BR Space Databases

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International Telecommunication Union

ITSO/ITU Workhop on Satellite Communications

AFRALTI, Nairobi, 17-21 July 2017

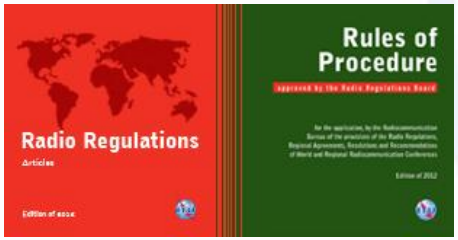
BR Space Databases

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



BR Space Software And Databases

Streamline the Implementation of the RR and Rules of Procedure

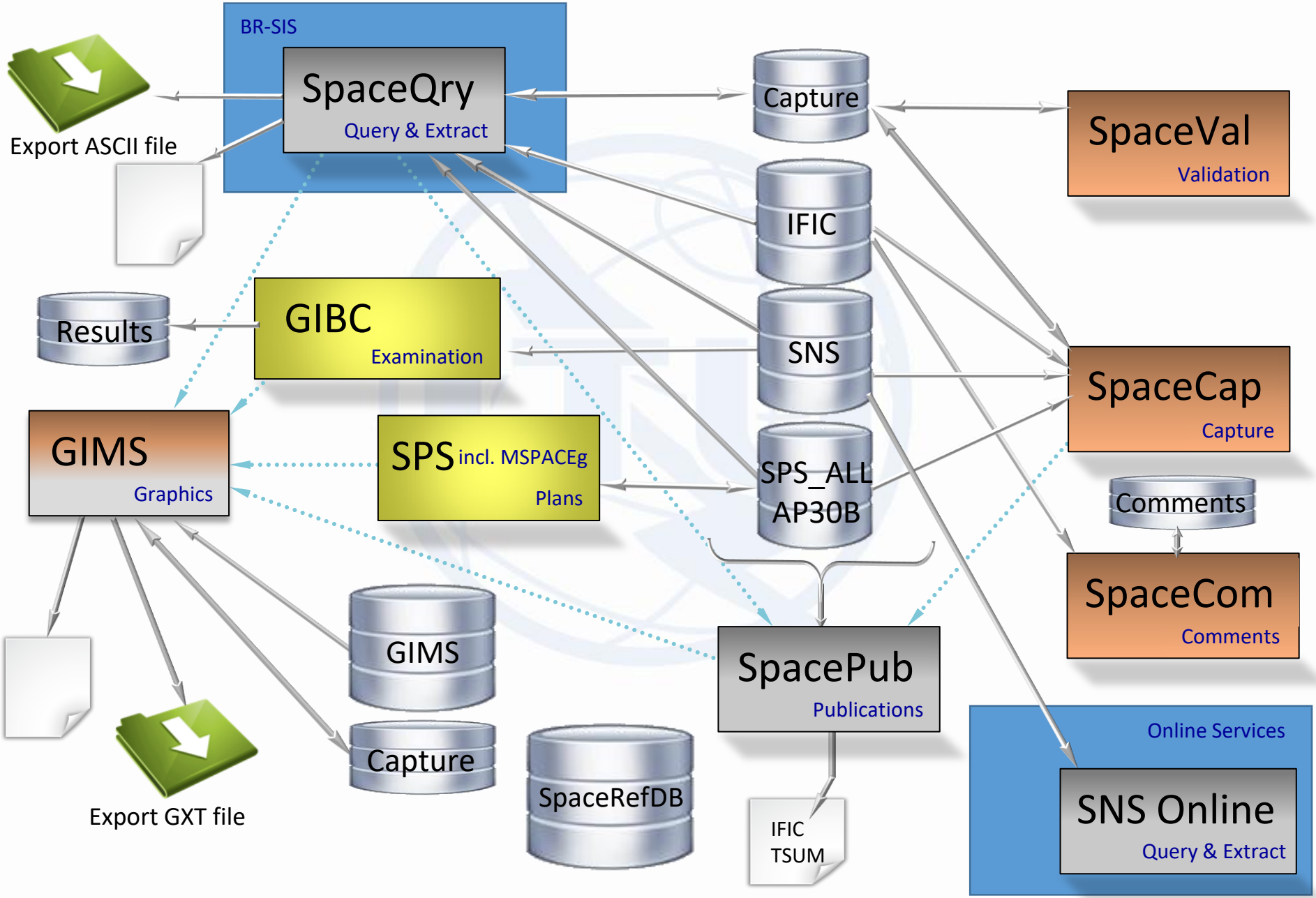
Help you prepare electronic filings according to the RR

Process the electronic filings sent to the BR

Rules of Procedure

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

Space Network System



BR Space Databases

Why?

