



Creating Notification Notices



Akim Falou-Dine, Nick Sinanis

14.12.2016





Prepare a Notification filing from a Coordination Notice

Prepare a Notification filing from an API (space station not subject to coordination) special for small satellites



Overview



Create a notification filing from CRC

- Identify the CRC filing
- Clone filing into a Notification filing type
- Update notice-level parameters
- Update group-level parameters
 - Date of Bringing into Use
 - Obtained Coordination Agreements
- Validation







Name	Date modified	Туре	Size
FIRST-GEOSAT - SOLUTION.mdb	05.12.2016 11:04	Microsoft Access	3,396 KB
FIRST-GEOSAT GIMS.mdb	05.12.2016 06:21	Microsoft Access	1,096 KB

Navigate to:

Space_Workshops_(14-16-Dec)\04-Coordination-request-exercise\EXERCISE1\SOLUTION

→ Make a copy





	SpaceCapture V8 - [Set Notice Template]
<u>File Edit T</u> ools Template <u>W</u> indow <u>H</u> elp	
□▷	Image: Critic CR/NOTIF City API City RAST City PLAN City RS49/552
SpaceCap Notice Explorer - AP4/II and AP4/III	
Start Page	Pos. Station name Date rcv. Status 🛞 Control Box
	36E FIRST-GEOSAT 22.06.2016 01
Notice Explorer	Export
Open Notice	Delete
New Notice	CFEX
Search	SpaceVal

Open and select a coordination transaction with SpaceCap Select the clone option



Identify and Clone Notice



5	Clone Dialog	- 🗆 ×
Clone Parameters Clone ID. Date of Receipt 10.12.201 Notice Status 01	2 External/Internal © External © Internal © Review © WithDraw	 ₽
Action Code	O Mod O Sup O Coordination I Grp mapping	
Beams © All O No Groups © Yes Coordination O Yes	ne CEmitting CReceiving	
Special Sections Yes Straps Noise Gama Yes	C No C No C No	
BR Data Coordination Special Sections Findings Notice and Grp Links	C Yes € No C Yes € No C Yes € No C Yes € No	
Ok	Cancel	



Open cloned notice





Select the cloned notice (with Notice ID = 2) and click SHOW



Verify Notice Type



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	C1 CR/NOTIF C1 API C1 RAST C1 PLAN C1 R549/552
🖒 GeoStationa	ry Notice:2
Notice Station Beam	Strapping Noise Gamma Attachments
Notice Id: 2 AP4/II and AP4/III (Appendix 4 - Annex 24	(A) 11.12.2016 Status 01
Notice submitted under:	
C No. 9.6 Coordination C No. 11.2 Notification	First Notification
No. 9.11A Applies Bands 21.4 to 22 GHz B	ands 21.4 to 22 GHz Special Procedure
O No. 9.7A Specific Receive GSO FSS Earth stn Coordin	ation
O No. 9.17 Earth Station Coordination amongst Adminis	trations
Date: DD.MM.YY 11.12.2016 Administration 001	Notice intended for Addition
A1f1.Notifying	C Modification
Administration SEY Submitted on submitted on	+ C Suppression BR Identification No. of Station
Intergovernmental administrations.	x to be modified/suppressed
Type of Satellite Network or Earth Station	
GeoStationary Satellite Network	C Specific Earth Station
C NonGeoStationary Satellite Network	C Typical Earth Station

Ensure that 11.2 Notification and First Notification are selected



Update Group Data



	SpaceCapture V8
Eile Edit Tools Image: Second	View Window Help M Image: CR/NOTIF
в	GeoStationary Notice:2
Coordina Attachme Notice	tion Special Section Assoc Earth Station Assoc Space Station Strapping _s Noise Gamma ents e Station Beam Group Emissions Frequencies
	Notice 2 Satellite Network: FIRST-GEOSAT Beam Id B2R R Group Id: 749 Split Grp Id: 3. Observed Frequencies and Related Characteristics BR Identification of the Group to be modified/suppressed Page No. BR Data C Mad C Mod C Sup of the group to be modified/suppressed Page No. BR Data
	C3a. Assigned Image: Calculation control in the second control i
	C11a. Service Area as List of Countries or Geographic designations

