30TH WORLD RADIOCOMMUNICATION SEMINAR

24 – 28 October 2022
Geneva, Switzerland

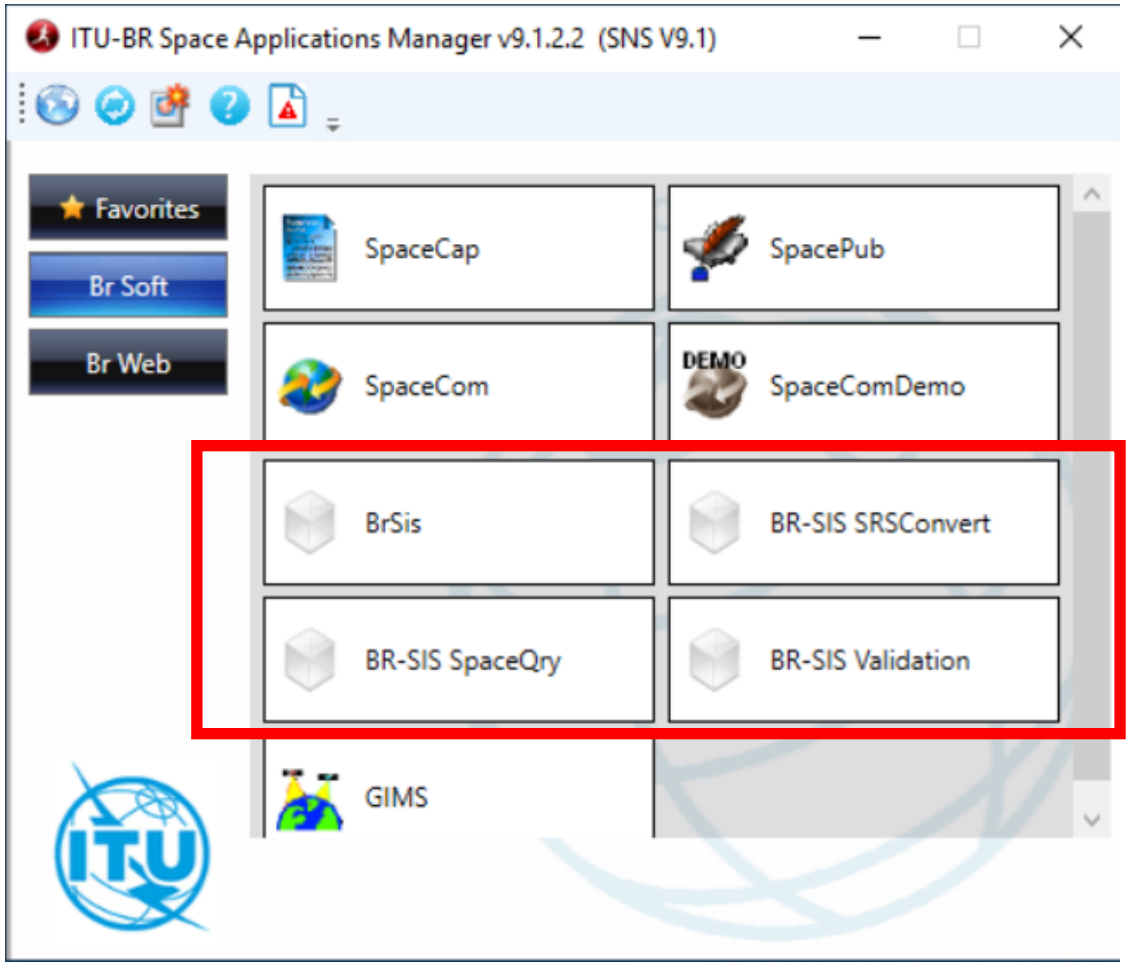
BRSIS
BR Space Information System

Fabrice Evangelisti – BR-IAP-SAS

www.itu.int/go/wrs-22

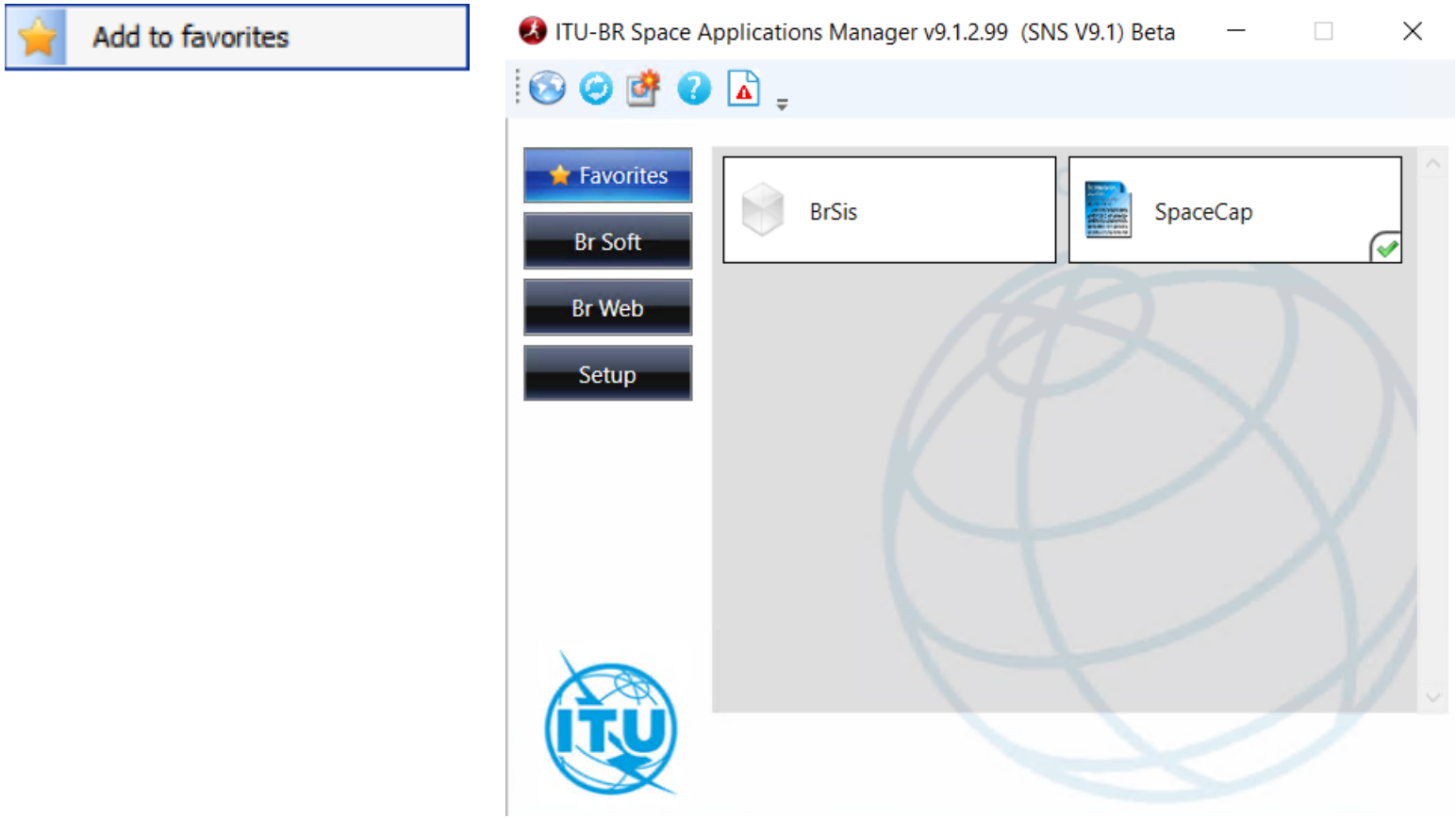
#ITUWRS

SAM

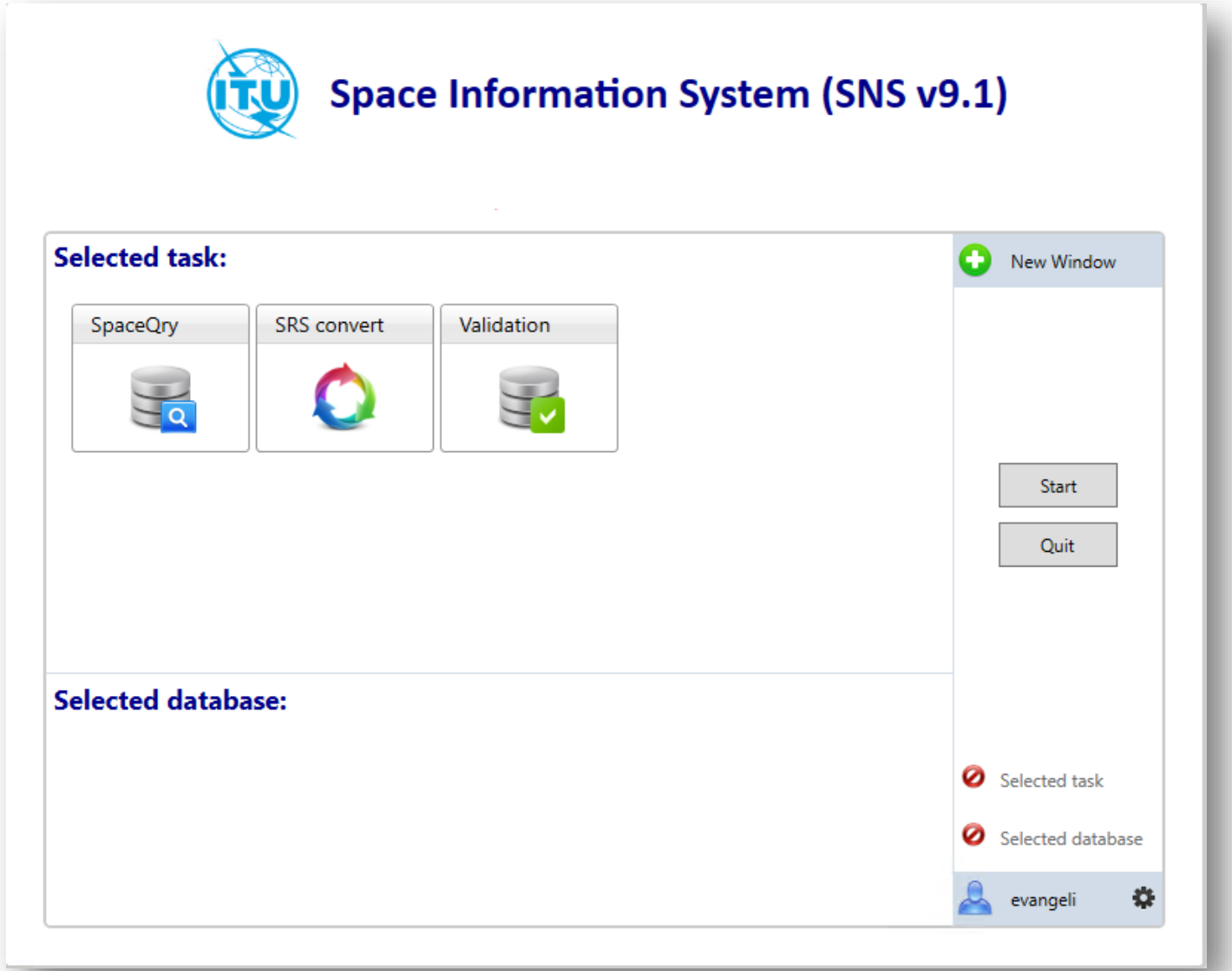


