SNS data system and Space Databases

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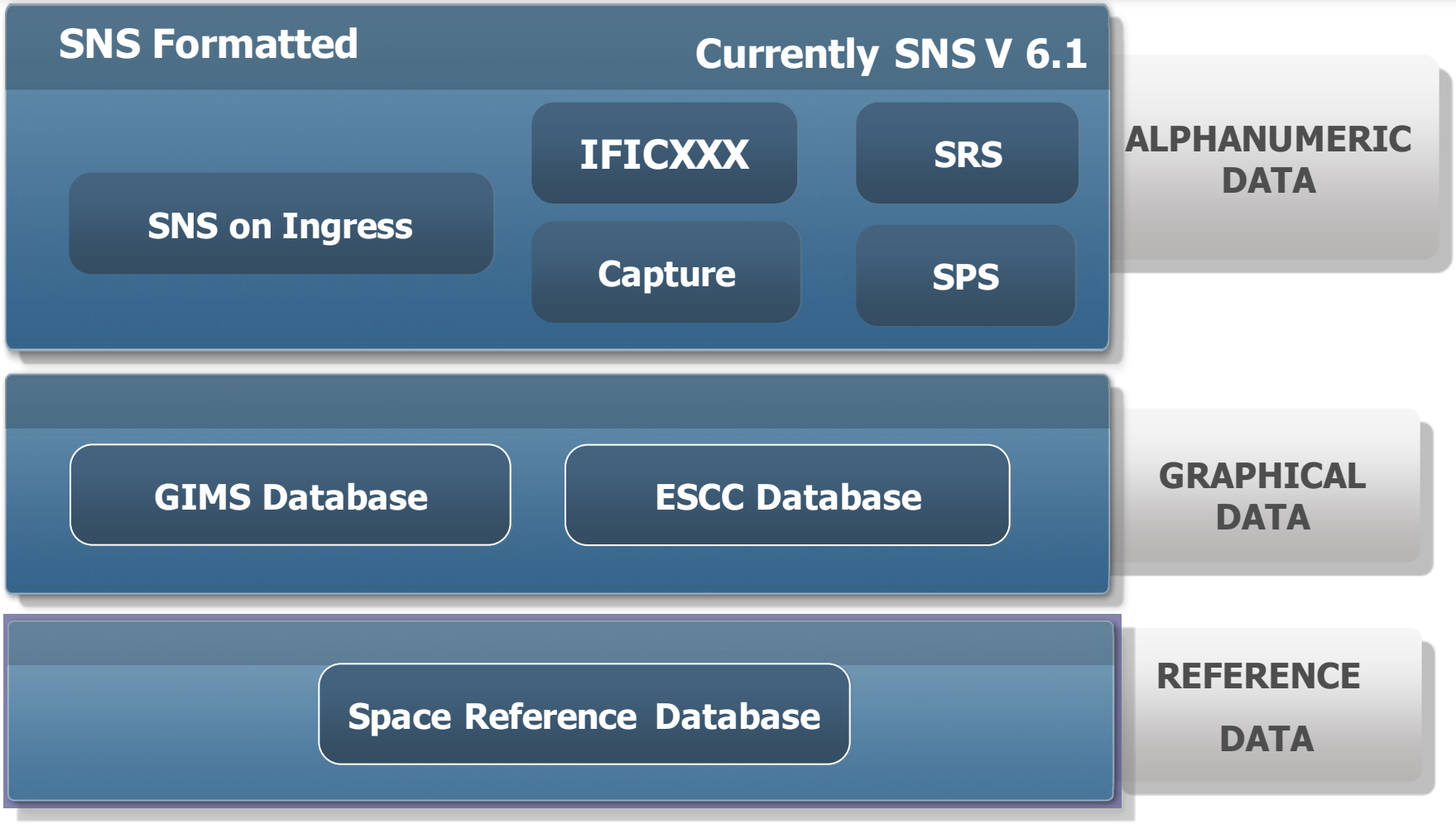
BR Space Databases



SNS Design – Alphanumeric Data

- Appendix 4, Annex 2,
- Version 6.1
  - WRC2007 modifications to Appendix 4
    - AP30B
    - Sensor information
- Detailed Description
  - Preface Section III
  - CR 58 and srs_dbv61.pdf on the SRS CD