Click on Beam, Group and then on General Characteristics





Apply the DBiU to the rest of the beam groups or to all notice's groups





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File Edit Tools View Window H	lelp										
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Notice Id: 2 A	Adm: SEY Satellite	IRST-GEOSA	T	Be	am Id B2R	R	▼ Group Ic	± 749	_		
	Network:							- 1			
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9.7	Obtain AUS/	Rainzorg	Adminolog	Adminorg	Admirolg	Administry	Adminolog	Adminolog	Adminolog	Administry	Adm
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t o apply coordination to other groups, select the	ം ഭൂപം	Apply to curre	nt O App	ly to all group	os o App	ly to all grou	ps				
beam or notice option.	pc29	group only	in tr	iis beam	in tr	his notice					

Enter **OBTAINED** coordination agreements and apply accordingly to this group, all groups of the current beam or entire notice



Launch Validation





From notice explorer, click on the notice and then on the SpaceVal button



SpaceVal Output



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Nto	: ID: 2	Adm:	SEY S	at Name:	FIRST-G	EOSAT	Orb P	os: 136	6 Acti	ion:A 9 Fatal E	Status:01 rrors:	D_RCV: 11.12.2016 38 Warnings: 0
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Toggle between Fatal errors and Warnings







	SNS Validation Errors										
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	E/R	Table	Field	Value	Bow po 🔉	Valierr Bule	e Severit	∆n4 Ref	Text		
	E g	grp	d_inuse	00:00:			F		Value missing		
	F	provn					F		Error : no rows found in table (provisions)	_	
	R g	grp	d_inuse	00:00:			F		Value missing	-	
	ŀ	provn					F		Error : no rows found in table (provisions)		
▶											

DBiU (A.2.a) not set for some groups!

Beware of No. 11.25 and adapt accordingly DBiU and/or date of notification



Updating DBiU



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B		GeoSta	tionary Notice:2				
Coordination Spe Attachments	ecial Section Ass	oc Earth Station	Assoc Space Station	Strapping	Noise	Gamma	1
Notice	Station	Beam	Group	Emissions	Freau	iencies	1
Notice	2 Satellite Network: FIRST-GEO)SAT	Beam Id B2R R	Group Id: 749	•	Split Grp Id:	
3. Observed Free	ouencies and Related Cha	aracteristics BB Identifi	ation of the Group	Pa	ide	BR	
C Add C	Mod C Sup of the	to be modif	ied/suppressed	No).	Data	
💐 Charac	cteristics Comm	on to a Grou	o of Frequencies	🜂 General C	haracteris	stics	
- A2a. Date B 20.	3ringing into use 12.2016			A2b. Period	l of		
				Validity	40 Years		
A3a. Operat	ting Administration or Age	ncy					
023 PUR	RE FM (SEYCHELLES)			-			
A3b. Respon	nsible Administration						
A OFFICE	E OF THE PRESIDENT			-			
To poply this	is information to						
other groups beam or not	s, select the LS tice option.	C Apply to group or	current C Apply to all group: ly in this beam	 Apply to all grouin this notice 	ips		

- Each group without a date of bringing into use will result into a fatal error
- Use the Group/Beam/Notice update option when entering the date



Missing Coordination Agreement Entries



⊌						SNS Validation Errors	
Rule	eport 🚑	₩ First	Prev	► Next	Last	Image: Space Rules Image: Space	
Validation F C:\Users\si Ntc ID: 2	Report Summa inanis\Deskto Adm: SEY	ry for 2 User p\WRS-16 (I Sat Name	SINANIS cr Local)\FIRS1 : FIRST-GE	eated on 11. F-GEOSAT - OSAT Orb	12.2016 19 Solution Pos: 136 A	:36:26 with SpaceVal 8.0 mdb .ction:A Status:01 D_RCV: 11.12.2016 Fatal Errors: 19 Warnings: 0	
E/R	Table Fie	ld Value F	low no Valer	r Rule Sever	iit An4 Bef	Text	
E	provn			F		Error : no rows found in table (provisions)	
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Missing coordination agreements may lead to unfavorable findings

