

# 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

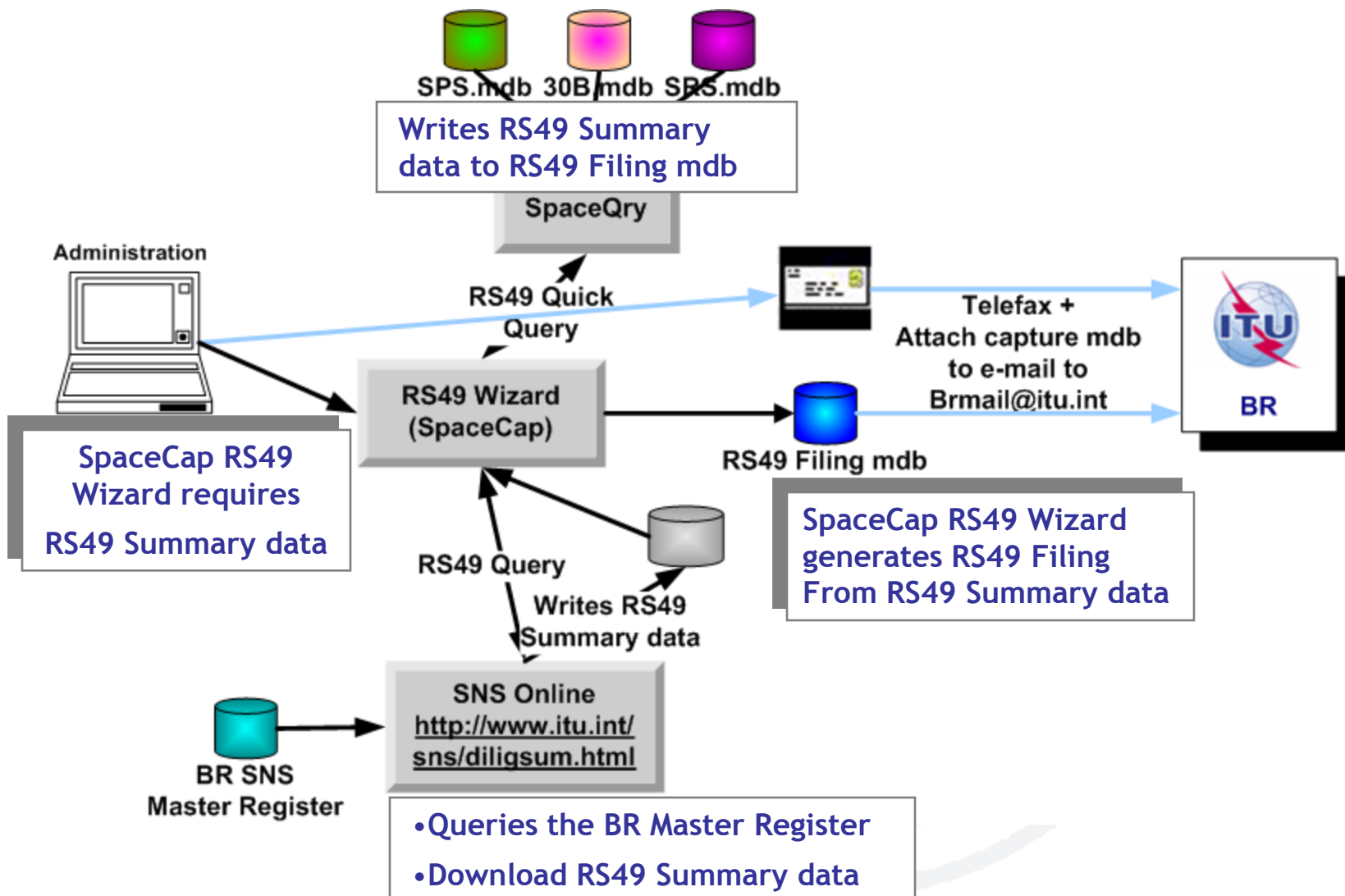
## Resolution 49

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

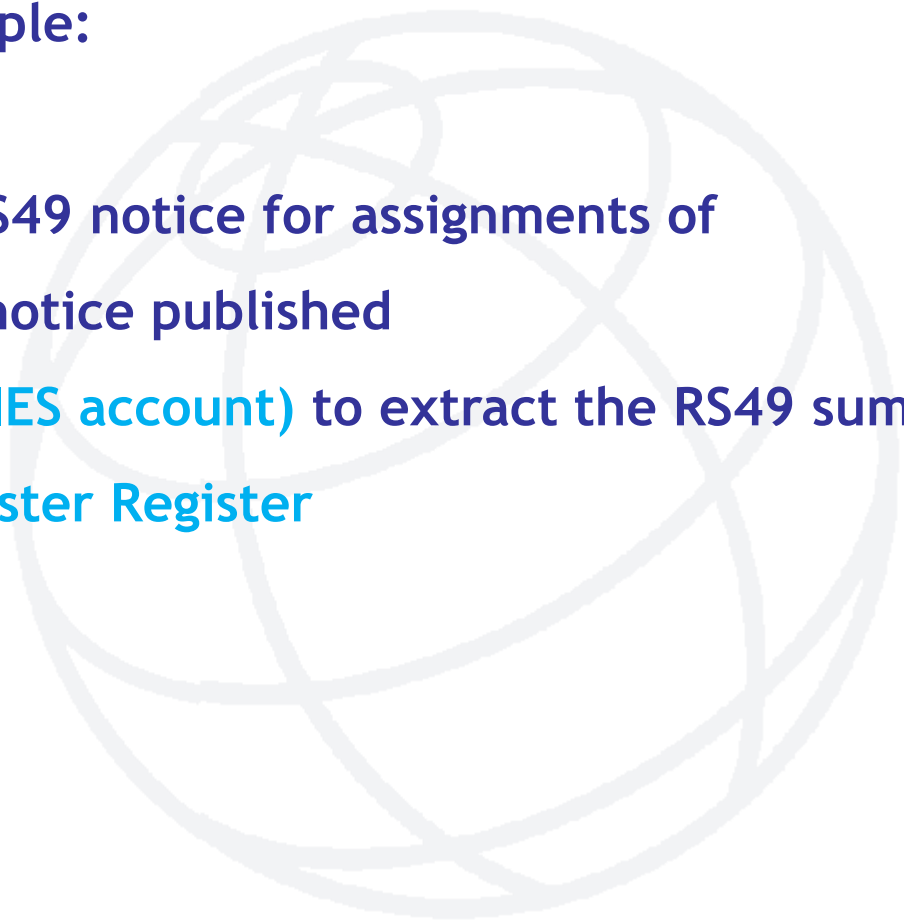
2/ Using [SpaceQry](#) to get the RS49 summary data

A large, faint, light gray globe is centered in the background of the slide, behind the text. It has a grid of latitude and longitude lines.



## 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**

A large, faint, light gray watermark of a globe is centered in the background of the slide.

# Starting SpaceCap software for RS49 data capture



The screenshot shows the SpaceCapture V6 software interface. The title bar reads "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. A purple box highlights the "R549" button in the toolbar, with a callout box containing the text "Set Template to RS49".

The main window displays "Start Page - RS49 Due Diligence". On the left sidebar, the "RS49 Wizard" icon is highlighted with a purple box, and a callout box contains the text "Select RS49 Wizard". Below the sidebar, the status bar shows "Current DB : C:\NBR\_SOFT\DATA\SPACECAP\_V6.MDB" and "Click on Notice Explorer to see a list of Notices, or New Notice to create one." The system clock in the bottom right corner shows "10:1".


