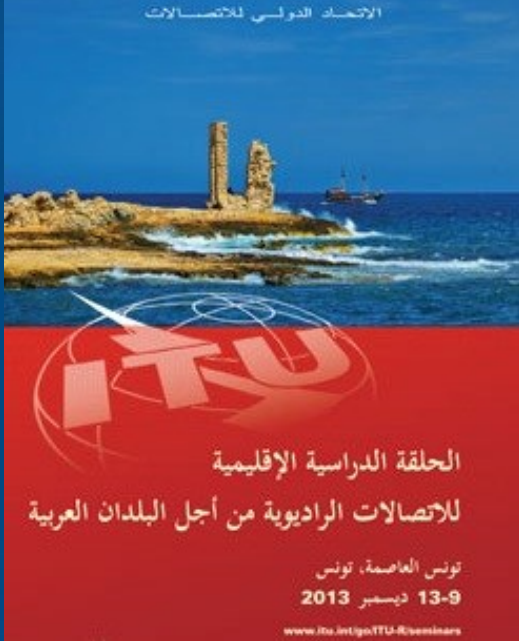مقدمة لبرمجيات و دعم بيانات الخدمات الفضائية لمكتب الاتصالات الراديوية

Introduction to the BR Space Software and Databases

Hanane Naciri   حنان الناصري
Hanane.Naciri@itu.int

BR Space Software & Databases

Why?
- Purpose of BR Software

What's in it for you
- How can BR Software help you?

what are they?
- What is in BR Databases?

Versioning
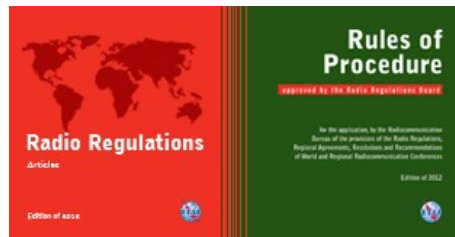- BR Software and Databases: Version 7

Coming Soon
- The future of BR Software
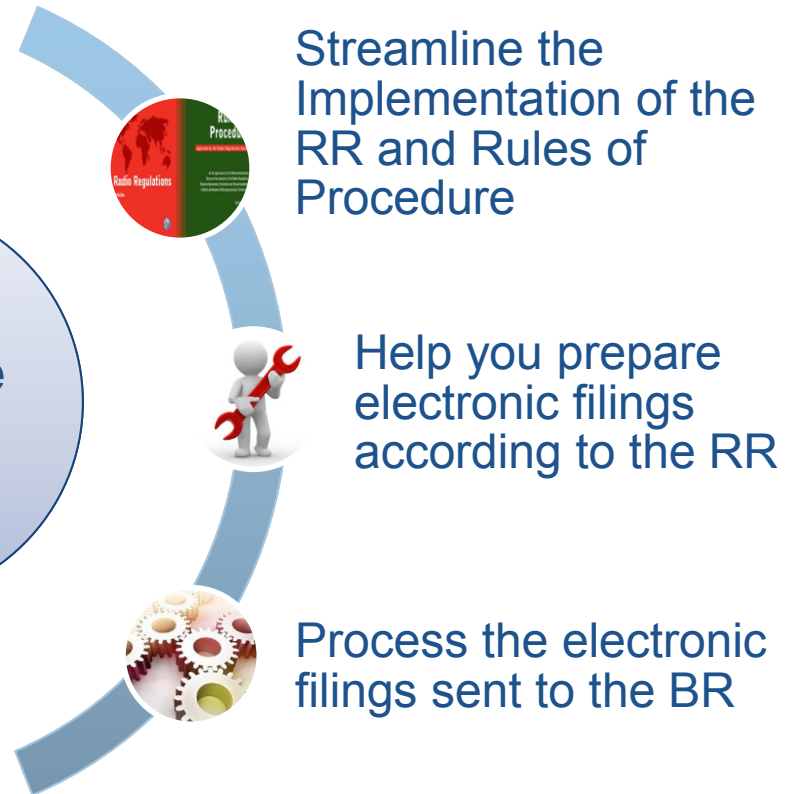
Purpose of BR Software