Notice is receivable



Send Notice to BR



- Once Fatal Errors have been removed, notice must be forwarded to BR by the Notifying Administration
 - If fatal errors could not be removed, provide an indication
- Create a zip file e.g. FIRST-GEOSAT.zip
 - First-GEOSAT.mdb
 - GIMS data if needed
 - you may request to use those previously published in the CR/C special section
- Rename the zip file to FIRST-GEOSAT.itu
- ADM: Send email with attachment GEOSAT.itu to <u>BRMAIL@ITU.INT</u>
- ADM: Send confirmation telefax to BR at +41 22 730 5785
 - within seven days from the email submission



Summary



- CRC notice conversion to a Notification by cloning
- Basic validation fixes were shown to render notice receivable
 - Entering coordination agreements is an additional effort
- Follow up on Friday afternoon session on Notification
- Contact us with your special case/questions
 - Either directly or through <u>http://doodle.com/poll/cbcx4ma29qfq7re6</u>





Prepare a Notification filing from a Coordination Notice

Prepare a Notification filing from an API (space station not subject to coordination) special for small satellites





Thank you!

Akim Falou-Dine <u>Akim.Falou-Dine@itu.int</u>

Nick Sinanis Nick.Sinanis@itu.int





Extra material:

Prepare a Notification filing from an API (space station not subject to coordination) special for small satellites



Open API to Convert



- Launch SpaceCap
 - Select API template at the top
- Open SRS Database from the 2834 folder in USB key
 - <USB key>:\BRIFIC-2834\Space\Databases_v8\SRS_Data

Select Transaction ID 115545035

	SpaceCapture	V8 - [Set Notice Ten	nplate]	
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SpaceCap Start Page - AP4/V and AP4/VI Advart Start Page Notice Explorer	ace Publication			

Select Notice Explorer









Open Converted Notice



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File Edit Tools View	v Window Help		
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Ъ	NonGeoStation	ary Notice:115545036	
Notice	Station Beam	Attachments	
Noti	ce Id: 115545036 AP4/II and AP4/III (Appendix 4 - Ann	nex 2A) 14.05.2015 Status 50	
	otice submitted under:		
C	No. 9.6 Coordination • No. 11.2 Notifica	tion First Notification C Resubmission	
	No. 9.11A Applies Bands 21.4 to 22 GHz	Bands 21.4 to 22 GHz Special Procedure	
0	No. 9.7A Specific Receive GSO FSS Earth stn Coo	ordination	
C	No. 9.17 Earth Station Coordination amongst Adm	ninistrations	
D	ate: DD.MM.YY 26.03.2015 Administration	Notice intended for	
	If1.Notifving	C Modification	
A	dministration	+ Suppression BR Identification No. of Station	
	tergovernmental administrations.	x to be modified/suppressed	
т. Т.	no stand System		
	© GeoStationary Satellite Network	C Specific Earth Station	
	NonGeoStationary Satellite Network	C Typical Earth Station	More

Verify notice type is First Notification



Run SpaceVal



9										SN	IS Valida	tion Errors – 🗆 🗙
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	Beam	E/R	Grp id	Table	Field	Value	Row no	Val err	Rule	Severit	Ap4_Ref	Text
				notice	f_aes_cha			20			A.18.a	Invalid value
	UPLINK	R		s_beam	f_all_orbit	N		559	4	F		Value is "N" and orbit_Ink is not filled
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					d_inuse	00:00: 00		603	1	F	A.2.a	Value missing



Fatal Errors walk-through



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	Beam	E/R	Grp id	Table	Field	Value	Row no	Val err	Rule	Severit	Ap4_Ref	Tex NOT SET
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			115626908	gpub				9999	1	F		Error: no rows found in table (grp5pec5ect)
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1. Commitment not set



