



WRS - December 2010

# Resolution 49

(Administrative due diligence)

**Creation of electronic submissions with SpaceCap software**

Resolution 49 (RS49) Filing generated automatically from:

Coordination request

Notification

AP30/30A (Part A and Part B) and AP30B (A6A and A6B)

Presented by Véronique Glaude

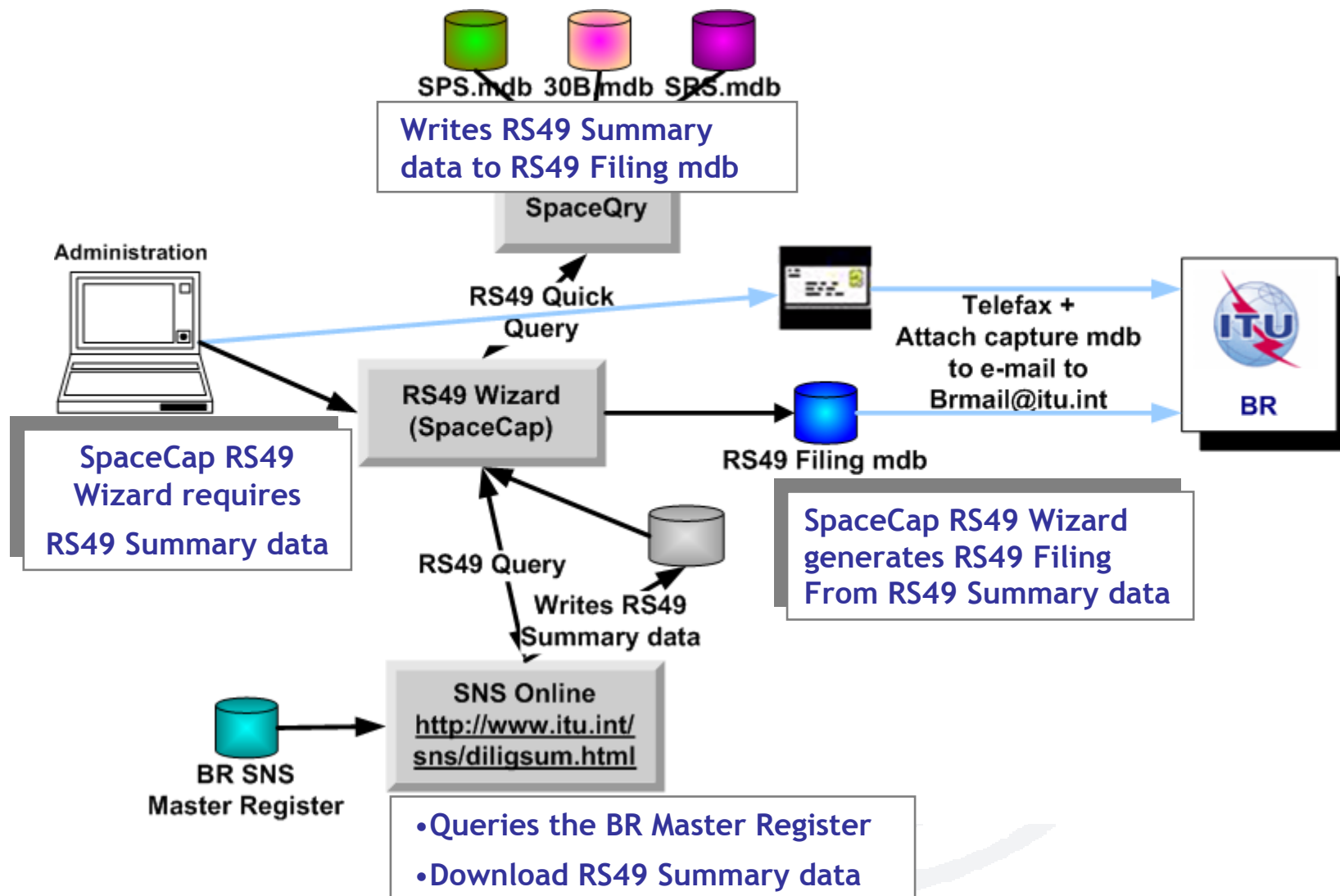
## Resolution 49

Administrative due diligence is applicable  
to some satellite radiocommunication services

For Planned services, RES49 filing can be created  
to submit due diligence on notices published in Special Sections:

- AP30/E, AP30A/E, AP30-30A/E (Part A or Part B)
- AP30B/A6A or AP30B/A6B, before WRC07 - AP30B/ Art.6 Sect. III

