

INTERNATIONAL TELECOMMUNICATION UNION



Radiocommunication Bureau

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Circular Letter
CR/253

31 March 2006

To Administrations of Member States of the ITU¹

Subject: Publication of the results of the second synthesis for the draft Plan

References: Resolution COM5/1 of the first session of the Regional Radiocommunication Conference for the planning of digital terrestrial broadcasting service in parts of Regions 1 and 3, in the frequency bands 174-230 MHz and 470-862 MHz, Geneva, 2004 (RRC-04)

BR Circular Letter CR/241 of 29 July 2005

BR Circular Letter CR/246 and its Addenda 1 and 2 of 20 October 2005,
1 November 2005 and 1 March 2006, respectively

Report of the first meeting of the IPG (Document IPG-1/51)

Report of the second meeting of the IPG (CA/158 of 28 March 2006)

To the Director General

Dear Sir/Madam,

1 In accordance with the schedule of the intersessional activities, indicated in Annex 2 to Resolution COM5/1, and the relevant conclusions of the Intersessional Planning Group (IPG) and its Working Party (WPIPG) from their respective meetings (4-7 July 2005 and 28-29 September 2005, respectively), the Planning Exercise Team (PXT) produced the first synthesis of the draft Plan, using the inventory of digital requirements and administrative declarations submitted by the Member States in response to the BR Circular Letter CR/241² and the other input data compiled by the Bureau from the relevant databases (the updated versions of the ST61 and GE89 Plans, the MIFR and the updated RCC List). In summary, 109 Member States from the planning area and one observer (the Palestinian Authority) submitted requirements for the preparation of the draft Plan. In addition, and based on the indications from three Member States, the Bureau generated

¹ *This Circular Letter is primarily addressed to the Member States of Region 1 (except Mongolia) and to the Islamic Republic of Iran. It is for information only for other Member States.*

² As advised by the IPG-1, the PXT generated requirements for those administrations that did not submit any requirement either for the first planning exercise or for the draft Plan.

requirements for one administration (AGL, by converting their eligible analogue assignments into digital requirements) and did not generate any requirements for two Member States, which so requested explicitly (ISL and SEY). Based on the indication in § 6.2 of the Report from RRC-04, the Bureau reused the requirements from one administration (MWI), which were submitted for the purpose of conducting the first planning exercise. Finally, and based on the conclusions from IPG-1 and WPIPG, the PXT generated requirements for six Member States (GNE, LBR, RRW, SOM, SRL and STP), which did not submit any requirements, by converting their eligible analogue assignments into digital requirements.

2 For the first synthesis associated with the draft Plan, some 81 Member States submitted more than 1.4 million administrative declarations by 27 January 2006, in the format described in Circular Letter CR/246 and its Addendum 1, and approximately 1 million of these administrative declarations were used for the first synthesis of the draft Plan. The other input data (notably on the existing and planned analogue broadcasting assignments and on the existing and planned assignments of other primary services) have been retrieved by the Bureau, using the general indications in § 1.7 of the Report, as well as the specific indications from the administrations concerning the inclusion or exclusion of some categories of assignments from the eligible assignments. Detailed statistics on the input data used for the first planning exercise (i.e., the inventory of digital requirements, data for existing and planned analogue broadcasting assignments, data for existing and planned assignments of other primary services, as well as data on administrative declarations) are provided in [Document IPG-2/12](#) and its Addenda 1 and 2. These data are also available for consultations at the URL http://www.itu.int/ITU-R/conferences/rrc/rrc-04/intersession/draft_plan/index.html , under Section “Data”.

3 The results of the first synthesis of the draft Plan have been made available to the membership in time for the second meeting of the IPG on the ITU web site. They were subsequently distributed to the participants in the IPG-2 meeting (see [Document IPG-2/19](#), its Addendum 1 and its Corrigendum 1). After their review by the IPG-2, a revised version was posted on the ITU web site on 7 March 2006 (see entries referred to as “Correction 2006/03/07” under Section “Results” at the URL http://www.itu.int/ITU-R/conferences/rrc/rrc-04/intersession/draft_plan/index.html).