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		_
ð	NonGeoStationary Notice:115545036	•
	Notice Station Beam Attachments	
	Notice Id: 115545036 Administration: LTU Status: 50 Date: 14.05.2015	
	A1a. Identity of the Satellite Network	
	LITUANICASAT-2	
	A4b3a. Nbr of Satellites to NH 1 A4b3b. Nbr of Satellites to SH 1	
	Basic Orbital Information Subject to 9.11A, 12, 12A Subject to 22.5c,d,f	
	A4b. Orbital Information for each Orbital Plane, where the Earth is the reference body	-
	Orbital Plane 4a. Inclin 40. 4C. 4C. 4C. 4G. 4G. 4G. 4E. 4F. 4F. 4F. 4F. Beam UPLINK id Angle ballites in Period Period Period Apogee apog Perigee perig Minimum N	,
	I 98 I 0 I 31 380 0 380 0 380 I <thi< th=""> I I</thi<>	•
	A15a. Commitment to meet epid limits (applicable	
	bands 10.7-12.75 GHz depending on region) C Yes C No (• N/A	
	A17a Commitment to meet nower-flux density limits C Yes, C No C N/A	
	(applicable bands 1164-1215 MHz)	
	A to a communent or anchar earth station (Yes (No • N/A) (applicable bands 14-14.5 GHz)	
	A17b,c,d,e Power Flux Density Enter PFD values	
	BR43 Description on whether all satellites in the satellite network will be operational at the same time.	



2. Beam to orbital plane association



SpaceCapture V8						
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Pa NonGenStationary Notice:115545036		Notice	Station	Beam	Group	Attachme
Ly Nonecestationary Nonecest 19945556					,	
Notice Station Beam Group Attachments						
Notice Id: 115545036 Administration: LTU Satelike Network: LITUANICASAT-2	La	Notice Id:	115545036	Administration: LTU	Satellite Network:	LITUANICASA
Checketeristics of the Beam Base Designation: C Receiving Beam C Transmitting Beam I define Characteristics Basi. Maximum Isotopic Gan Arterne Redidion Pattern Basi. Maximum Isotopic Gan Arterne Redidion Pattern Basi. Maximum Isotopic Gan Arterne Redidion Pattern Basi. Maximum Basi. Maximum Isotopic Gan Arterne Redidion Pattern Basi. Corolia Basi. Maximum Basi. Maximum Basi. Corolia Basi. Maximum Basi. Maximum Basi. Corolia Basi. Maximum Basi. Maximum Bas	s List of Available Groups To Group 115626909 Page No.	Characteristic: B2. C Transmitti	s of the Beam Beam ng Beam The current beam operal	Designation: UPLINK esignation nged) tes with all satellites in all orbits	B1b. Steerable C Mo Beam B4a. Select each orbit/Satellite in which the current antenna characteristics are used. Close	d of the Beam 34a, Orbit Link

Do this for each beam!



3. Add Special Section Reference



SNL - <u>http://www.itu.int/net/ITU-R/space/snl/bsearchb/spublication.asp</u>

ID number (SNS)	adm	ORG or Geo.area	Satellite name	Earth station	long_nom	Date of receipt	ssn_ref	ssn_no	ssn rev/ Sup	ssn rev no	removal	Part/ Art.	WIC/IFIC (ific.mdb)	WIC/IFIC date
<u>115545035</u>	LTU		LITUANICASAT-2		N-GSO	26.03.2015	API/A	9964					<u>2795</u>	26.05.2015
<u>115545035</u>	LTU		LITUANICASAT-2		N-GSO	26.03.2015	API/B	536					<u>2806</u>	27.10.2015
116500062	LTU		LITUANICASAT-2		N-GSO	23.03.2016	PART I-S						2819	10.05.2016

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В	NonGeoStationary Notice:115545036
Notice Coordination	Station Beam Group Emissions Frequencies Special Section Assoc Earth Station Assoc Space Station Attachments
Ne	Ditice Id 115545036 Adm: ITI Satellite Network: ITIUANICASAT-2 Beam Id DOWNLINK E Group Id: 115626908 Information Common to List of Groups in this Beam A13. Other Special Section s Image: Common Section Section Section Section Section AR11/A (RR 1042) Image: Common Section Section Section Section AR11/C (RR 1060) Image: Common Section AR1.14 (RR 1610) Image: Common Section AR1/A (9.1) 9364 Special Section AR1/A (9.1) 9364 Image: Common Section AR1/A (9.1) 9364 Image: Common Section AR1/A (9.1) 9364 Special Section AR1/A (9.1) 9364 Image: Common Section AR1/A (9.1) 9364 Image: Common Section AR1/A (9.1) 9364 Special Section AR1/A (9.1) 9364 Image: Common Section AR1/A (9.1) 9364 Image: Common Section AR1/A (9.1) Image:



4. Add date of bringing into use



	SpaceCapture V8
File Edit Tools	View Window Help
	A I I I I RAST C PLAN C RS49/552
Ъ	NonGeoStationary Notice:115545036
Coordinat Notice	tion Special Section Assoc Earth Station Assoc Space Station Attachments Group Emissions Frequencies
	Notice 115545036 Satellite LITUANICASAT-2 Beam Id UPLINK R 🗸 Group Id: 115626909 🗸 Split Grp Id:
	3. Observed Frequencies and Related Characteristics BB Identification of the Group Page BB
	C Add C Mod C Sup of the group to be modified/suppressed No. Data
	💐 Characteristics Common to a Group of Frequencies [🌂 General Characteristics
	A2a. Date Bringing into use 14.12.2016 A2b. Period of Validity 3 Years
	A3a. Operating Administration or Agency
	011 UAB NANDAVIONIKA
	A3b. Responsible Administration
	A COMMUNICATIONS REGULATORY AUTHORITY
	To apply this information to other groups, select the beam or notice option. Apply to current group only in this beam in this beam

Recall No. 11.25



5. Add maximum total peak power



		SpaceCapture V8	
<u>F</u> ile	<u>E</u> dit <u>T</u> ools	<u>View Window H</u> elp	
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B	Þ	NonGeoStationary Notice:115545036	
	Coordinat Notice	ion Special Section Assoc Earth Station Assoc Space Station Attachments Station Beam Group Emissions Frequencies	
		Notice 115545035 Satellite LITUANICASAT-2 Beam Id DOWNLINK E 🗸 Group Id: 115626908 🗸 Split Grp Id:	
		3. Observed Frequencies and Related Characteristics C Add C Mod C Sup of the group BR Identification of the Group to be modified/suppressed No. BR Data	
		🔪 Characteristics Common to a Group of Frequencies 💐 General Characteristics	
		C3a. Assigned Frequency Bandwidth No Sensors EA CP C6. Polarization Type CR Circular Direct Polarization 1200 (kHz) C Passive Sensors C1 C	
		C2c. compliance with No. 4.4 of the Radio Regulations	
		C11a. Service Area as List of Countries or Geographic designations	
		Service Area Number Diagram. See Attachment No. Bemarks	



Notice is complete



	SNS Validation Errors – 🗆 🗙													
Image: Space Rules Image: Space														
Validation Report for 11554503 C:\Users\sinanis\Desktop\WR Ntc ID: 115545036 Adm: L	Validation Report for 115545036 User SINANIS created on 13.12.2016 19:23:39 with SpaceVal 8.0 C:\Users\sinanis\Desktop\WRS-16 (Local)\115545035.mdb Ntc ID: 115545036 Adm: LTU Sat Name: LITUANICASAT-2 Action: A Status: 50 D. RCV: 26.03.2015 Eatal Error: 0 Warnings: 3													
Beam E/R Grpid	Table Field	Value Row n	o Valerr	Rule S	ieverit Ap4_Ref	Text								
UPLINK R	s_beam gain	0.93	504	2	W B.3.a.1	Invalid format								
115626909	e_as_stn gain	14.39	1 694	2	W C.10.d.3	Invalid format								
DOWNLI E NK	s_beam gain	0.93	504	2	W B.3.a.1	Invalid format								

Notice is complete! ... but not yet receivable



Frequency Assignments



В			NonGeoStatio	nary Notice:115545036	5		
Г	Coordination Notice	Special Section Station	Assoc Earth Station Beam	Assoc Space Station Group	Attachments Emissions	Frequencies	
		Notice Id: 115545036 Ad	dm: LTU Satellite Network: LITUAt	NICASAT-2 Bear	n Id UPLINK R	▼ Group Id: 115626909 ▼	
			C2a1. Assigned	I Frequencies k/M/GHz ∧ 435.000000 M 438.000000 M	\$		
			H		Γ		

- The conversion tool sets the API frequency band as frequency assignments!
 - The assigned frequency bandwidth C.3.a needs also to be adjusted
- This will render the notice not receivable as the API coverage will fail
- Update the frequency assignments with the real ones before sending it to BR!





Thank you!

Akim Falou-Dine <u>Akim.Falou-Dine@itu.int</u>

Nick Sinanis Nick.Sinanis@itu.int