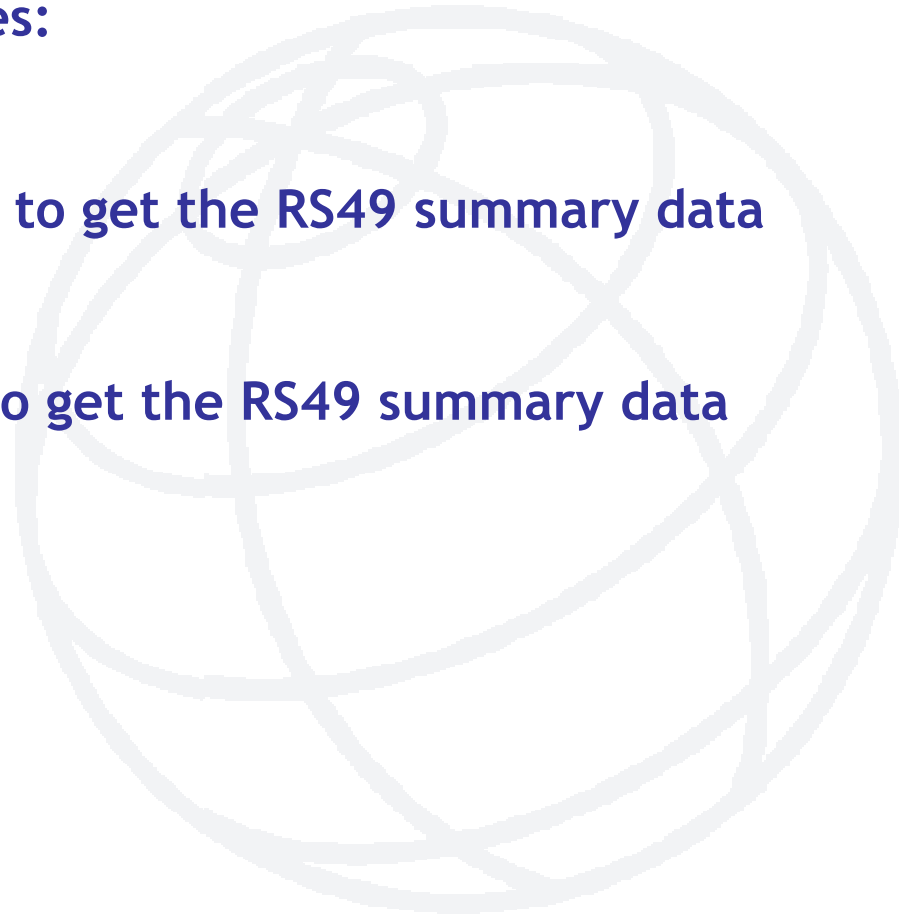
# RS49 Electronic Notification Procedure



## Step by step samples:

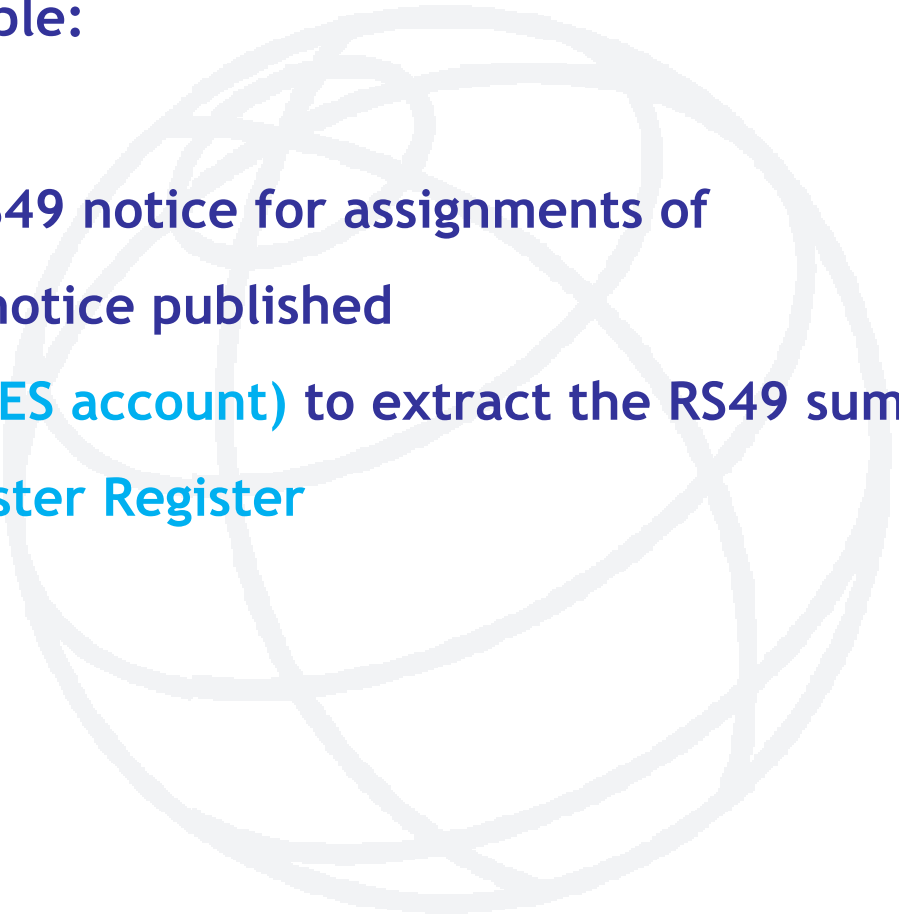
1/ Using [SNS Online](#) to get the RS49 summary data