4 In accordance with the conclusions from IPG-1 and WPIPG, subsequently reconfirmed by IPG-2, the Bureau collected additional administrative declarations from administrations, which were submitted by 20 March 2006, and conducted the second synthesis of the draft Plan. The summary results of the second synthesis of the draft Plan are given in the three Annexes to this Circular letter and the detailed results in the two attached CD-ROMs. These results and other relevant information for the second synthesis of the draft Plan are also available for download at http://www.itu.int/ITU-R/conferences/rrc/rrc-04/intersession/draft_plan2/index.html .

5 With the publication of the results of the second synthesis of the draft Plan, all the intersessional activities referred to in Resolution COM5/1 are now complete. As indicated in Annex 2 to Resolution COM5/1, administrations are expected to analyse these results with a view to taking them into consideration in their preparations for the second session of the RRC. Administrations may wish to take into account the relevant IPG recommendations in this respect, as indicated in Annex 1 (including its Appendix 1) to the IPG-2 Report.

6 The Bureau remains at the disposal of your Administration for any clarification you may require with respect to the subjects covered in this Circular Letter.

Yours faithfully,

V. Timofeev
Director, Radiocommunication Bureau

Annexes: 3
2 CD-ROMs (only for Member States in the planning area)

Distribution:

- Administrations of Member States of the ITU
- Members of the Radio Regulations Board

ANNEX 1

Second synthesis of the draft Plan: general description and statistics

1 Introduction

The PXT conducted the second synthesis of the draft Plan using the indications in the Report from the RRC-04 and the conclusions of IPG in this respect. As was the case with the first planning exercise and with the first synthesis of the draft plan, the PXT conducted four study cases, which are described hereunder.

1.1 Study case 1 - the draft Plan

This case represents the draft Plan as defined by the RRC-04. For the conduct of this study case, the Bureau included all analogue television assignments in the reference situation, in accordance with the indications from the administrations concerned, and all complying frequency assignments to primary services other than broadcasting.

1.2 Study case 2 – AIOX

For the conduct of this study case, the Bureau included all analogue television assignments in the reference situation, in accordance with the indications from the administrations concerned. The assignments to primary services other than broadcasting in the reference situation were excluded when conducting this study case.

1.3 Study case 3 - AXOI

For the conduct of this study case, the Bureau included all complying frequency assignments to primary services other than broadcasting, in accordance with the indications from the administrations concerned. The analogue television assignments in the reference situation were excluded when conducting this study case.

1.4 Study case 4 - AXOX

For the conduct of this study case, the Bureau excluded all analogue television assignments in the reference situation and all assignments to primary services other than broadcasting in the reference situation.

2 Synthesis configuration for the different study cases

In accordance with the instructions from IPG-1, the PXT investigated methods for applying the principle of equitable access to plan synthesis (in terms of number of satisfied requirements per administration) and in particular methods that would avoid the situation where some administrations had none of their requirements satisfied. Such a method has been proposed and the relevant software was developed. In applying this approach, it is necessary to set a target of the maximum equal number of requirements that should be assigned with a frequency, where such requirements would be considered at the level where a linked set of requirements is considered as one requirement. The following table provides the target of the maximum equal number of

requirements that were set and those values that were achieved for the second synthesis of the draft Plan:

	Case study 1		Case study 2		Case study 3		Case study 4	
Band	VHF	UHF	VHF	UHF	VHF	UHF	VHF	UHF
Target	0	2	0	2	3	21	3	21
Achieved	0**	2	0**	2	3	21*	3	21*

*Post synthesis has optimised this value even further.

** After the analysis process no channels were available for the synthesis due to the constraints imposed by the existing and planned assignments (assignments to analogue television and/or other primary services).