Radio Regulations

Incorporate the decisions of the World Radiocommunication Conference

BR Space Software

Streamline the Implementation of the RR and Rules of Procedure

Help you prepare electronic filings according to the RR

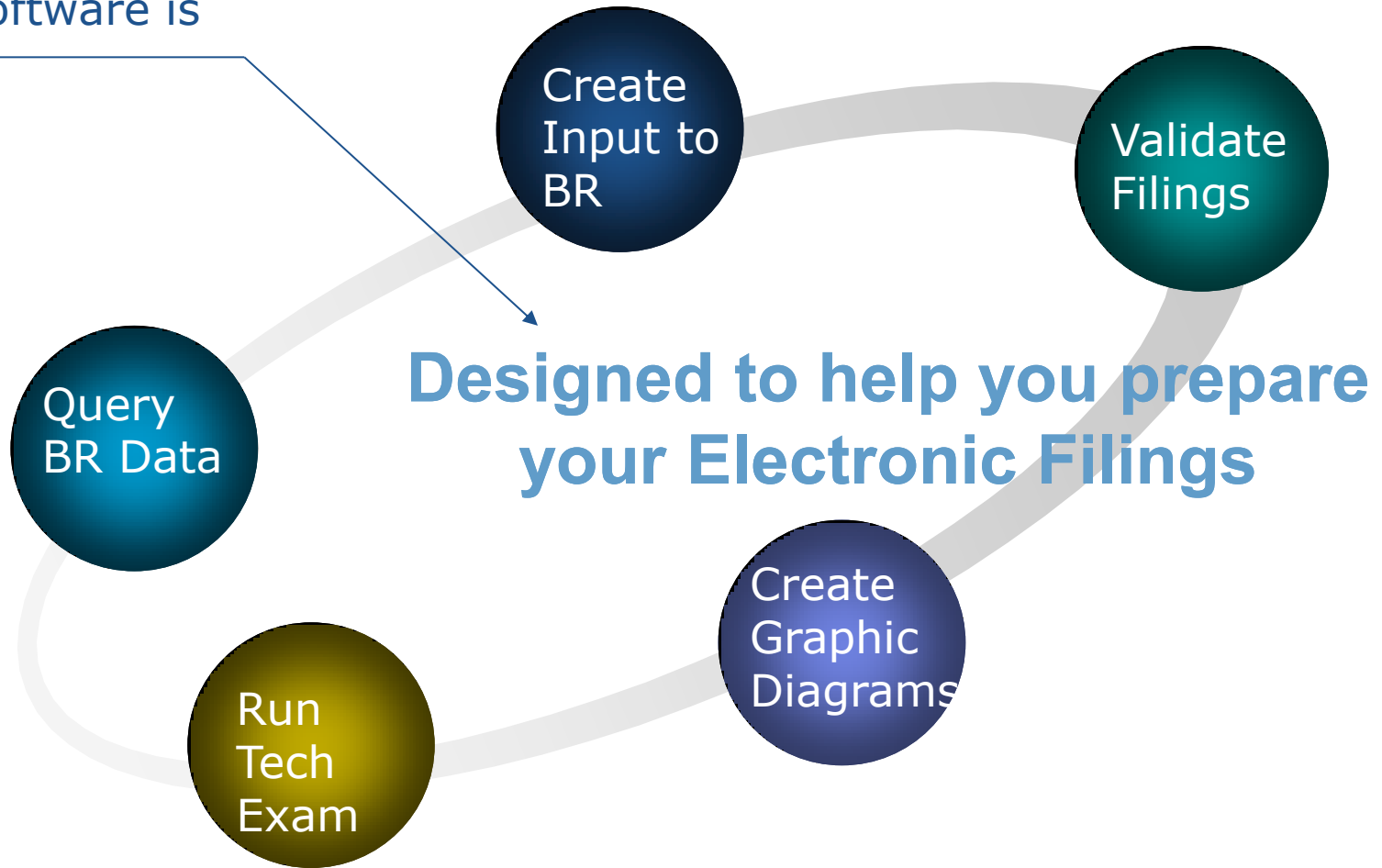Process the electronic filings sent to the BR