2/ Using [SpaceQry](#) to get the RS49 summary data



## 1/ Step by step sample:

How to create a RES49 notice for assignments of  
an **AP30/E (Part A)** notice published  
using **SNS Online (TIES account)** to extract the RS49 summary data  
from the **BR SNS Master Register**



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# Starting SpaceCap software for RS49 data capture



The screenshot shows the SpaceCapture V6 software interface. The window title is "SpaceCapture V6 - [Set Notice Template]". The menu bar includes "File", "Edit", "Tools", "Template", "Window", and "Help". The toolbar contains various icons, including a red box around the "RS49" icon. The main area is titled "Start Page - RS49 Due Diligence" and features a "Transaction Id:" label and an empty text input field. A vertical sidebar on the left contains icons for "Start Page", "Notice Explorer", "Open Notice", "New Notice", "Search", and "RS49 Wizard", with a red box around the "RS49 Wizard" icon. A status bar at the bottom displays "Current DB : C:\BR\_SOFT\DATA\SPACECAP\_V6.MDB", a help message "Click on Notice Explorer to see a list of Notices, or New Notice to create one.", and the time "10:1".

Annotations:

- A red box highlights the "RS49" icon in the toolbar, with a callout box containing the text "Set Template to RS49".
- A red box highlights the "RS49 Wizard" icon in the sidebar, with a callout box containing the text "Select RS49 Wizard".


# Getting linked notice data locally from SNS On line web (1)




**Resolution 49 Wizard**

The RS49 Wizard requires the RS49 summary data for a Satellite network.

Create the RS49 summary data with SpaceQry or SNS Online

 **SpaceQry RS49 Query**

 <http://www.itu.int/sns/diligsum.html>

**For any RS49 submission TIES account necessary !**

Specify the mdb that contains RS49 summary data downloaded from SNS Online.

...

The Wizard will create the RS49 Submission in this mdb.

...

Help Cancel < Back Next > Finish

# Selecting criteria to list candidates to create a RS49 notice (2)



Res49 Submission - Windows Internet Explorer

File Edit View Favorites Tools Help

ITU http://www.itu.int/sns/diligsum.html

ITU Radiocommunication

## Space Network Systems Online

### Resolution 49 filing (submission)

?

**RESOLUTION 49: ADMINISTRATIVE DUE DILIGENCE - SELECTION**  
**Enter data, select category and satellite type or specify notice identifier**

Non-Planned Services  Planned Services/SOF

Select a

Notifying Administration :  or Notice identifier :

Network Organization :

Longitude (from) :  (to) :

Note that by default the "End of Regulatory Period" date is used for the selection.  
In case you wish to use "Date of Bringing into Use" window please check the radio button and indicate the values below

End of Regulatory Period  Date of Bringing into use

End of Regulatory Period from:  to:   
dd.mm.yyyy dd.mm.yyyy

Select Planned Services



# Selecting the notice to link the RS49 notice (3)



Due Diligence List of geostationary stations - Windows Internet Explorer

File Edit View Favorites Tools Help

http://www.itu.int/cgi-bin/htsh/sns/diligsurr

ITU Radiocommunication

## Space Network Systems Online

### Resolution 49 submission

list of geostationary satellite stations in planned services  
end of regulatory period between 26.11.1970 and 26.11.2030

?

