

ITUEvents

ITU World Radiocommunication Seminar 2018

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Geneva, Switzerland

www.itu.int/go/ITU-R/WRS-18



Introduction
to
BR Space Software

By Miroslav Ćosić
Head, Space Application
Software, BR/IAP

ITU HQ Geneva,
4 December, 2018

BR Space Software



Why?

- Purpose of BR Space Software

What?

- Overview of current BR Space Software

Where to get it?

- From where to download BR Space Software?

Coming soon...

- The future of BR Space Software & Databases

BR Space Software



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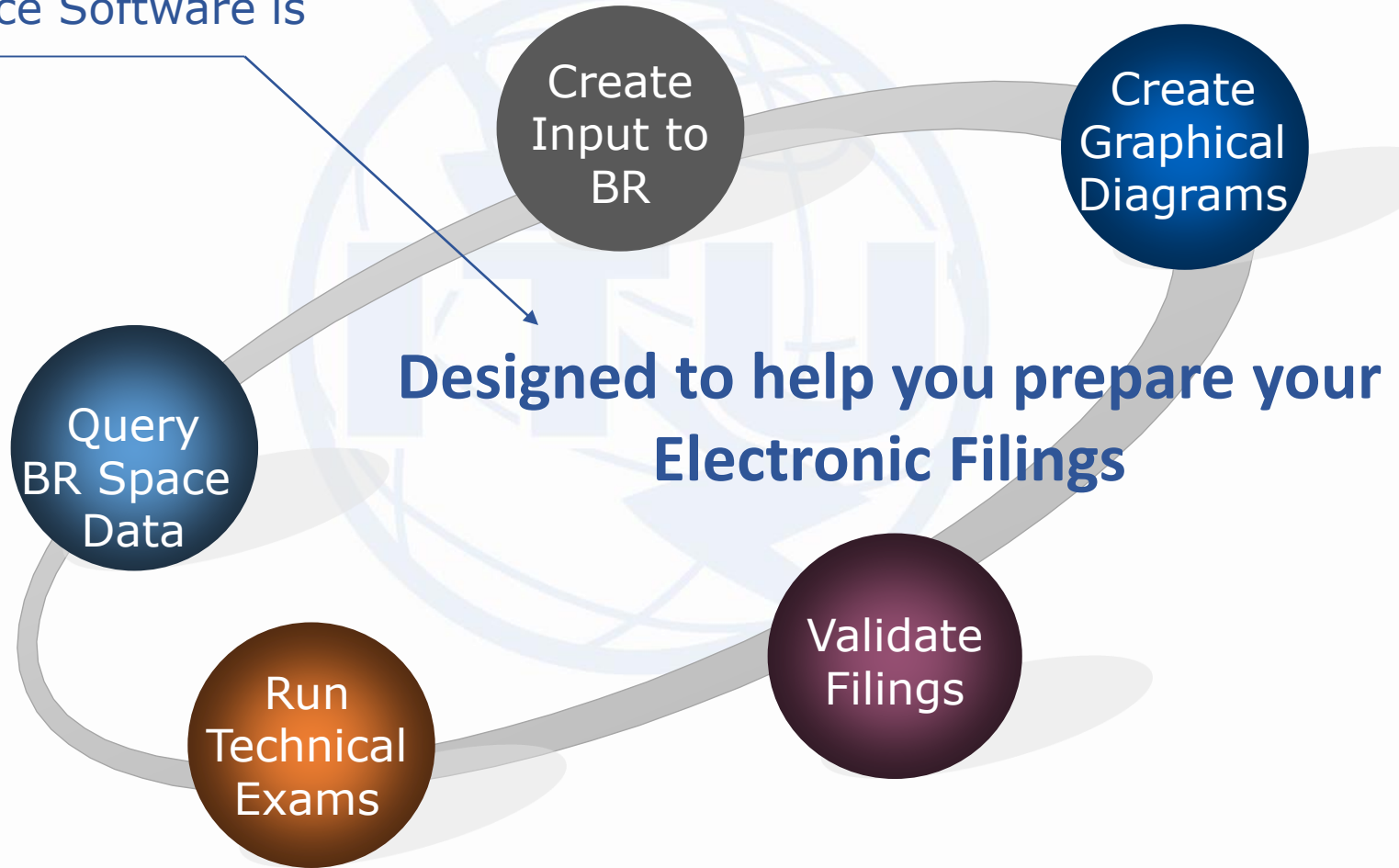
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Purpose of BR Space Software



