



ITUWRS
ONLINE2020

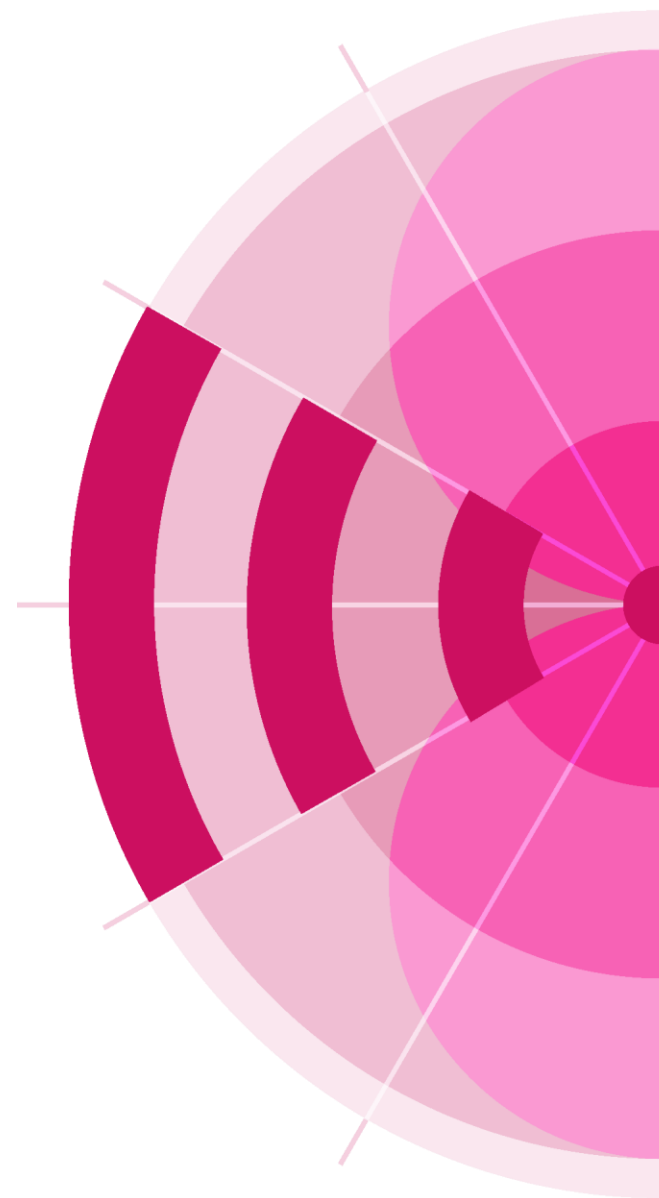
29TH WORLD RADIOCOMMUNICATION SEMINAR
30 November – 11 December 2020