ITUWRS GENEVA2022

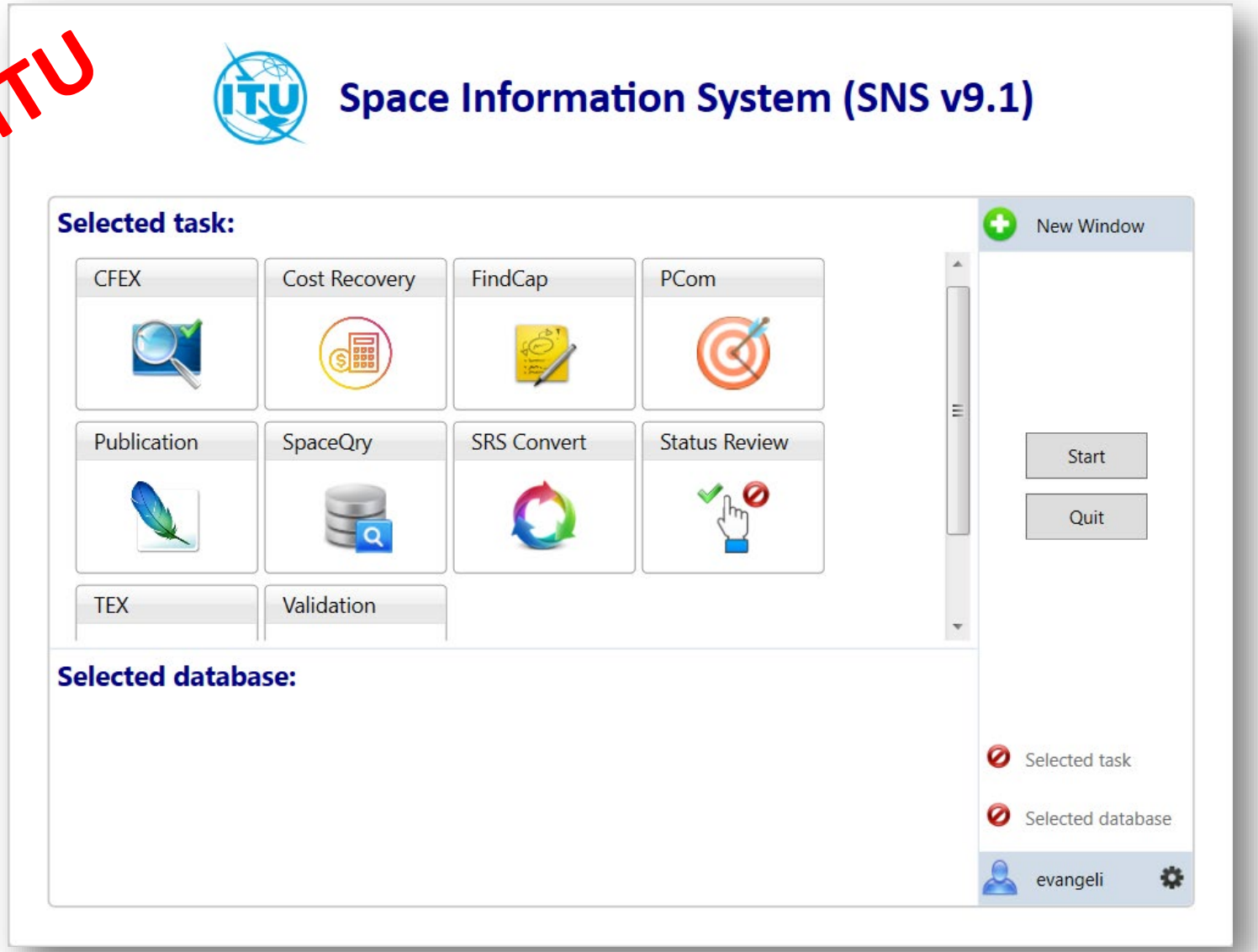
SAM



ITUWRS GENEVA2022

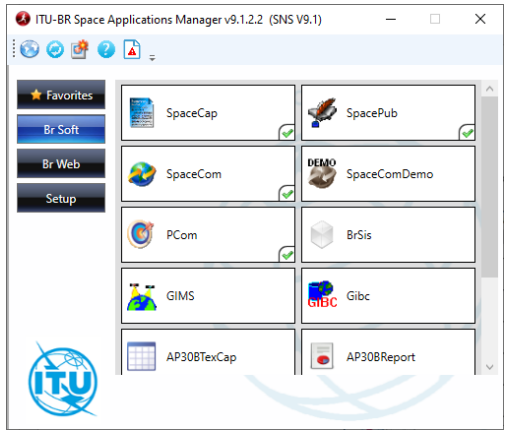

Space Information System (SNS v9.1)
Selected task:
SpaceQry
SRS convert
Validation
New Window
Start
Quit
Selected database:
Selected task
Selected database
evangeli