SNS Data organization

Common data to all frequencies of a network

(satellite name, orbital position…)

Attachments to submission

(type (Paper, GXT, File), file name, description)

Note: normally filled in through other data entry forms

Strapping and Noise gamma information for Geo

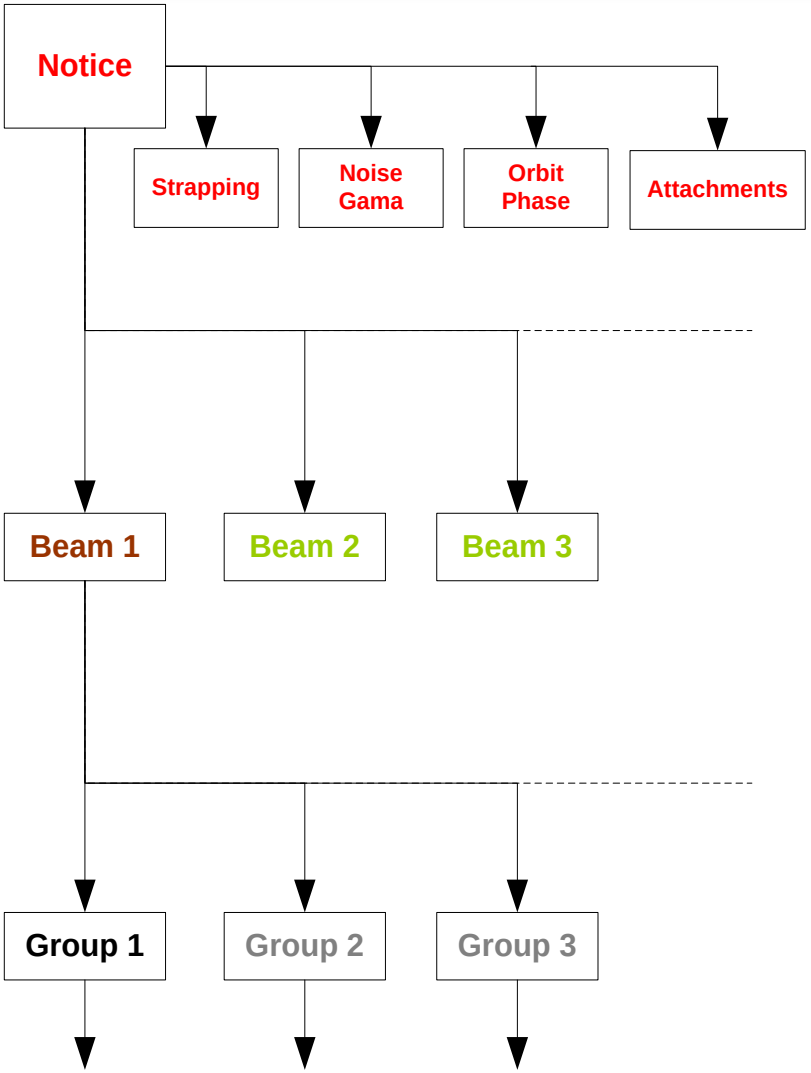
Orbit and Phase information for Non-Geo

Satellite beam characteristics

(satellite antenna gain, antenna radiation pattern…)