3 Summary of the results

3.1 Results for Band III

	Case study 1			Case study 2			Case study 3			Case study 4		
	T-DAB	DVB-T	Total	T-DAB	DVB-T	Total	T-DAB	DVB-T	Total	T-DAB	DVB-T	Total
Yes	5353	4056	9409	5365	4073	9438	6692	4622	11314	6673	4629	11302
No	4477	3494	7971	4465	3477	7942	3138	2928	6066	3157	2921	6078
Total	9830	7550	17380	9830	7550	17380	9830	7550	17380	9830	7550	17380

Key: Yes = number of requirements with a channel or frequency block assigned

No = number of requirements without a channel or frequency block assigned

Detail results for Band III, concerning each administration on the different options, are given in Annex 2.

3.2 Results for Bands IV and V

	Case study 1	Case study 2	Case study 3	Case study 4
Yes	38090	38317	42629	42823
No	17759	17532	13220	13026
Total:	55849	55849	55849	55849

Key: Yes = number of requirements with a channel or frequency block assigned

No = number of requirements without a channel or frequency block assigned

Detail results for Bands IV and V, concerning each administration on the different options, are given in Annex 3.

ANNEX 2

Results for Band III (T-DAB and DVB-T) concerning each administration on the different options

ADM	Case study 1				Case study 2				Case study 3				Case study 4			
	T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
AFS	9	0	64	19	9	0	64	19	8	1	77	6	9	0	75	8
AGL	-	-	24	56	-	-	24	56	-	-	46	34	-	-	44	36
ALB	0	1	1	14	0	1	1	14	0	1	9	6	0	1	10	5
ALG	324	183	34	137	338	169	35	136	360	147	37	134	358	149	38	133
AND	12	0	-	-	12	0	-	-	12	0	-	-	12	0	-	-
ARM	-	-	2	38	-	-	2	38	-	-	37	3	-	-	40	0
ARS	77	13	103	37	80	10	103	37	76	14	111	29	85	5	113	27
AUT	20	5	33	0	19	6	31	2	21	4	32	1	22	3	33	0
AZE	-	-	22	53	-	-	22	53	-	-	69	6	-	-	74	1
BDI	0	11	1	6	0	11	1	6	4	7	1	6	4	7	0	7
BEL	14	72	0	43	16	70	0	43	15	71	0	43	14	72	0	43
BEN	26	293	1	13	26	293	1	13	48	271	0	14	48	271	0	14
BFA	13	83	18	32	13	83	18	32	53	43	16	34	53	43	16	34
BHR	7	1	0	8	6	2	0	8	5	3	5	3	7	1	3	5
BIH	7	12	5	15	7	12	5	15	11	8	10	10	11	8	10	10

	Case study 1				Case study 2				Case study 3				Case study 4			
	T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T	
ADM	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
BLR	-	-	21	5	-	-	20	6	-	-	22	4	-	-	21	5
BOT	13	19	0	33	13	19	0	33	26	6	15	18	25	7	17	16
BUL	28	2	3	17	28	2	3	17	27	3	17	3	27	3	17	3
CAF	-	-	4	40	-	-	4	40	-	-	17	27	-	-	19	25
CME	56	2	28	4	56	2	28	4	52	6	30	2	52	6	30	2
COD	-	-	34	60	-	-	34	60	-	-	44	50	-	-	44	50
COG	37	237	5	62	37	237	5	62	148	126	0	67	147	127	0	67
COM	2	46	1	9	2	46	1	9	31	17	0	10	31	17	0	10
CPV	26	4	1	6	26	4	1	6	30	0	1	6	30	0	1	6
CTI	128	8	7	29	128	8	7	29	132	4	7	29	132	4	8	28
CVA	0	6	0	3	0	6	0	3	6	0	3	0	6	0	3	0
CYP	0	8	0	4	0	8	0	4	7	1	2	2	7	1	2	2
CZE	32	0	50	0	32	0	50	0	32	0	50	0	32	0	50	0
D	111	41	152	5	110	42	150	7	104	48	136	21	103	49	147	10
DJI	8	10	2	34	8	10	2	34	11	7	4	32	11	7	4	32
DNK	17	6	13	0	18	5	13	0	19	4	12	1	19	4	13	0
E	815	353	11	31	812	356	14	28	893	275	13	29	867	301	13	29
EGY	179	13	113	22	179	13	113	22	183	9	126	9	184	8	122	13
ERI	20	2	6	11	20	2	6	11	22	0	11	6	22	0	11	6
EST	-	-	8	1	-	-	8	1	-	-	9	0	-	-	9	0