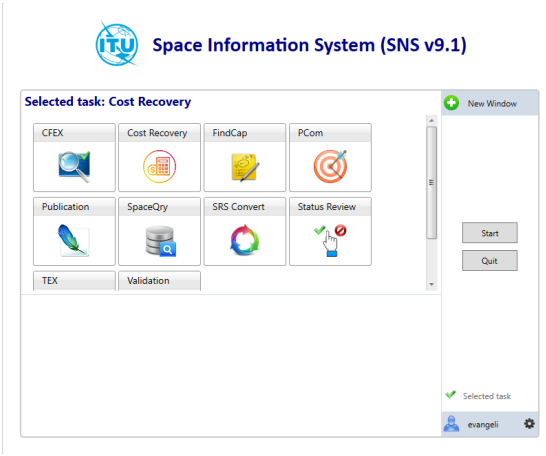
BRSIS in ITU



ITUWRS GENEVA2022

Future of BR Space Software





Current BR Software

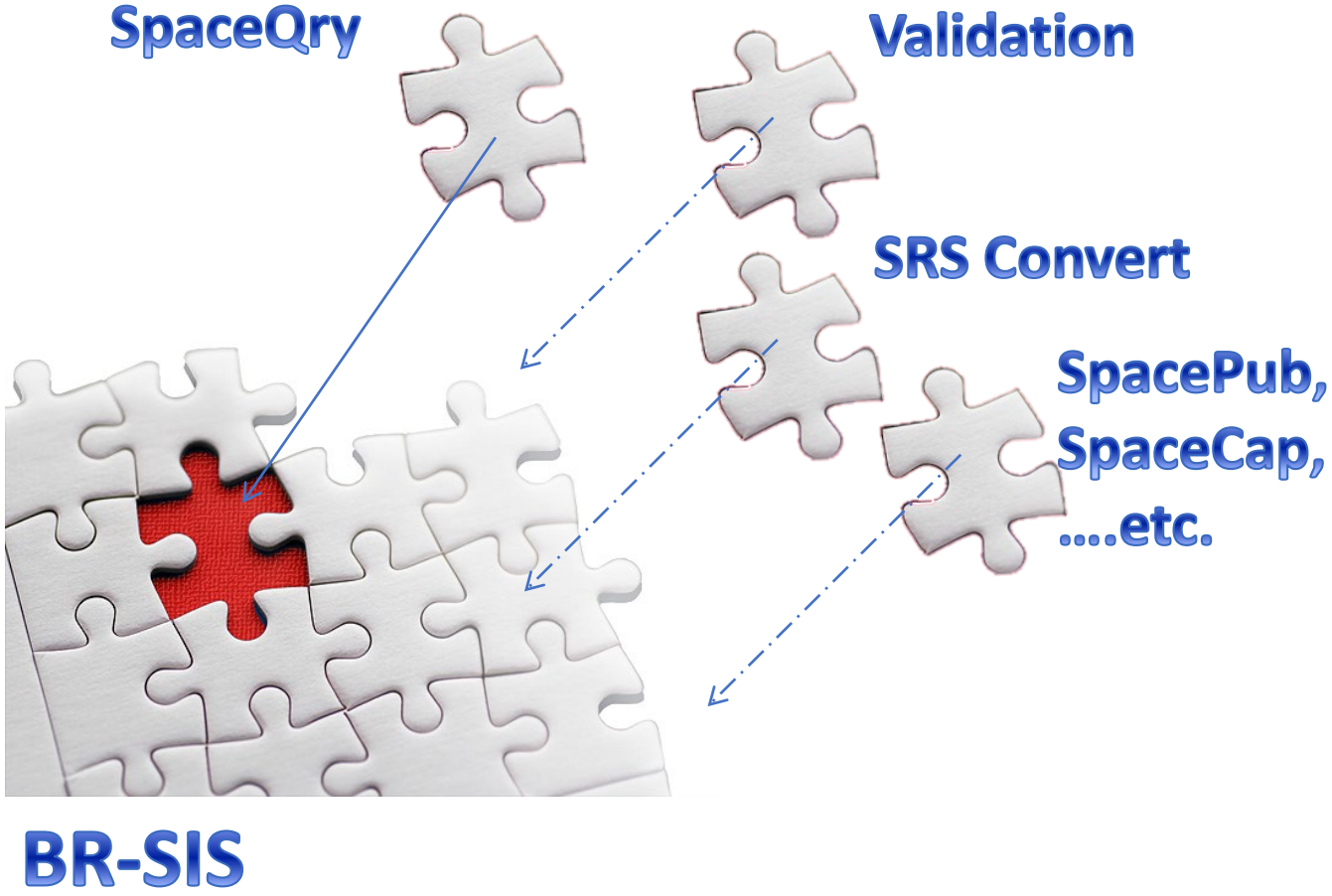
- Several old applications
- Different look and feel
- Different programming language

Future BR Space Information System

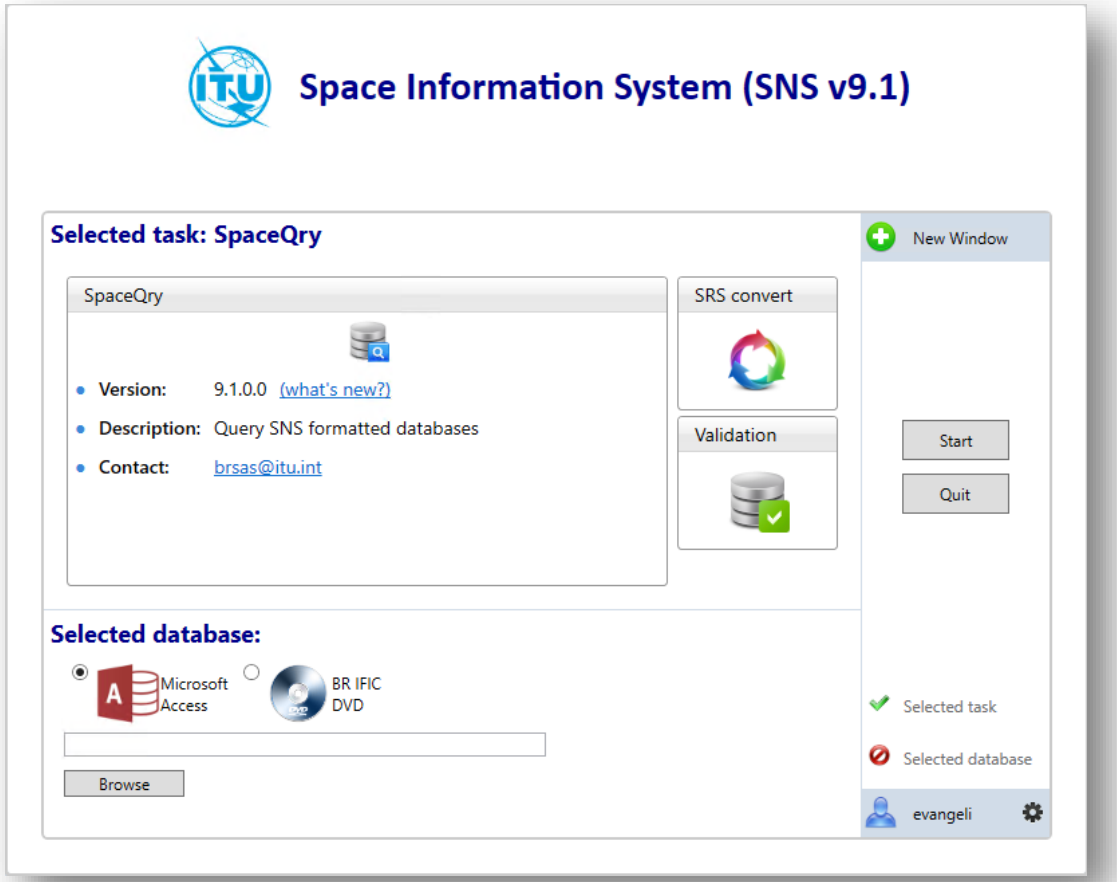
- Single user interface
- Consistent look and feel
- Rich user experience
- Gain in terms of training and productivity
- Seamless integration with existing and future applications

ITUWRS GENEVA2022

Evolving System “building blocks”

