BR space software

BRsoft

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Overview of BR Space Software

- Used with BR Space service data bases
- Description, relevant information, installation are provided on the BR IFIC (space services) and at the BR web page:
  - **http://www.itu.int/ITU-R/software/space/index.html**
- PC Based Software
  - SpaceQry, SpaceCap, SpaceVal, SpaceCom, SpacePub, GIMS, GIBC, SPS, Utilities: SRSConvert, SRSFixDB
- Web Based Software: SNS-Online, SNL-Online

SPACE SOFTWARE APPLICATIONS:

- **SAM (Space Applications Manager)** ***NEW!***
  - The main menu driven software for launch of BR space software applications
  - Provides for RSS feeds for latest updates from BR, store favorites, URL references to ITU/BR web pages

Overview of BR Space Software

- **SpaceCap** – the *capture* software
  - Used to prepare electronic notifications of satellite and earth stations in the space services for submission to BR
    - Appendix **4,** Annex-**2a** and **2b:** notification
    - BSS networks: App. **30** and **30A** (WRC-2000)
    - FSS networks: Appendix **30B** (WRC-2007)
    - Due diligence information: RES **49** (WRC-03)
  - Update local SRS with IFIC databases
- **SpaceQry** – the *query* software
  - Query any SNS-formatted database
    - Like SRS on DVD, any IFICnnnn data
  - Update local SRS with IFIC databases
  - Access to graphical data through GIMS
  - View validation results and print report

Overview of BR Space Software

- **SpaceVal** – the *validation* software
  - To validate space notices (satellite networks / earth stations)
  - To ensure data correctness and completeness, validity of BR space data
  - Involves checks on: simple field, range, and Cross reference of many fields
  - Some inter-record validation at different levels of network: like strap validation – can be COMPLEX
    - If one assigned frequency in group is strapped then all frequencies of the group must be strapped
    - Emission of uplink strapped group should match in downlink & vice versa
  - Validates electronic notices captured by the BR SpaceCap software, and from any other source if in the same format
  - Val results stored in a table in database, error messages can be viewed & printed with SpaceQry
  - SpaceCap can be used to correct errors
- **SpacePub** – the *publication* software
  - To print satellite networks & earth stations
  - IFIC (Part I-S, II-S, III-S), CR/C, CR/D
  - TSUM – transaction summary report

Overview of BR Space Software

- **GIMS – the *graphics* software**
  - Used for capture, modification, and viewing of graphical data (service areas, antenna gain contours) relating to the electronic notification of geo-stationary satellite networks
  - To view and create your own diagrams
  - Allows PFD calculations & Gain interpolation tools
- **IDWM -** the ITU Digitized World Map
- **SpaceCom – the *comment capture* software**
  - Stand alone software, used by the administrations to capture comments on
    - **API/A** Special Sections concerning comments under No. 9.3 in order to publish the Special Section API/B
    - **CR/C** Special Sections concerning requests for coordination under No. 9.11 to 9.14, 9.21 and RS33 2.1 in order to publish the Special Section CR/D/
    - **AP30(30A)/E Part A** or **AP30-30A/F/C** Special Sections in order to publish the Special Section AP30(30A)/E Part D and AP30-30A/F/D

Overview of BR Space Software

- **GIBC – the *batch calculations* software**
  - Graphical Interface for Batch Calculations
  - Technical Examination tools for the determination of coordination requirements on
    - Satellite Networks, based on: PFD (Power Flux Density)
      - Noise temperature increment & Coordination Arc.
    - AP30B examination
    - Earth Stations, based on:
      - Determination of the Coordination Area
- **SPS – the *space plans* software (formerly "MSpaceG")**
  - Determination of the coordination requirements for the Plans for space networks in Appendices 30 and 30A of the Radio Regulations
- **SRSConvert**
  - Utility to convert a SNS formatted version-5 (or even V-4) databases into a version-6 database, to use with software V-6
- **SRSFixDB**
  - Fix data problems caused by earlier versions of SpaceCap or other sources, removes old BR processing data

Overview of BR Space Software

- **SNS Online**
  - Online access to the SNS database, latest up to date information, yearly subscription, free for TIES users
  - Database structure, tables, fields, detailed explanations
  - Query system – statistics, graphical GIMS data, latest BR updates and news
  - Submission of filings, Demo Pages, Discussion Forum, web: **http://www.itu.int/sns/**
- **SpaceRefdb.exe: reference data base software**
  - To install BR Soft reference tables which are used by BR space software applications
  - To update the reference tables
  - An up-to-date copy of the reference tables database is provided on each BR IFIC and software is on web link:
  - **http://www.itu.int/ITU-R/software/space/spacerefdb/index.html**

Conclusion

- SNS data base, data Structures, notice exploration and submission are important, familiarity with these would help in use of BR space software
- Best way to create electronic notice is to use BR's SpaceCap software
- BR's space validation software should be run after capture on the notice to check its validity and correctness.
- Presently, SNS DB contains AP4 data of **more than**: **12500** geo satellite filings, **1300** n-geo filings and **8900** earth station filings
- WRC–12 would lead to a NEW SNS data base version ! (v.7)
- Regular reference to BR web site and use of SNS Online, SAM, for latest Updates, versions and news
- ITU/BR web link: biennial & regional seminars, workshops, provides good information

  http://www.itu.int/ITU-R/index.asp?category=conferences&rlink=seminars&lang=en

- **NOTE:** Your feedback and comments would **certainly help** BR to improve its services and the software

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Questions ?

Committed to connecting the world