- Purpose of BR databases and Software

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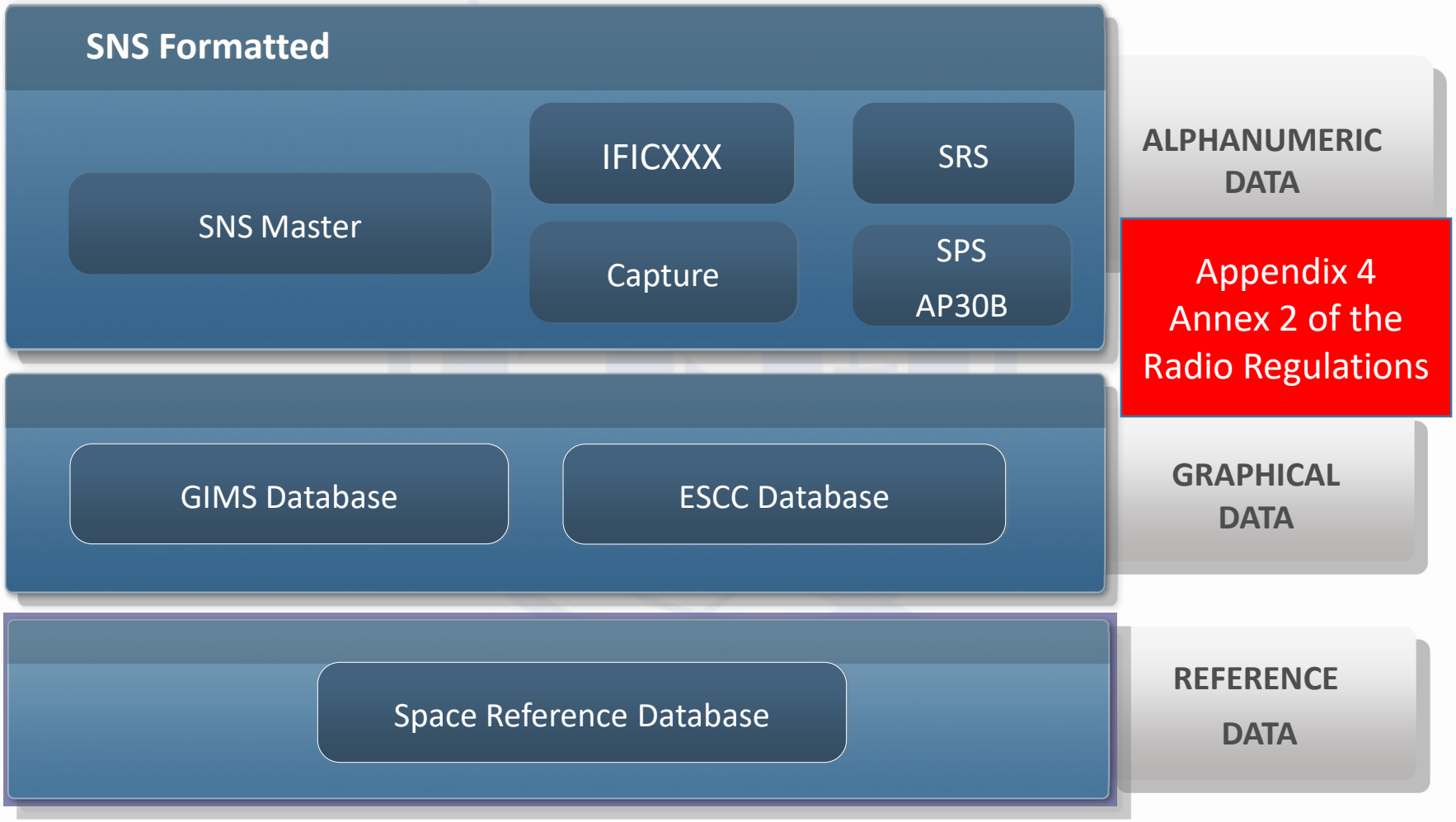
- What is in BR Databases?