Export result of query to

MS ACCESS EXCEL 5.0 ?

table/worksheet:  
diligsum\_plan

To select one from the list click on the name of the satellite

<u>SATELLITE NAME</u>	<u>CATEGORY</u>	<u>ADM</u>	<u>NTWK</u>	<u>LONGITUDE</u>	<u>G DATE</u>	<u>BR IFIC/WIC</u>	<u>BR IFIC/WIC DATE</u>	<u>STATUS</u>
<a href="#">AM-SAT 172E</a>	B	G		172	26.09.2011			24
<a href="#">AM-SAT 172E</a>	B	G		172	26.09.2011			24
TOTAL:								2

# Checking the data and create the filing for the selected notice (4)



Res49 geostationary station data - Windows Internet Explorer

File Edit View Favorites Tools Help

**Radiocommunication**

## Space Network Systems Online

### Resolution 49 submission

Create resolution 49 filing for geostationary satellite station ntc\_id: 103552008

**?**

In order to use SNS Online to submit Resolution 49 filings to BR you should have [iwRocket](#) installed on your computer. iwRocket is a download utility which allows you to download your selection to an MS/ACCESS container to be processed further using SpaceCap.

#### Summary Information

Action	Status	Satellite name	Longitude	Category	Adm	Ntwk	Org	Provn	Date last modified
A	24	<a href="#">AM-SAT 172E</a>	172.000	B	G	-	4.1.3	26.09.2003	

Download notice into MS/ACCESS: 2000  **?**

2C DATE (DBIU)	2D DATE (PROTECTION)	FREQ. BAND (MHz)	BR IFIC	BR IFIC DATE	RES49 DATE OF RECEIPT	CREATE RES49 DATA FOR NOTICE: 103552008
25.09.2011	26.09.2003	11702.00000 - 12198.00000			band not covered	<input type="button" value="CreateFiling"/> <b>?</b>

Read Help file  
To get detailed  
information


# Getting linked notice data locally created by SNS Online (5)




**Resolution 49 Wizard V6**

The RS49 Wizard requires the RS49 summary data for a Satellite network.

Create the RS49 summary data with SpaceQry or SNS Online

 **SpaceQry RS49 Query** <http://www.itu.int/sns/diligsum.htm>



When the SNS Online download is complete, select the mdb containing the RS49 data created by SNS Online.

Specify the mdb that contains RS49 summary data downloaded from SNS Online.

The Wizard will create the RS49 Submission in this mdb.

Buttons: Help, Cancel, < Back, **Next >**, Finish


Browsing your local drive to select the SNS Online filing created

# Overview of linked notice general data selected



**Resolution 49 Wizard V6 - Introduction**

The Resolution 49 Wizard will help you prepare an electronic submission of Resolution 49 information for the selected network.



**A1f1. Adm:** G

**A1f3. Ntwk Org:**

**A1a. Identity of the Satellite Network:** AM-SAT 172E

**Geostationary**

**A4a1. Nominal Longitude:** 172

New RS49 Submission

Modification of RS49 Submission

Help Cancel < Back **Next >** Finish

# RS49 Annex 2B - quick Spacecraft Manufacturer data capture



**Resolution 49 Wizard V6 - SpaceCraft Manufacturer**

Enter the Spacecraft Manufacturer information for this network.

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

Note: You can use SpaceCap to add or modify the Manufacturer Information later.

Help Cancel < Back **Next >** Finish

# RS49 Annex 2C - quick Launch services provider data capture



**Resolution 49 Wizard V6 - Launch Services Provider**

Enter the Launch Services Provider for this Network.

Launch Services Provider

BR34 Name of the Launch Vehicle Provider: MY VEHICLE

BR35 Name of the Launch Vehicle: ARIANE 4 OR 5

BR36 Date of Execution of the Contract: 26.11.2010

BR37 Anticipated Launch or In-Orbit "Delivery Window": From 26.11.2010 To 26.11.2010

To clear a date value, uncheck the appropriate checkbox.

BR38 Name of the Launch Facility: KOUROU

BR40 Geographical Coordinates

BR39 Country/Location: GUF

Longitude: Degrees, E/W, Min, Sec

Latitude: Degrees, N/S, Min, Sec

Note: You can use SpaceCap to add or modify the Service Provider Information later.

Buttons: Help, Cancel, < Back, Next >, Finish

## Selection of the linked notice frequency bands to be covered by the RS49 notice



**Resolution 49 Wizard V6 - Frequency Ranges Subject to Resolution 49**

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Frequency Range - RS49 not Submitted	Date Inuse	Date Protection Ef
<input checked="" type="checkbox"/>		11702.00000 to 12178.00000	25.09.2011	26.09.2003
<input checked="" type="checkbox"/>		11711.00000 to 12165.90000		
<input checked="" type="checkbox"/>		11722.00000 to 12198.00000		
<input checked="" type="checkbox"/>		11730.20000 to 12185.10000		

Select all Frequency Ranges for which you wish to submit Administrative Due Diligence (Resolution 49).

