



30TH WORLD RADIOCOMMUNICATION SEMINAR

24 – 28 October 2022

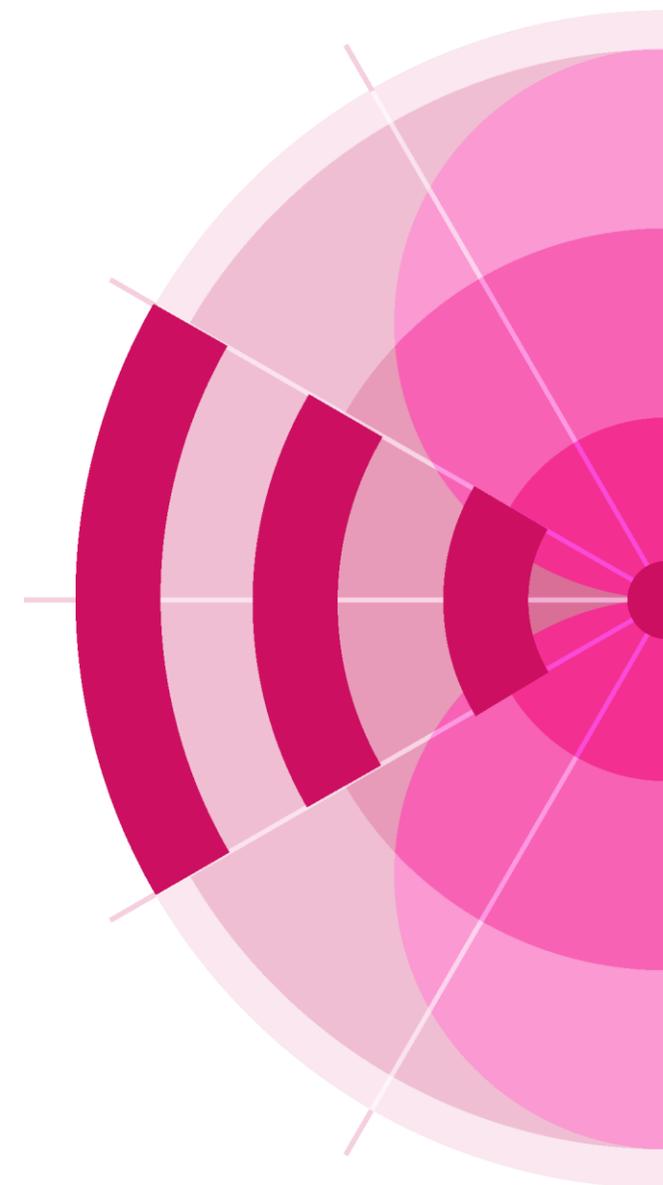
Geneva, Switzerland

Administrative due diligence: Resolution 49

Dat VO
Space Services Department

www.itu.int/go/wrs-22

#ITUWRS



Purpose of Resolution 49

- Current version: Resolution **49 (Rev.WRC-19)**
- Resolution 49 is about administrative due diligence that is applicable to some satellite radiocommunication services (non-Plan and Plan)
- Procedure of the administrative due diligence is contained in Annex 1 of the Resolution.
- Note: for satellite networks or satellite systems of the broadcasting-satellite service in the frequency band 21.4-22 GHz in Regions 1 and 3, see Resolution **552 (Rev.WRC-19)** for procedure.

Applicability of Resolution 49

1. Any satellite network or satellite system of the fixed-satellite service, mobile-satellite service or broadcasting-satellite service with frequency assignments that are subject to coordination under Nos. **9.7, 9.11, 9.12, 9.12A** and **9.13**
2. 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**
3. Any submission of information under Article 6 of Appendix **30B (Rev.WRC-19)**, with the exception of submissions of new Member States seeking the acquisition of their respective national allotments for inclusion in the Appendix **30B** Plan