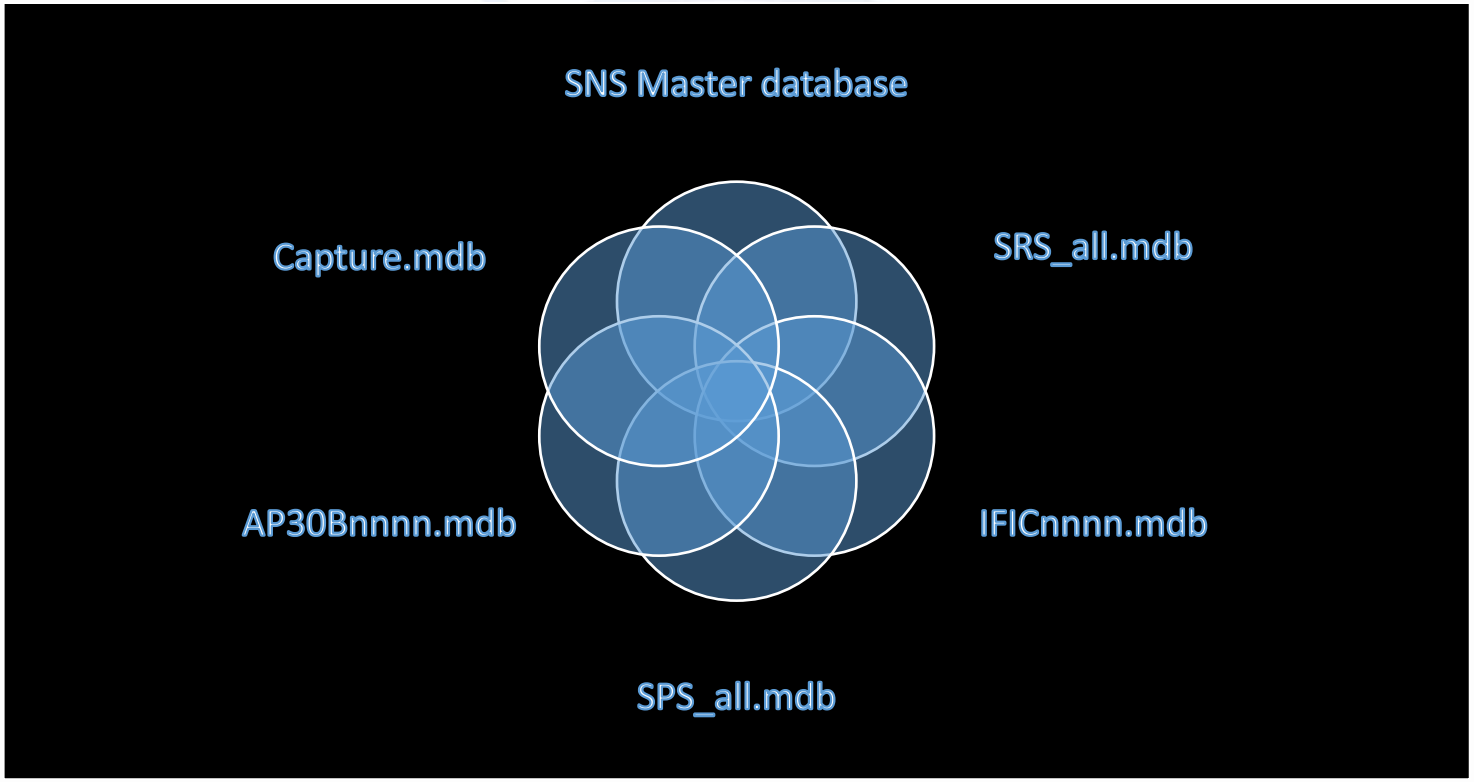
Format and Version

- SNS Format and Versioning

BR Space Databases



BR SNS Format databases

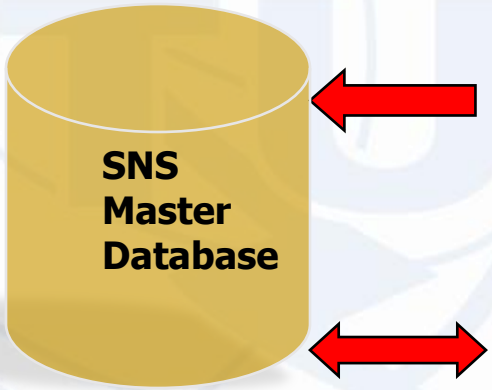


SNS Databases

SNS Master Database

In the Master Register

- ❑ Coordination and Notification
- ❑ Advance Publication
- ❑ Resolution 49

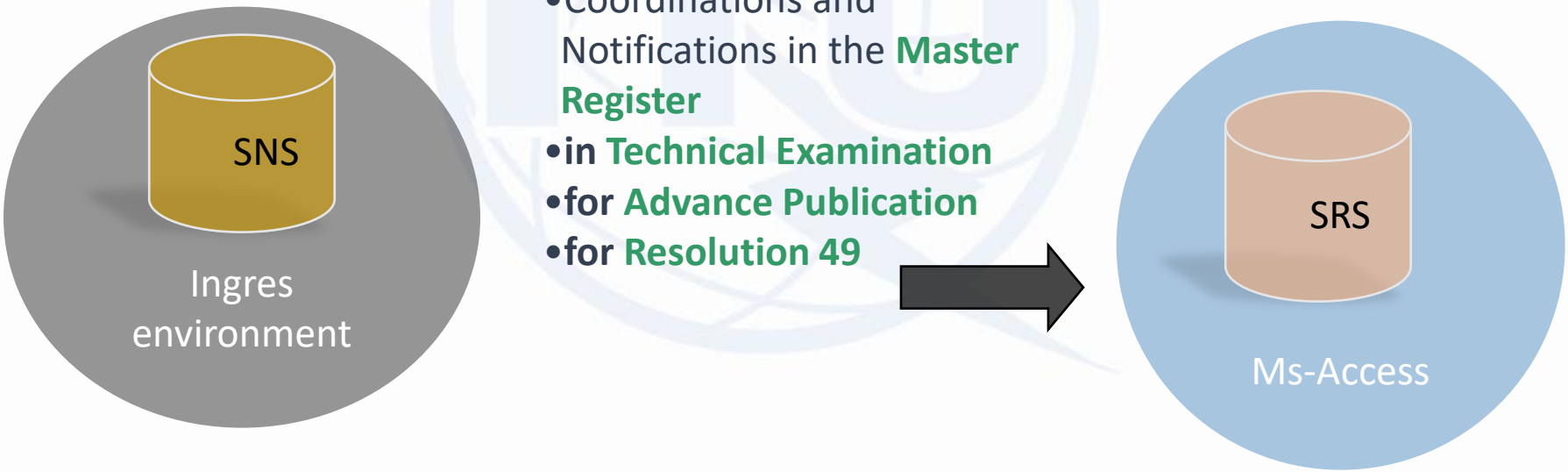


- Electronic Filings received by the BR
  - New assignments
  - Mod of existing
  - Delete existing
- Notifications in technical Examination