**Note:** In case of frequency bands used by a Space Operation Service. If the Space Operation uses its own frequency allocation, Due Diligence is not required.

**Warning!** The frequency ranges which are not submitted for RS49 will be deleted from the Corresponding notice when the Date of Bringing into Use has passed.


Clear Selection    Select All

Help    Cancel    < Back    **Next >**    Finish

# Finishing the RS49 wizard and viewing the notice created in SpaceCap for control and modification



**Resolution 49 Wizard V6 - Finished!**



Press Finish to generate your Resolution 49 Submission.

The RS49 Submission will be created in  
c:\temp\RS49\_AM-SAT 172E.mdb

Note: you can view and modify the generated Resolution 49 Submission with SpaceCap.

Help    Cancel    < Back    Next >    **Finish**



# SpaceCap standard use for other data capture



The screenshot shows the SpaceCapture V6 software interface. The main window is titled "SpaceCapture V6 - [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 area is titled "Notice Explorer - RS49 Due Diligence" and displays a table of notices. The table has columns for Notice.id, Type, Adm./Org., Orb. Pos., Network name, and Date rcv. A single notice is listed with the ID "000000001[A]", Type "G", Adm./Org. "G /", Orb. Pos. "172E", Network name "AM-SAT 172E", and Date rcv. "no date". The status bar at the bottom shows "Current DB : C:\TEMP\RS49\_AM-SAT 172E.MDB", the time "11:58", and the date "26.11.2010".

Callouts in the image include:

- A purple callout pointing to the toolbar: "final notice in a printable format created by SpacePub software".
- A purple callout pointing to the table: "RS49 filing generated by the RS49 Wizard".
- A purple callout pointing to the table: "RS49 Filing database location".
- A purple callout pointing to the Control Box: "View, control the data, add commercial systems and connect to frequency bands".

Notice.id	Type	Adm./Org.	Orb. Pos.	Network name	Date rcv.
000000001[A]	G	G /	172E	AM-SAT 172E	no date

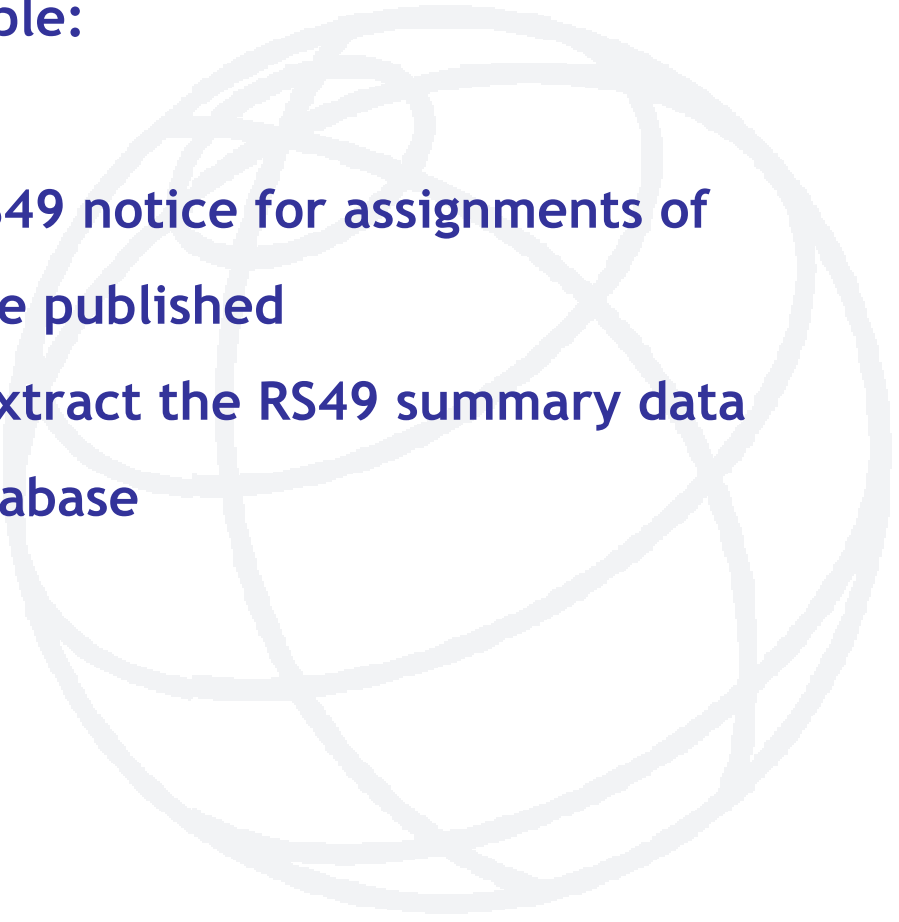
Control Box:

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



## 2/ Step by step sample:

How to create a RES49 notice for assignments of an **AP30B/A6A** notice published using **SpaceQry** to extract the **RS49** summary data from a **30B.mdb** database

A large, faint, light gray globe is centered in the background of the slide, behind the main text.

# Starting SpaceCap software for RS49 data capture



The screenshot shows the SpaceCapture V6 software interface. The window title is "SpaceCapture V6 - [Set Notice Template]". The menu bar includes "File", "Edit", "Tools", "Template", "Window", and "Help". The toolbar contains various icons, including a red box around the "RS49" icon. The main area is titled "Start Page - RS49 Due Diligence" and features a "Transaction Id:" label and an empty text input field. On the left sidebar, the "RS49 Wizard" icon is highlighted with a red box. A status bar at the bottom displays "Current DB : C:\NBR\_SOFT\DATA\SPACECAP\_V6.MDB", a help message "Click on Notice Explorer to see a list of Notices, or New Notice to create one.", and the time "10:1".

Annotations:

- Set Template to RS49**: A red callout box pointing to the "RS49" icon in the toolbar.
- Select RS49 Wizard**: A red callout box pointing to the "RS49 Wizard" icon in the left sidebar.


# Getting linked notice data locally from SpaceQry software (1)




**Resolution 49 Wizard**

The RS49 Wizard requires the RS49 summary data for a Satellite network.