Timeframes for submission of due diligence information – general

- 1a. For any satellite network subject to 1. aforementioned:
 - no later than 30 days following the end of the period established as a limit to bringing into use in No. **11.44** (7 years)
- 2a. For a request for a modification of the Region 2 Plan or additional uses in Regions 1 and 3 under Appendices **30** and **30A** under 2. aforementioned :
 - no later than 30 days following the end of the period established as a limit to bringing into use in accordance with the relevant provisions of Article 4 of Appendix **30** and the relevant provisions of Article 4 of Appendix **30A** (8 years)
- 3a. For administration applying Article 6 of Appendix **30B** under 3. aforementioned :
 - no later than 30 days following the end of the period established as a limit to bringing into use in § 6.1 of that Article (8 years)

Timeframes for submission of due diligence information – launch failure

- For cases related to Appendices **30** and **30A** aforementioned:
 - before the end of the regulatory time-limit (8 years) of § 4.1.3 of Article 4 of Appendix **30/30A**. See § 4.1.3*bis* or § 4.2.6*bis* of Article 4 of Appendix **30/30A** for more details.
- For cases related to Appendix **30B** aforementioned:
 - before the end of the regulatory time-limit (8 years) of § 6.31 of Article 6 of Appendix **30B**. See § 6.31*bis* of Article 6 of Appendix **30B** for more details.
- In addition, updated due diligence information for the new satellite under procurement is to be provided to the Bureau within one year of the request for extension of the regulatory time-limit for bringing into use. **Otherwise, the related frequency assignments shall lapse.**

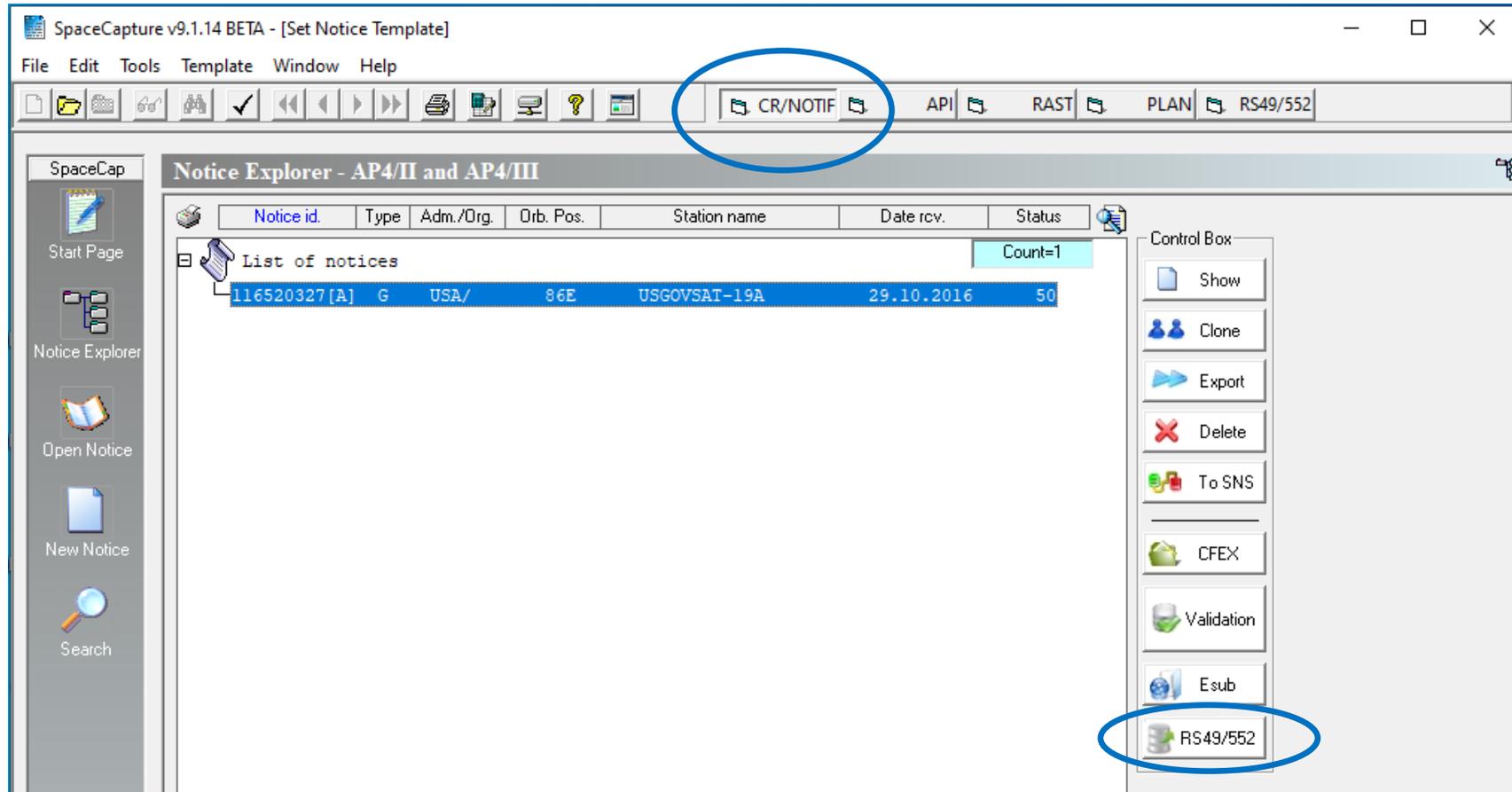
Due diligence information to be submitted to the Bureau

