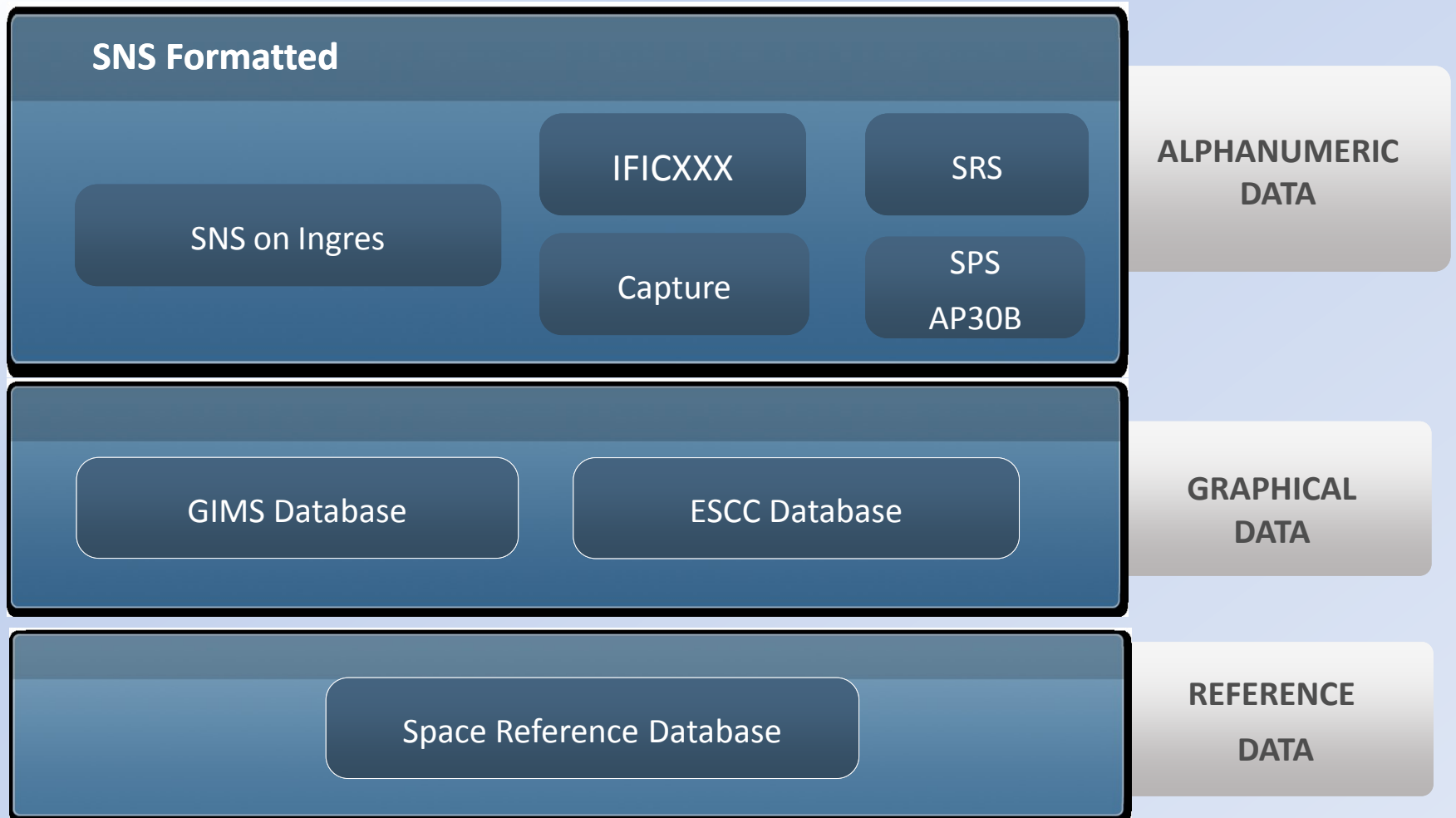


Generated by the  
Appendix 7 software





# BR Space Databases