# 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

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**

Satellite Name :

Notifying Administration :

Network Organization :

Longitude (from) :  (to) :

or Notice identifier :

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 a criteria

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:  
diligsun\_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

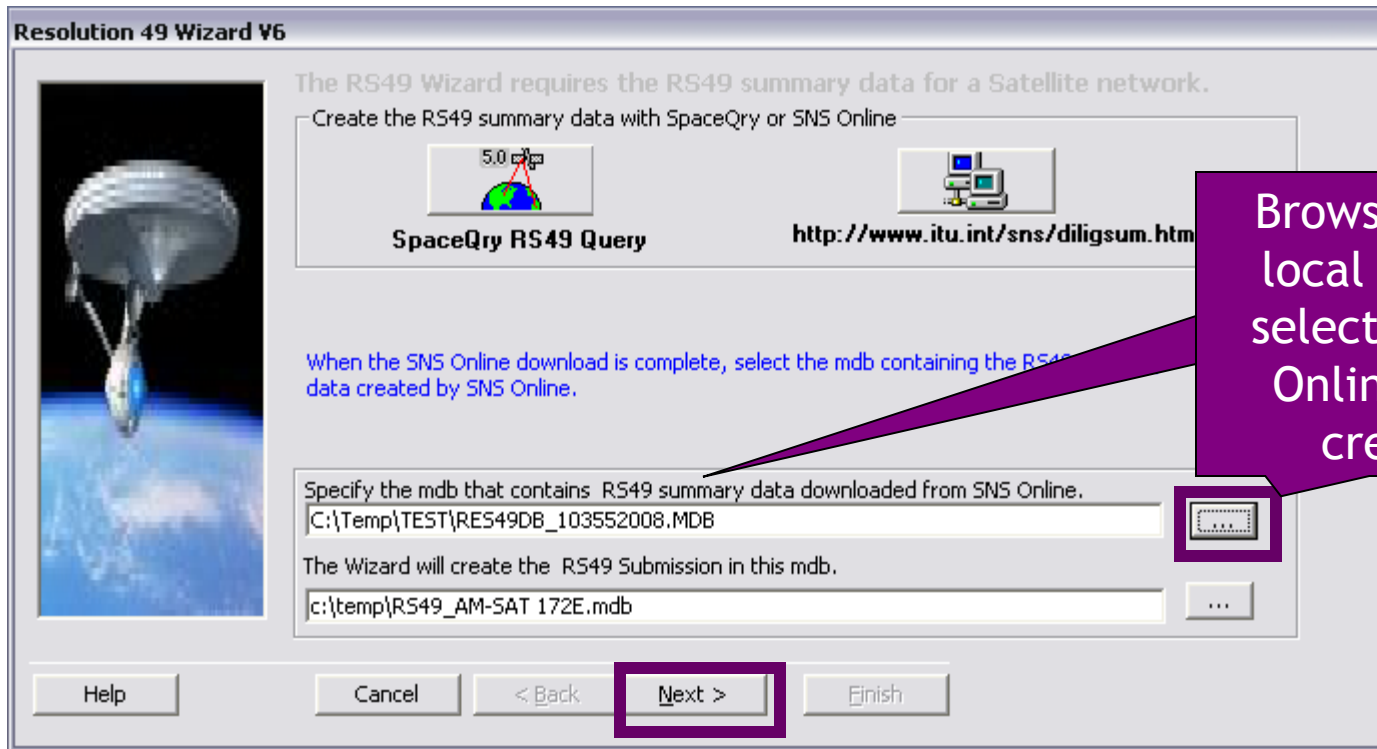
Action	Status	Satellite name	Longitude	Category	Adm	Ntwk	Org	Provn	Date last modified
A	24	<a href="#">AM-SAT 172E</a>	172.000	B	G	-	4.1.3	26.09.2003	

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

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)



# 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

## 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.

Help

Cancel


< Back

Next >

Finish

**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

To clear a date value, uncheck the appropriate checkbox.

BR38 Name of the Launch Facility

BR39 Country/Location

BR40 Geographical Coordinates

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.

# 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"/>	11702.00000 to 12178.00000	25.09.2011	26.09.2003
<input type="checkbox"/>	<input checked="" type="checkbox"/>	11711.00000 to 12165.90000		
<input type="checkbox"/>	<input checked="" type="checkbox"/>	11722.00000 to 12198.00000		
<input type="checkbox"/>	<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 displays 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 shows a table of notices. A callout box points to the table header, stating "final notice in a printable format created by SpacePub software". Another callout box points to the table content, stating "RS49 filing generated by the RS49 Wizard". A third callout box points to the table content, stating "RS49 Filing database location". On the right side, there is a "Control Box" with buttons for Show, Clone, Export, Delete, To SNS, CFEX, SpaceVal, and Esub. A callout box points to this control box, stating "View, control the data, add commercial systems and connect to frequency bands". The status bar at the bottom shows "Current DB : C:\TEMP\RS49\_AM-SAT 172E.MDB", "11:58", and "26.11.2010".