- See details in Annex 2 to Resolution 49.
- The information includes:
 - Identity of the satellite network
 - (e.g. identity of the satellite network and name of the satellite)
 - Spacecraft manufacturer
 - (e.g. name of the spacecraft manufacturer and number of satellites procured)
 - Launch services provider
 - (e.g. name of the launch vehicle provider and launch or in-orbit delivery window)
- The information is to be submitted:
 - in electronic format compatible with Bureau's space software SpaceCap (pursuant to Resolution **55 (Rev.WRC-19)**).
 - via the ITU web interface "e-Submission of satellite network filings" (pursuant to the Rules of Procedure on *Rules concerning the Receivability of forms of notice generally applicable to all notified assignments submitted to the Radiocommunication Bureau in application of the Radio Regulatory Procedures*).

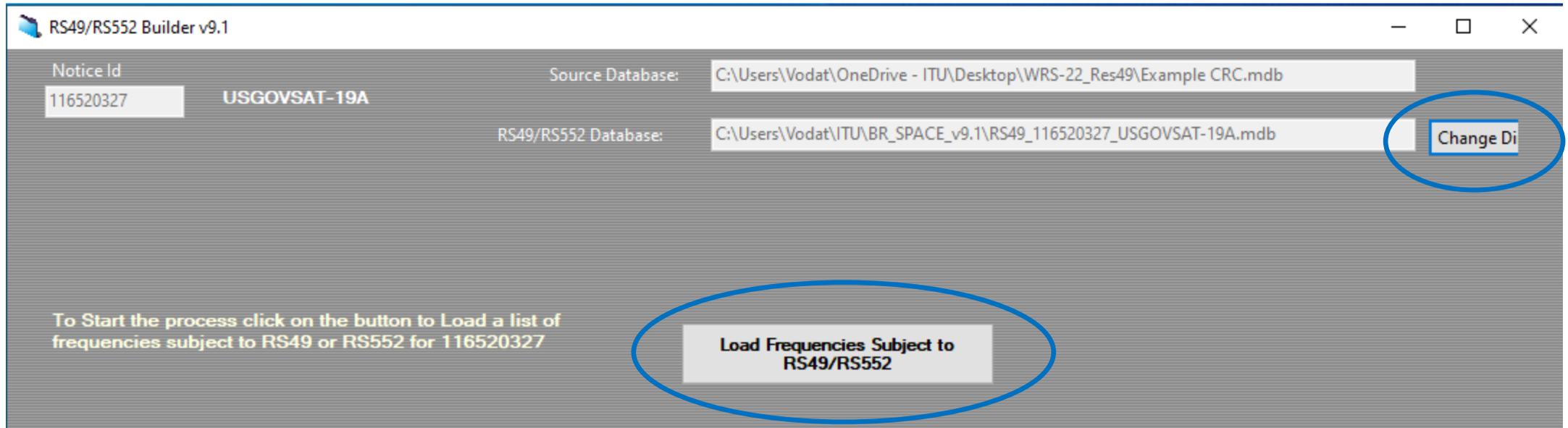
Bureau's actions

- If the due diligence information submitted:
 - is complete, the Bureau shall publish it in the International Frequency Information Circular (BR IFIC).
 - is incomplete, the Bureau shall request for the missing information.
- If the due diligence information is not submitted 6 months before expiry of the time limits in specified in 1a, 2a and 3a aforementioned, the Bureau shall send a reminder.
- If the due diligence information is not submitted within the time limits in specified in 1a, 2a and 3a aforementioned, the network shall be cancelled from the Master Register or Appendices **30/30A/30B** Lists or Plan.

Using SpaceCap to prepare due diligence information – select CR/C (or notification)



Run the RS49/RS552 Builder tool