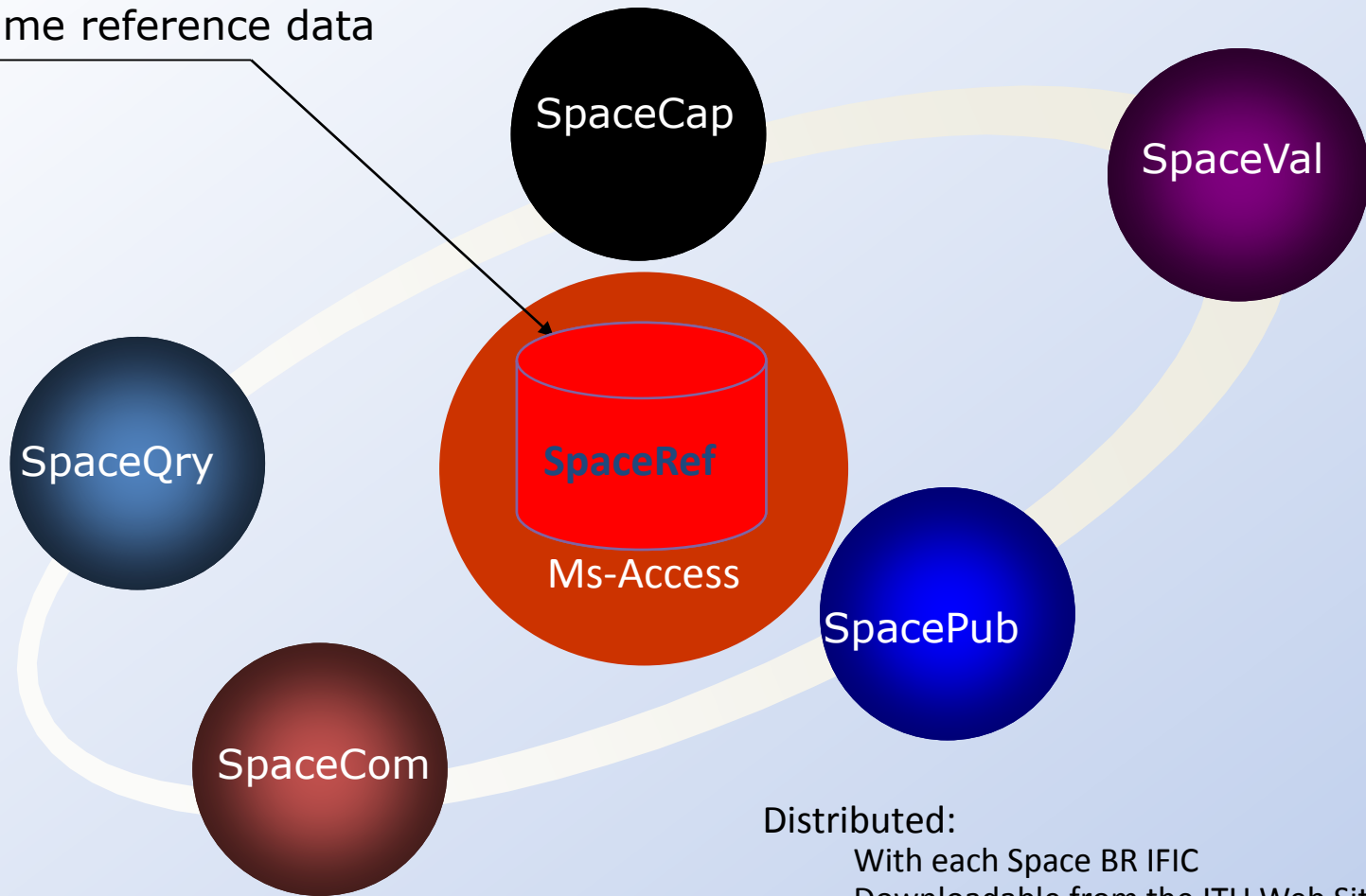






# Space Reference Database

Ensures all BR Soft use  
The same reference data



Distributed:

With each Space BR IFIC

Downloadable from the ITU Web Site



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- SNS Format and Versioning



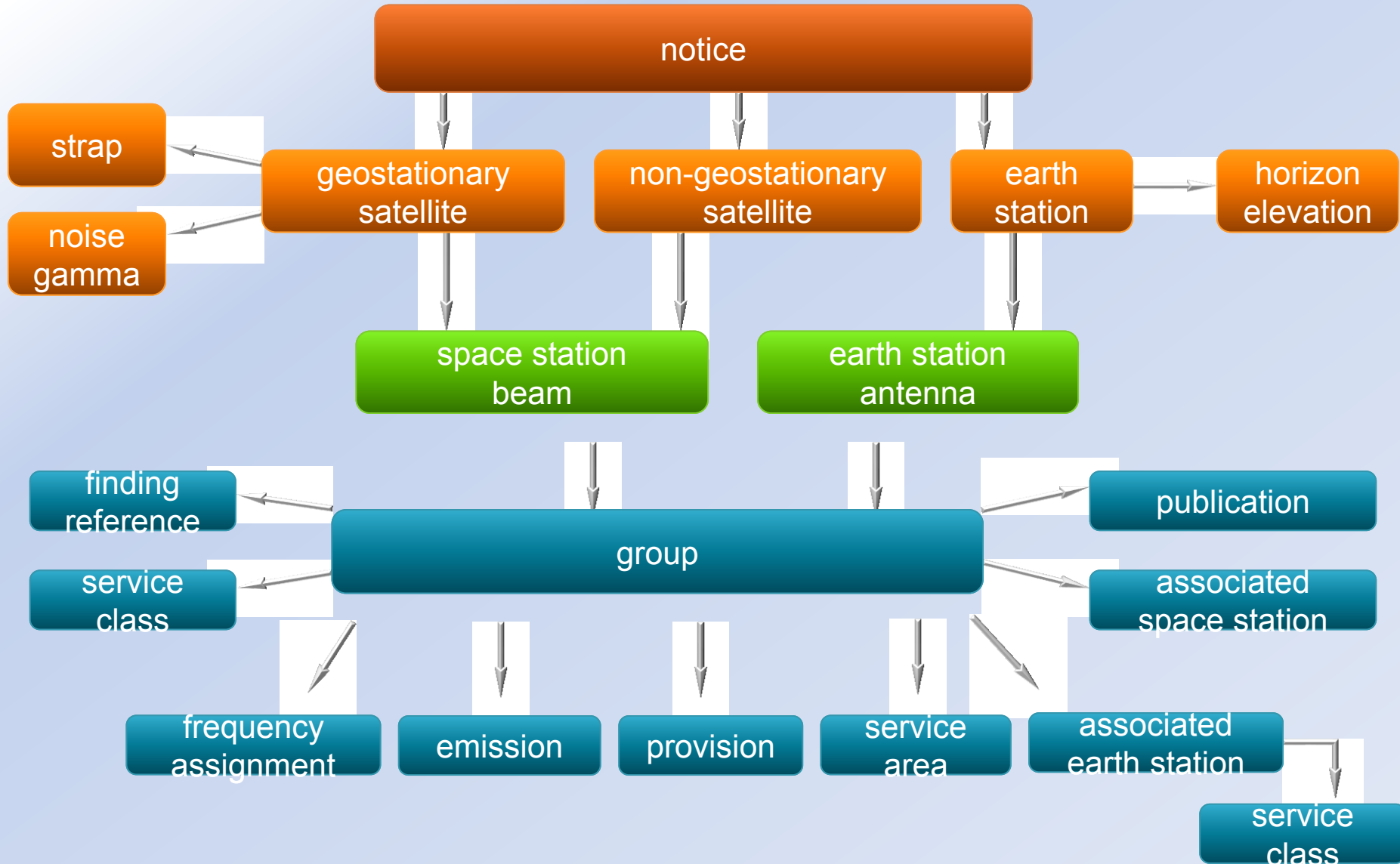
# SNS Format version 7

- Each World Radio Communication Conference introduces new resolutions and changes to the Radio Regulations
  - **Decisions taken at WRC 2007 : v 6.1** (e.g. AP30B , Sensor Information)
  - **Decisions taken at WRC 2012 : v 7** (e.g. New tables to support the new due diligence procedure for 21-22.4 GHz (RES552), DGSO as new AP4 data)
- Where to find information on the latest V7 SNS Format?
  - Section III of the Space Preface
    - Description of the SNS V7 format