SNS Databases

SRS_all.mdb on the BR SPACE IFIC DVD

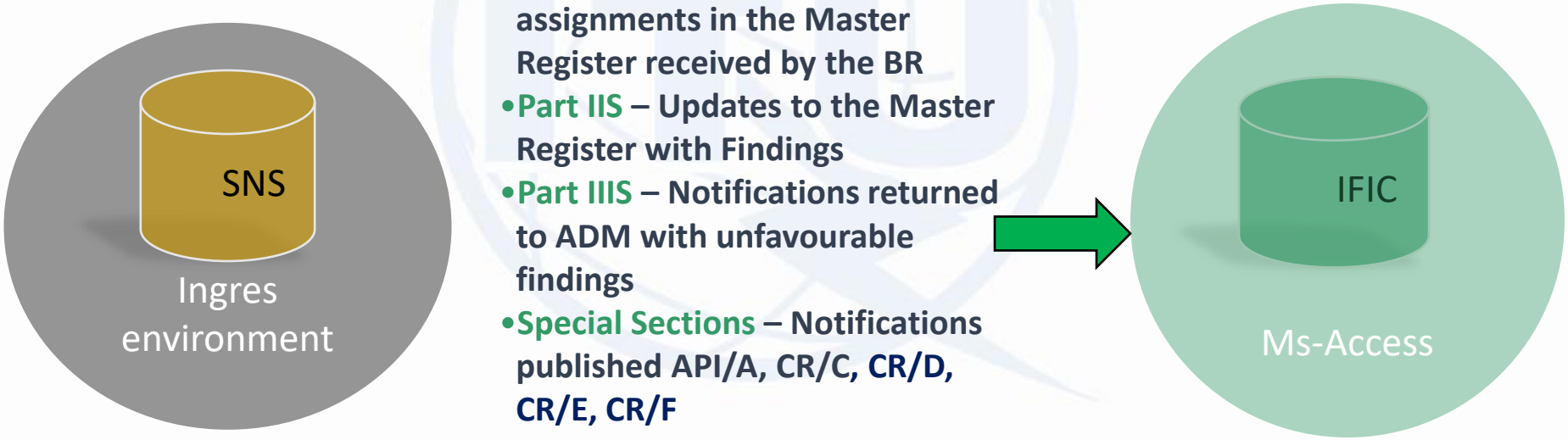
- **Published every IFIC DVD**
- **Snapshot of the SNS Master Database**



SNS Databases

IFICnnnn.mdb on the BR IFIC DVD

- **Published every 2 weeks**

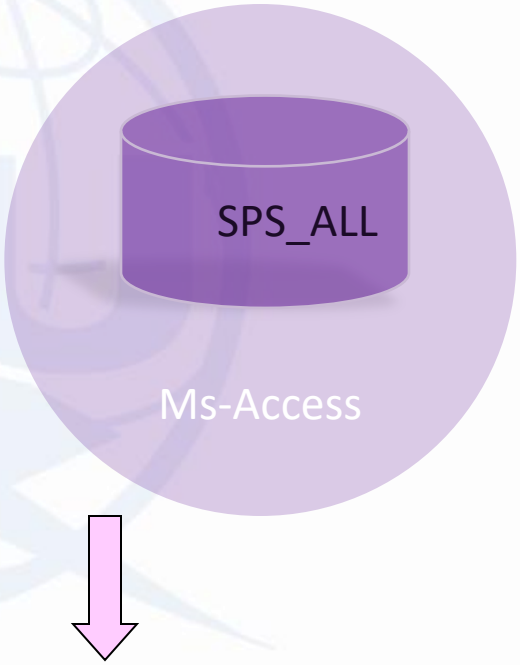


SNS Databases

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

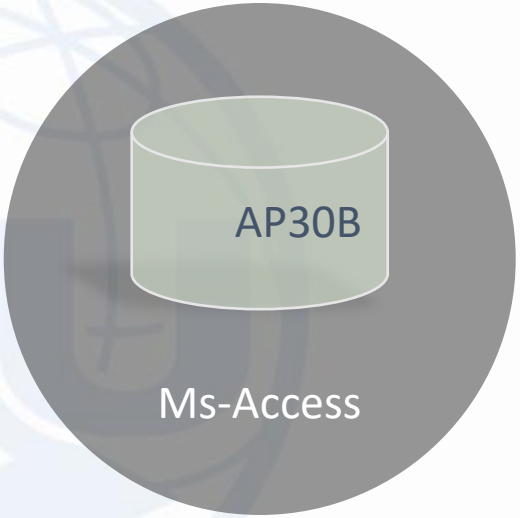
http://www.itu.int/en/ITU-R/space/plans/Pages/default.aspx

