



Space Workshop Advance Publication Information (API)

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Advance Publication Information

– Radio Regulations

- Section I of Article 9 : Advance publication of information on satellite networks or satellite systems
- No.9.1:
 - Before initiating any action under this Article or under Article **11** in respect of frequency assignments for a satellite network or a satellite system, an administration, or one acting on behalf of a group of named administrations, shall, prior to the coordination procedure described in Section II of Article **9** below, where applicable, **send to the Bureau a general description of the network or system for advance publication** in the International Frequency Information Circular (BR IFIC) not earlier than seven years and preferably not later than two years before the planned date of bringing into use of the network or system (see also No. **11.44**).
 - The characteristics to be provided for this purpose are listed in **Appendix 4**.
 - The coordination or notification information may also be communicated to the Bureau at the same time;
 - it shall be considered as having been received by the Bureau **not earlier than six months after the date of receipt of the information for advance publication** where coordination is required by Section II of Article **9**.
 - Where coordination is not required by Section II, notification shall be considered as having been received by the Bureau **not earlier than six months after the date of publication of the advance publication information**.

Advance Publication Information - regulations

- Actions by the Bureau

- **No.9.2A**

- If the information is found to be **incomplete**, the Bureau shall immediately seek from the administration concerned any clarification required and information not provided.

- **See also §3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9** of Rules of Procedure on Receivability

- **No.9.2B**

- On receipt of the **complete** information sent under Nos. **9.1** and **9.2**, the Bureau shall publish it in a Special Section of its BR IFIC within three months. When the Bureau is not in a position to comply with the time limit referred to above, it shall periodically so inform the administrations, giving the reasons therefor.

Advance Publication Procedure

- Section I of Article 9

- Sub-Section IA
 - not subject to coordination under Section II of Article 9
 - Detailed data requirement under Appendix 4
 - Cost recovery category A1 (570 CHF)
 - Exception for Amateur satellite service
 - API/B publication of comments
- Sub-Section IB
 - subject to coordination under Section II of Article 9
 - Simplified data requirement under Appendix 4
 - No cost recovery fee
 - No formal publication of comments

Advance Publication Information – Information required

- Annex 2 of Appendix 4
 - 3 separate columns for API
 - Advance publication of a geostationary-satellite network
 - Advance publication of a non-geostationary-satellite network subject to coordination under Section II of Article 9
 - Advance publication of a non-geostationary-satellite network not subject to coordination under Section II of Article 9
- Resolution 55
 -shall be submitted in electronic format compatible with the BR electronic notice form capture software (Spacecap)

Expiry of the Advance publication

● No.9.5D

- API cancelled if **no coordination request received within 24 months**
 - *If the information under No. 9.30 has not been received by the Bureau within a period of 24 months after the date of receipt by the Bureau of the relevant complete information under No. 9.1 or 9.2, as appropriate, the information published under No. 9.2B and not covered by a coordination request under No. 9.30 shall be cancelled, after the administration concerned has been informed at least three months before the end of the 24-month period. The Bureau shall also publish the cancellation in its BR IFIC.*

● No.11.48

- API cancelled if **not brought into use within 7 years**
 - *If, after the expiry of the period of seven years from the date of receipt of the relevant complete information referred to in No. 9.1 or 9.2, as appropriate, the administration responsible for the satellite network has not brought the frequency assignments to stations of the network into use, or has not submitted the first notice for recording of the frequency assignments under No. 11.15, or, where required, has not provided the due diligence information pursuant to Resolution 49 (Rev.WRC-12) or Resolution COM5/6 (WRC-12), as appropriate, the corresponding information published under Nos. 9.2B and 9.38, as appropriate, shall be cancelled, but only after the administration concerned has been informed at least six months before the expiry date referred to in Nos. 11.44 and 11.44.1 and, where required, § 10 of Annex 1 of Resolution 49.*

Modifications to Advance publication Information

● No.9.2

- Amendments to the information sent in accordance with the provisions of No. 9.1 shall also be sent to the Bureau as soon as they become available.
- The use of an additional frequency band or modification of the orbital location by more than $\pm 6^\circ$ for a space station using the geostationary-satellite orbit will require the application of the advance publication procedure for this band or orbital location, as appropriate.
- Furthermore, where coordination is not required by Section II of Article 9, the modification of the reference body or the modification of the direction of transmission for a space station using a non-geostationary-satellite orbit will require the application of the advance publication procedure.Database

Software for submission

- Software

- Spacecap – for capturing the information
- Spaceval – for validating the information
- Spacequery – for viewing the validation report
- Spacepub – for viewing/printing detailed information

- Database

- Must be in SNS format

Exercise to capture the Advance Publication Information for a Geostationary satellite network

Data to be Captured

SATELLITE NETWORK NAME	ITUSAT
NOTIFYING ADMINISTRATION	CHL
TYPE OF SATELLITE NETWORK	Geostationary
ORBITAL POSITION	70 W
NOTICE INTENDED FOR	ADD

Data to be Captured

Frequency Range	Direction of Transmission	Class of Station and Nature of Service	Service Area	Period of Validity
11.7 – 12.2 GHz	E	EC CV	XR2	15 yrs
14 -14.5 GHz	R	EC CV	XVE	15 yrs
19.7-20.2 GHz	E	EC CV	XVE	15 yrs
29.5-30 GHz	R	EC CV	XVE	15 yrs

Spacecap

- Launch spacecap
 - File -> New database -> create a new database “API ITUSAT.mdb”
 - Select API Tab at the top
 - Select icon “New Notice” on the left
 - Start entering the information