	Case study 1				Case study 2				Case study 3				Case study 4			
	T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T	
ADM	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
ETH	10	11	-	-	10	11	-	-	9	12	-	-	9	12	-	-
F	170	72	9	63	168	74	10	62	147	95	14	58	152	90	15	57
FIN	-	-	57	0	-	-	57	0	-	-	57	0	-	-	57	0
G	119	3	3	0	115	7	3	0	117	5	3	0	116	6	3	0
GAB	23	165	16	40	23	165	16	40	88	100	0	56	90	98	0	56
GEO	-	-	5	15	-	-	5	15	-	-	20	0	-	-	20	0
GHA	24	0	24	85	24	0	24	85	24	0	36	73	24	0	38	71
GMB	7	74	0	2	7	74	0	2	39	42	0	2	37	44	0	2
GNB	20	0	3	3	20	0	3	3	19	1	0	6	20	0	0	6
GNE	-	-	0	4	-	-	0	4	-	-	4	0	-	-	4	0
GRC	3	6	3	34	3	6	3	34	5	4	21	16	5	4	22	15
GUI	2	22	9	7	2	22	9	7	13	11	5	11	13	11	5	11
HNG	21	3	0	7	21	3	0	7	18	6	2	5	21	3	2	5
HOL	9	40	0	68	9	40	0	68	12	37	0	68	10	39	0	68
HRV	9	12	123	173	9	12	123	173	9	12	133	163	9	12	134	162
I	11	31	87	362	10	32	103	346	10	32	127	322	11	31	103	346
IRL	190	9	37	0	190	9	37	0	199	0	23	14	198	1	23	14
IRN	-	-	166	137	-	-	166	137	-	-	164	139	-	-	160	143
IRQ	-	-	2	81	-	-	2	81	-	-	24	59	-	-	22	61
ISL																

	Case study 1				Case study 2				Case study 3				Case study 4			
	T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T	
ADM	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
ISR	12	40	0	113	15	37	0	113	16	36	0	113	16	36	0	113
JOR	319	85	-	-	317	87	-	-	345	59	-	-	336	68	-	-
KAZ	-	-	285	0	-	-	285	0	-	-	285	0	-	-	285	0
KEN	212	156	21	12	212	156	21	12	340	28	26	7	340	28	26	7
KGZ	-	-	44	0	-	-	44	0	-	-	44	0	-	-	44	0
KWT	1	1	0	6	1	1	0	6	1	1	3	3	1	1	3	3
LBN	17	34	0	17	17	34	0	17	18	33	6	11	24	27	6	11
LBR	-	-	0	28	-	-	0	28	-	-	6	22	-	-	6	22
LBY	47	20	-	-	47	20	-	-	50	17	-	-	50	17	-	-
LIE	3	0	1	0	3	0	1	0	3	0	1	0	3	0	1	0
LSO	0	1	37	0	0	1	37	0	0	1	30	7	0	1	30	7
LTU	22	0	14	0	22	0	14	0	22	0	14	0	22	0	14	0
LUX	1	2	0	1	0	3	1	0	2	1	1	0	3	0	1	0
LVA	17	3	15	0	17	3	15	0	17	3	15	0	17	3	15	0
MAU	3	3	-	-	3	3	-	-	4	2	-	-	4	2	-	-
MCO	2	3	0	4	2	3	0	4	3	2	0	4	4	1	0	4
MDA	9	0	5	1	8	1	5	1	8	1	5	1	9	0	4	2
MDG	31	347	84	27	31	347	84	27	44	334	72	39	49	329	67	44
MKD	1	1	0	8	1	1	0	8	1	1	8	0	1	1	8	0
MLI	86	19	84	21	86	19	84	21	97	8	88	17	100	5	88	17