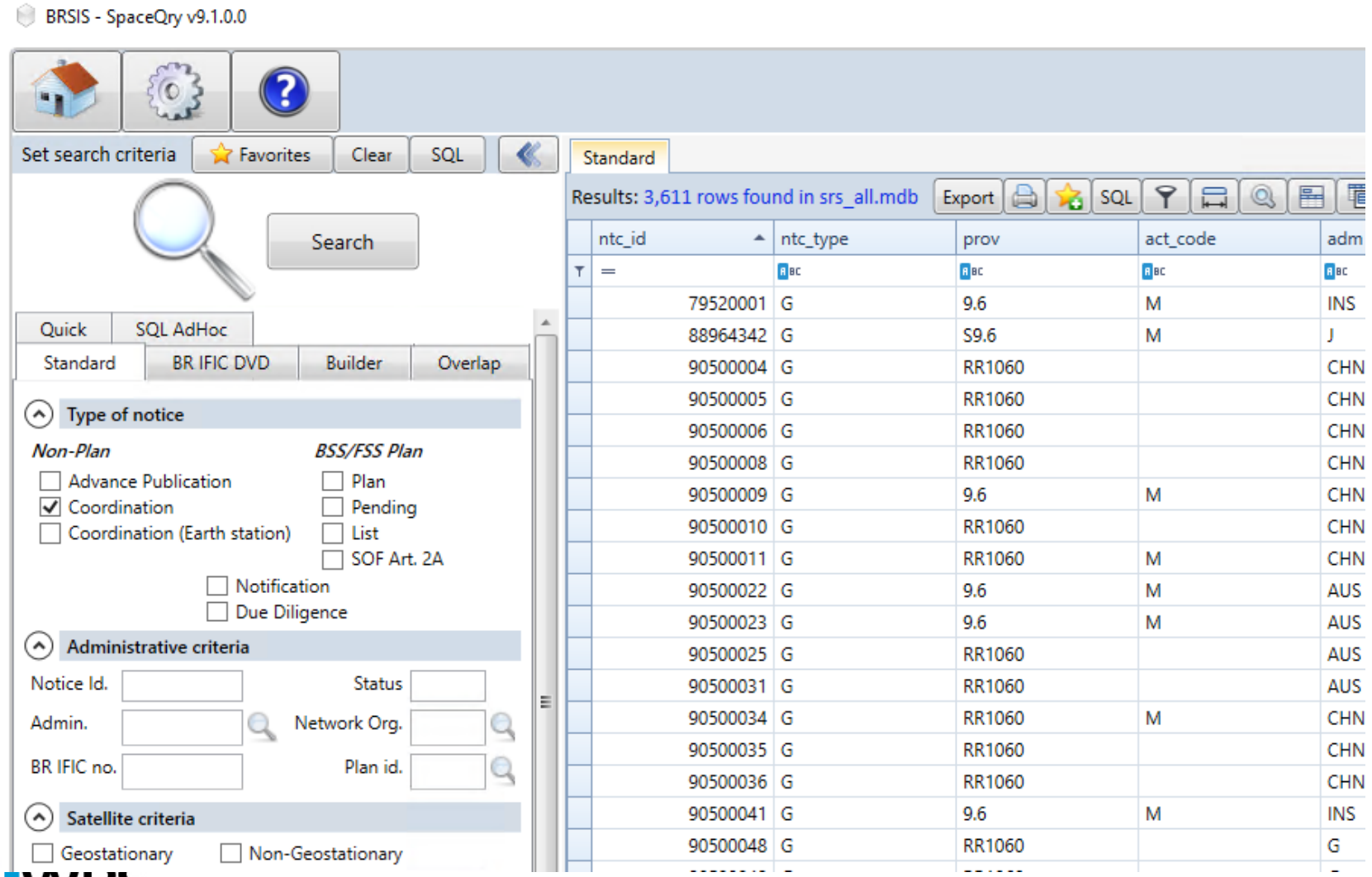


BRSIS-SpaceQry



ITUWRS GENEVA2022

SpaceQry main screen



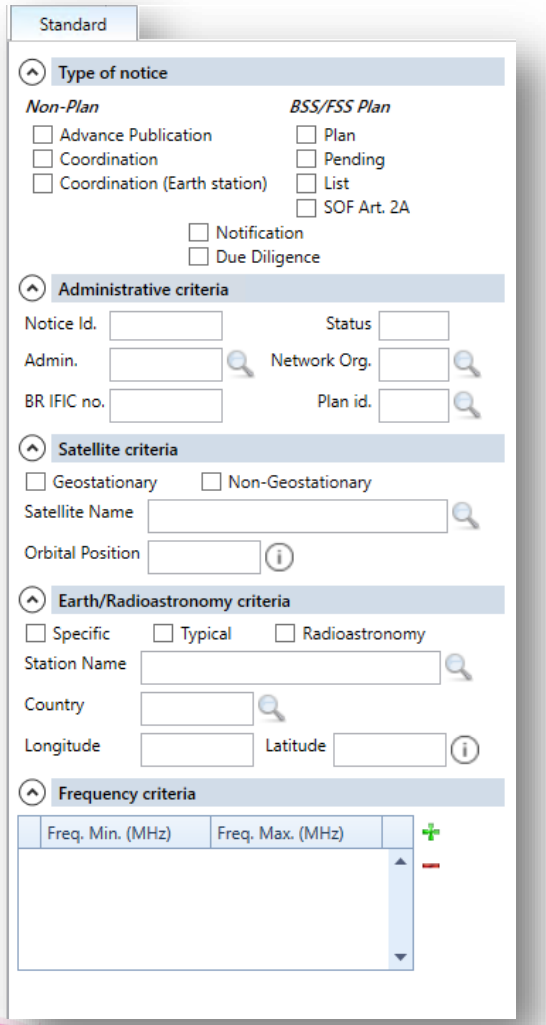
2 Execute

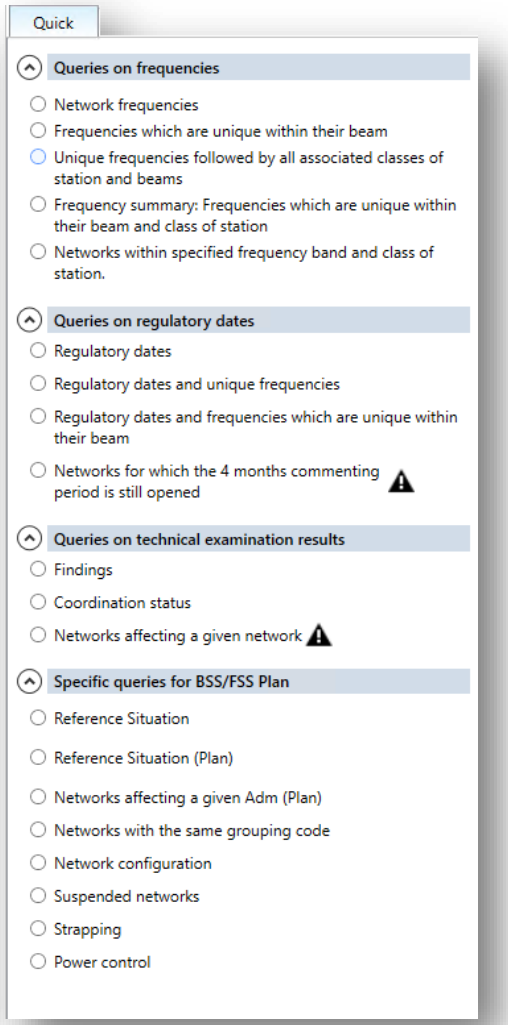
1 Set criteria

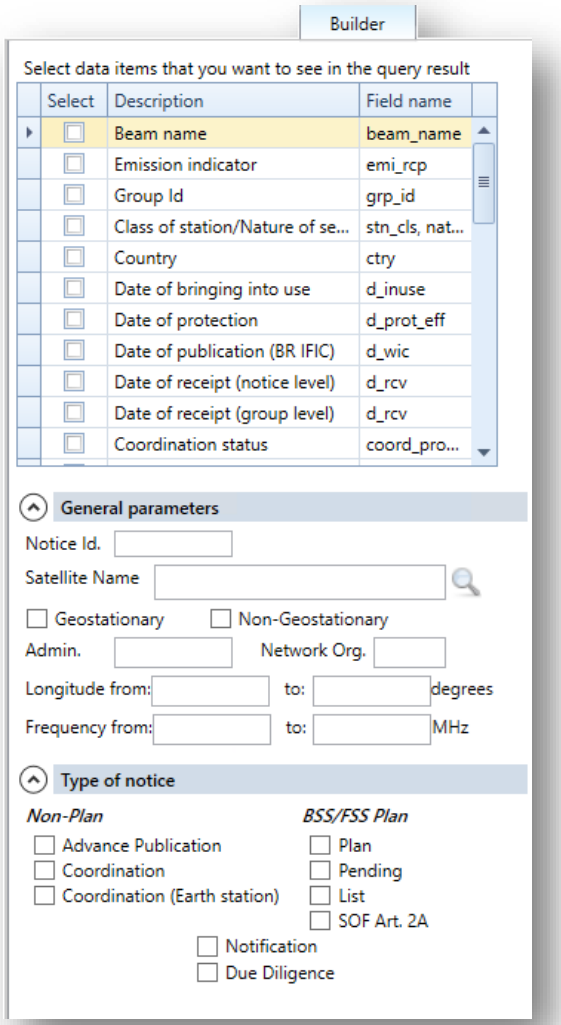
3 Show results

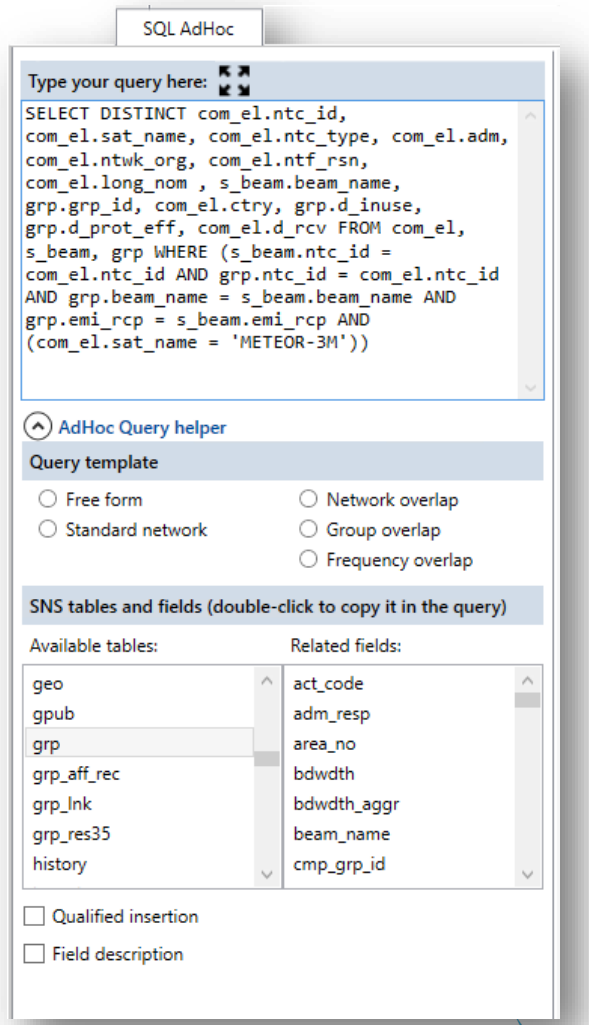
ITUWRS GENEVA2022

SpaceQry criteria tabs



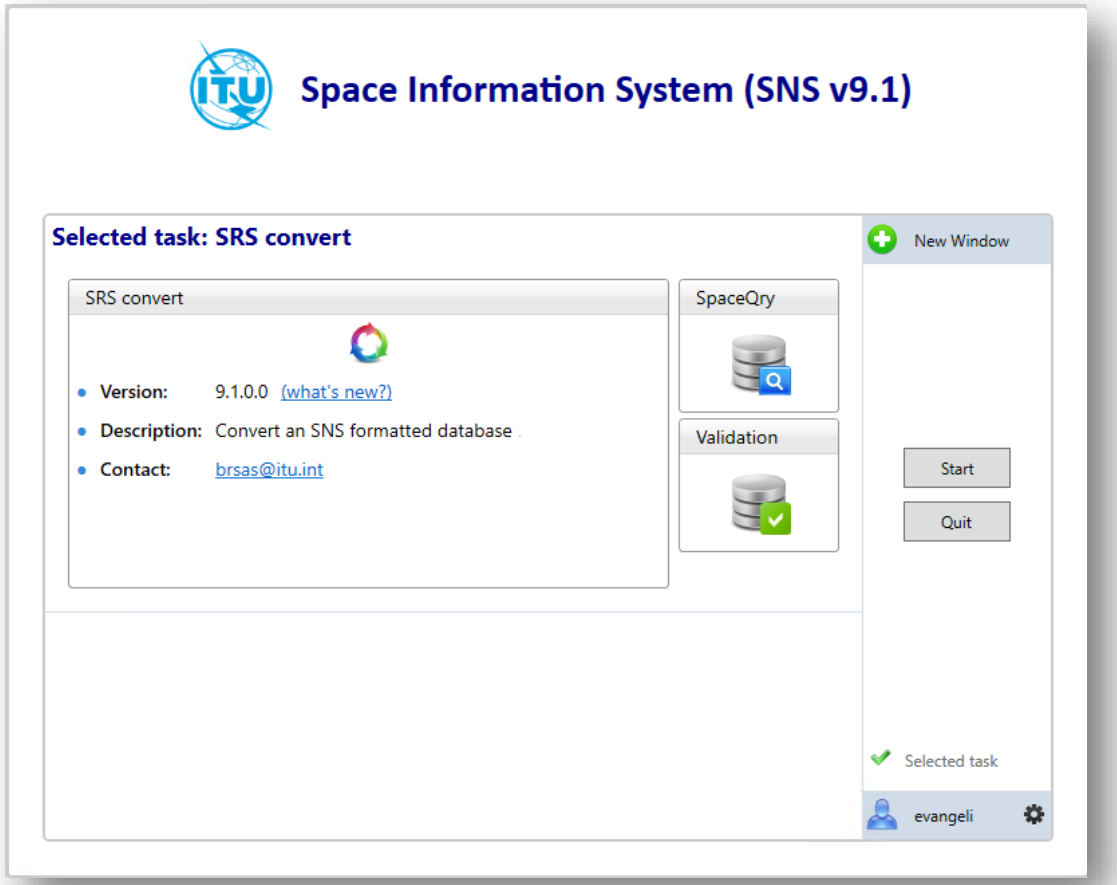




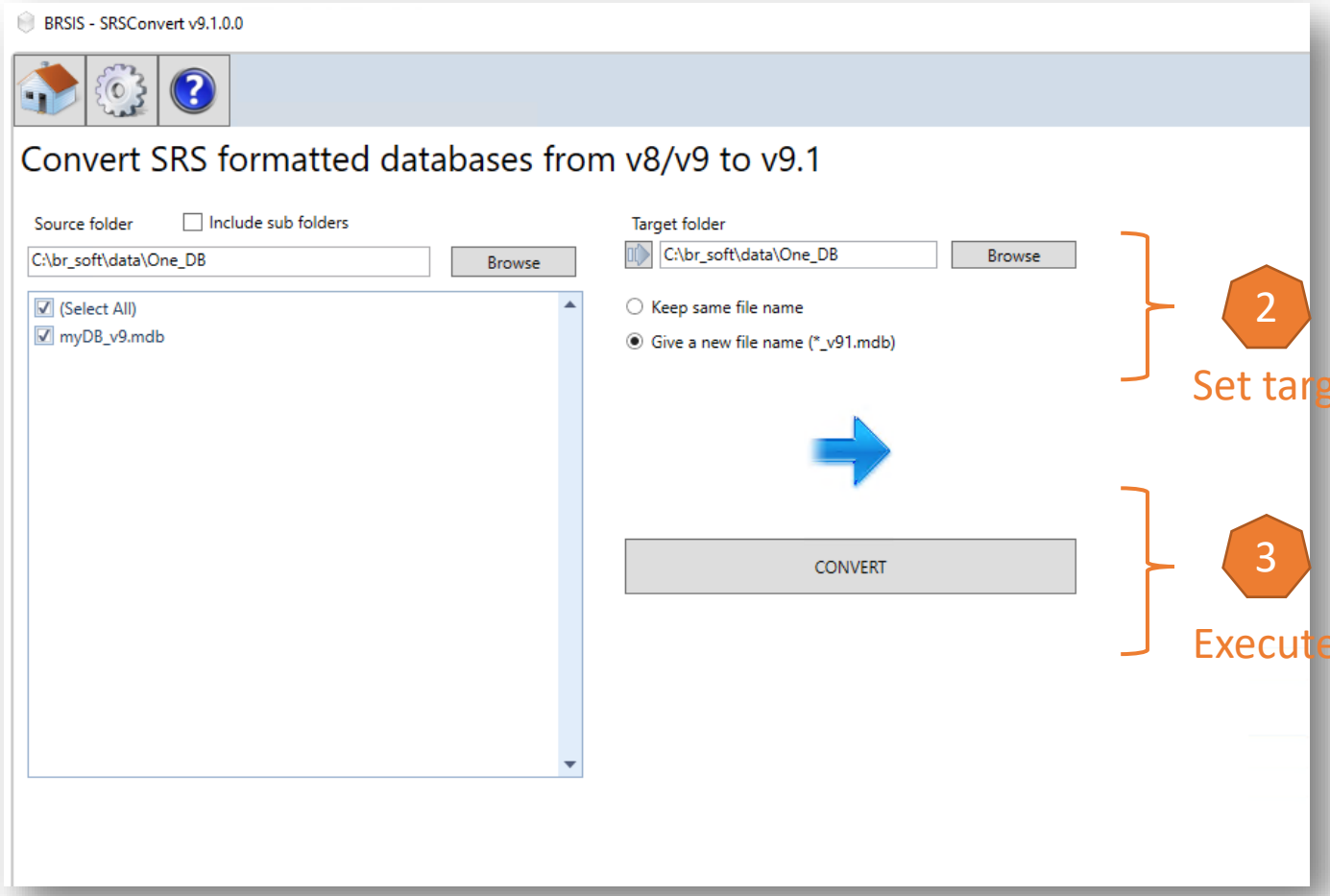


ITUWRS GENEVA2022

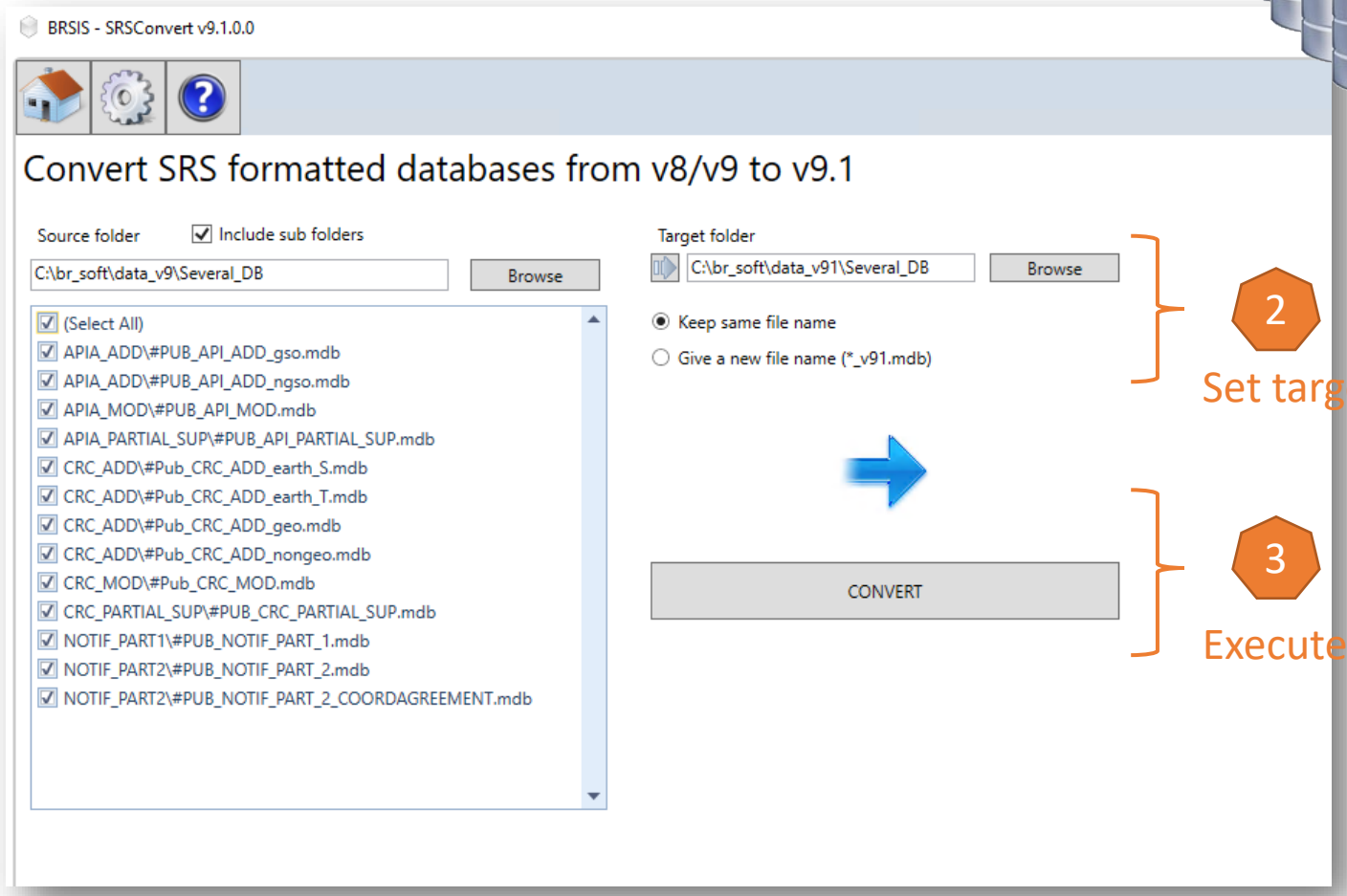
BRSIS-SRS convert



SRS convert – one database



SRS convert – several databases



1

Set source folder

2

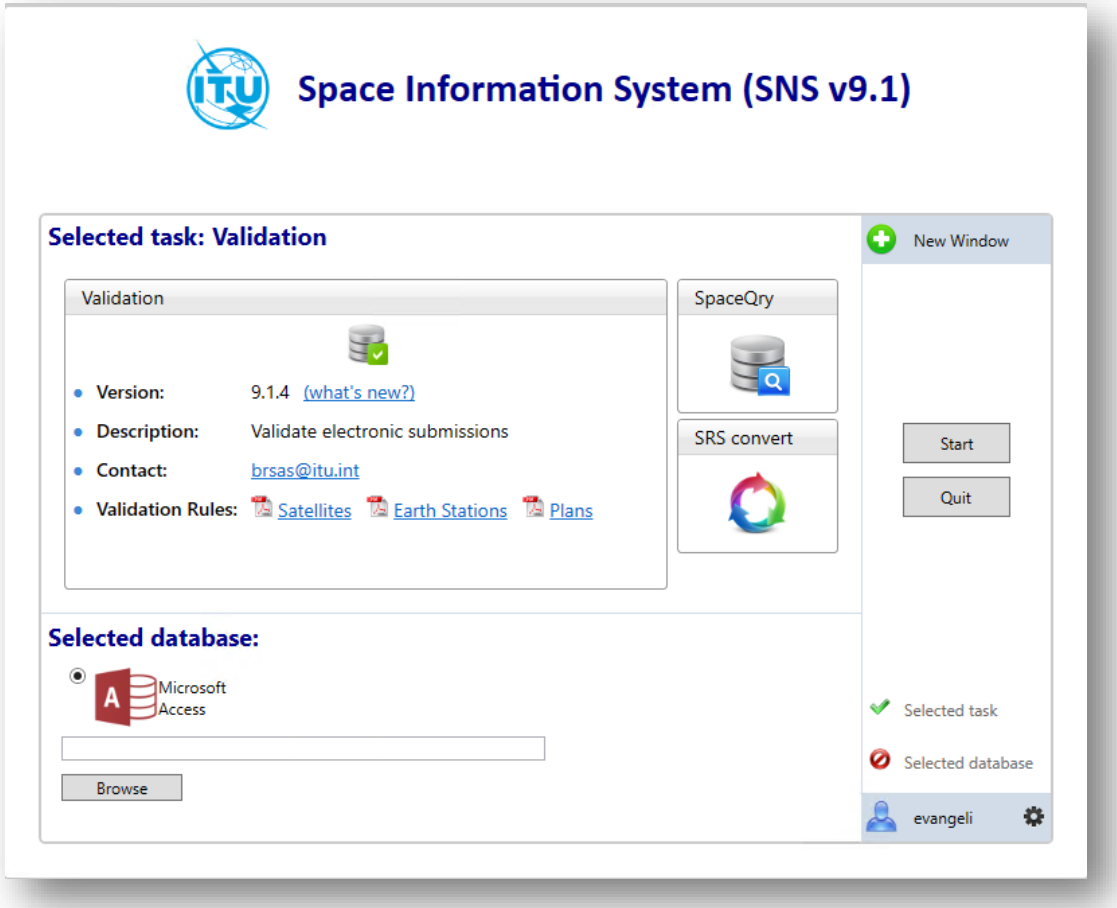
Set target folder

3

Execute

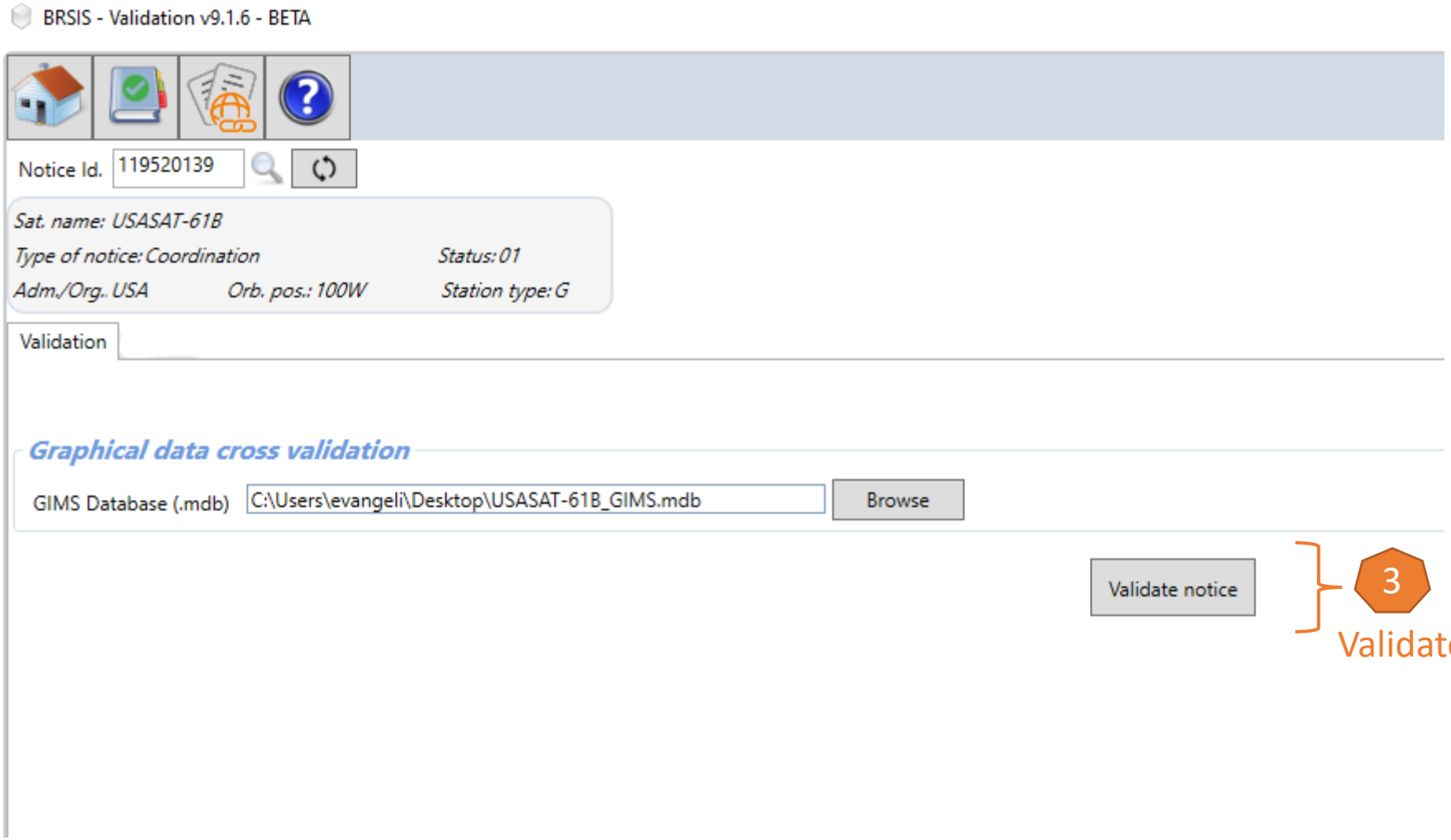
ITUWRS GENEVA2022