ADMINISTRATIVE DUE DILIGENCE: RESOLUTION 49

- ITU/BR/SSD

www.itu.int/go/wrs-20

#ITUWRS



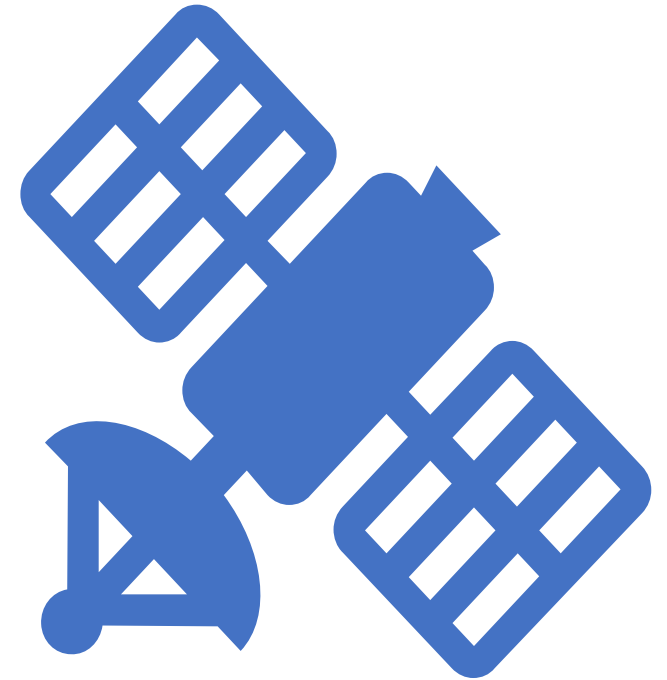
Prepare a Resolution 49 Notice Filing

Resolution 49

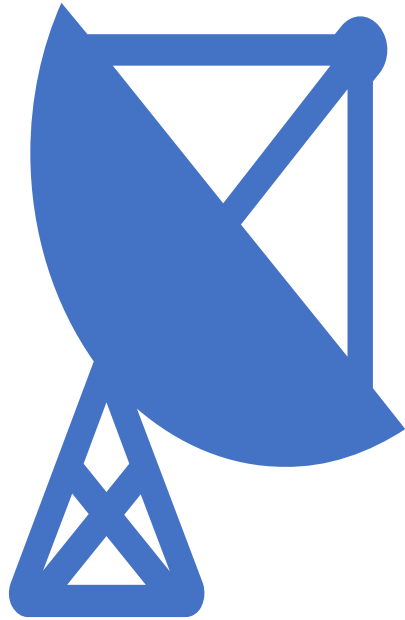


An administrative due diligence procedure that applies to:

- ✓ All satellite network or satellite system of the fixed-satellite service (FSS), mobile-satellite service (MSS) or broadcasting-satellite service (BSS)
- ✓ Submissions under Article 4 of Appendices 30 and 30A
- ✓ Any submission of information under Article 6 of Appendix 30B



Resolution 49



All satellite network or satellite system of the **fixed-satellite service (FSS), mobile-satellite service (MSS) or broadcasting-satellite service (BSS)** with frequency assignments that are subject to coordination under Nos. 9.7, 9.11, 9.12, 9.12A and 9.13 and Resolution 33

Resolution 49



Submissions under Article 4 of Appendices 30 and 30A

- ✓ *Any request for modifications of the Region 2 Plan under the relevant provisions of Article 4 of Appendices 30 and 30A that involve the addition of new frequencies or orbit positions*
- ✓ *Or for modifications of the Region 2 Plan under the relevant provisions of Article 4 of Appendices 30 and 30A that extend the service area to another country or countries in addition to the existing service area*
- ✓ *Or request for additional uses in Regions 1 and 3 under the relevant provisions of Article 4 of Appendices 30 and 30A*

Resolution 49



Any submission of information under Article 6 of Appendix 30B, with the exception of submissions of new Member States seeking the acquisition of their respective national allotments for inclusion in the Appendix 30B Plan

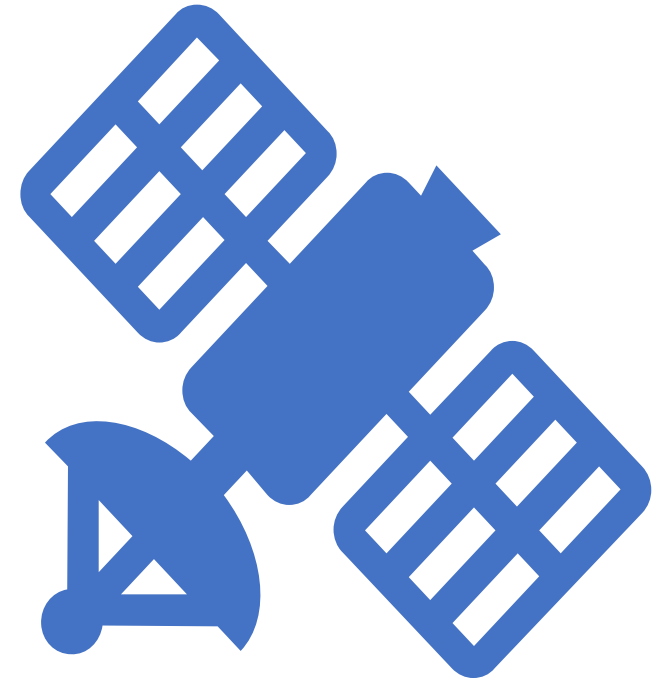
Specific Provisions for BSS (Broadcasting Satellite Service) in the 21.4-22GHz band