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

Count=1

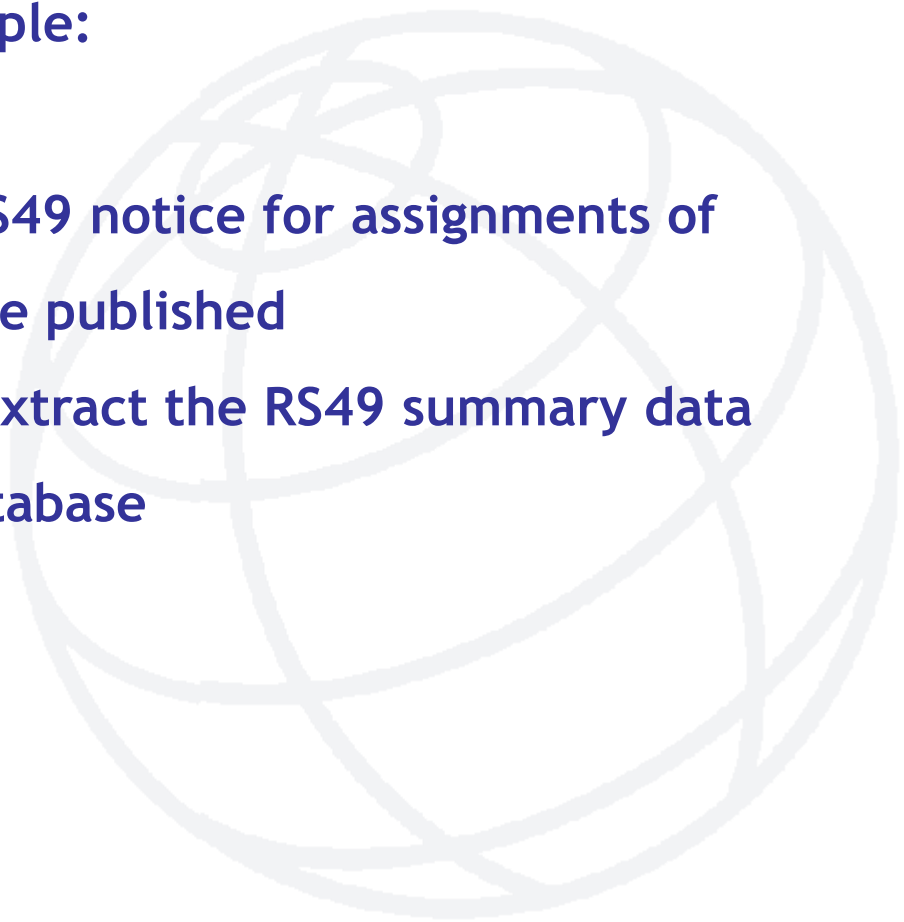
Control Box:

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

Current DB : C:\TEMP\RS49\_AM-SAT 172E.MDB      11:58      26.11.2010

## 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 title bar reads "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. A purple box highlights the "R549" button in the toolbar, with a callout box containing the text "Set Template to RS49".

The main window displays "Start Page - RS49 Due Diligence". On the left sidebar, the "RS49 Wizard" icon is highlighted with a purple box, and a callout box contains the text "Select RS49 Wizard". Below the sidebar, the status bar shows "Current DB : C:\NBR\_SOFT\DATA\SPACECAP\_V6.MDB" and "Click on Notice Explorer to see a list of Notices, or New Notice to create one." The system clock in the bottom right corner shows "10:0".