Groups of frequencies

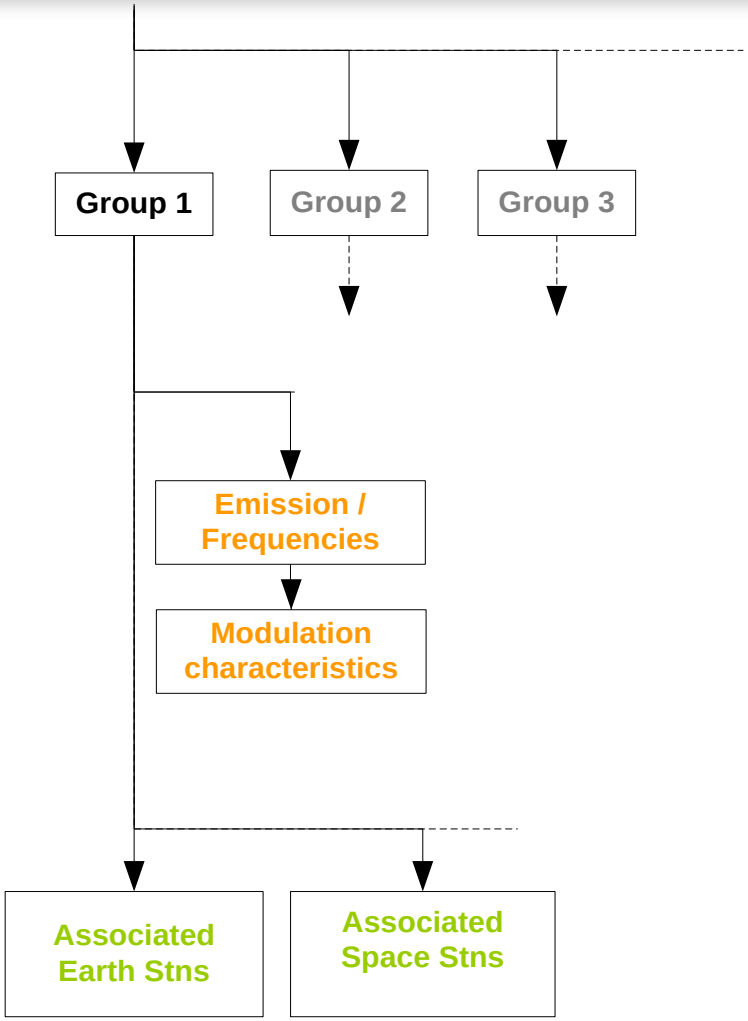
(common characteristics such as polarization type and service area…)