Select frequency assignments and enter commercial satellite name

RS49/RS552 Builder v9.1

Notice Id: 116520327 USGOVSAT-19A Source Database: C:\Users\Vodat\OneDrive - ITU\Desktop\WRS-22_Res49\Example CRC.mdb

RS49/RS552 Database: C:\Users\Vodat\ITU\BR_SPACE_v9.1\RS49_116520327_USGOVSAT-19A.mdb

Include frequency band	Frequency minimum	Frequency maximum
<input checked="" type="checkbox"/>	1805.764	1809.764
<input checked="" type="checkbox"/>	1821.779	1825.779
<input checked="" type="checkbox"/>	7250	7750
<input checked="" type="checkbox"/>	7900	8400
<input checked="" type="checkbox"/>	20200	21200
<input checked="" type="checkbox"/>	30000	31000

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

Commercial Satellite Name
BRSAT

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.

Show Contiguous Bands Check On All Check off All Create RS49 Filing

Create the RES49 notice

RS49/RS552 Builder v9.1

Notice Id: 116520327 USGOVSAT-19A

Source Database: C:\Users\Vodat\OneDrive - ITU\Desktop\WRS-22_Res49\Example CRC.mdb

RS49/RS552 Database: C:\Users\Vodat\ITU\BR_SPACE_v9.1\RS49_116520327_USGOVSAT-19A.mdb

	Include frequency band	Frequency minimum	Frequency maximum
▶	<input checked="" type="checkbox"/>	1805.764	1809.764
	<input checked="" type="checkbox"/>	1821.779	1825.779
	<input checked="" type="checkbox"/>	7250	7750
	<input checked="" type="checkbox"/>	7900	8400
	<input checked="" type="checkbox"/>	20200	21200
	<input checked="" type="checkbox"/>	30000	31000

Building RS49/RS552 transaction complete.

OK

Commercial Satellite Name: BRSAT

Create RS49 Filing

Creating RS49/RS552 transaction. Please Wait....