Create the RS49 summary data with SpaceQry or SNS Online

 **SpaceQry RS49 Query**

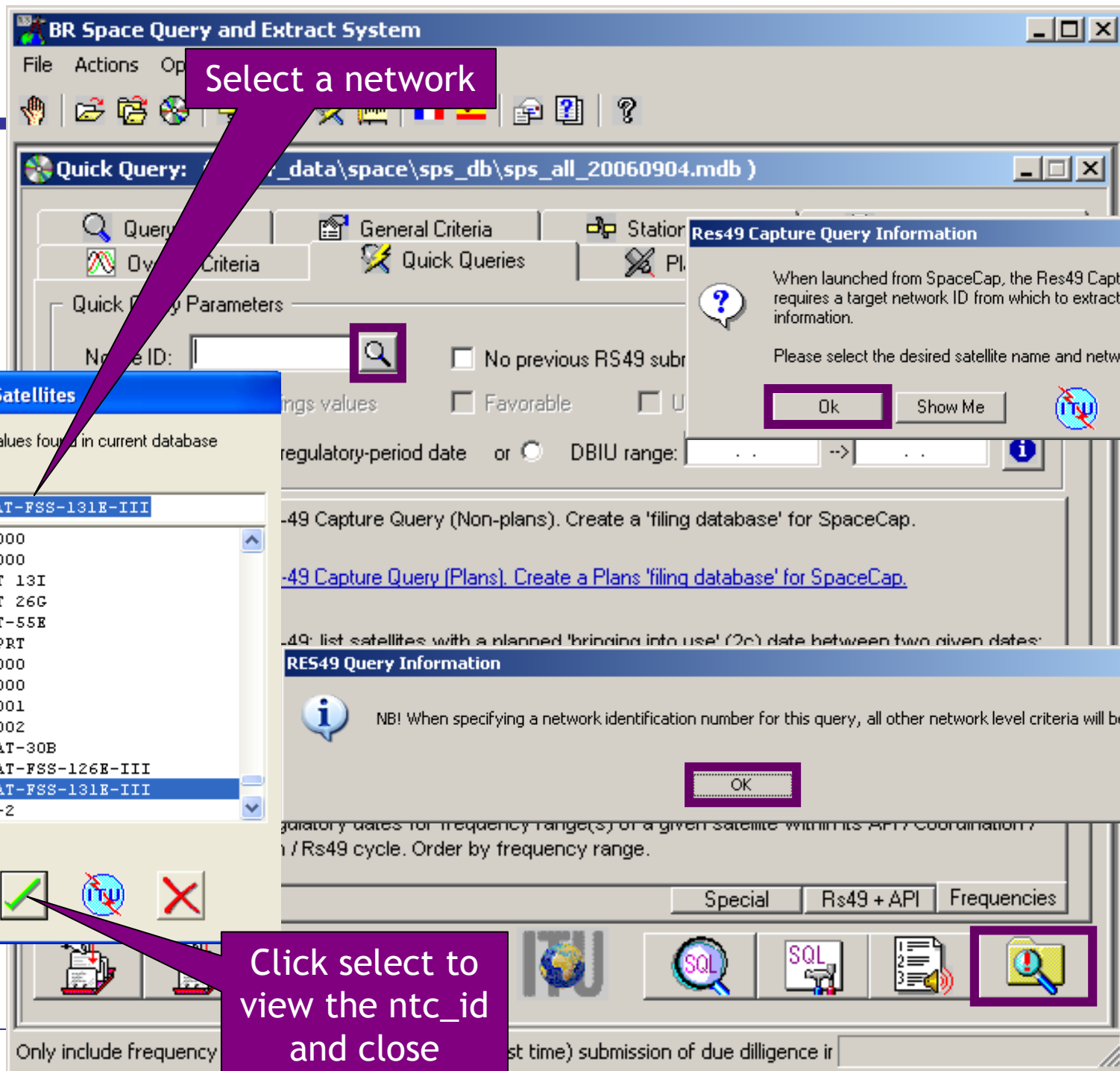
 <http://www.itu.int/sns/diligsum.html>

Specify the mdb that contains RS49 summary data downloaded from SNS Online.

The Wizard will create the RS49 Submission in this mdb.

Buttons: Help, Cancel, < Back, Next >, Finish

**For any RS49 submission**



Select a network

List of Satellites

- VINASAT-FSS-131E-III
- URC00000
- USA00000
- USASAT 13I
- USASAT 26G
- USASAT-55E
- USAVIPRT
- UZB00000
- VCT00000
- VEN00001
- VEN00002
- VENESAT-30B
- VINASAT-FSS-126E-III
- VINASAT-FSS-131E-III
- VSSRD-2

Res49 Capture Query Information

When launched from SpaceCap, the Res49 Capture Query only requires a target network ID from which to extract the Res49 filing information.

Please select the desired satellite name and network ID.

Ok Show Me Cancel

RES49 Query Information

NB! When specifying a network identification number for this query, all other network level criteria will be ignored.

OK

Click select to view the ntc\_id and close

**BR Space Query and Extract System**

File View Window Help

Resolution-49 Capture Query

RS49 Search Criteria

Adm Code:  Network ID:  Orbital Position Range:

Sat Type:  Notif Reason:  2C-Date Range:

No previous RS49 submission:

RS49 Search Results (total count: 1)

Satellite Name	Date In Use	Minimum (in M)	Maximum (in M)	Group	min/max values
VINASAT-FSS-131E-III	04.06.2012	4500.00000	4800.00000	2606	30.10.2007
	04.06.2012	6725.00000	7025.00000	2606	30.10.2007
	04.06.2012	10700.00000	11450.00000	2606	30.10.2007
	04.06.2012	12750.00000	13250.00000	2606	30.10.2007

RS49 Capture File Creation

The RS49 Capture database for this network has been created successfully.  
FYI, There is no existing RS49 submission for network: 104559003...  
The database has been stored as: c:\br\_soft\Data\RS49\_VINASAT-FSS-131E-III.mdb

OK

SRS: MS-Access

# Getting linked notice data locally from SpaceQry software (2)



The screenshot shows the SpaceCapture V6 software interface with the RS49 Wizard dialog box open. The dialog box contains the following elements:

- Transaction Id:** A text input field.
- Open Hes49 filing:** A button with a document icon, highlighted with a purple box.
- Resolution 49 Wizard V6:** A sub-dialog box with a blue border containing:
  - Title:** "The RS49 Wizard requires the RS49 summary data for a Satellite network."
  - Text:** "Create the RS49 summary data with SpaceQry or SNS Online"
  - Options:** Two radio buttons: "SpaceQry RS49 Query" (selected) and "http://www.itu.int/sns/diligsum.html".
  - Continue ==>:** A button highlighted with a purple box.
  - Text:** "When the Spaceqry download is complete, click the Continue button to load the RS49 summary data created by SpaceQry."
  - Form:** Two text input fields with "..." buttons, labeled "Specify the mdb that contains RS49 summary data downloaded from SNS Online." and "The Wizard will create the RS49 Submission in this mdb."
  - Buttons:** "Help", "Cancel", "< Back", "Next >", and "Finish". The "Next >" button is highlighted with a purple box.