Rules of Procedure

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

Purpose of BR Software

BR Software is

Create Input to BR

Validate Filings

Query BR Data

Create Graphic Diagrams

Run Tech Exam

Designed to help you prepare your Electronic Filings

Space Application Manager

BR Software to Create BR data

SpaceCap — **Gims** — **SpaceVal** — **SpaceCom**

Create AP4 data to SNS V7 formatted database

Capture V7 mdb

Capture AP4 graphical data to GIMs mdb

Gims mdb

Validate AP4 data and checks for presence of required AP4 graphical data

Captu V7 m

Gims mdb

Capture requests for coordination
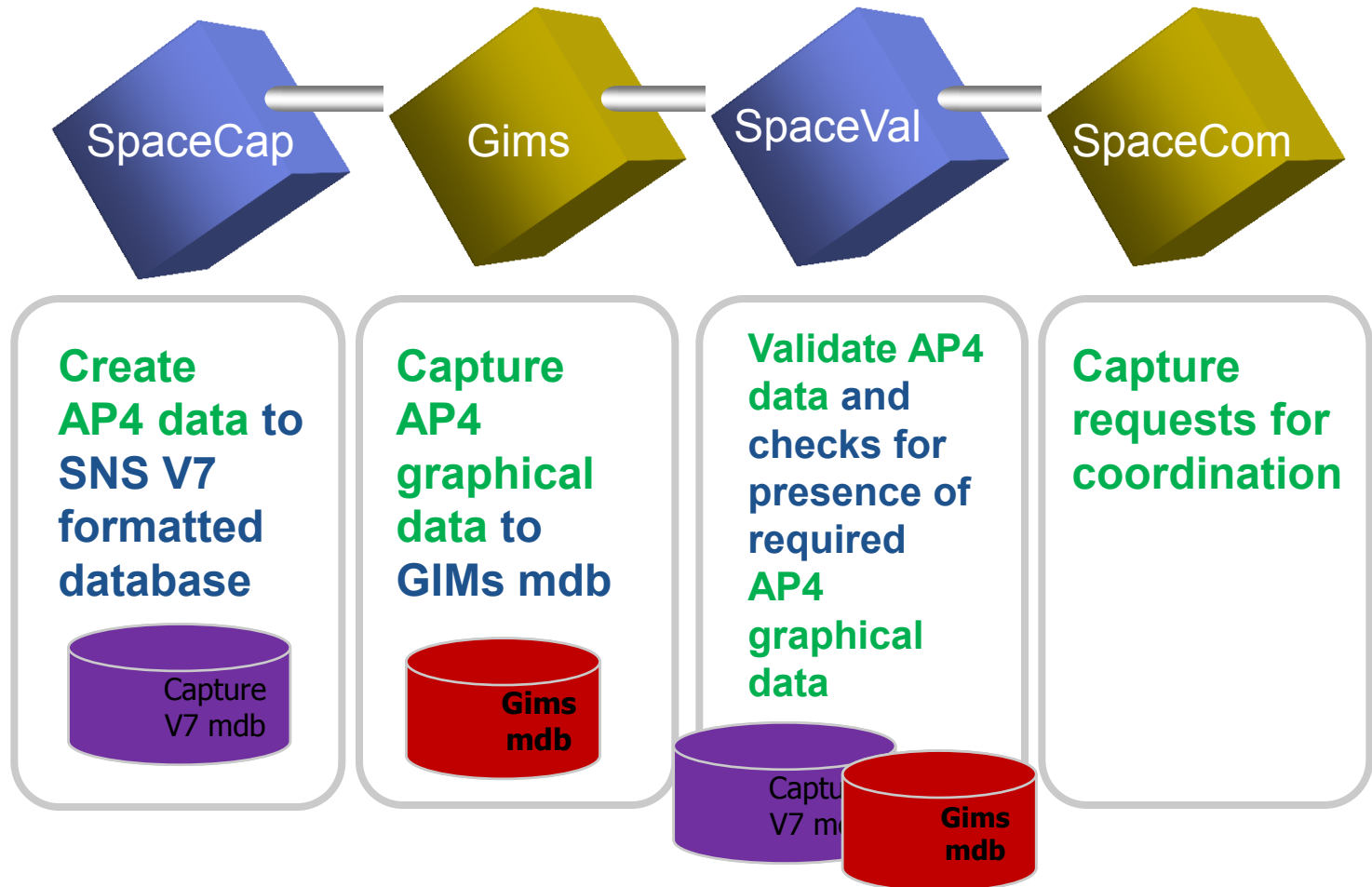
BR Software to Query BR Data
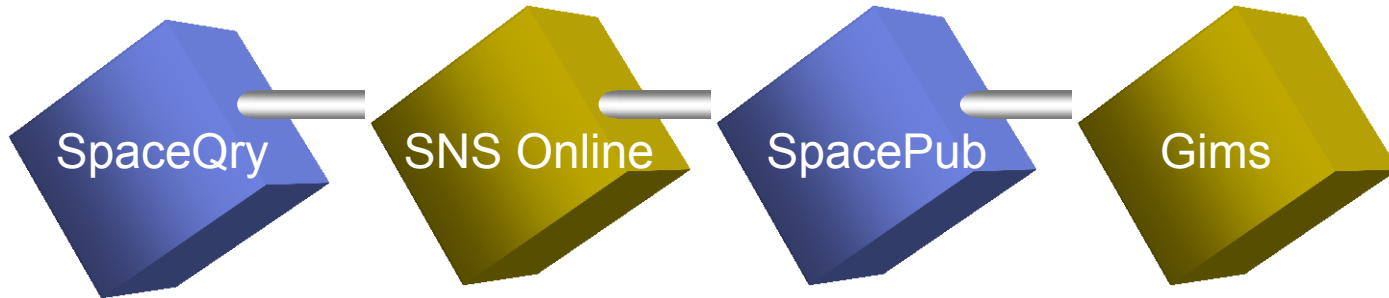
SpaceQry

Query
satellite and Earth stations in the space Services from
- **Srs_all.mdb**
- **IFIC.mdb**
- **Sps_all.mdb**
- **AP30B.mdb**

SNS Online

Query
satellite and Earth stations in the space Services from
- **SNS Master on Ingres**

SpacePub

Print
satellite and Earth stations in the space Services from
- **Srs_all.mdb**
- **IFIC.mdb**
- **Sps_all.mdb**
- **AP30B.mdb**

