# Finding new channels – compatibility analysis



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# **Overview**

- Tools to be used
- Frequency band and TV channels
- Procedure diagram
- Example

# Tools to be used













**Frequency band and TV channels** 

Frequency band: 470 – 694 MHz TV channels: 21 – 48 TV channel 69 – special case (flexible channels).

#### Channel numbering and channel boundaries DVB-T channel arrangement in Bands IV and V (Extract from Table A.3.1-2 of the GE-06 Agreement)

Channel number	Channel b (M	oundaries Hz)	Assigned frequency (MHz)
	E	Rand IV	
21	470	178	171
21	478	476	482
22	486	400	490
23	494	502	498
25	502	510	506
26	510	510	514
27	518	526	522
28	526	534	530
29	534	542	538
30	542	550	546
31	550	558	554
32	558	566	562
33	566	574	570
34	574	582	578
		Band V	
35	582	590	586
36	590	598	594
37	598	606	602
38	606	614	610
39	614	622	618
40	622	630	626
41	630	638	634
42	638	646	642
43	646	654	650
44	654	662	658
45	662	670	666
46	670	678	674
47	678	686	682
48	686	694	690
 69	 854	 862	 858

## Find a channel process diagram (see also Doc. INFO-3)



## Starting from GE06 Calc... (example)

- ✓ Launch GE06 Calc
- ✓ File -> Open compatibility results file (.mdb file)
- View -> Channel distribution statistics
- Check appropriate boxes and set the default margin
- Select Administration and click Refresh
- ✓ Select item of interest and click on the blue number
- ✓ List of requirements will appear
- Select the appropriate requirement and click on it



## Setting the defaults (example)

- 1 Click on Digital Interferers tag
- 2 Click on Headings toolbar
- **3 In the pop-up window set the desired Column Preferences**
- 4 Set them as default and click OK