	Case study 1				Case study 2				Case study 3				Case study 4			
	T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T	
ADM	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
MLT	3	0	-	-	3	0	-	-	3	0	-	-	3	0	-	-
MOZ	-	-	11	17	-	-	11	17	-	-	19	9	-	-	18	10
MRC	598	518	7	171	599	517	8	170	603	513	6	172	595	521	10	168
MTN	60	6	306	84	60	6	306	84	66	0	365	25	66	0	364	26
MWI	-	-	10	31	-	-	10	31	-	-	9	32	-	-	8	33
NGR	35	18	10	46	35	18	10	46	47	6	6	50	47	6	8	48
NIG	6	276	6	68	6	276	6	68	115	167	0	74	111	171	1	73
NMB	2	12	10	20	2	12	10	20	14	0	23	7	14	0	23	7
NOR	45	2	36	4	45	2	36	4	45	2	36	4	45	2	34	6
OMA	261	467	14	77	261	467	14	77	708	20	29	62	708	20	29	62
POL	66	1	20	1	66	1	20	1	67	0	21	0	67	0	20	1
POR	64	9	5	4	64	9	5	4	63	10	5	4	65	8	6	3
PSE	24	226	0	9	23	227	0	9	36	214	0	9	38	212	0	9
QAT	8	16	0	5	11	13	0	5	14	10	0	5	10	14	1	4
ROU	30	5	17	12	31	4	17	12	32	3	25	4	29	6	24	5
RRW	-	-	0	22	-	-	0	22	-	-	8	14	-	-	8	14
RUS	110	0	978	47	110	0	977	48	110	0	974	51	110	0	981	44
S	99	0	36	0	99	0	36	0	99	0	36	0	99	0	36	0
SCG	5	7	0	12	5	7	0	12	6	6	5	7	6	6	5	7
SDN	-	-	85	47	-	-	85	47	-	-	110	22	-	-	113	19

	Case study 1				Case study 2				Case study 3				Case study 4			
	T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T	
ADM	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
SEN	21	46	61	31	21	46	61	31	61	6	40	52	61	6	41	51
SEY																
SMR	1	4	0	1	1	4	0	1	3	2	0	1	3	2	0	1
SOM	-	-	0	54	-	-	0	54	-	-	16	38	-	-	16	38
SRL	-	-	0	14	-	-	0	14	-	-	6	8	-	-	6	8
STP	-	-	2	0	-	-	2	0	-	-	2	0	-	-	2	0
SUI	31	7	18	1	32	6	19	0	33	5	17	2	34	4	17	2
SVK	12	2	6	2	12	2	6	2	13	1	3	5	13	1	3	5
SVN	8	0	11	1	8	0	11	1	6	2	12	0	6	2	12	0
SWZ	1	23	0	3	1	23	0	3	16	8	0	3	16	8	0	3
SYR	68	12	0	92	68	12	0	92	71	9	21	71	70	10	22	70
TCD	-	-	21	55	-	-	21	55	-	-	43	33	-	-	42	34
TGO	5	2	0	5	5	2	0	5	7	0	0	5	7	0	0	5
TJK	-	-	63	0	-	-	63	0	-	-	63	0	-	-	63	0
TKM	-	-	8	46	-	-	8	46	-	-	26	28	-	-	28	26
TUN	-	-	59	29	-	-	59	29	-	-	54	34	-	-	54	34
TUR	47	45	44	42	47	45	44	42	44	48	52	34	41	51	50	36
TZA	78	55	15	27	78	55	15	27	84	49	18	24	83	50	20	22
UAE	8	22	1	30	8	22	1	30	6	24	20	11	6	24	24	7
UGA	29	30	6	18	29	30	6	18	44	15	9	15	45	14	8	16