Gims

Query
for graphical data in the Gims database

BR Soft to Run Technical Exams

GIBC
Graphical Interface for Batch Calculations

PFD

AP7

AP8

AP30B

SPS
the *space plans* software (formerly "MSpaceG")

Determination of the coordination requirements for the Plans for space networks in Appendices 30, 30A of the Radio Regulations

BR Space Software & Databases

Why?	• Purpose of BR Software
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Versioning	• BR Software and Databases: Version 7
Coming Soon	• The future of BR Software

BR Space Databases

SNS Formatted

SNS on Ingress

IFICXXX

SRS

Capture

SPS
AP30B

ALPHANUMERIC DATA

Appendix 4 Annex 2 of the Radio Regulations
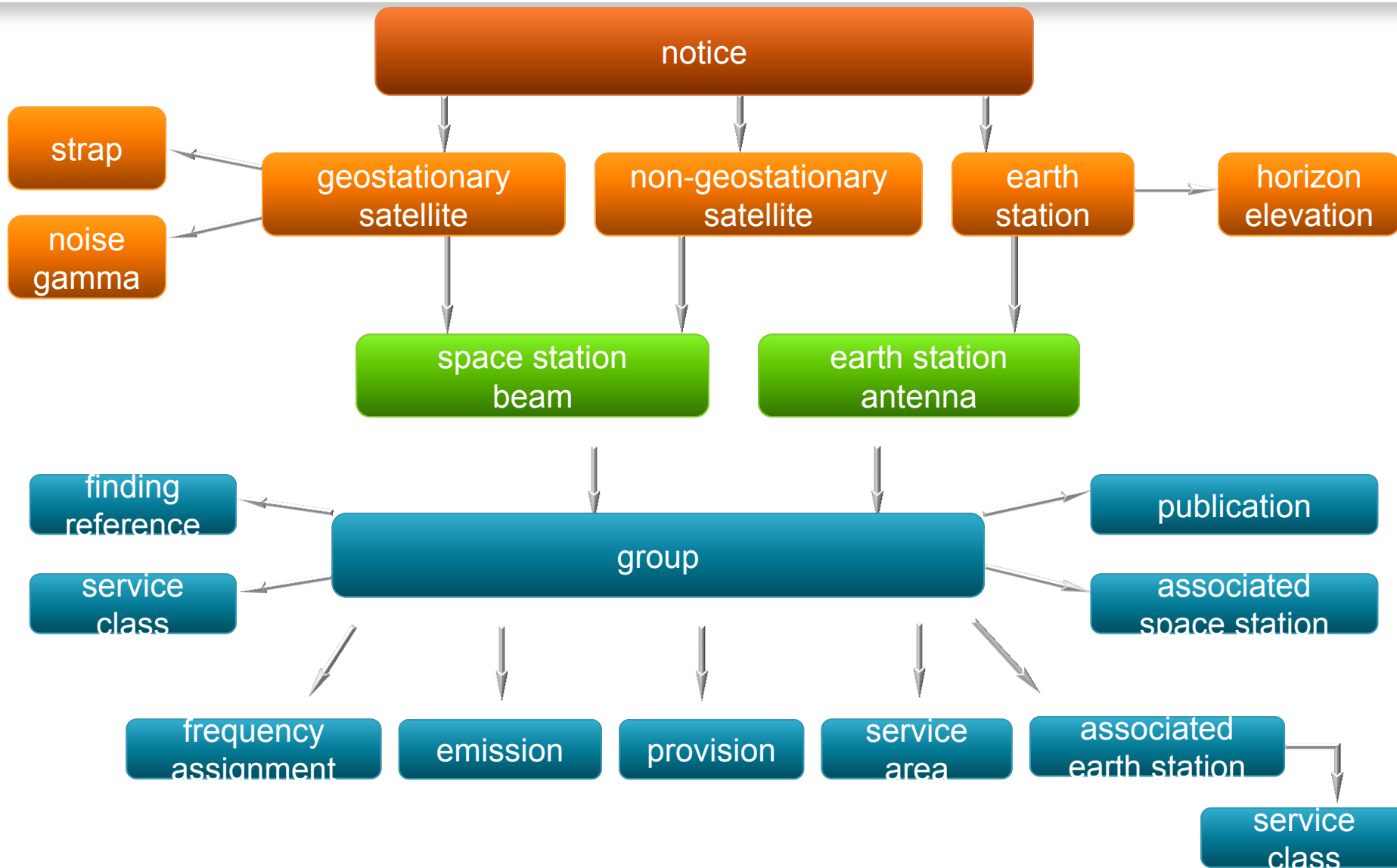
GIMS Database