#### Repeat the same procedure for Digital Affected



#### **Example: List of interferers on ch. 31**

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Normality         Normality <t< th=""><th>Advertiser of</th><th></th><th></th><th></th><th></th><th>UH</th><th>F Channel Distribut</th><th>tion VH</th><th>F Channel Distribu</th><th>tion</th><th>·····</th><th></th><th>-,</th><th></th><th></th></t<>	Advertiser of					UH	F Channel Distribut	tion VH	F Channel Distribu	tion	·····		-,		
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• or of standards due to the tax back book of profession due to tay back book of professi	Channed and		les 25 immediate in a sur astrolation le sur anno 1				2 UAE	UAE	BR2_UAE 072	GT1	FUJAIRAH		21-39.	41-48 21	-22,25,27-28,30-31,33,35-36,38
Image: Construction of the Souther information of th	Show assigned	Inable charmels of freq. bloc	ks ir ignoring incompatibilities between	rrequirements where one	or bourn has/have a range or avail		3 UAE	UAE	BR1_UAE 072	GT1	FUJAIRAH		21-39.	41-48 21	-22,25,27-28,30-31,33,35-36,38
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24 UAE UAE DTI UAE U95       1AS EARTH STATION       SHV27       27       27       27       27       35 27       27       83.7       80.2       7.17 Interface         25 UAE UAE DTI UAE U95       FALAJAL MUALLAA       SHV27       27       27       27       34 27       27       24       76.6       457       164       64.57       110effere         26 UAE DTI UAE 094       FALAJAL MUALLAA       SHV27       27       27       27       34 27       27       24       76.6       457       164       64.57       110effere         27 UP5       LAE DTI 24LT03       APH PHANA       29       30 29       29       31       82.7       32.6       10.2       164       10.2       164       10.2       164       10.2       164       10.2       164       13.1       164       33 31       31       31       31       31       31       31       31.3       17.9       69.4	23 UAE U	UAE DT1 SHJ019	SHARJAH STUDIOS	SJHV27	27 2	27	27			33	27 27	7	23.6	85	.4 11.8 Interfere
25 0 AB UAE DT1 0AC 099       PADA AL MOALDON       SHV27       27       27       24       7.6.6       4.5.7 Interfere         26 UAE DT2 ALLT03       APLICALT03       APLICALT03       APLICALT03       42       27       24       7.6.6       4.5.7 Interfere         26 UAE DT2 ALLT03       APLICALT03       APLICALT03       42       29	24 UAE U	UAE DT1 UAE 095	TAS EARTH STATION	SJHV27	27 27	27	27			35	2/ 2	7	83.7	80	.2 7.17 Interfere
27.00     0.0     1236     JEBEL HATTA     29     29     29     30.29     29     93.1     82.7     30.20       28.04E     0.1     FUJAIRAH-2     ECV03     31     31     31     31     31     71.9     69.4     1.31     Interfere       28.04E     0.4E     DT1     24.31     FUJAIRAH-2     ECV03     31     31     31     31     31     31     71.9     69.4     1.31     Interfere       30.04E     0.4E     DT1     SHARJAH DHAID     BUHYS25     35     35     35     37.35     35     32.2     99.4     21.51     1.16     1.16       30.04E     0.4E     DT1     SHARJAH     DHHYS25     35     35     35     37.35     35     32.2     99.4     21.51       30.04E     0.4E     DT1     SHARJAH     STUDIOS     BUHYS25     35     35     35     37.35     35     36     37.35     35     23.6     89.3     15.51     1.16       III     IIII     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	25 UAE U	UAE DT1 0AE 094		JJHVZ/	2/	27	29			4	/2		157	/0	6 / 57 Interferen
28 UAE         DT1         2431         FUJAIRAH-2         ECV03         31 <td>LU UAL C</td> <td>2136</td> <td>APLI DUADLO</td> <td></td> <td>28</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.6 4.57 Interfere</td>	LU UAL C	2136	APLI DUADLO		28										.6 4.57 Interfere