Show Contiguous Bands

Check On All

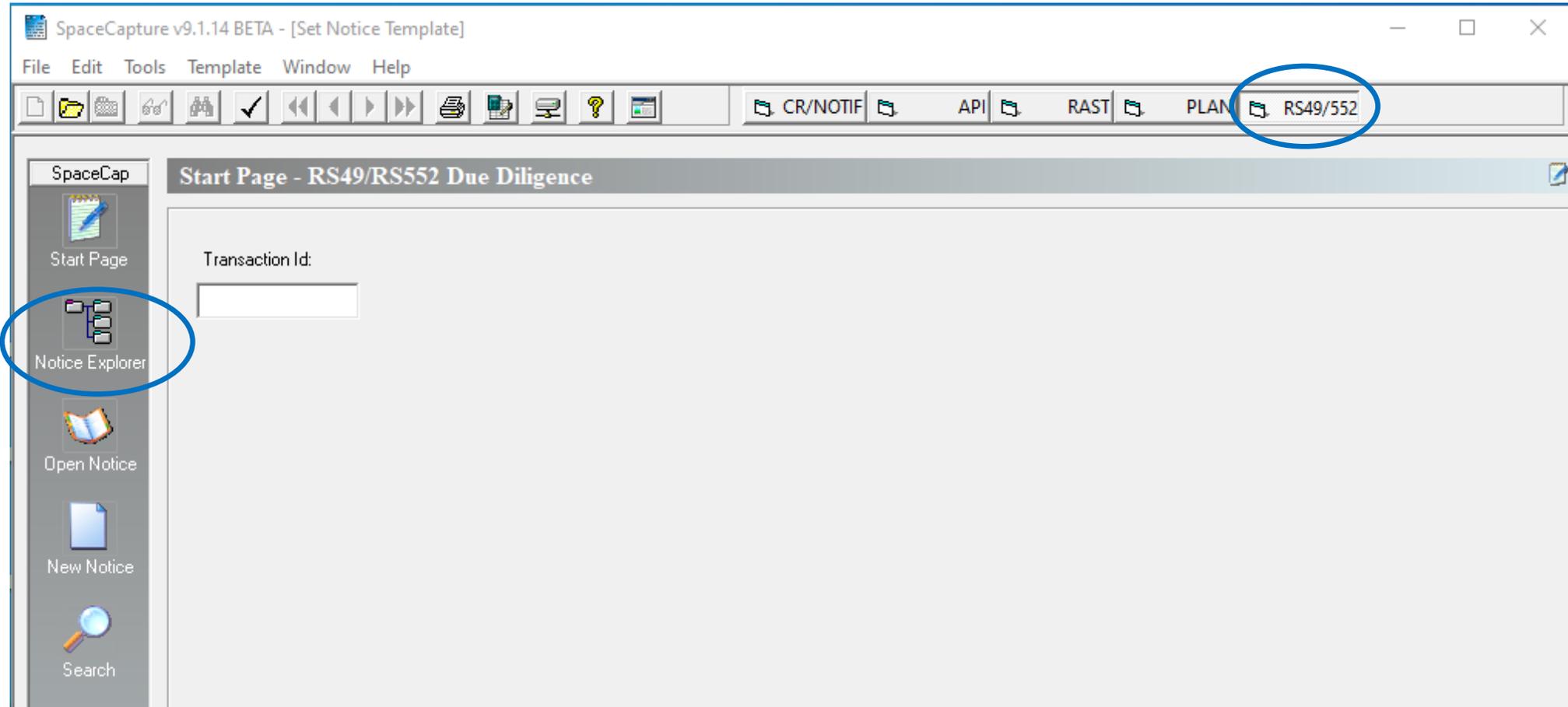
Check off All

Select to view the RES49 notice (1)

The screenshot shows the SpaceCapture v9.1.14 BETA application window. The title bar reads "SpaceCapture v9.1.14 BETA - [Set Notice Template]". The menu bar includes "File", "Edit", "Tools", "Template", "Window", and "Help". The toolbar contains various icons for file operations and navigation. The main window is titled "Notice Explorer - AP4/II and AP4/III" and displays a table of notices. The table has columns for "Notice.id", "Type", "Adm./Org.", "Orb. Pos.", "Station name", "Date rcv.", and "Status". A single notice is listed with the ID "116520327 [A]", Type "G", Adm./Org. "USA/", Orb. Pos. "86E", Station name "USGOVSAT-19A", Date rcv. "29.10.2016", and Status "50". A "Control Box" on the right side of the window contains buttons for "Show", "Clone", "Export", "Delete", "To SNS", "CFEX", "Validation", "Esub", and "RS49/552". A dialog box titled "spacecap" is open in the foreground, asking: "Do you want to open the database containing the RS49/552 transaction? If yes, please choose RS49/552 as a template in order to view and edit it." The "Yes" button in the dialog box is circled in blue.