ESCC Database

GRAPHICAL DATA
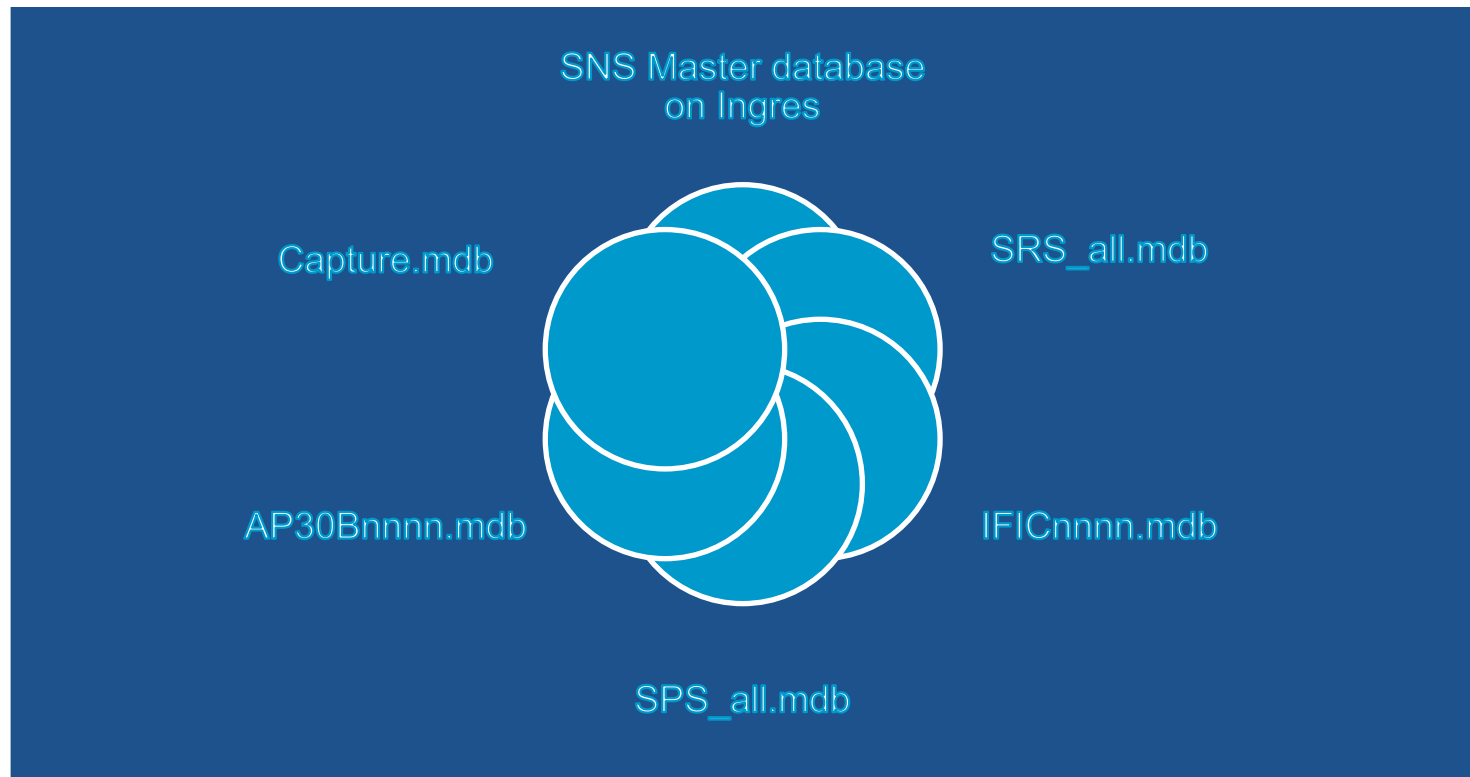
Space Reference Database
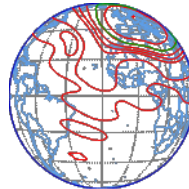
REFERENCE DATA

SNS data structure

BR SNS Format databases

SNS Master database
on Ingres

Capture.mdb

SRS_all.mdb

AP30Bnnnn.mdb

IFICnnnn.mdb

SPS_all.mdb

SNS-format DB

- **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 Gims Database Format?

  - ➤ Section III Chapter 2 of the Space Preface
    - format for electronic submission of graphical data

- Circular Letter 337

GIMS DB

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!
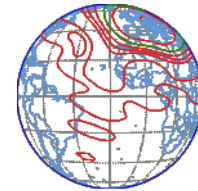
ESCC Database

Master repository for Earth Station Coordination Contours

Graphical Data for **Earth Stations**
used in-house
used by Technical Examination software
• **Available via SNS Online**