THAE UAE DT1         SHARJAH DHAID         BUHYS25         35         35         35         37         35         32         95.4         21.54         Interfere           30 UAE UAE DT1         SHORE         SHUTELWU MSAL BIHAY         BUHYS25         35         35         35         37         35         35         14          19.03         Interfere           31 UAE UAE DT1         SHARJAH STUDIOS         BUHYS25         35         35         37         35         35         14          19.03         Interfere           31 UAE UAE DT1         SHARJAH STUDIOS         BUHYS25         35         35         37         35         35         23.6         89.3         15.51         Interfere	27 114 5		JEBEL HATTA		29 29	29	29			30	29 29		93.1	82	.6 4.57 Interfere .6 11.02 Interfere
30 UAE UAE DIT SHUGO.       CHICLUL UABAL BUHAY BUHYS25       35       35       35       37       35       16        19.03 Interfere         31 UAE UAE DT1       SHARJAH STUDIOS       BUHYS25       35       35       35       37       35       35       23.6       89.3       15.51 Interfere         III	27 UAE 28 UAE L	UAE DT1 2431	JEBEL HATTA FUJAIRAH-2	ECV03	29 29 29 21 29 21 29 21 29 21 20 20 21 20 20 21 20 20 20 20 20 20 20 20 20 20 20 20 20	29 31	29 31			30 33	29 29 31 3	)	93.1 71.9	82 69	.6 4.57 Interfere .6 11.02 Interfere .7 5.55 E
31 UAE UAE DT1 SHJ004 SHARJAH STUDIOS BUHYS25 35 35 35 37 35 35 23.6 89.3 15.51 Interfere "" " " " " " " " " " " " " " " " " "	27 UAE 28 UAE U	UAE DT1 2431 UAE DT1 SHJ003	JEBEL HATTA FUJAIRAH-2 SHARJAH DHAID	ECV03 BUHYS25	29 29 31 35	29 31 35	29 31 35			30 33 37	29 29 29 3 31 3 <sup>-</sup> 7 35 35	)   5	93.1 71.9 32.2	82 69 95	.6 4.57 Interfere .6 11.02 Interfere .7 5.55 € 1.12 .4 1.31 Interfere .4 21.54 Interfere
	27 UAE L 28 UAE L 30 UAE L 30 UAE L	UAE DT1 2431 UAE DT1 SHJ003 UAE DT1 SHJ002	JEBEL HATTA FUJAIRAH-2 SHARJAH DHAID	ECV03 BUHYS25 BUHYS25	29 29 31 35 35	29 31 35 35	29 31 35 35			30 33 37 37	29 29 31 3 735 39 735 39	)   5	93.1 71.9 32.2	82 69 95	.6         4.57 Interfere           .6         11.02 Interfere           .7         9.50           .4         1.31 Interfere           .4         21.54 Interfere           .4         21.54 Interfere           .9         19.03 Interfere
THE SECOND SECONDO SECONDO SECOND SECONDO SECO	27 UVE 28 UAE U 30 UAE U 31 UAE U	UAE DT1 2431 UAE DT1 SHJ003 UAE DT1 SHJ003 UAE DT1 SHJ004	JEBEL HATTA FUJAIRAH-2 SHARJAH DHAID SHARJAH STUDIOS	ECV03 BUHYS25 BUHYS25 BUHYS25	29 29 31 35 35 35	29 31 35 35 35	29 31 35 35 35			30 33 37 37 37 37	29     29       31     3'       '35     3'       '35     3'       '35     3'	) 5 5	93.1 71.9 32.2 11.0 23.6	82 69 95	.6         4.57 Interfere           .6         11.02 Interfere           .7         .3           .4         1.31 Interfere           .4         21.54 Interfere           .9.03 Interfere         .19.03 Interfere           .3         15.51 Interfere +
m	27 UAP 28 UAE U 30 UAE U 31 UAE U	UAE DT1 2431 UAE DT1 2431 UAE DT1 SHJ003 UAE DT1 SHJ002 UAE DT1 SHJ004	JEBEL HATTA FUJAIRAH-2 SHARJAH DHAID SHARJAH STUDIOS	ECV03 BUHYS25 BUHYS25 BUHYS25	29 29 31 35 35 35	29 31 35 35 35 	29 31 35 35 35			30 33 37 37 37 37	29     29       31     33       35     35       35     35       35     35		93.1 71.9 32.2 23.6	82 69 95 89	6 4.57 Interfere 6 11.02 Interfere 7 3 1 1.31 Interfere 4 21.54 Interfere 3 15.51 Interfere 4 15.51 Interfere
	27 UAE 28 UAE UAE UAE 30 UAE 31 UAE 4	UAE DT1 2431 UAE DT1 SHJ003 UAE DT1 SHJ004 UAE DT1 SHJ004	JEBEL HATTA FUJARAH-2 SHARJAH DHAID SHARJAH STUDIOS	ECV03 BUHYS25 BUHYS25 BUHYS25	29 29 31 35 35 35 35 35 35	29 31 35 35 35 ""	29 31 35 35 35			30 33 37 37 37	29     21       31     3'       35     3!       35     3!       35     3!		93.1 71.9 32.2 11.6 23.6	82 69 95 89	6 4.57 Interfere 6 11.02 Interfere 7 3 10 102 Interfere 4 1.31 Interfere 4 21.54 Interfere 3 1551 Interfere ↓