BR Space Software is



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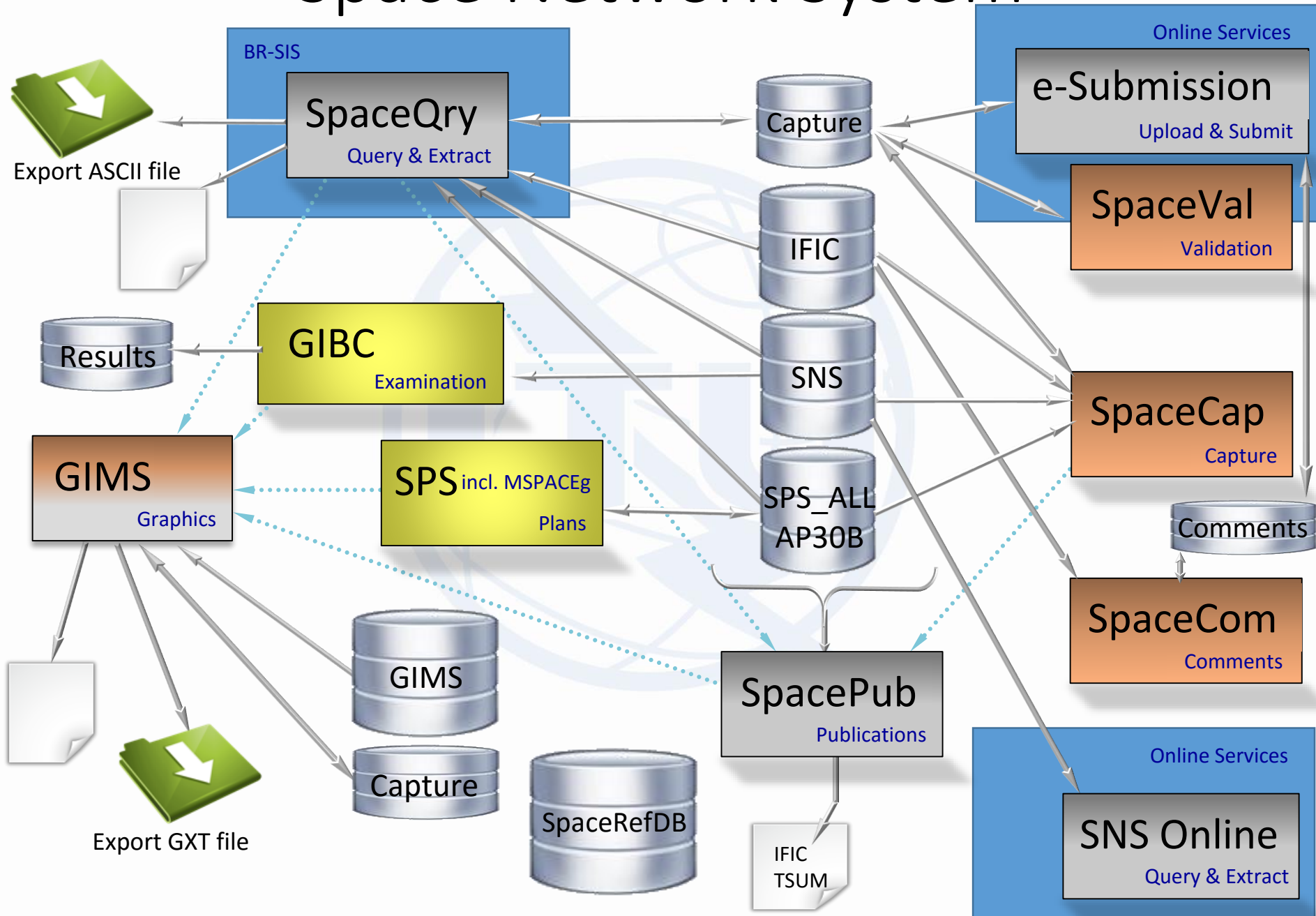
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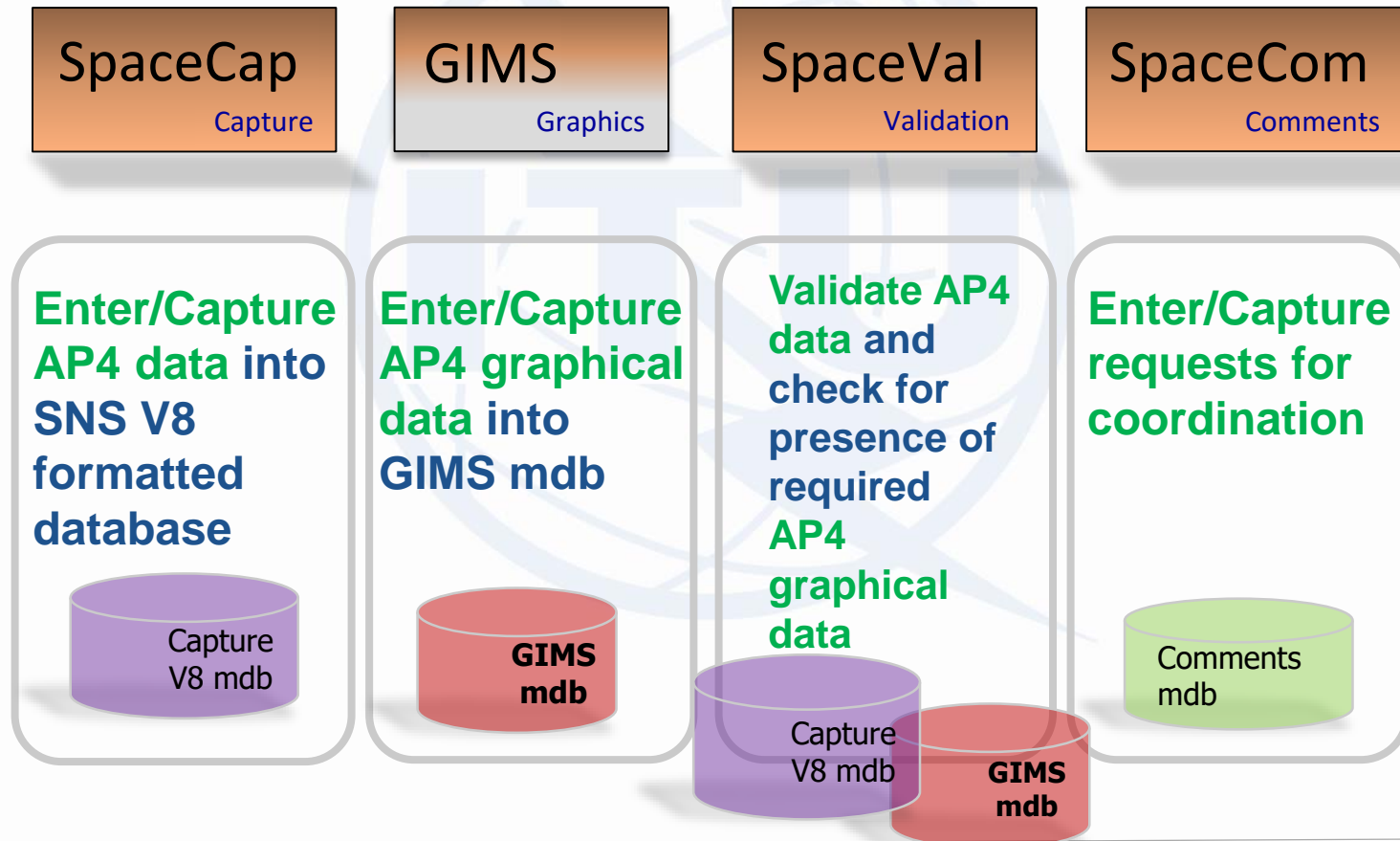
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Space Network System