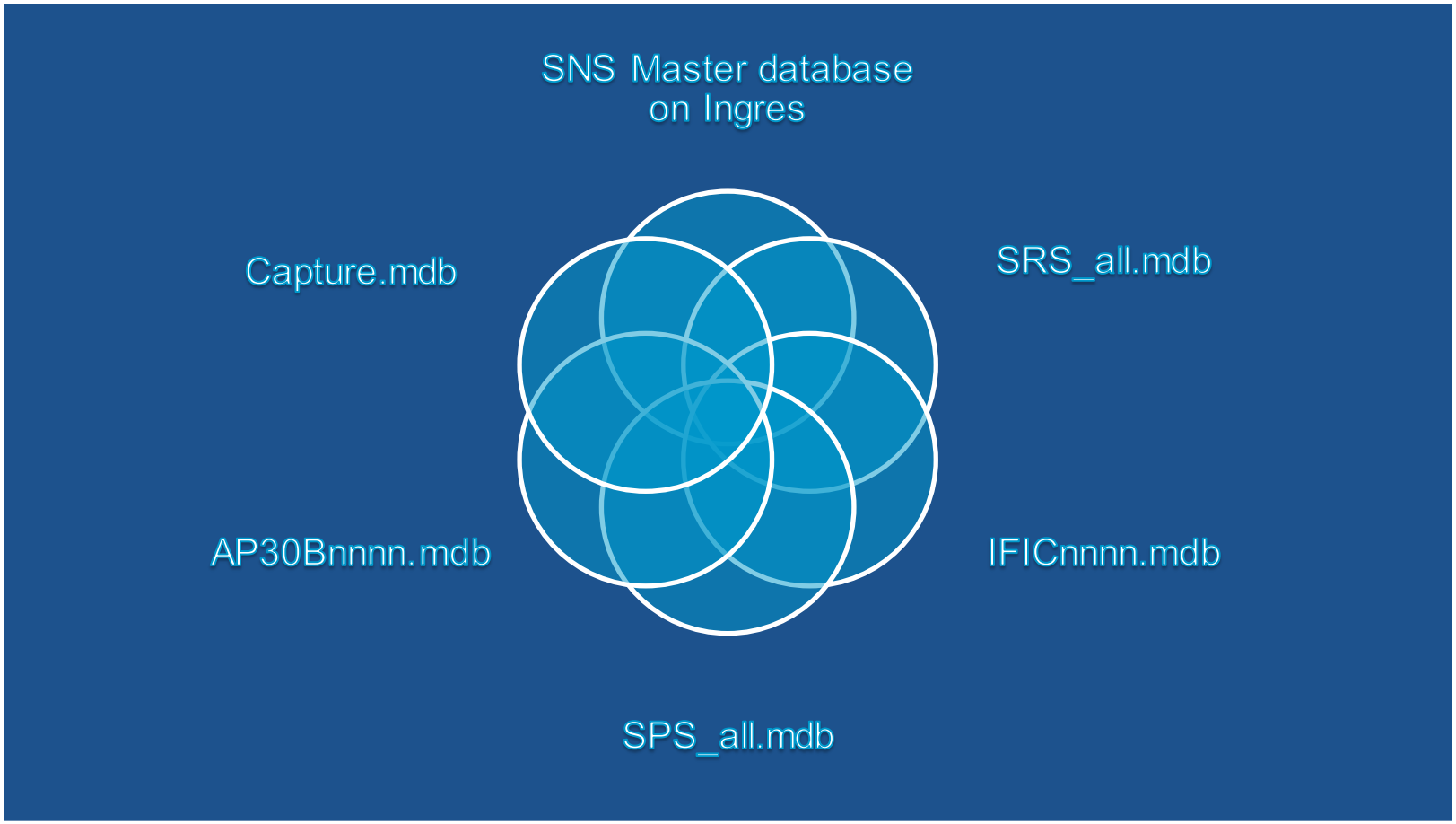
SNS Data organization

Emission characteristics of a specific group
(frequencies, power and modulation characteristics)

Associated earth station antenna characteristics or Associated Space Stations



BR SNS Databases

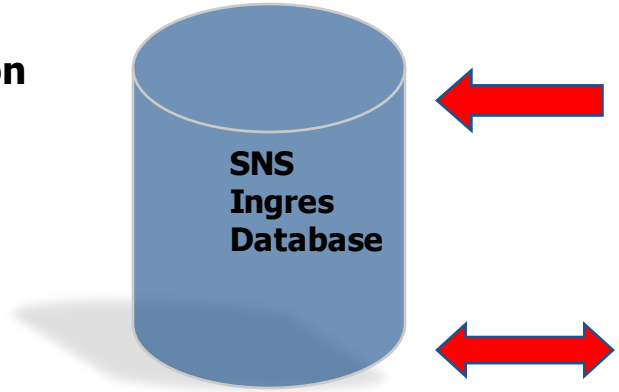


SNS Databases

SNS Master Database On Ingres

in the Master Register

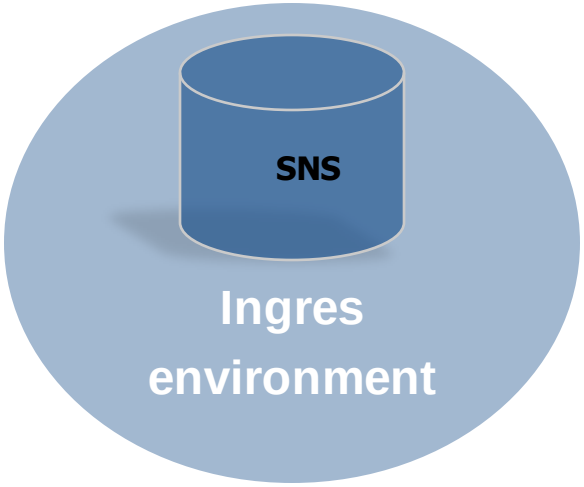
- **Coordination and Notification**
- **Advance Publication**
- **Resolution 49**



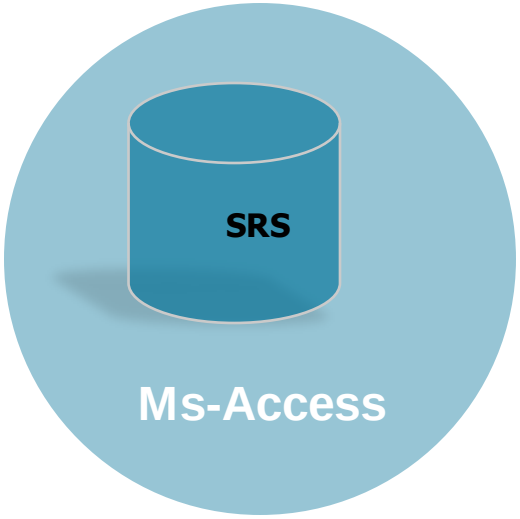
- **Electronic Filings received by the BR**
  - **New assignments**
  - **Mod of existing**
  - **Delete existing**
- **Notifications in technical Examination**