    - [http://www.itu.int/en/ITU-R/space/Preface/preface\\_e.pdf](http://www.itu.int/en/ITU-R/space/Preface/preface_e.pdf)





# SNS data structure





# SNS Data Structure – Tree view

Notice id.	Type	Adm./Org.	Orb. Pos.	Station name	Date rcv.	Status
112520119[A]	G	I /	38W	NEWSAT-1F-38W	24.02.2012	50

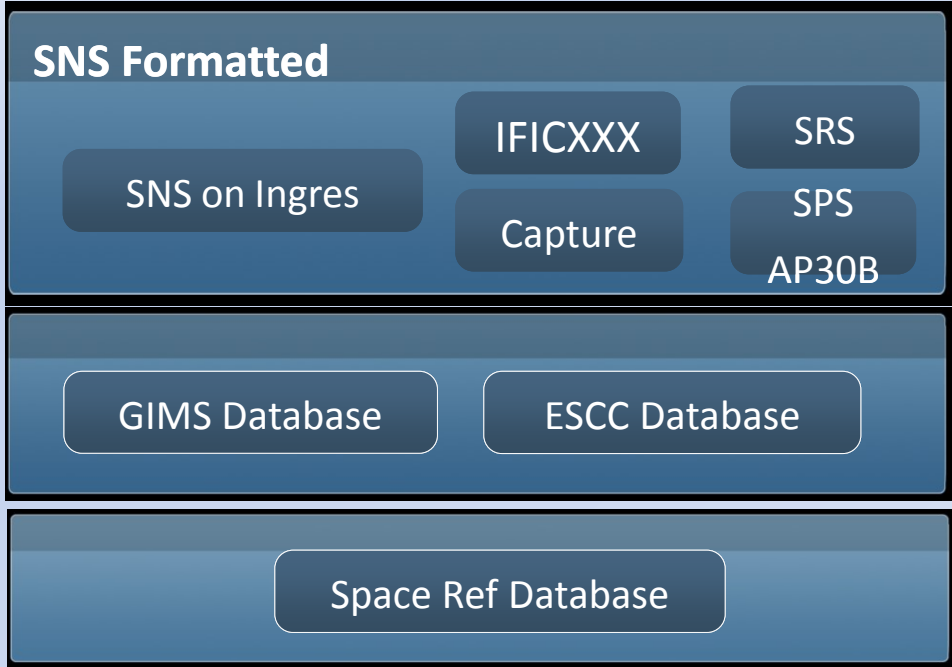
Count=1

- Beam id: BSR
- Beam id: BWR
- Beam id: GS
  - Group id: 112651322 (p83)
  - Group id: 112651323 (p84)
- Beam id: GSF
  - Group id: 112651324 (p85)
  - Group id: 112651325 (p86)
- Beam id: KAR
- Beam id: BSR
- Beam id: BTR
- Beam id: BWR
- Beam id: GS
- Beam id: GSF
- Beam id: KAR



# Regulations – Databases - Software

Appendix 4  
Annex 2 of  
the Radio  
Regulations



Databases



Regulations

Software