Resolution 49 does not apply to satellite networks or satellite systems of the **broadcasting satellite service** in the **21.4-22GHz** band in Regions 1 and 3.



For those satellite systems of the broadcasting satellite service in the **21.4-22 GHz** band in **Regions 1 and 3**, the due diligence information requirements are spelt out in **Resolution 552** (WRC-2019).



PROCEDURE

Deadline for submission of due diligence information :

Must be received by BR no later than 30 days following the end of the period established as a limit to bringing into use.

- ✓ *7 years from the date of receipt of API for submissions under Article 9*
- ✓ *8 years from the date of receipt of Art.4 (Part A) submissions of AP30/30A*
- ✓ *8 years from the date of receipt of Art.6 (Part A) submissions of AP30B*



PROCEDURE

Six months before expiry of the regulatory period, BR sends a reminder if the information has not yet been received

If the complete due diligence information is not received within the specified time limit, the network shall be cancelled from the Master Register or Appendices 30/30A/30B Lists or Plan

Upon receipt of due diligence information, BR examines the information for completeness

If a notification is received before the date of bringing into use, the assignments may be recorded provisionally in the MIFR. When the administration then **confirms that they have been brought into use**, BR will check whether the due diligence **has been submitted**



if information is complete, BR publishes it in a BR IFIC (within 30 days)

Res 49 Information in the Case of Launch Failure



In the case of launch failure of a satellite subject of the provisions of the Appendices 30/30A/30B the notifying Administration (in accordance with § 4.1.3bis or § 4.2.6bis of Article 4 of Appendices 30 and 30A and § 6.31bis of Article 6 of Appendix 30B) **shall** provide to the Bureau:

***Before** the end of the regulatory time-limit of 8 years to bringing into use of the subject network*

due diligence information as required in Resolution **49** for the assignment with respect to the satellite that suffered the launch failure (if that information has not already been provided)

***Within one year after** the launch failure of the subject network*

Updated Resolution 49 information for the new satellite under procurement

Otherwise the related frequency assignments **shall lapse**



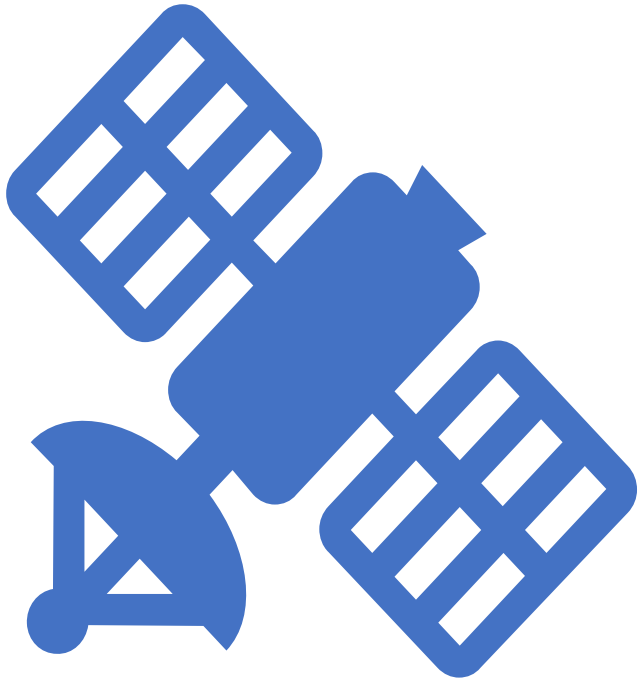
Required Information

 Data elements are listed in **Annex 2** to Resolution 49 with the following subsections:

- ✓ A. Identity of the satellite network
- ✓ B. Spacecraft manufacturer
- ✓ C. Launch services provider



A. Identity of the satellite network



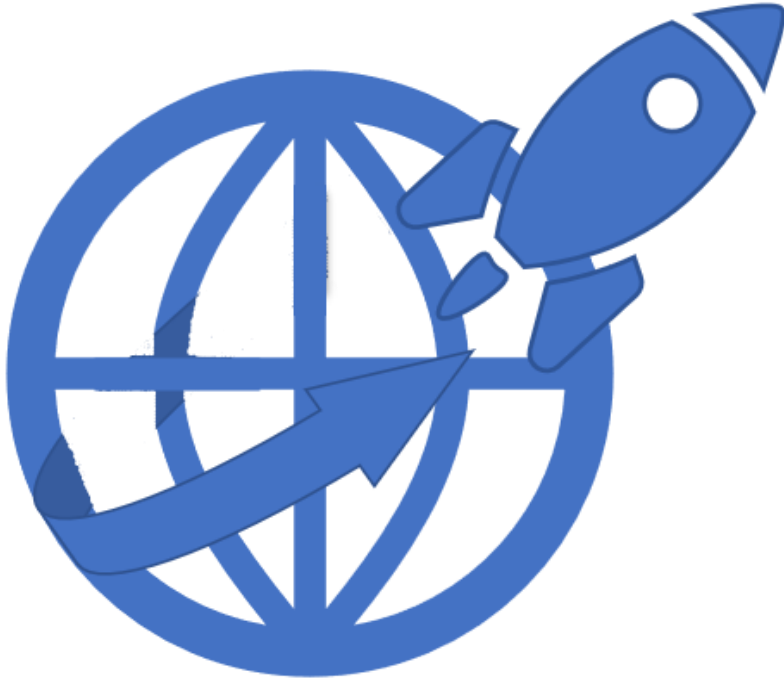
- a)* Identity of the satellite network
- b)* Name of the administration
- c)* Country symbol
- d)* Reference to the API special section, modification of AP30/30A, or information of Article 6 of AP30B(Rev.WRC-07)
- e)* Reference to the CR/C special section (not applicable for AP30/30A/30B)
- f)* Frequency band(s)
- g)* Name of the operator
- h)* Name of the satellite
- i)* Orbital characteristics

B. Spacecraft manufacturer



- a)* Name of the spacecraft manufacturer
- b)* Date of execution of the contract
- c)* Contractual “delivery window”
- d)* Number of satellites procured

C. Launch services provider



- a)* Name of the launch vehicle provider
- b)* Date of execution of the contract
- c)* Anticipated launch or in-orbit delivery window
- d)* Name of the launch vehicle
- e)* Name and location of the launch facility

TOOLS - SPACECAP

SpaceCapture V9 - [Set Notice Template]

File Edit Tools Template Window Help

CR/NOTIF API RAST PLAN RS49/552

SpaceCap

Start Page

Notice Explorer

Open Notice

New Notice

Search

Notice Explorer - AP4/II and AP4/III

Notice id.	Type	Adm./Org.	Orb. Pos.	Station name	Date rcv.	Status
List of notices Count=1						
120520163 [A]	N	THA/		NAPA-2	28.08.2020	01

Control Box

Show

Clone

Export

Delete

To SNS

CFEX

Validation

Esub

RS49/552

RUN THE BUILDER

RS49/RS552 Builder

Notice Id: 120520163 NAPA-2

Source Database: C:\Users\marinram\Desktop\WRS 2020\CR C to Res49.mdb

RS49/RS552 Database: C:\Users\marinram\ITU\BR_SPACE_v9.0\RS49_120520163_NAPA-2.mdb Change