BRSIS-Validation



ITUWRS GENEVA2022

Validation

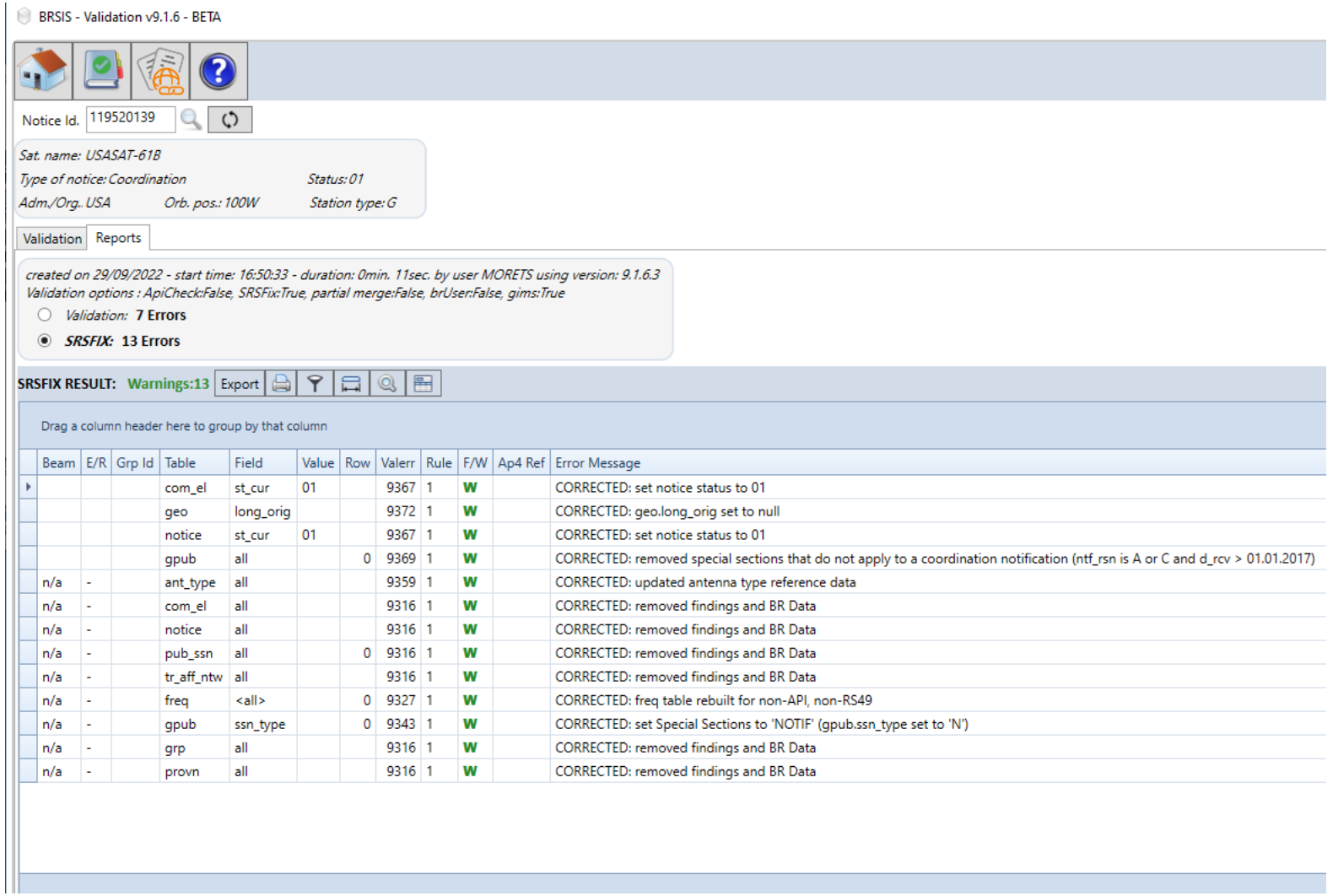


1 Enter notice id.

2 Enter GIMS db

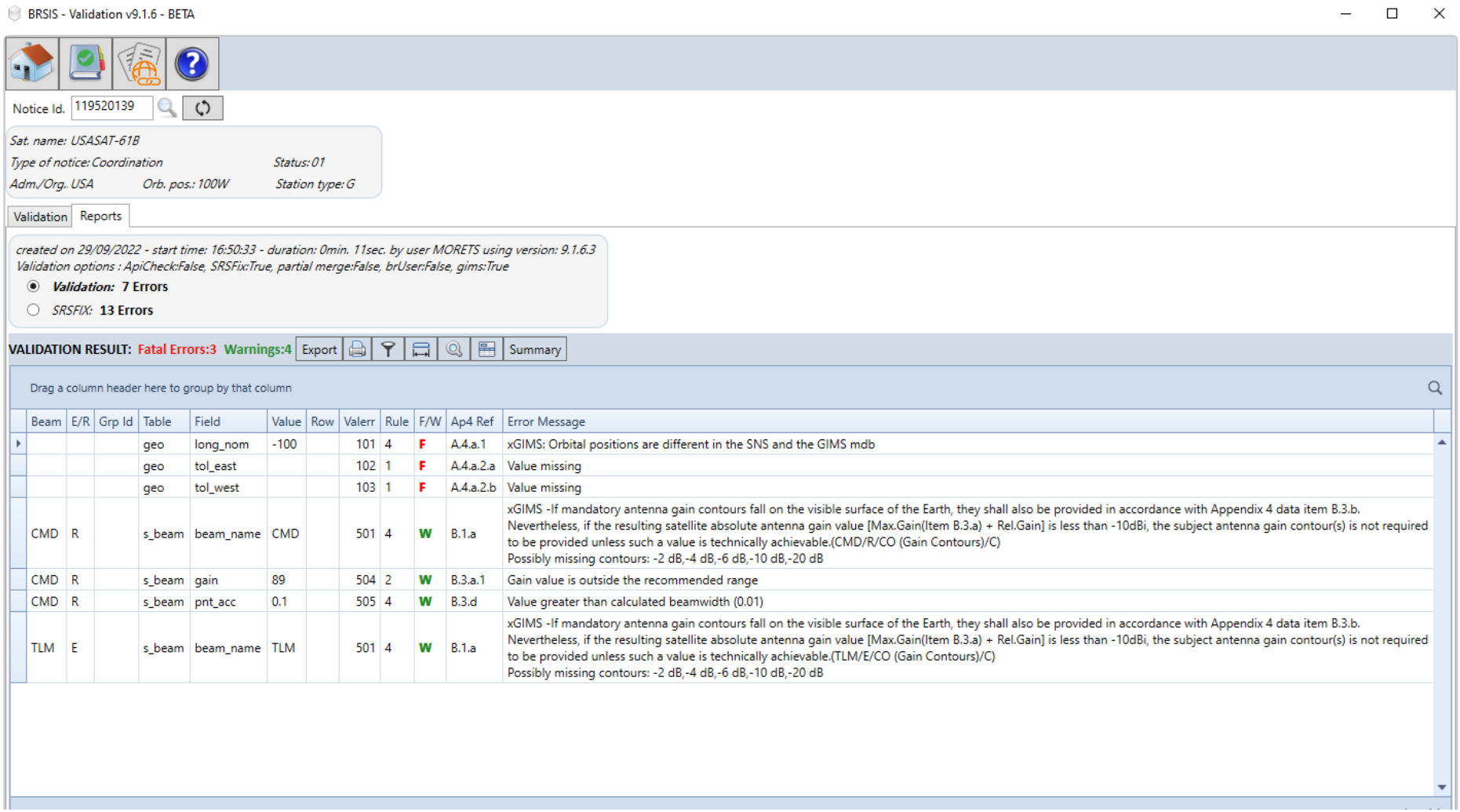
3 Validate

Validation



Beam	E/R	Grp Id	Table	Field	Value	Row	Valerr	Rule	F/W	Ap4 Ref	Error Message
			com_el	st_cur	01		9367	1	W		CORRECTED: set notice status to 01
			geo	long_orig			9372	1	W		CORRECTED: geo.long_orig set to null
			notice	st_cur	01		9367	1	W		CORRECTED: set notice status to 01
			gpub	all		0	9369	1	W		CORRECTED: removed special sections that do not apply to a coordination notification (ntf_rsn is A or C and d_rcv > 01.01.2017)
n/a	-		ant_type	all			9359	1	W		CORRECTED: updated antenna type reference data