At the bottom of the main window, the status bar displays: "Current DB : C:\BR\_SOFT\DATA\SPACECAP\_V6.MDB", "10:31 AM", and "20.08.2010".

# Overview of linked notice general data selected



**Resolution 49 Wizard V6 - Introduction**

The Resolution 49 Wizard will help you prepare an electronic submission of Resolution 49 information for the selected network.

**A1f1. Adm:**       **A1f3. Ntwk Org:**

**A1a. Identity of the Satellite Network:**

**Geostationary**      **A4a1. Nominal Longitude:**

New R549 Submission

Modification of R549 Submission



# RS49 Annex 2B - quick Spacecraft Manufacturer data capture



**Resolution 49 Wizard V6 - SpaceCraft Manufacturer**

**Enter the Spacecraft Manufacturer information for this network.**

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"  To  BR33 Number of Satellites Procured

Note: You can use SpaceCap to add or modify the Manufacturer Information later.

# RS49 Annex 2C - quick Launch services provider data capture



**Resolution 49 Wizard V6 - Launch Services Provider**

**Enter the Launch Services Provider for this Network.**

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 <input type="text"/>	Longitude				Latitude			
	Degrees	E/W	Min	Sec	Degrees	N/S	Min	Sec
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Note: You can use SpaceCap to add or modify the Service Provider Information later.

Buttons: Help, Cancel, < Back, **Next >**, Finish

# Selection of the linked notice frequency bands to be covered by the RS49 notice



**Resolution 49 Wizard V6 - Frequency Ranges Subject to Resolution 49**

<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Frequency Range - RS49 not Submitted	Date Inuse	Date Protection Ef
<input type="checkbox"/>	<input checked="" type="checkbox"/>	04500.00000 to 04800.00000	04.06.2012	30.10.2007
<input type="checkbox"/>	<input checked="" type="checkbox"/>	06725.00000 to 07025.00000		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	10700.00000 to 10950.00000		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	11200.00000 to 11450.00000		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	12750.00000 to 13250.00000		

Select all Frequency Ranges for which you wish to submit Administrative Due Diligence (Resolution 49).

Note: In case of frequency bands used by a Space Operation Service. If the Space Operation uses its own frequency allocation, Due Diligence is not required.

Warning! The frequency ranges subject to Res49 which are not submitted for Res49 will be deleted from the corresponding notice when the Date of Bringing into Use has passed.

Clear Selection    **Select All**

Help    Cancel    < Back    **Next >**    Finish

# Finishing the RS49 wizard and viewing the notice created in SpaceCap for control and modification



## Resolution 49 Wizard V6 - Finished!



**Press Finish to generate your Resolution 49 Submission.**

The RS49 Submission will be created in  
c:\br\_soft\Data\RS49\_VINASAT-FSS-131E-III.mdb

Note: you can view and modify the generated Resolution 49 Submission with SpaceCap.

Help

Cancel

< Back

Next >

**Finish**

# SpaceCap standard use for other data capture



The screenshot shows the SpaceCapture V6 software interface. The main window is titled "SpaceCapture V6 - [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 area is titled "Notice Explorer - RS49 Due Diligence" and displays a table of notices. A callout points to a printer icon in the toolbar, stating "final notice in a printable format created by SpacePub software". Another callout points to the table, stating "RS49 filing generated by the RS49 Wizard". A third callout points to the left sidebar, stating "RS49 Filing database location". A fourth callout points to the Control Box on the right, stating "View, control the data, add commercial systems and connect to frequency bands". The status bar at the bottom shows "Current DB : C:\BR\_SOFT\data\RS49\_VINASAT-FSS-131E-III.mdb", "10:42 AM", and "20.08.2010".

Notice id.	Type	Adm./Org.	Orb. Pos.	Network name	Date rcv.
000000001[A]	G	VTN/	131.8E	VINASAT-FSS-131E-III	no date

Control Box:

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

Current DB : C:\BR\_SOFT\data\RS49\_VINASAT-FSS-131E-III.mdb      10:42 AM      20.08.2010

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## The electronic RS49 notice is then ready to be submitted to the BR!

For more information:

<http://www.itu.int/ITU-R/go/space-plans-res49/en>

SpaceCap software:

<http://www.itu.int/en/ITU-R/software/Pages/spacecap.aspx>

Questions?

Main contact person for Space Plan Services:

[Mitsuhiro.Sakamoto@itu.int](mailto:Mitsuhiro.Sakamoto@itu.int)

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