To Start the process click on the button to Load a list of frequencies subject to RS49 or RS552 for 120520163

Load Frequencies Subject to RS49/RS552

Select Frequency Bands

RS49/RS552 Builder

Notice Id: 120520163 NAPA-2

Source Database: C:\Users\marinram\Desktop\WRS 2020\CR C to Res49.mdb

RS49/RS552 Database: C:\Users\marinram\ITU\BR_SPACE_v9.0\RS49_120520163_NAPA-2.mdb

	Include frequency band	Frequency minimum	Frequency maximum
▶	☒	148.01975	148.04275
	☒	148.06975	148.09275
	☒	148.09475	148.11775
	☒	148.6635	148.6865
	☒	148.6885	148.7115

Select the frequency bands for which you wish to submit RS49.

Commercial Satellite Name: NAPA-2

Press the Create RS49 Filing button to create a new RS49 filing with the selected frequency ranges. The generated RS49 Filing may then be modified (including adding new commercial satellite name) using SpaceCap.

Print List Show Contiguous Bands ☒ Check On All ☒ Check off All

Create RS49 Filing

Create RS49 filing

RS49/RS552 Builder

Notice Id: 120520163 NAPA-2

Source Database: C:\Users\marinram\Desktop\WRS 2020\CR C to Res49.mdb

RS49/RS552 Database: C:\Users\marinram\ITU\BR_SPACE_v9.0\RS49_120520163_NAPA-2.mdb

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☒	148.6885	148.7115

Building RS49/RS552 transaction complete.