SRS_all.mdb on the BR SRS DVD

- **Published every 6 months**
- **Snap-shot of the SNS Master Database**

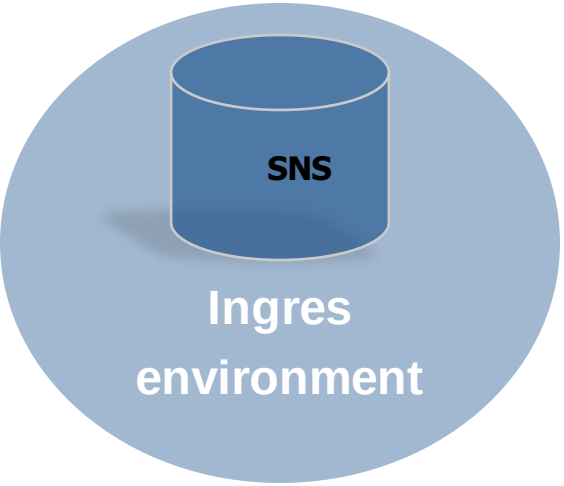


- **Coordinations and Notifications in the Master Register**
- **in Technical Examination**
- **for Advance Publication**
- **for Resolution 49**

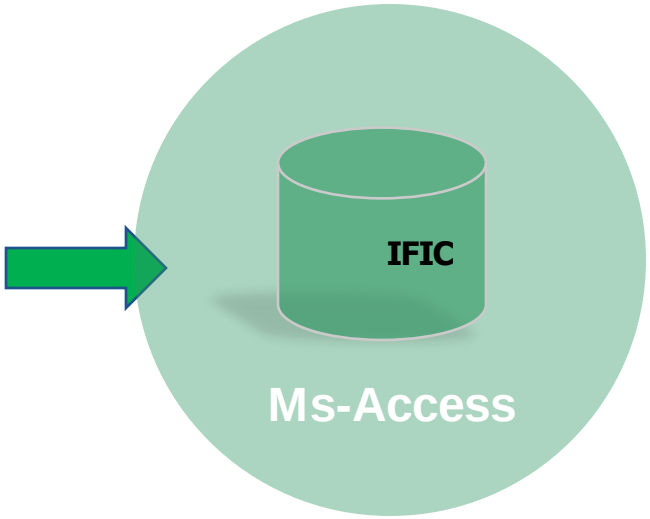


IFICnnnn.mdb on the BR IFIC CD

- **Published every 2 weeks**



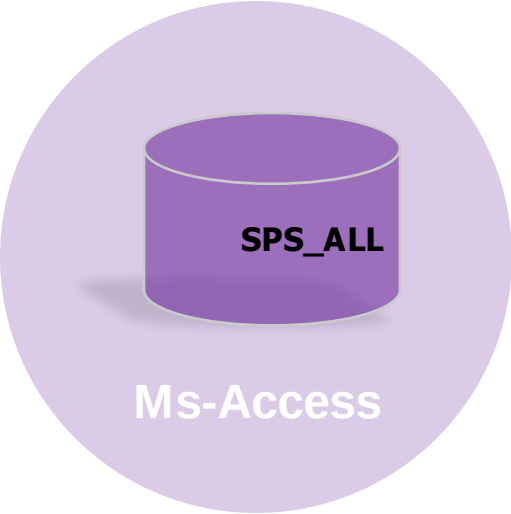
- **Part IS – new frequencies or modifications, cancellations of assignments in the Master Register received by the BR**
- **Part IIS – Updates to the Master Register with Findings**
- **Part IIIS – Notifications returned to ADM with unfavourable findings**
- **Special Sections – Notifications published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