ESCC

Ms-Access

Generated by the Appendix 7 software

BR Space Databases

SNS Formatted

SNS on Ingress

IFICXXX

Capture

SRS

SPS
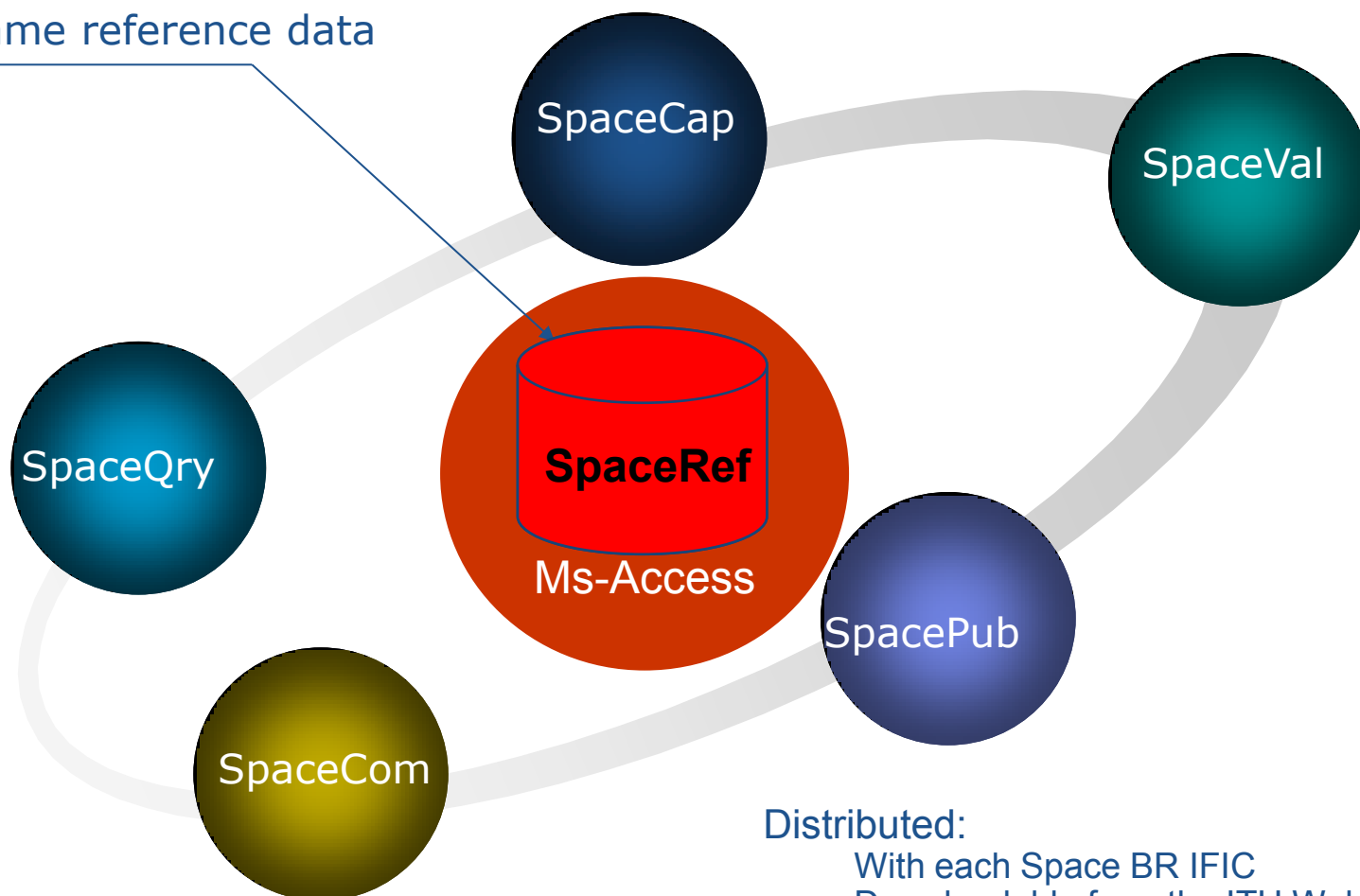AP30B

ALPHANUMERIC DATA

GIMS Database

ESCC Database

GRAPHICAL DATA

Space Reference Database

REFERENCE DATA

SpaceReference Database

Ensures all BR Soft use
The same reference data

SpaceCap

SpaceVal

SpaceQry

SpaceRef

Ms-Access

SpacePub

SpaceCom

Distributed:
With each Space BR IFIC
Downloadable from the ITU Web Site

BR Space Software & Databases

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Versioning • BR Software and Databases: Version 7

Coming Soon • The future of BR Software

BR Software version 7

Where you can check for latest versions

Download from the BR web site

http://www.itu.int/ITU-R/software/space/index.html

From the IFIC DVD

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**
    - New AP4 data items
    - New tables to support the new due diligence procedure for 21-22.4 GHz (RES552)
    - New table to maintain the link to group level diagrams in the GIMS database
    - Improvements for internal processing