OK

Creating RS49/RS552 transaction. Please Wait

Print List Show Contiguous Bands Check On All Check off All

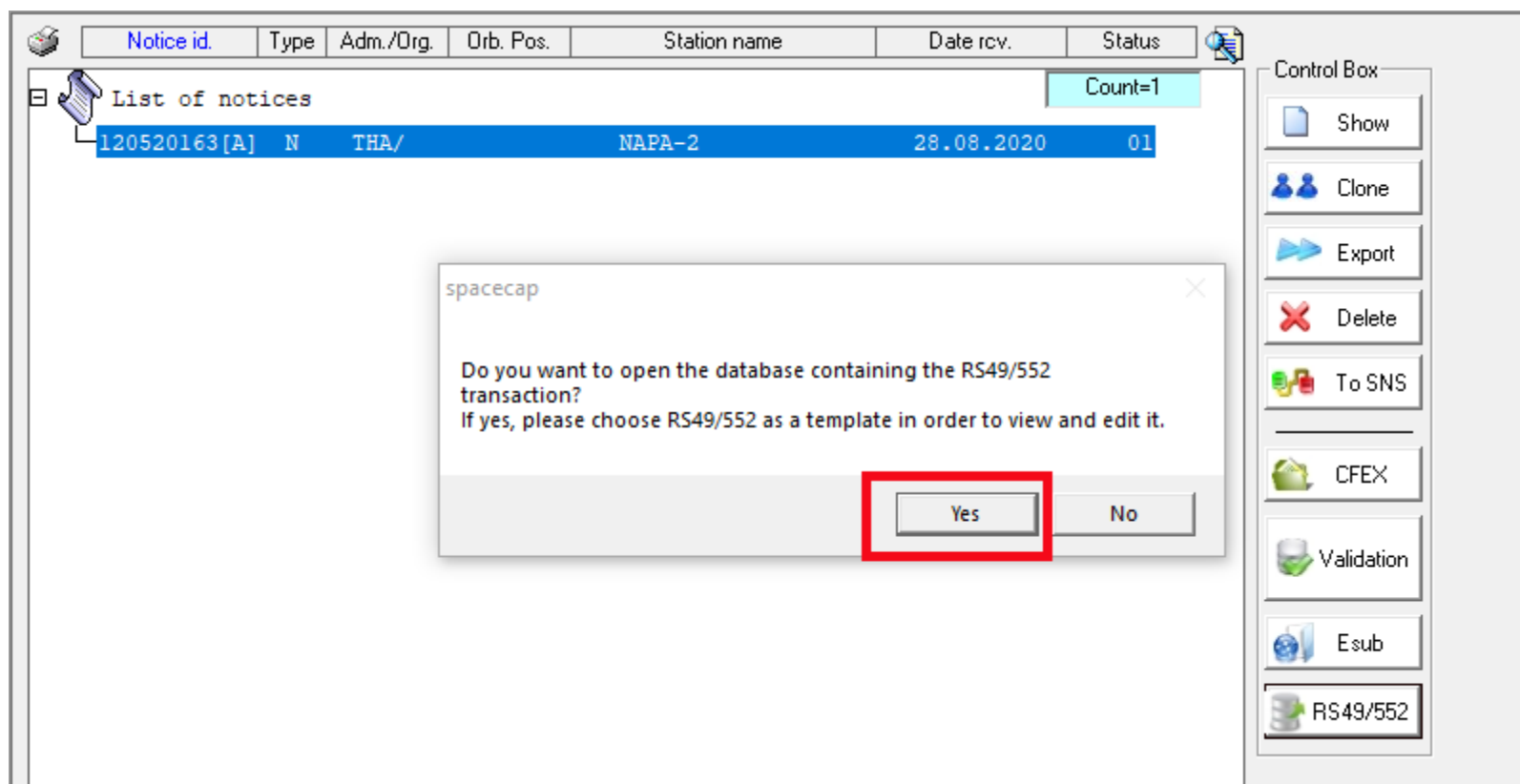
Create RS49 Filing

Commercial Satellite Name: NAPA-2

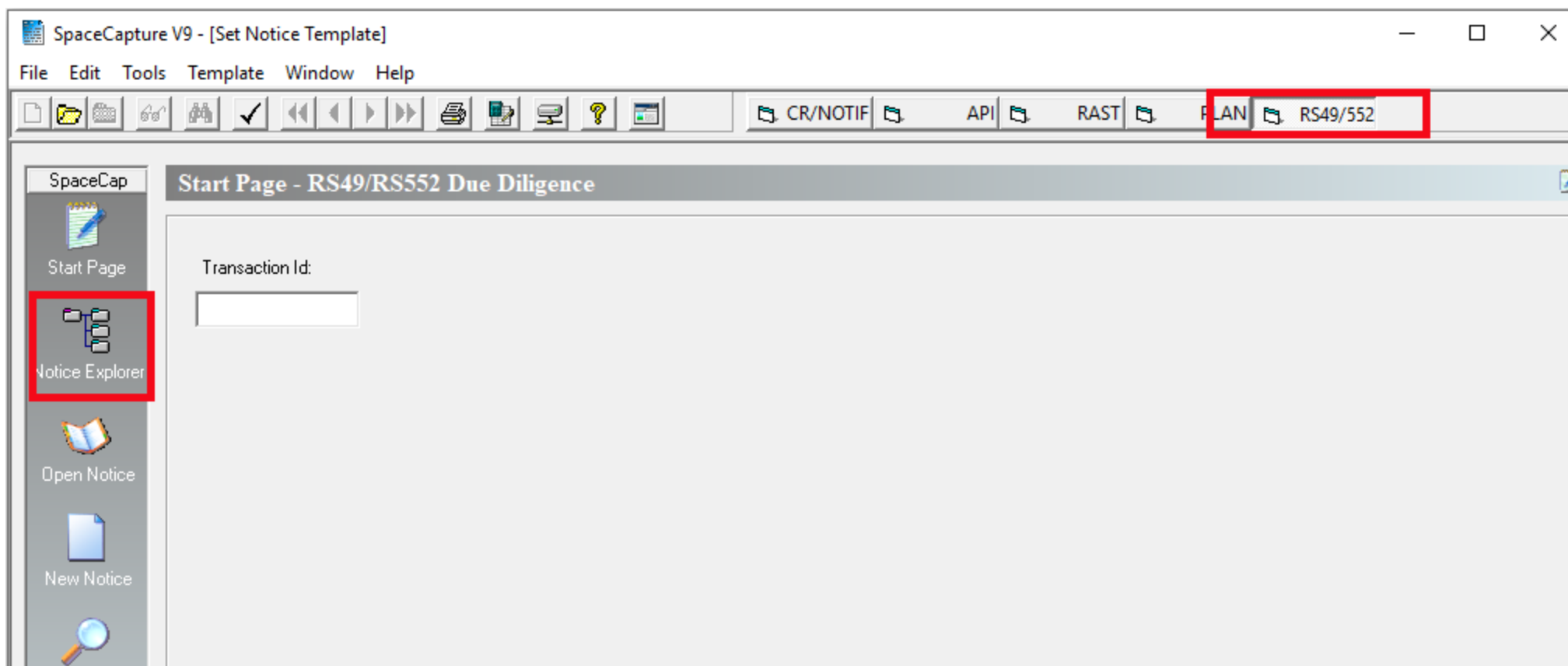
Select the frequency bands for which you wish to submit RS49.