SPS_ALL.mdb on the BR IFIC CD

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

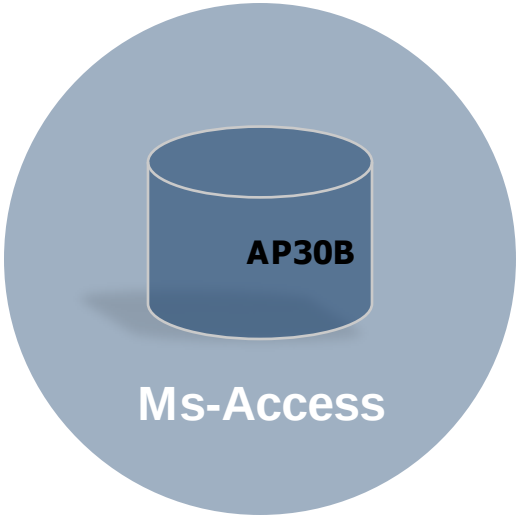


- Download from http://www.itu.int/ITU-R/space/plans

Appendix 30B Database

- **Published on the IFIC**

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



- **Download from http://web/ITU-R/space/plans**

Graphical data

- Gims diagrams
  - Appendix 4 – GSO Satellites
    - Service Area (C.11.a)
    - Antenna Gain Contours (B.3.b)
    - Antenna Gain towards GSO (B.3.e)
  - Contains Graphical data for both Non-plan and Plan
- ESCC Diagrams
  - Earth Stations Coordination Contours

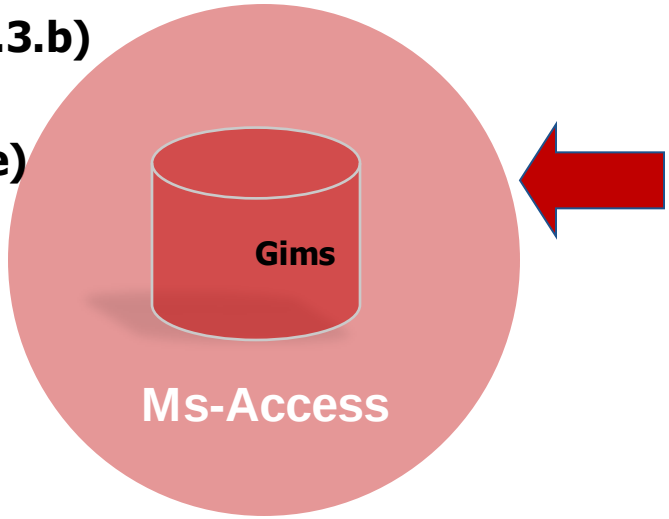
Gims Database

Complete GIMS Database on the SRS DVD

- **Published every 6 months**

Graphical Data for geo-stationary Satellites

- **Service Area (C.11.a)**
- **Antenna Gain Contours (B.3.b)**
- **Gain toward the geo-stationary orbit (B.3.e)**



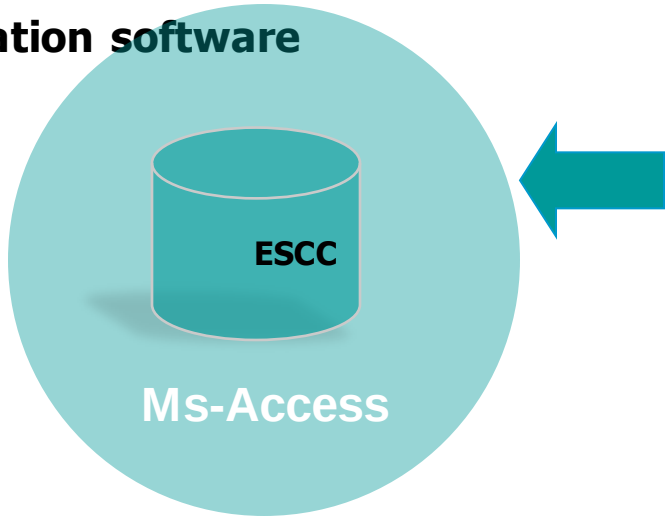
Incremental Update to the Gims database on each IFIC CD