SNS-format DB

SNS Format and Versioning

Impact of moving from one version to another

Example: from v 6.1 to v 7

Use BR Soft to create filings

Install new v7 BR software and database changes will be transparent

Use other means to create filings

You will need to modify your software to take the new SNS v7 format into account

SNS Format and Versioning

- Where to find information on the latest V7 SNS Format?
  - Details of Changes from version 6 to 7 at ITU's web site at the URL:

    http://www.itu.int/sns/sns_v7_changes.html

    http://www.itu.int/sns/sns_dbv7.pdf
  - Diagrams provided on the IFIC DVD:

    srs_dbv7.pdf

    srs_dbv7_diagram.pdf

    sns_v7_changes.pdf
  - Section III of the Space Preface

    Description of the SNS V7 format

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Future BR Software Applications

Implementation of Resolution 907 and 908

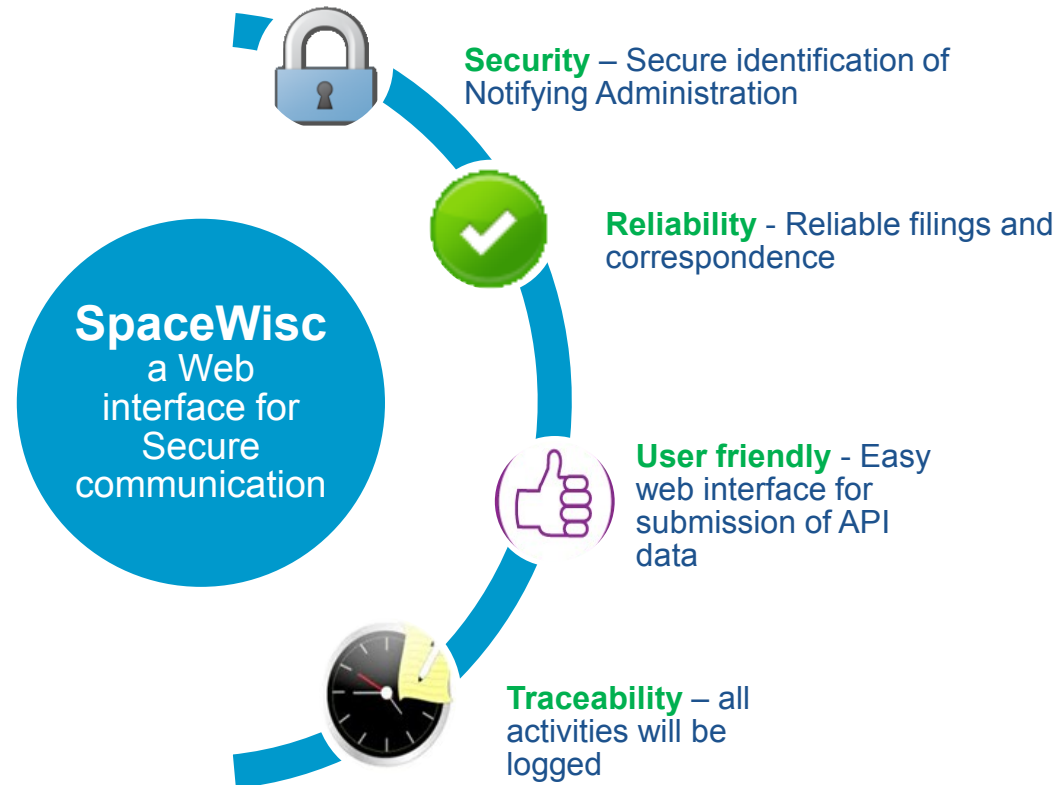| WRC 12 Instructs the BR to implement a secure paperless electronic approach	Administrations to submit APIs subject to Coordination under Section II of Article 9 to the BR
	Electronic correspondence between administrations and the BR
	Electronic correspondence between administrations