Notice.id	Type	Adm./Org.	Orb. Pos.	Station name	Date rcv.	Status
116520327 [A]	G	USA/	86E	USGOVSAT-19A	29.10.2016	50

Select to view the RES49 notice (2)



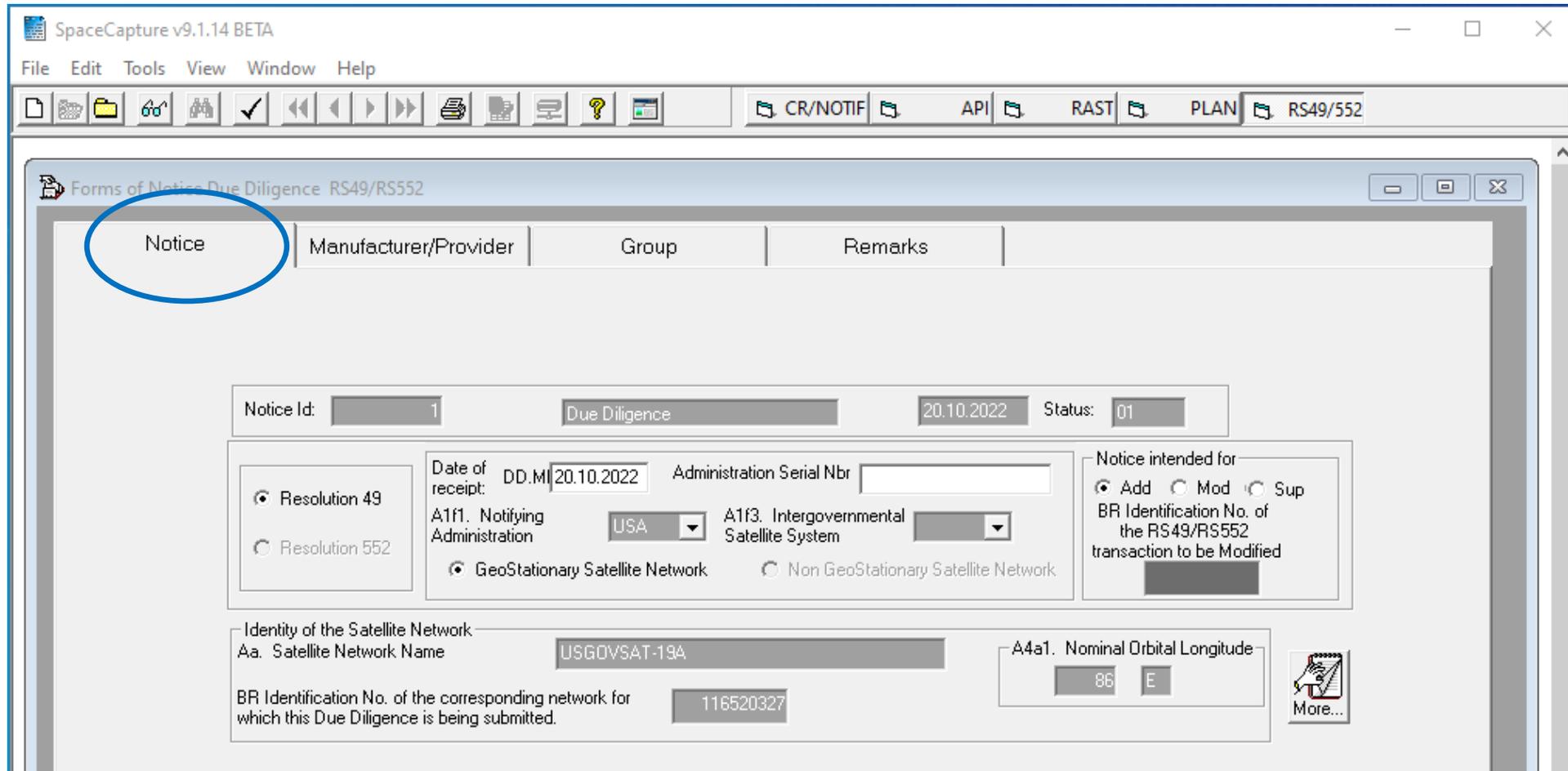
Select to view the RES49 notice (3)