Space Services Data Entry Software



Space Services Data Query Software



SpaceQry

Query & Extract

Query
satellite and
Earth stations
in the space
services from
-srsXXXX.mdb
-ificXXXX.mdb
-SPS_ALL_IFIC
xxxx.mdb
-30B_xxxx.mdb

SNS Online

Query & Extract

Query
satellite and
Earth stations
in the space
services from
-SNS master
database

SpacePub

Publications

Print
satellite and
Earth stations
in the space
services from
-srsXXXX.mdb
-ificXXXX.mdb
-SPS_ALL_IFIC
xxxx.mdb
-30B_xxxx.mdb

GIMS

Graphics

Query
for graphical
data in the
GIMS database

Space Services Tech Exams Software



GIBC

Graphical Interface for Batch Calculations

PFD
-Space
-Terr.

AP7

AP8

PFD
AP30/30A

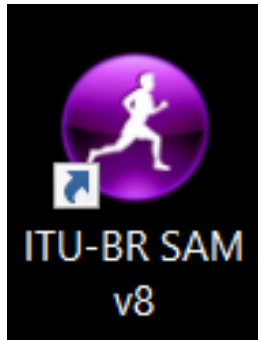
AP30B

SPS

the *space plans* software (including “MSPACEg”)

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

Space Application Manager



Navigation icons: Home, Search, File, Settings.