Implementation of Resolution 907 and 908

SpaceWisc a Web interface for Secure communication

Security – Secure identification of Notifying Administration

Reliability - Reliable filings and correspondence

User friendly - Easy web interface for submission of API data

Traceability – all activities will be logged

Future BR Software Applications

The **RAG** -- Radiocommunication Advisory Group -- advises the BR to

Implement a common application framework

Have a centralized database for Space data

Develop a Business continuity plan to secure the Master Register and BR Processing
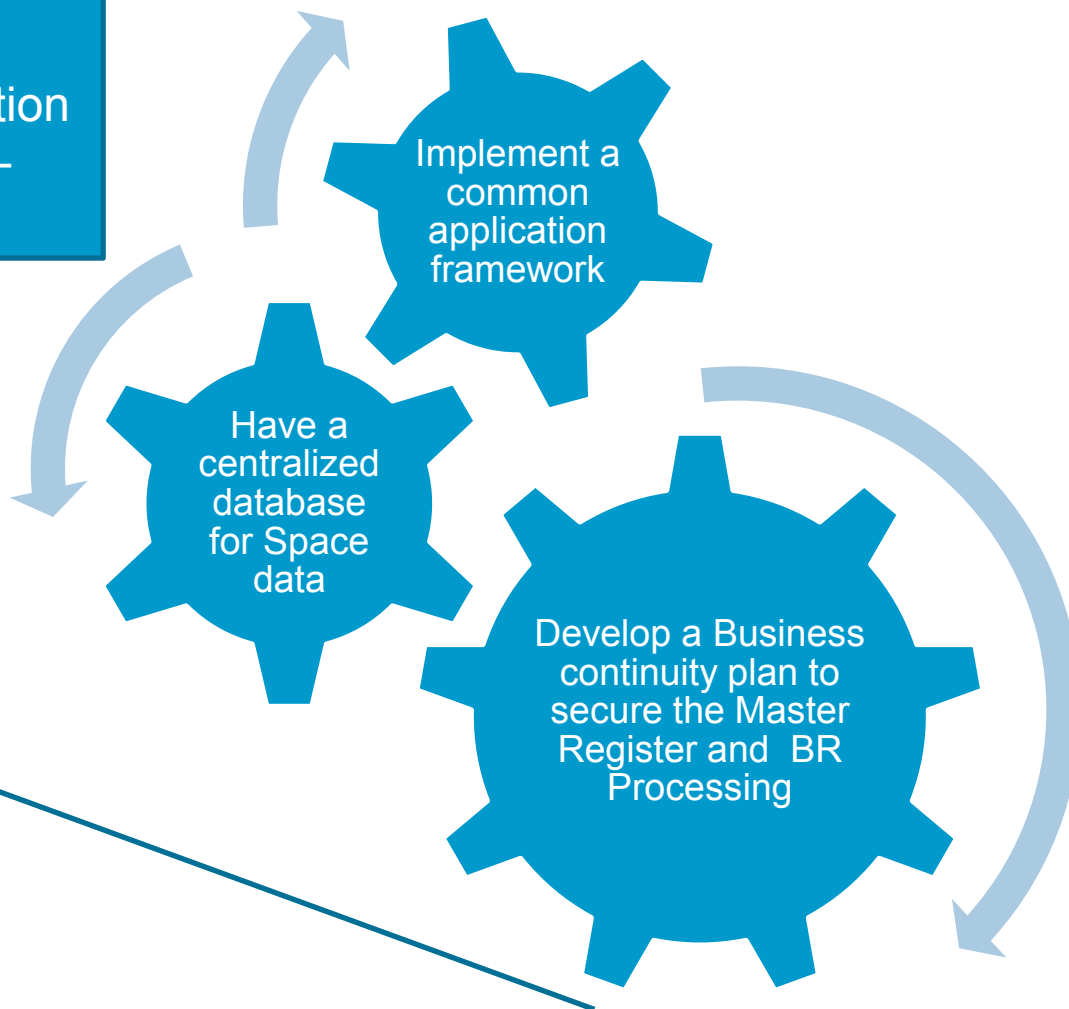
BR Space System and End-users

Current BR Space Network System	Future BR Space Information System

Providing you with services, support and training
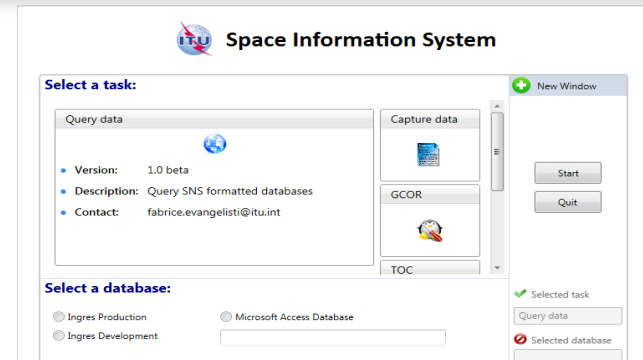
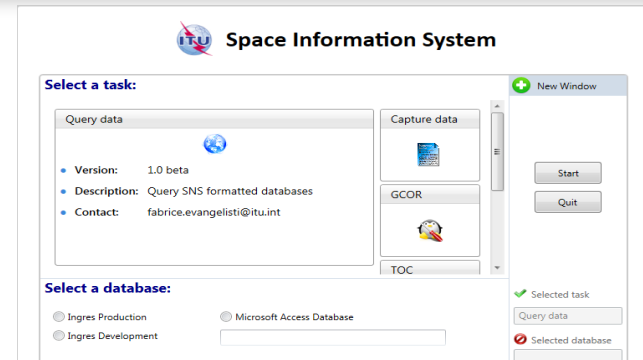In the future:
providing you with a new system
- Single user interface
- The same look and feel
- Rich end user experience
- Gain in terms of training and productivity

BR Space System: Get Involved

Current BR Space Network System

Future BR Space Information System

Your Feedback Matters !

E-mail to BRSAS@itu.int

The RAG: http://www.itu.int/en/ITU-R/conferences/rag/

We welcome your suggestions and comments

Give your advices and recommendations on the future BR Space System via the RAG group