n/a	-		com_el	all			9316	1	W		CORRECTED: removed findings and BR Data
n/a	-		notice	all			9316	1	W		CORRECTED: removed findings and BR Data
n/a	-		pub_ssn	all		0	9316	1	W		CORRECTED: removed findings and BR Data
n/a	-		tr_aff_ntw	all			9316	1	W		CORRECTED: removed findings and BR Data
n/a	-		freq	<all>		0	9327	1	W		CORRECTED: freq table rebuilt for non-API, non-RS49
n/a	-		gpub	ssn_type		0	9343	1	W		CORRECTED: set Special Sections to 'NOTIF' (gpub.ssn_type set to 'N')
n/a	-		grp	all			9316	1	W		CORRECTED: removed findings and BR Data
n/a	-		provn	all			9316	1	W		CORRECTED: removed findings and BR Data

Validation



Beam	E/R	Grp Id	Table	Field	Value	Row	Valerr	Rule	F/W	Ap4 Ref	Error Message
			geo	long_nom	-100		101	4	F	A.4.a.1	xGIMS: Orbital positions are different in the SNS and the GIMS mdb
			geo	tol_east			102	1	F	A.4.a.2.a	Value missing
			geo	tol_west			103	1	F	A.4.a.2.b	Value missing
CMD	R		s_beam	beam_name	CMD		501	4	W	B.1.a	xGIMS -If mandatory antenna gain contours fall on the visible surface of the Earth, they shall also be provided in accordance with Appendix 4 data item B.3.b. Nevertheless, if the resulting satellite absolute antenna gain value [Max.Gain(Item B.3.a) + Rel.Gain] is less than -10dBi, the subject antenna gain contour(s) is not required to be provided unless such a value is technically achievable.(CMD/R/CO (Gain Contours)/C) Possibly missing contours: -2 dB,-4 dB,-6 dB,-10 dB,-20 dB
CMD	R		s_beam	gain	89		504	2	W	B.3.a.1	Gain value is outside the recommended range
CMD	R		s_beam	pnt_acc	0.1		505	4	W	B.3.d	Value greater than calculated beamwidth (0.01)
TLM	E		s_beam	beam_name	TLM		501	4	W	B.1.a	xGIMS -If mandatory antenna gain contours fall on the visible surface of the Earth, they shall also be provided in accordance with Appendix 4 data item B.3.b. Nevertheless, if the resulting satellite absolute antenna gain value [Max.Gain(Item B.3.a) + Rel.Gain] is less than -10dBi, the subject antenna gain contour(s) is not required to be provided unless such a value is technically achievable.(TLM/E/CO (Gain Contours)/C) Possibly missing contours: -2 dB,-4 dB,-6 dB,-10 dB,-20 dB

Thank you!

ITU – Radiocommunication Bureau

Questions to brmail@itu.int or brsas@itu.int

ITUWRS GENEVA2022