Best match

- SAM v8**
Desktop app

Documents

ITU-BR Space Applications Manager v8.0.0.1 (SNS V8)

Navigation: Favorites, BR Soft, BR Web

AP30BReport	Ap30BTexCap
AP7Capture_v8	BR-SIS SpaceQry
BR-SIS SRSCovert	BR-SIS Validation
BSS_Marg	GIBC
GIMS	IDWM

ITU International Telecommunication Union
Committed to connecting the world

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Latest BR Space Software Version



Download from the BR web site

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



From the IFIC DVD



Automatic Update

Installation requires administrator privileges



- **Each World Radiocommunication Conference introduces new resolutions and changes to the Radio Regulations**
 - Decisions taken at WRC-12: v7
 - *New due diligence procedure for 21-22.4 GHz (RES552)*
 - *More details: CR/338*
 - Decisions taken at WRC-15: v8
 - *New AP4 data elements*
 - *Support new provisions as per CR/411 of 1 Dec 2016*
 - *Changes to CR/C processing: CR/415 of 9 Dec 2016*
 - Decisions to be taken at WRC-19: v9 [tentative 1 Jan 2021]
 - *Impact on all desktop and web applications*

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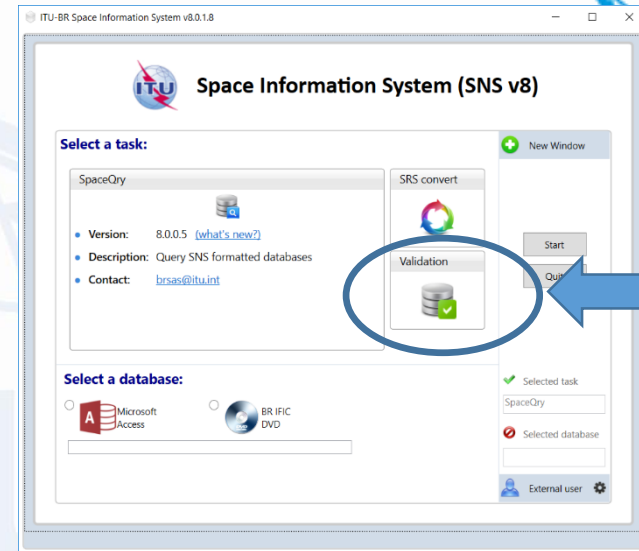
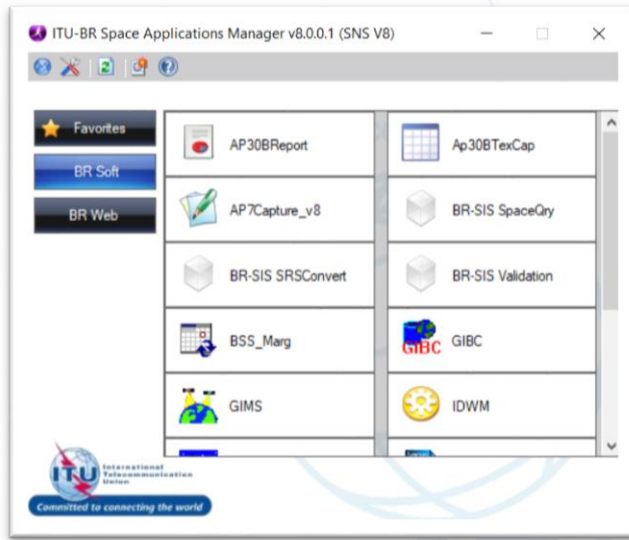
Future of BR Space Software



- **Improvements to the installation experience**
 - Installing under Program Files
 - Silent installation
 - Option to disable web update at install time

 - **Installer changes to be made available as v8.1 in Q2 2019**
 - Version change necessary for install/uninstall purposes
 - No database schema changes
-

Future of BR Space Software



BETA
version of
BR-SIS
Validation

Current BR Space Network System

Future BR Space Information System

- Classical desktop applications
- Different user interfaces
- Separation of desktop applications and web services

- Single user interface
- Consistent look and feel
- Rich user experience
- Gain in terms of training and productivity
- Seamless integration with existing and future online services and applications

Future of BR Space Software



➤ **More web applications and services**

- e-Correspondence (Resolution 907 (rev. WRC-15))
 - *Secure web application to replace fax and e-mail correspondence*
- SpaceCom Online
 - *To replace the SpaceCom legacy desktop software*
 - *To phase out the comments MDB container*

➤ **Better integration of web applications**

- e-Submission
 - SNS Online
 - SNL
 - As-received
 - Satellite Name Changes
-

Future of BR Space Software



- **New AP8, PFD (space), PFD (terrestrial) exam software:**
 - Migrate to modern technology for easier maintenance
 - Better performance
 - More user-friendly output
 - Benefit from multi-core processors
 - Detailed results

- **New PFD (NGSO) exam software**

Future of BR Space Databases



Legacy format

Increasingly considered to be a security risk (macros, VBA)

Size restrictions

- 2GB max file size
- 1GB max table size



SQLite test database available in Q1 2019

BR Space Software to support SQLite (in BETA mode) (2019-2020)

SQLite becomes the official database format for BR Space Software for v9 (2021)



- Popular**
- Free**
- Multiplatform**
- Well-tested**
- Free tools available**
- Native or ODBC connectivity**
- Removes the size restrictions**



Thank you

**For all questions and comments
concerning BR Space Software:
brsas@itu.int**