The screenshot shows the SpaceCapture v9.1.14 BETA software interface. The main window is titled "Notice Explorer - RS49/RS552 Due Diligence". The interface includes a menu bar (File, Edit, Tools, Template, Window, Help), a toolbar with various icons, and a sidebar with navigation options (Start Page, Notice Explorer, Open Notice, New Notice, Search). The main area displays a table of notices with the following columns: Notice id, Type, Adm./Org., Orb. Pos., Network name, Date rcv., and Status. A blue oval highlights the first row of the table, which contains the following data:

Notice id	Type	Adm./Org.	Orb. Pos.	Network name	Date rcv.	Status
000000001 [A]	G	USA/	86E	USGOVSAT-19A	20.10.2022	01

On the right side of the interface, there is a "Control Box" with several buttons: Show, Clone, Export, Delete, To SNS, CFEX, Validation, and Esub.

Content of the RES49 notice (1)



SpaceCapture v9.1.14 BETA

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 Due Diligence 20.10.2022 Status: 01

Resolution 49
 Resolution 552

Date of receipt: DD.M|20.10.2022 Administration Serial Nbr

A1f1. Notifying Administration USA A1f3. Intergovernmental Satellite System

GeoStationary Satellite Network Non GeoStationary Satellite Network

Notice intended for
 Add Mod Sup
BR Identification No. of the RS49/RS552 transaction to be Modified

Identity of the Satellite Network
Aa. Satellite Network Name USGOVSAT-19A A4a1. Nominal Orbital Longitude 86 E

BR Identification No. of the corresponding network for which this Due Diligence is being submitted. 116520327

More...

Content of the RES49 notice (2)

SpaceCapture v9.1.14 BETA

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: USA Satellite Network: USGOVSAT-19A

Commercial System	Frequency from	Frequency to	More
BRSAT	1805.76400	1809.76400	
BRSAT	1821.77900	1825.77900	
BRSAT	7250.00000	7750.00000	
BRSAT	7900.00000	8400.00000	
BRSAT	20200.00000	21200.00000	
BRSAT	30000.00000	31000.00000	

Warning! You may use the delete key to delete selected frequency ranges from this submission. The frequency ranges which are not submitted for RS49/552 will be deleted from the corresponding notice

Content of the RES49 notice (3)

SpaceCapture v9.1.14 BETA

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: USA Satellite Network: USGOVSAT-19A

Remarks by the Administration

Comments by the BR

Content of the RES49 notice (4)

SpaceCapture v9.1.14 BETA

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

BR41 Commercial Name of the Satellite:

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

Populate remaining data

SpaceCapture v9.1.14 BETA

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:

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				Latitude			
Degrees	E/W	Min	Sec	Degrees	N/S	Min	Sec
<input type="text" value="80"/>	<input type="text" value="W"/>	<input type="text" value="31"/>	<input type="text" value="48"/>	<input type="text" value="28"/>	<input type="text" value="N"/>	<input type="text" value="27"/>	<input type="text" value="0"/>

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

Add Commercial System

Delete Commercial System

Validate the RES49 notice (1)

The screenshot displays the SpaceCapture v9.1.14 BETA software interface. The main window is titled "Notice Explorer - RS49/RS552 Due Diligence". The interface includes a menu bar (File, Edit, Tools, Template, Window, Help), a toolbar with various icons, and a sidebar on the left with options like "Start Page", "Notice Explorer", "Open Notice", "New Notice", and "Search". The central area shows a table of notices with the following data:

Notice id.	Type	Adm./Org.	Orb. Pos.	Network name	Date rcv.	Status
000000001 [A]	G	USA/	86E	USGOVSAT-19A	20.10.2022	01

A "Control Box" on the right side of the interface contains several action buttons: "Show", "Clone", "Export", "Delete", "To SNS", "CFEX", "Validation", and "Esub". The "Validation" button is circled in blue, indicating the current step in the process.