Press the Create RS49 Filing button to create a new RS49 filing with the selected frequency ranges. The specified RS49 filing may then be modified including adding new commercial satellite names using SpaceCap.

Access Notice with SpaceCap



Access Notice with SpaceCap



Run Validation

SpaceCapture V9 - [Set Notice Template]

File Edit Tools Template Window Help

CR/NOTIF API RAST PLAN RS49/552

SpaceCap

- Start Page
- Notice Explorer
- Open Notice
- New Notice
- Search

Notice Explorer - RS49/RS552 Due Diligence

Notice id.	Type	Adm./Org.	Orb. Pos.	Network name	Date rcv.	Status
List of notices Count=1						
000000001 [A]	N	THA/		NAPA-2	10.11.2020	01

Control Box

- Show
- Clone
- Export
- Delete
- To SNS
- CFEX
- Validation
- Esub

Validation with SpaceVal

BR-SIS Validation Dialog

Initiate Validation for:
Dbname: C:\Users\marinram\ITU\BR_SPACE_v9.0\RS49_120520163_NAPA-2.mdb
Ntc ID: 1 Adm: THA Sat Name: NAPA-2 Action:A Status:01 D_RCV: 10.11.2020

Enter parameters for Validation

☐ Run as external user

Validation Options

☐ Straps not provided - optional under appendix 4 (WRC2007)
☐ Check frequency overlap using assigned frequency bandwidth

Graphical Data Cross Validation

☐ Cross Validate Browse

GIMS Database (.mdb)

ITU internal Options

☒ Skip API check ☐ Skip FixThings ☐ Partial Merge option

Press control button to start Validation → **Validation**  Close 

Validation with SpaceVal – Validation Report

BRSIS - Validation v9.0.0.7

Notice Id.

Sat. name: NAPA-2
Type of notice: Due diligence Status: 01
Adm./Org.: THA Orb. pos.: NGSO Station type: N

Reports

created on 10.11.2020 - start time: 21:41:03 - duration: 0min. 52sec. by user MARINRAM using version: 9.0.0.7