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### Example (cont'd): List of affected on ch. 31

Edit View Tools Pref					~							
Channel Distribution Statistic	ics				• 🛛 👬	Channel Distribution	Details - Digital assi	gnments with no	assignable channel or freq	uency block		
Administration UAE -	Refresh				U	HF Channel Distribution	VHF Channel Distribu	tion				
						No. Adm Ge	eo Adm Ref Id	Not.Type Site	e/Allot Name S	FN Id Ch/b	lock Avail	Ch/block
Show assignable channel	els or freq. blocks if the	e maximum acceptable mar	gin (dB) is: 4			1 UAE U/	E BR1_UAE 019	GT1 DIE	BA	21,23	3-48 21,25	31,38,41,45
Show assignable channel	els or freq. blocks if igr	noring incompatibilities betw	een requirements where one or b	oth has/have a range of	available fre	3 UAE UA	E BR2_0AE 072	GT1 FU	IAIRAH	21-38	9,41-48 21-22	25 27-28 30-31 33 35-36 3
Innore self incompatibilities	er 🔲 Do pot	consider interference to th	e wanted requirement			4 UAE UA	E BR3_UAE 087	GT1 LIM	A LAHMAZI	21-48	8 21-25	27-48
a componente submittad in	a the COOPDS of	action and always taker	a inte account!			5 UAE U4	E BR4_UAE 087	GT1 LIM	A LAHMAZI	21-48	8 21-25	,27-48
annel Distribution Statistics	The COURD Se	ection are always take				6 UAE UA	E BR2_UAE 087	GT1 LIM		21-48	8 21-25	27-48
Submitted	d Noav	vailable channel or	No assignable channel or	Having an assign	able chann	8 UAE UA	E BR2 UAE 022	GT1 LIM	A SHAMKHAT	21-40	3-28.30-48 21.23	-25.27-28.30-48
	fre	equency block	frequency block	or a frequen	cy block	9 UAE UA	E BR1_UAE 022	GT1 LIV	A SHAMKHAT	21,23	3-28,30-48 21,23	-25,27-28,30-48
Assignments <u>20</u>		0	<u>14</u>	6		10 UAE UA	E BR2 SHJ021	OT1 OU			22.25	27-28,30-31,33,35-36,38,
Allotments 6		0	6	ſ		11 11 10	E BR1_SHJ021	GT1 SH	ARJAH KALBA	22-45	5,47-48 22,25	27-28,30-31,35,55 - 27,20,41
		-			(C	13 UAE UA	E BR2 UAE 081	GT1 UM	M ALQUWAIN	21-44	446-48 21.25	27 29 31 33 35 37-38 41-4
Total 26		0	20	6			E BR1_UAE 081	GT1 UM	MALQUWAIN	21-44	4,46-48 21,25	27,29,31,33,35,37,29
eneral Analysis Results inistration <u>inistration Unique Identifier</u> 3_UAE 081 /Allotment Name	UAE				<u> </u>							
MM ALQUWAIN ] Show multi-channel reqs. tails Colours Frequencies S ieographical area lotice Type lot linked ccceptable Channel/Frequency E 1-44,46-48 valiable Channel/Frequency Blo 1.25,27,29,31,33,35,37-38,41-44 saigned Channel/Frequency Blo	Symbols UAE GTI Block R R Cock 42,48 Ock		N Charles								{	
M ALQUWAIN Show multi-channel reqs. als Colours Frequencies S orgraphical area tice Type t linked ceptable Channel/Frequency Elo 24.4.6-48 alable Channel/Frequency Blo 25.27.29.31,33.35,37-38,41-42 signed Channel/Frequency Blo	Symbols UAE GTI Block R eck 42.48 cock		N Ching		Star Brad							
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4 ALQUWAIN Show multi-channel reqs. Is Colours Frequencies S pgraphical area ice Type linked septable Channel/Frequency Elo 25.27,29.31,33,35,37-38,41-44 igned Channel/Frequency Blo 25.27,29.31,33,35,37-38,41-44 igned Channel/Frequency Blo 25.27,29,31,33,35,37-38,41-44 igned Channel/Frequency Blo 25.27,29,31,33,35,37-38,41-44 igned Channel/Frequency Blo 27.27,27,27,27,27,27,27,27,27,27,27,27,27,2	Symbols UAE GTI Block R Block R Block R Block R Block R C C C C C C C C C C C C C C C C C C	Site/Allot Name KUH HALWA AL WAKRA	SFN Id Allot Ad	Im Refl   Ch/block 28	Avail. Ch/blo 28	ck Assigned Ch/bl	SBH (dBw)	8BV (dBW) Wa	nted Chann Interf. Chann 28	el Distance (km) 71.6 409.8	CNFS (dB(uV) 59.3 52.8	Margin (dB) Relation 3.36 Interfere 2.33 Interfere
4 ALQUWAIN Show multi-channel regs. Is Colours Frequencies S ographical area (co Type linked septable Channel/Frequency El 44.46-48 allable Channel/Frequency Elo 25.27.29.11.33.35.37-38.41.41 igned Channel/Frequency Blo 25.27.29.11.33.35.37-38.41.41 igned Channel/Frequency Blo Digital Affected Nol Ass Geo Not T 70 IRN IRN DT1 1 71 QAT QAT D11 0 72 IRN PL	Symbols UAE GT1 Block R Block Block R R Block R Block R Block R Block R Block R Block	Site/Allot Name KUH HALWA AL WAKBA HENGAM	SFN Id Allot Ad	Im Ref I Ch/block	Avail. Ch/blo 28	ck Assigned Ch/bl	8BH (dBW) 30	8EV (dBW) Wai	nted Chann Interf. Chann	el Distance (km) 71.6 409.8 135.3	CNFS (dB(uV/ 59.3 52.8 0	Margin (dB) Relation 3.36 Interfere 2.33 Interfere 13.16 Interfere
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#### Example (cont'd): Assigning channel 31 instead of ch. 69 using TerRaNotices and applying the same steps for 2 other notices assigning ch. 42 and 48