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**

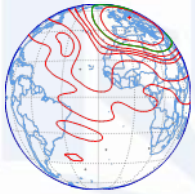


- **Download from http://www.itu.int/en/ITU-R/space/plans/Pages/default.aspx**

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**

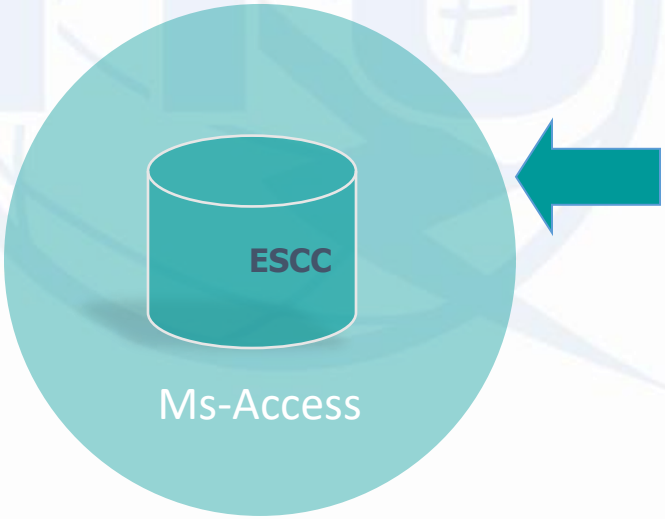
Graphical Data

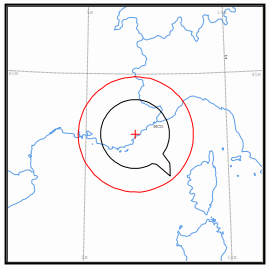
ESCC Database

Master repository for Earth Station Coordination Contours

Graphical Data for Earth Stations

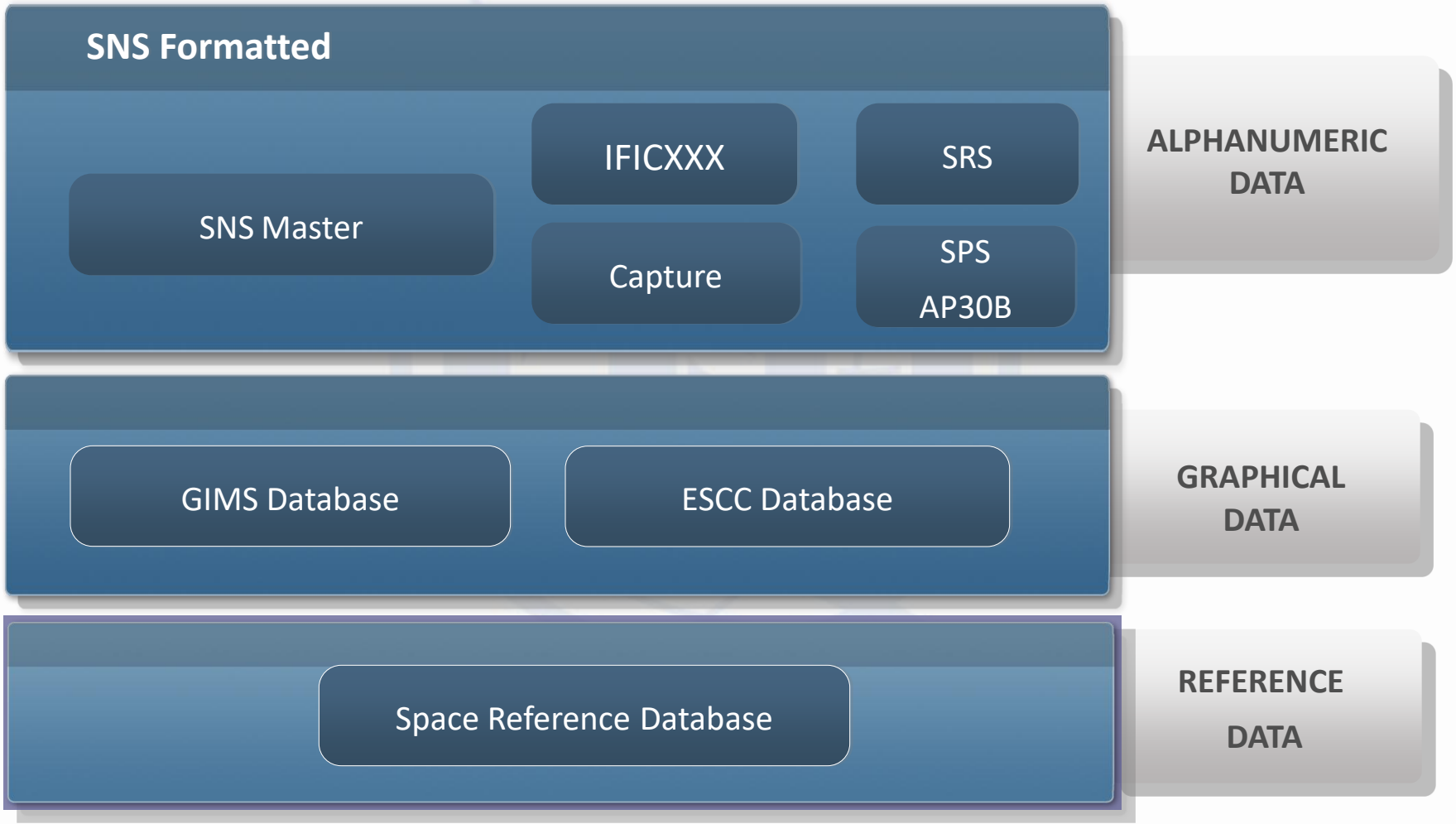
- **used in-house**
- used by Technical Examination software
- **Available via SNS Online**