☒ **Validation: 11 Errors**
☐ SRSFIX: 7 Errors

VALIDATION RESULT: Fatal Errors:11 Summary

Drag a column header here to group by that column

Beam	E/R	Grp Id	Table	Field	Value	Row	Valerr	Rule	F/W	Ap4 Ref	Error Message
			cmr_syst	d_deliv_fr		1	125	1	F		Value missing
			cmr_syst	d_deliv_fr_m		1	131	1	F		Value missing
			cmr_syst	d_deliv_to		1	126	1	F		Value missing
			cmr_syst	d_deliv_to_m		1	132	1	F		Value missing
			cmr_syst	d_exe		1	124	1	F		Value missing
			cmr_syst	d_exe_m		1	130	1	F		Value missing
			cmr_syst	facility		1	127	1	F		Value missing
			cmr_syst	lsp_name		1	122	1	F		Value missing
			cmr_syst	mfct_name		1	128	1	F		Value missing
			cmr_syst	nbr_sat		1	129	1	F		Value missing
			cmr_syst	vehicle		1	123	1	F		Value missing

Task: VALIDATION Database: C:\Users\marinram\ITU\BR_SPACE_v9.0\RS49_120520163_NAPA-2.mdb

Manufacturer/provider Data

SpaceCapture V9

File Edit Tools View Window Help

CR/NOTIF API RAST PLAN RS49/552

Forms of Notice Due Diligence RS49/RS552

Notice	Manufacturer/Provider	Group	Remarks
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BR41 Commercial Name of the Satellite: NAPA-2

Spacecraft Manufacturer

BR30 Name of the Spacecraft Manufacturer

BR31 Date of Execution of the Contract

BR32 Contractual "Delivery Window"

From To

BR33 Number of Satellites Procured

Launch Services Provider

BR34 Name of the Launch Vehicle Provider

BR35 Name of the Launch Vehicle

BR36 Date of Execution of the Contract

BR37 Anticipated Launch or In-Orbit "Delivery Window"

From To

BR38 Name of the Launch Facility

BR40 Geographical Coordinates

BR39 Country/Location

Longitude

Degrees E/W Min Sec

Latitude

Degrees N/S Min Sec

Use the Navigation buttons in the toolbar to move from one Commercial System to another.

Add Commercial System

Delete Commercial System

Current DB : C:\Users\marinram\ITU\BR_SPACE_v9.0\RS49_120520163_NAPA-2.mdb

21:58

Group Data

SpaceCapture V9

File Edit Tools View Window Help

CR/NOTIF API RAST PLAN RS49/552

Forms of Notice Due Diligence RS49/RS552

Notice	Manufacturer/Provider	Group	Remarks																								
Notice Id: 1 Administration: THA Satellite Network: NAPA-2 <table border="1"><thead><tr><th>Commercial System</th><th>Frequency from</th><th>Frequency to</th><th>More</th></tr></thead><tbody><tr><td>NAPA-2</td><td>148.01975</td><td>148.04275</td><td></td></tr><tr><td>NAPA-2</td><td>148.06975</td><td>148.09275</td><td></td></tr><tr><td>NAPA-2</td><td>148.09475</td><td>148.11775</td><td></td></tr><tr><td>NAPA-2</td><td>148.66350</td><td>148.68650</td><td></td></tr><tr><td>NAPA-2</td><td>148.68850</td><td>148.71150</td><td></td></tr></tbody></table>				Commercial System	Frequency from	Frequency to	More	NAPA-2	148.01975	148.04275		NAPA-2	148.06975	148.09275		NAPA-2	148.09475	148.11775		NAPA-2	148.66350	148.68650		NAPA-2	148.68850	148.71150	
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Receivability



Resolution 55 (rev. WRC-19) and Rules of Procedure on Receivability

- ✓ Information shall be submitted in **electronic format** compatible with **SpaceCap**
 - ✓ From 1st August 2018, in accordance with the revised Rules of procedure relating to Receivability of space notices, all satellite filings and Spacecom comments shall be submitted using the ITU web interface
- “e-Submission of satellite network filings”**

available at:

<https://www.itu.int/itu-r/go/space-submission>

(see Circular Letter CR/434 dated 1 August 2018 for more information).



Thank you!

ITU – Radiocommunication Bureau

Questions to brmail@itu.int or lilian.marin@itu.int