Validate the RES49 notice (2)

BRSIS - Validation v9.1.7 - BETA

Notice Id. 1

Sat. name: USGOVSAT-19A
Type of notice: Due diligence Status: 01
Adm./Org.: USA Orb. pos.: 86E Station type: G

Validation

Run as external user

Graphical data cross validation

GIMS Database (.mdb) Browse

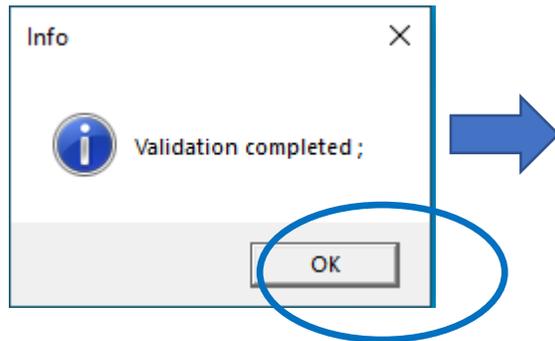
ITU internal options

API check Run SRSFix Partial merge option

Validate notice

Task: VALIDATION Database: C:\Users\Vodat\ITU\BR_SPACE_v9.1\RS49_116520327_USGOVSAT-19A.mdb

Validate the RES49 notice (3)



The screenshot shows the "BRSIS - Validation v9.1.7 - BETA" application window. The interface includes a top toolbar with icons for a checklist, a document, and a refresh button. Below the toolbar, there is a "Notice Id." field with the value "1" and a refresh icon. The main area displays the following details:

- Sat. name: USGOVSAT-19A
- Type of notice: Due diligence
- Adm./Org.: USA
- Orb. pos.: 86E
- Status: 01
- Station type: G

There are two tabs: "Validation" (selected) and "Reports". The "Validation" tab shows the following information:

- created on 20/10/2022 - start time: 16:51:03 - duration: 0min. 9sec. by user VODAT using version: 9.1.7.6
- VALIDATION COMPLETED; v9.1.7.6; NO ERRORS FOUND
- Validation: no error
- SRSFIX: no error

Below this is a "VALIDATION RESULT:" section with buttons for "Export", "Print", "Refresh", "Search", and "Summary". A table is displayed with the following columns: Beam, E/R, Grp Id, Table, Field, Value, Row, Valerr, Rule, F/W, Ap4 Ref, Error Message. The table is currently empty.

The status bar at the bottom indicates: Task: VALIDATION Database: C:\Users\Vodat\ITU\BR_SPACE_v9.1\RS49_116520327_USGOVSAT-19A.mdb

Submit the RES49 notice to the Bureau

ITU e-Submission of Satellite Network Filings

Home Submissions AsReceived Users Log Email template Help

New All Filings Comments Withdrawals Archived Archived comments

Submission of Satellite network filings captured in electronic format (mdb) and all relevant attachments. Please click on the icon corresponding to your submission.

Important Notice

As per Circular Letter CR/483 of 25 March 2022 which refers to new features in the BR software SPACECAP to coordination agreements at group level as well as in creating notices for first notification and resubmission , please

- The Bureau will not take into account in the examination of the notices any additional information provided in coordination agreements.
- Resubmission of a notification notice will not be considered receivable if it is not submitted through the e-Su

Contains text

API and Coordination

- API
- CR/C

Broadcasting Satellite Service

- AP30/30A Part A
- AP30/30A Part B

Notification

- Space Station
- Earth Station
- RA Stations
- Resubmission
- AP30/30A Article 2A
- Article 2A Notification

Due Diligence

- Res49/552

Fixed Satellite Service (AP30E)

- AP30B A6A
- AP30B A6B

Thank you!

ITU – Radiocommunication Bureau

Questions to brmail@itu.int or dat.vo@itu.int