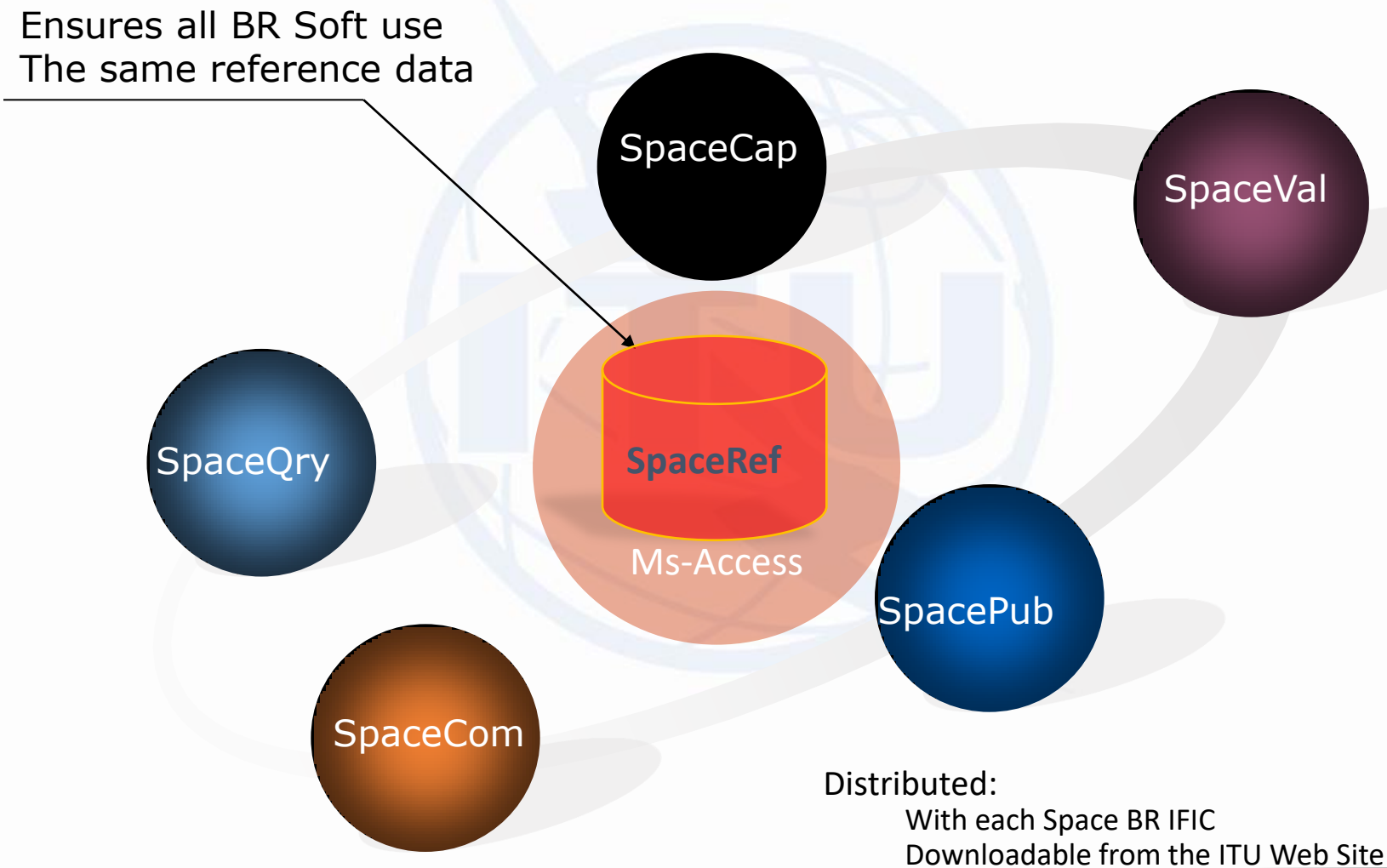


Generated by the Appendix 7 software

BR Space Databases



Space Reference Database



Distributed:

With each Space BR IFIC

Downloadable from the ITU Web Site

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

SNS Format version 8

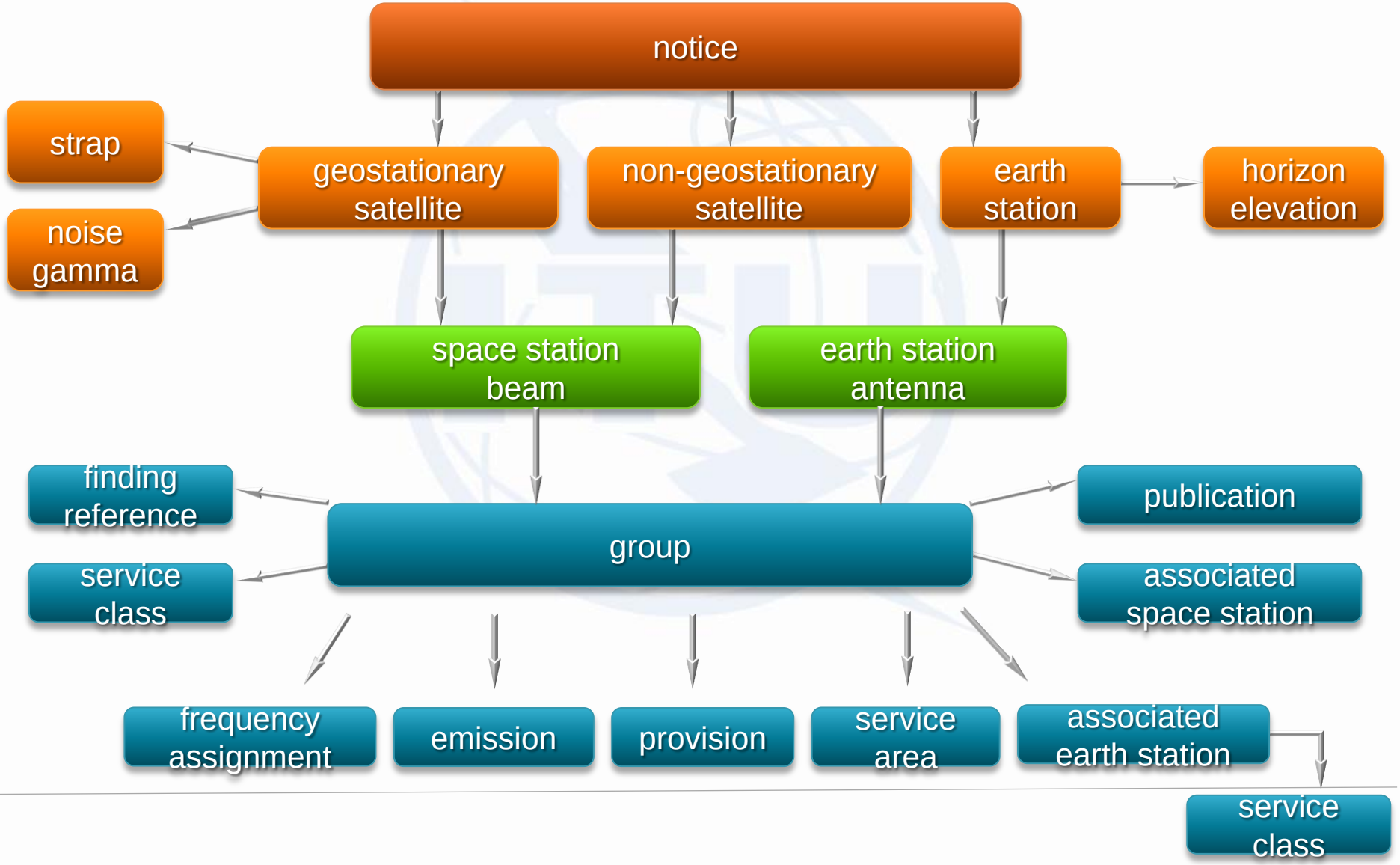
- Each World Radio Communication Conference introduces new resolutions and changes to the Radio Regulations
  - **Decisions taken at WRC 2012 : v 7** (e.g. New tables to support the new due diligence procedure for 21-22.4 GHz (RES552), DGSO as new AP4 data)
  - **Decisions taken at WRC 2015 : v 8** (e.g. A16c as new AP4 data for a commitment to meet separation distance of No. 5.509E and PFD limits of 5.509D)
  - **Data structure improvements for internal processing**
- Where to find information on the V7 and V8 SNS Format?
  - Section III of the Space Preface