Spacecap

The screenshot displays the SpaceCapture V7 application window. The title bar reads "SpaceCapture V7". The menu bar includes "File", "Edit", "Tools", "Template", "Window", and "Help". The File menu is open, showing options: "Open Database", "New Database", "Open SNS Database", "Preferences", "Exit", and "C:\API\API ITUSAT.mdb". The toolbar contains navigation and action icons, with a dropdown menu showing "CR/NOTIF", "API", "RAST", "PLAN", and "RS49/552". The main window title is "Page - AP4/V and AP4/VI Advance Publication". On the left sidebar, there are icons for "Start Page", "Notice Explorer", "Open Notice", "New Notice", and "Search". The main area has a "Transaction Id:" label and an empty text input field. The status bar at the bottom shows "Current DB : C:\br_soft\data\spacecap_v7.mdb", a message "Click on Notice Explorer to see a list of Notices, or New Notice to create one.", and the time "14:41".

Spacecap

SpaceCapture V7

File Edit Tools View Window Help

CR/NOTIF API RAST PLAN R549/552

Forms of Notice Advance Publication

Notice	Beam	Remarks
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Notice Id: Advance Publication Status:

Date: DD.MM.YYYY Administration Serial Nbr

A1f1. Notifying Administration A1f2. Notice submitted on behalf of these administrations. + x

A1f3. Intergovernmental Satellite System

GeoStationary Satellite Network Non-GeoStationary Satellite Network

Notice intended for Add Mod Sup

BR Identification No. of the Satellite Network to be Modified

A1a. Identity of the Satellite Network

A4a1. Nominal Orbital Longitude W

Original Nominal Longitude

Section II Article 9

Subject to coordination

Not Subject to coordination

Both

List of Available Beams

- Beam ADVP
- Beam ADVP

More...

Current DB : C:\API\API ITUSAT.mdb

15:16 13.11.2012

Spacecap

SpaceCapture V7

File Edit Tools View Window Help

CR/NOTIF API RAST PLAN R549/552

Forms of Notice Advance Publication

Notice Beam Remarks

Grp Id: Add Mod Sup of the group

BR Identification of the Group to be modified/suppressed

More...

Direction of transmission
 Emitting Receiving

A2b. Period of Validity

Associated Space Station
 N/A Geo Non Geo

C1. Frequency Range

Freq From	Sym	Freq To	Sym
<input type="text" value="11.7"/>	<input type="text" value="G"/>	<input type="text" value="12.2"/>	<input type="text" value="G"/>

C4a. CIs Stn C4b. Nat Srv

C4a. CIs Stn	C4b. Nat Srv
<input type="text" value="EC"/>	<input type="text" value="CV"/>

Add Frequency Range Delete Frequency Range

C11a. Service Area as List of Countries or Geographic designations

Apply this list to all Frequency Ranges

Service area to be provided as a description

C11a. Service area description

Grp ID	Act Code	Dir	Freq From	Sym	Freq to	Sym	Prd of Validity	C11a. Service Area	Stn CIs	Nat Srv	Stn CIs	Nat Srv	Stn CIs
3	R	R	11.70000	G	12.20000	G	15	List of countries	EC	CV			
4	E	E	14.00000	G	14.50000	G	15	List of countries	EC	CV			
5	E	E	19.70000	G	20.20000	G	15	List of countries	EC	CV			
6	R	R	29.50000	G	30.00000	G	15	List of countries	EC	CV			

Current DB : C:\API\API ITUSAT.mdb

15:17 13.11.2012

Spaceval

- Launch spaceval
 - Click on Open
 - Browse and select the database that you have captured
 - Select notice ID
 - Click on Validate
 - Click on Report
 - launches Spacequery

Space Validation 7.0 (12/11/2012)

Operator Id: MORETS

Open

Validate

Report

Help

Exit

Database Info

Location:

Notice Id

Error Message Level Selection

Show fatal messages only. Show all messages

Validation Options

Straps not provided - optional under Appendix 4 (WRC-2007)

Check frequency overlap using assigned frequency bandwidth

Cross validation with Gims mdb file

Gims database:

Click on the <Explorer> button to select and open a database

Spacequery – validation report

The screenshot displays the 'BR Space Query and Extract System' interface. The main window title is 'BR Space Query and Extract System >>>> 7.0 BETA <<<<'. The menu bar includes 'File', 'View', 'Window', and 'Help'. The toolbar contains various icons for file operations and system functions.

A secondary window titled 'QuickQuery Result for Network(s): 1' is open, showing a 'Validation Report for Network: 1'. The report details are as follows:

- On: 14.11.2012 @ 15:03:35 By Operator: LDD (api itusat.mdb)
- Network ID: 1 Adm: CHL Satellite name: ITUSAT Orbital Pos: -70.00°
- Validation Message Counts: Total: 1, FataIs: 0, Warnings: 0, Message Option: All

Beam Name	E / R	Group ID	Row No	Item Number	Rule ID	Severity Code	Table Name	Field Name	Field Value	Validation Error Message
				0		I				VALIDATION COMPLETED; v7.0; NO ERRORS FOUND

The status bar at the bottom right of the application window reads 'SRS: INGRES Production'.

Submission to Bureau

- Create a zip file ITUSAT.zip containing
 - API ITUSAT.MDB
 - Any other attachments or notes in Word or PDF format
- Change the file extension from “.zip” to “.itu”
- Send email with attachment ITUSAT.itu to BRMAIL@ITU.INT
- Send confirmation telefax to BR at +41 22 7305785

Questions?

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