	Case study 1				Case study 2				Case study 3				Case study 4			
	T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T		T-DAB		DVB-T	
ADM	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
UKR	200	24	45	36	201	23	44	37	195	29	48	33	198	26	49	32
UZB	-	-	142	0	-	-	142	0	-	-	142	0	-	-	142	0
YEM	33	20	66	41	33	20	66	41	31	22	84	23	31	22	84	23
ZMB	1	8	31	52	1	8	31	52	7	2	51	32	7	2	51	32
ZWE	12	20	5	71	12	20	5	71	27	5	12	64	27	5	13	63
Total:	5353	4477	4056	3494	5365	4465	4073	3477	6692	3138	4622	2928	6673	3157	4629	2921

Key: “-“ = No requirement was submitted by the concerned administration
Yes = Number of requirements with a frequency block/channel assigned
No = Number of requirements without a frequency block/channel assigned

ANNEX 3

Results for Bands IV and V (DVB-T) concerning each administration on the different options

Key: Yes = number of digital requirements with a channel assigned No = number of digital requirements without a channel assigned								
	Case study 1		Case study 2		Case study 3		Case study 4	
ADM	Yes	No	Yes	No	Yes	No	Yes	No
AFS	1000	89	1001	88	1026	63	1025	64
AGL	128	178	130	176	202	104	214	92
ALB	2	107	2	107	74	35	78	31
ALG	703	592	704	591	731	564	726	569
AND	24	2	22	4	26	0	26	0
ARM	3	231	3	231	179	55	171	63
ARS	776	211	775	212	847	140	830	157
AUT	265	5	267	3	266	4	262	8
AZE	77	357	75	359	335	99	322	112
BDI	31	122	32	121	58	95	59	94
BEL	56	15	55	16	58	13	59	12
BEN	79	20	79	20	92	7	91	8
BFA	210	198	211	197	251	157	250	158
BHR	1	46	1	46	21	26	24	23
BIH	32	135	31	136	125	42	123	44
BLR	201	0	201	0	201	0	201	0
BOT	148	121	148	121	195	74	197	72
BUL	40	138	38	140	171	7	172	6
CAF	231	54	232	53	282	3	278	7
CME	632	4	630	6	636	0	636	0
COD	212	56	214	54	224	44	223	45
COG	103	156	101	158	182	77	182	77
COM	18	12	19	11	22	8	23	7
CPV	59	144	61	142	75	128	75	128
CTI	208	1	208	1	207	2	207	2
CVA	6	3	6	3	9	0	9	0
CYP	3	30	5	28	22	11	23	10
CZE	363	9	370	2	360	12	366	6

Key: Yes = number of digital requirements with a channel assigned No = number of digital requirements without a channel assigned								
	Case study 1		Case study 2		Case study 3		Case study 4	
ADM	Yes	No	Yes	No	Yes	No	Yes	No
D	1523	49	1533	39	1475	97	1473	99
DJI	30	6	30	6	35	1	35	1
DNK	122	3	123	2	118	7	119	6
E	893	1460	891	1462	1238	1115	1236	1117
EGY	590	106	598	98	626	70	628	68
ERI	17	0	17	0	17	0	17	0
EST	43	0	43	0	43	0	43	0
ETH	76	24	74	26	81	19	80	20
F	1131	605	1145	591	1228	508	1239	497
FIN	394	114	466	42	398	110	460	48
G	840	63	839	64	825	78	823	80
GAB	168	0	168	0	168	0	168	0
GEO	74	84	74	84	152	6	149	9
GHA	106	3	106	3	106	3	106	3
GMB	19	61	20	60	41	39	38	42
GNB	53	48	53	48	51	50	52	49
GNE	14	32	16	30	42	4	42	4
GRC	62	275	67	270	284	53	289	48
GUI	216	77	217	76	214	79	214	79
HNG	38	88	34	92	67	59	68	58
HOL	104	1073	134	1043	232	945	243	934
HRV	1231	1074	1232	1073	1382	923	1384	921
I	853	1957	853	1957	1909	901	1915	895
IRL	336	0	336	0	336	0	336	0
IRN	1220	749	1254	715	1261	708	1265	704
IRQ	187	463	182	468	239	411	249	401
ISL								
ISR	15	36	17	34	23	28	23	28
JOR	371	333	397	307	435	269	458	246
KAZ	1674	0	1674	0	1674	0	1674	0
KEN	550	46	553	43	583	13	574	22
KGZ	269	0	269	0	269	0	269	
KWT	2	47	2	47	26	23	29	20