    Description of the SNS V7 and V8 format

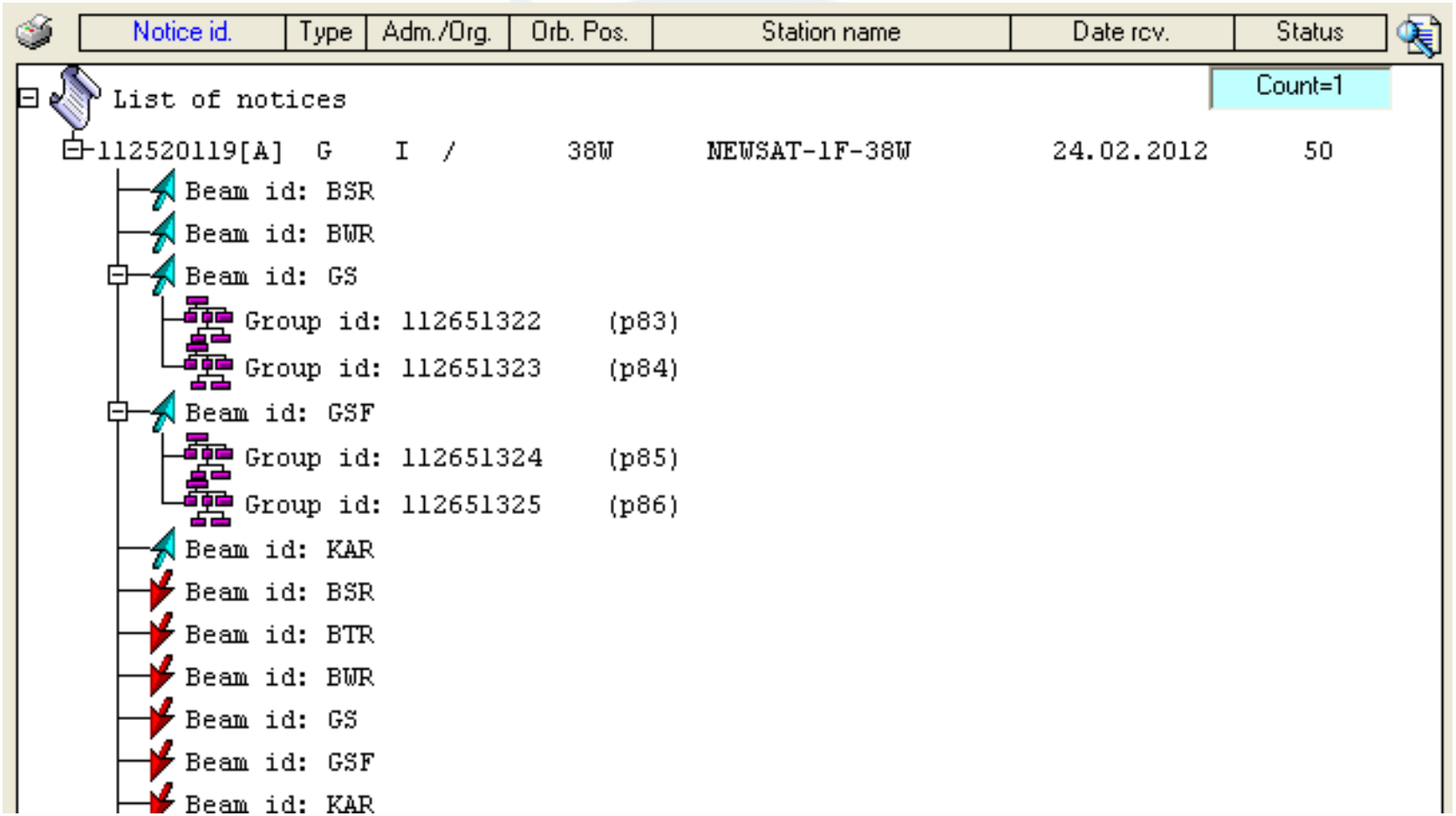
    http://www.itu.int/en/ITU-R/space/Preface/preface_e.pdf

SNS-format DB

SNS data structure



SNS data structure – Tree View



Regulations – Databases - Software

Appendix 4
Annex 2 of
the Radio
Regulations

SNS Formatted

SNS Master

IFICXXX

Capture

SRS

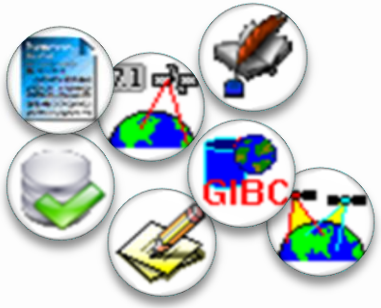
SPS

AP30B

GIMS Database

ESCC Database

Space Ref Database



Databases

Regulations

Software