TerRaNotices 1.2 (PR	ROD) - [UAE_cleared_UMM_31_42_4	8.txt - GT1]		-				_	_		
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Notice browser		ID1/Assignment	nt's unique identifier		ID3/ Unique identifier of the corresp	ponding plan assignment					
Notice type	Description	BR1_UAE 081									GT1
UAE_cleared_UM											
Head section	UAE	Fragment	Type of notification	Notification intended for					12A/ Operating	2C/ Date of bringing into use	
GT1 ADD	BR1_UAE 019		E/Resubmission	Addition					agency		
GTIADD	BR1_UAE 072 BR2_UAE 072	Article 11	Apply 4.1.2.5 procedure	Madification							
GT1IADD	BR1 2136	CEOSD		Modification					12B/ Address	10B/ Regular hours of	
GT1 GT1 ADD	BR2_2136	CEUGD							code	From To	
🗸 GT1 ADD	BR3_2136		<u></u>							From : 10	
GT1 ADD	BR1_UAE 087	Assignment ch	aracteristics Antenna charact	eristics							
GT1 ADD	BR2_UAE 087										
✓ GTI ADD	BR3_UAE 087										
GTIADD	BR1 LIAE 026										
✓ GT1IADD	BR2 UAE 026										
✓ GT1 ADD	BR3_UAE 026	Station inform	ation		<b>•••</b> • • •						
✓ GT1 ADD	BR1_UAE 022	Antenna		4B/ Geographic	4C/Longitude	0' - F1" - F -	9EA/ A	titude of site		3A1/ Call	
GT1 ADD	BR2_UAE 022	site name		area	Latitude		above s	ealevel	_	sign	
GT1 ADD	BR1_SHJ021	UMM ALQUW	AIN	UAE 👻	25° 🚔 3	1' ≑ 29" ≑ 🛚 🔻	40		m		
GTUADD	BR1 HAE 081										
J GT1IADD	BR2 UAE 081										
GT1 ADD	BR3_UAE 081										
V UIL	201										
GT2 ADD	BR2_ALLT01										
GT2 ADD	BR3_ALLT01	1A/ Assigned frequency		9D/ Polarization	8BH/ Horizonta	le.r.p.	7H/ Reference planni	ng configuration		at Beam tilt angle	
GT2IADD	BR1 ALLT03	554	MHz	v -		dBW	RPC2		-		dBW
GT2JADD	BR2_ALLT03	and the second sec		7J/ Type of spectrum mas	k <b>8BV/</b> Vertical e.	r.p.	7K/ Receive mode 7C	1/ TV System		95/ Beam tilt angle	
			kHz	N -	34.8	dBW	· · · · ·				Deg
		Antenna char	acteristics	Antonna Mainha			Digi	tal plan entry para	meters	C / SENIE	
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## Example (cont'd)

- ✓ Validate and save the notice file
- Browse and upload it together with the notice files of neighboring countries to eBCD web-portal - eTools: <u>https://www.itu.int/ITU-</u> <u>R/eBCD/MemberPages/eCalculations.aspx</u>
- ✓ Complete Submission

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## Example (cont'd)

## ✓ Label your job and click Submit

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### Example (cont'd)

#### ✓ Wait for results

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	Job Output			
	Job Output Download results			

- ✓ Download the results file and unzip it
- ✓ Launch GE06Calc and open saved .mdb file to view the results

#### Example (cont'd): List of <u>interferers</u> on ch. 31

[C:\ASMG_exerc File Edit View	ise\ARS_OMA_QAT_UA Tools Preference	AE\4 countries_testGE06_out.m s Window Help	ndb] GE06 Calc						-			
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Show :	assignable channels or fre	eq. blocks if the maximum acceptal	ble margin (dB) is: 4		1 UAE	UAE	BR1_UAE 019	GT1	DIBBA		21,23-48	21,25,31,38,41,45
Show	assignable channels or fre	a blocks if ignoring incompatibilitie	es between requirements where one or both h	as /have a range of available freq	2 UAE 3 UAE	UAE	BR2_UAE 072	GT1	FUJAIRAH		21-39,41-48	21-22,25,27-28,30-
E SHOW	assignable channels of he	q. blocks in ignoring in compatibilitie	es between requirements where one of both in	as/flave a range or available freq	4 UAE	UAE	BR3 UAE 087	GT1	LIWA LAHMAZI		21-39,41-40	21-25,27-48
Ignore	self incompatibilities	Do not consider interference	ce to the wanted requirement		5 UAE	UAE	BR4_UAE 087	GT1	LIWA LAHMAZI		21-48	21-25,27-48
The agreeme	nts submitted in the <	COORD> section are always	staken into account!		6 UAE	UAE	BR2_UAE 087	GT1	LIWA LAHMAZI		21-48	21-25,27-48
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	Submitted	frequency block	frequency block	or a frequency block	9 UAE	UAE	BR1_UAE 022	GT1	LIWA SHAMKHAT		21,23-28,30-48	21,23-25,27-28,30-
Assignment	s 20	0	14	6	10 UAE	UAE	BR2_SHJ021	GT1	SHARJAH KALBA		22-45,47-48	22,25,27-28,30-31,
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#### Example (cont'd): List of affected on ch. 31

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# **Thank you for your attention!**

# **Questions?**

## Evghenii Sestacov ITU/BR evghenii.sestacov@itu.int