**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.

For any RS49 submission

Help Cancel < Back Next > Finish



# BR Space Query and Extract System

File Actions Op

**Select a network**

Quick Query: ...\_data\space\sps\_db\sps\_all\_20060904.mdb )

Query Criteria Station

General Criteria Quick Queries

Quick Query Parameters

Name ID: [ ] [ ]  No previous RS49 subr

Favorable  U

regulatory-period date or  DBIU range: [ ] --> [ ] [ ]

### 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

### List of Satellites

Values found in current database

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

-49 Capture Query (Non-plans). Create a 'filing database' for SpaceCap.

[-49 Capture Query \(Plans\). Create a Plans 'filing database' for SpaceCap.](#)

-49: list satellites with a planned 'bringing into use' (2c) date between two given dates:

### RES49 Query Information

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

**OK**

regulatory dates for frequency range(s) of a given satellite within its API / Coordination / ... / Rs49 cycle. Order by frequency range.

Special Rs49 + API Frequencies

**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)	Start Date	End Date	group min/max values
VINASAT-FSS-131E-III	04.06.2012	4500.00000	4800.00000	30.10.2007	2606	30.10.2007
	04.06.2012	6725.00000	7025.00000	30.10.2007	2606	30.10.2007
	04.06.2012	10700.00000	11450.00000	30.10.2007	2606	30.10.2007
	04.06.2012	12750.00000	13250.00000	30.10.2007	2606	30.10.2007

SRS: MS-Access

**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**



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



The screenshot shows the SpaceCapture V6 software interface. The main window is titled "SpaceCapture V6 - [Set Notice Template]". The "RS49 Wizard" is active, showing a "Transaction Id:" field. A purple box highlights the "Open Hes49 filino" button. A "Resolution 49 Wizard V6" dialog box is open, displaying the following text:

The RS49 Wizard requires the RS49 summary data for a Satellite network.  
Create the RS49 summary data with SpaceQry or SNS Online

Options:  
SpaceQry RS49 Query (with icon) | <http://www.itu.int/sns/diligsum.html> (with icon)

A purple box highlights the "Continue ==>" button. Below the buttons, there is a text field for "Specify the mdb that contains RS49 summary data downloaded from SNS Online." and another for "The Wizard will create the RS49 Submission in this mdb." A purple box highlights the "Next >" button.

At the bottom of the window, the status bar shows: "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:**

VTN

**A1f3. Ntwk Org:**

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

VINASAT-FSS-131E-III

**Geostationary**

**A4a1. Nominal  
Longitude:**

131.8

- New R549 Submission
- Modification of R549 Submission

Help

Cancel

< Back

Next >

Finish



## 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.

Help

Cancel

< Back

Next >

Finish

## 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

MY LAUNCHER

ARIANE 44L OR 5

BR36 Date of Execution of the Contract

20.08.2010

BR37 Anticipated Launch or In-Orbit "Delivery Window"

From 20.08.2010

To 30.08.2010

BR38 Name of the Launch Facility

KOUROU

BR40 Geographical Coordinates

BR39 Country/Location

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.

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"/>		Frequency Range - RS49 not Submitted	Date Inuse	Date Protection Ef
<input checked="" type="checkbox"/>		04500.00000 to 04800.00000	04.06.2012	30.10.2007
<input checked="" type="checkbox"/>		06725.00000 to 07025.00000		
<input checked="" type="checkbox"/>		10700.00000 to 10950.00000		
<input checked="" type="checkbox"/>		11200.00000 to 11450.00000		
<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 displays the SpaceCapture V6 software interface. The main window is titled "Notice Explorer - RS49 Due Diligence". It features a menu bar (File, Edit, Tools, Template, Window, Help) and a toolbar. A central table lists notices with columns for Notice id, Type, Adm./Org., Orb. Pos., Network name, and Date rcv. A single notice is visible: "000000001[A] G VTN/ 131.8E VINASAT-FSS-131E-III no date". To the right of the table is a "Control Box" with buttons for Show, Clone, Export, Delete, To SNS, CFE, SpaceVal, and Esub. A 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

Annotations:

- final notice in a printable format created by SpacePub software (points to the printer icon in the toolbar)
- RS49 filing generated by the RS49 Wizard (points to the notice entry)
- RS49 Filing database location (points to the database path in the status bar)
- View, control the data, add commercial systems and connect to frequency bands (points to the Control Box)

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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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