ESCC Database

Master repository for Earth Station Coordination Contours

Graphical Data for Earth Stations

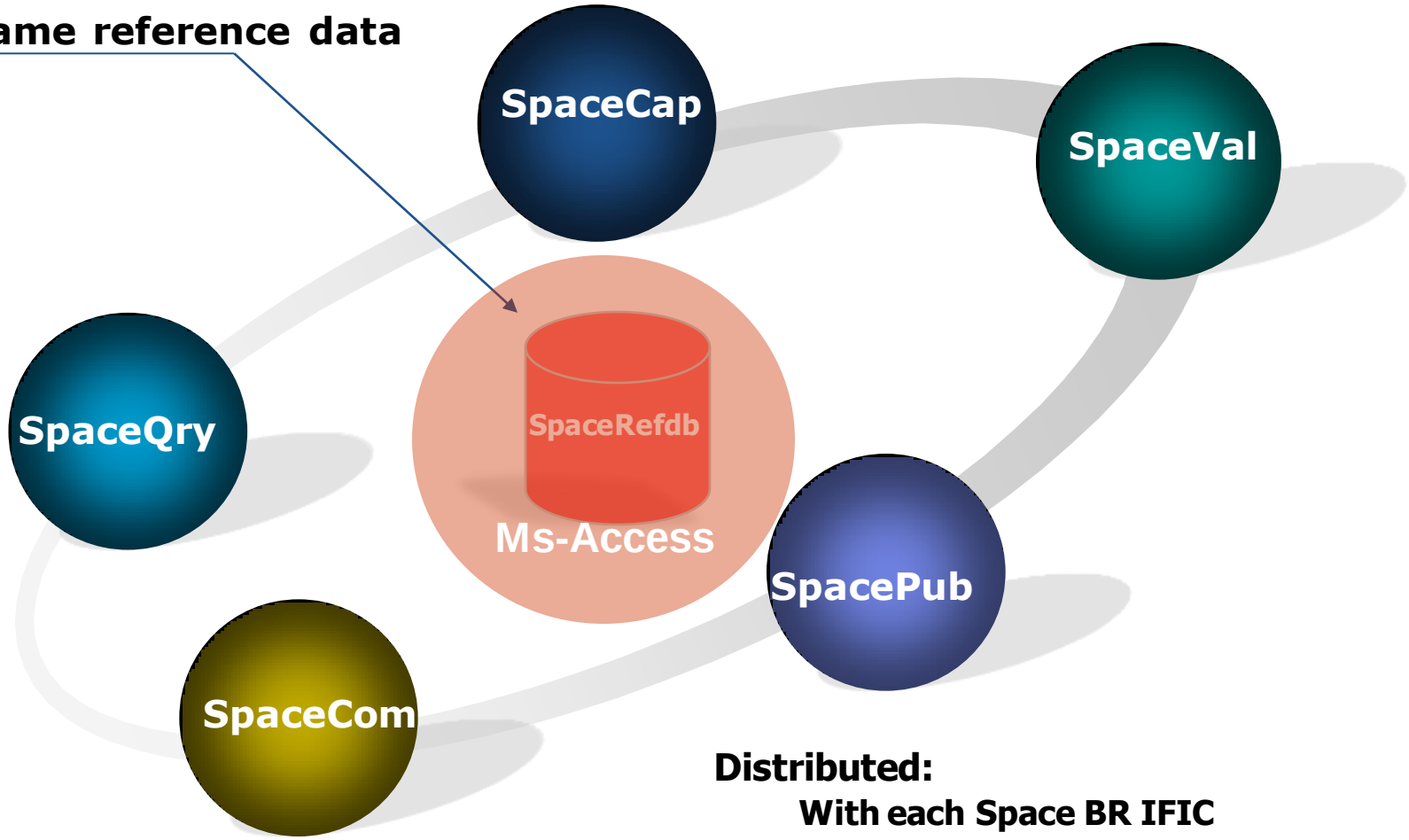
- **used in-house**
- **used by Technical Examination software**
- **Available via SNS Online**



Generated by the Appendix 7 software

SpaceReference Database

Ensures all BR Soft use
The same reference data



Distributed:

- **With each Space BR IFIC**
- **Downloadable from the ITU Web Site**