Key: Yes = number of digital requirements with a channel assigned No = number of digital requirements without a channel assigned								
	Case study 1		Case study 2		Case study 3		Case study 4	
ADM	Yes	No	Yes	No	Yes	No	Yes	No
LBN	3	139	3	139	90	52	90	52
LBR	18	36	18	36	42	12	42	12
LBY	224	180	224	180	212	192	209	195
LIE	7	0	7	0	7	0	7	0
LSO	58	12	58	12	70	0	70	0
LTU	166	0	166	0	166	0	166	0
LUX	23	1	23	1	24	0	24	0
LVA	218	0	218	0	218	0	218	0
MAU	5	3	5	3	8	0	8	0
MCO	3	3	2	4	6	0	6	0
MDA	44	8	43	9	48	4	48	4
MDG	5	1	5	1	6	0	6	0
MKD	10	86	10	86	92	4	92	4
MLI	786	1018	786	1018	815	989	813	991
MLT	12	3	7	8	15	0	15	0
MOZ	144	141	147	138	184	101	184	101
MRC	534	261	530	265	510	285	514	281
MTN	671	25	672	24	677	19	678	18
MWI	95	5	96	4	95	5	95	5
NGR	131	33	132	32	137	27	141	23
NIG	110	41	109	42	129	22	130	21
NMB	257	14	253	18	263	8	261	10
NOR	1342	86	1364	64	1329	99	1348	80
OMA	138	758	138	758	182	714	207	689
POL	578	8	578	8	576	10	575	11
POR	234	221	236	219	222	233	230	225
PSE	55	324	54	325	61	318	60	319
QAT	3	52	2	53	23	32	23	32
ROU	206	81	212	75	250	37	253	34
RRW	32	52	34	50	42	42	42	42
RUS	5778	109	5777	110	5845	42	5841	46
S	906	2	906	2	906	2	907	1
SCG	40	321	41	320	63	298	61	300

Key: Yes = number of digital requirements with a channel assigned No = number of digital requirements without a channel assigned								
	Case study 1		Case study 2		Case study 3		Case study 4	
ADM	Yes	No	Yes	No	Yes	No	Yes	No
SDN	501	41	500	42	522	20	530	12
SEN	394	57	390	61	375	76	378	73
SEY								
SMR	2	21	2	21	23	0	23	0
SOM	82	92	80	94	92	82	92	82
SRL	6	8	6	8	14	0	14	0
STP	0	4	0	4	4	0	4	0
SUI	253	9	253	9	253	9	253	9
SVK	76	7	72	11	73	10	73	10
SVN	690	91	692	89	525	256	527	254
SWZ	2	22	2	22	21	3	21	3
SYR	140	280	140	280	238	182	247	173
TCD	273	35	273	35	295	13	293	15
TGO	34	12	34	12	43	3	43	3
TJK	377	0	377	0	377	0	377	0
TKM	126	180	128	178	164	142	166	140
TUN	260	117	260	117	297	80	292	85
TUR	367	149	377	139	354	162	364	152
TZA	298	88	298	88	313	73	312	74
UAE	26	150	27	149	136	40	143	33
UGA	209	87	207	89	216	80	219	77
UKR	516	73	512	77	540	49	545	44
UZB	675	0	675	0	675	0	675	0
YEM	710	111	717	104	795	26	801	20
ZMB	280	84	277	87	332	32	329	35
ZWE	125	105	124	106	184	46	188	42
Total:	38090	17759	38317	17532	42629	13220	42823	13026