



Radiocommunication Bureau

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Circular Letter
CR/240

15 July 2005

To Administrations of Member States of the ITU¹

Subject: Publication of the results of the first planning exercise

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 – (RRC-04), Geneva, 2004

BR Circular letter CR/229 and its Addendum 1 (dated 7 December 2004 and 24 May 2005, respectively)

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, the Planning Exercise Team (PXT) conducted the first planning exercise, using the inventory of digital requirements and administrative declarations submitted by the Member States in response to the BR Circular Letter CR/229² 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 RCC List). In summary, 98 Member States from the planning area and one observer (the Palestinian Authority) submitted requirements for the first planning exercise and 35 Member States submitted administrative declarations. 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 exclusion of some categories of assignments from the eligible assignments. In addition, valid administrative

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 African Group of countries, the PXT included all those digital requirements received by the Bureau by 29 May 2005 that have been declared complete and correct by 3 June 2005.

declarations, submitted by administrations by 17 June 2005, and coordination information forming part of the notified requirements have been included in the planning process. 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-1/19](#) and its Addendum 1. These data are also available for consultations at the URL <http://www.itu.int/ITU-R/conferences/rrc/rrc-04/intersession/index.asp>.

2 In accordance with the indications in Annex 2 to Resolution COM5/1, the results of the first planning exercise are to be published by 15 July 2005 and this Circular Letter contains these results. General information on the conduct of the first planning exercise is contained in Annex 1 to this Circular Letter and detailed statistics are indicated in Annexes 2 and 3. The attached CD-ROMs include all details regarding the results of the first planning exercise together with the relevant application to view the data (the first CD-ROM contains information on case studies 1 and 4, while the second CD-ROM contains information on case studies 2 and 3). The information is essentially the same as presented to the IPG meeting (4–8 July 2005), with the following differences:

- some missing results, detected during the IPG meeting, are now included and the synthesis process has been repeated for these cases; this course of action resulted in some changes in the relevant statistics for some administrations;
- the administrative declarations are now visible.

3 As indicated in Annex 2 to Resolution COM5/1, administrations are expected to analyse these results with a view to taking them into consideration when preparing their input data for the production of the draft plan. You may wish to note that the IPG, after reviewing these results and noting the substantive number of incompatibilities, invited the PXT to repeat some stages of the planning process (notably the synthesis process), based on additional administrative declarations. To this end, all administrations are invited to consider submitting additional administrative declarations, where appropriate, using the concept and the format described in Addendum 1 to CR/229. The attention of the administrations is drawn to the fact that IPG concluded that the administrative declarations shall be restricted only to declaring compatible two digital requirements. The deadline for submission of these additional declarations is 22 August 2005 and the results of these additional calculations, together with other calculation results as suggested by IPG, will be presented to the meeting of the Working Party of the IPG scheduled for 28-29 September 2005.

4 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

Conduct of the first planning exercise: general description and detailed statistics

1 Introduction

The PXT conducted the first planning exercise using the indications in the Report from the RRC-04. The results of this exercise are referred to as “basic version”. The PXT also conducted three additional case studies, based on the advice received from the Steering Group of the IPG, from its second meeting, about the possible planning options and variants, bearing in mind the time limitations.

1.1 The basic version (case study 1)

For this version, the PXT included all analogue television assignments in the “equivalent” reference situation and all assignments to primary services other than broadcasting in the “equivalent” reference situation, as indicated in the Report from the RRC-04, complemented with the indications from the concerned administrations.

1.2 Case study 2

In this case study all analogue television assignments in the “equivalent” reference situation were taken into account during the planning process and all assignments to primary services other than broadcasting in the “equivalent” reference situation were excluded from the planning process.

1.3 Case study 3

In this case study all analogue television assignments in the “equivalent” reference situation were excluded from the planning process and all assignments to primary services other than broadcasting in the “equivalent” reference situation were taken into account during the planning process.

1.4 Case study 4

In this case study all analogue television assignments in the “equivalent” reference situation and all assignments to primary services other than broadcasting in the “equivalent” reference situation were excluded from the planning process.

2 Summary of the results

2.1 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	765	1 362	2 127	759	1 373	2 132	1 591	2 433	4 024	1 605	2 469	4 074
No	5 140	4 813	9 953	5 146	4 802	9 948	4 314	3 742	8 056	4 300	3 706	8 006
Total	5 905	6 175	12 080	5 905	6 175	12 080	5 905	6 175	12 080	5 905	6 175	12 080

Key: Yes = number of requirements with a channel or frequency block assigned
No = number of requirements without a channel or frequency block assigned

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

2.2 Results for Band IV and V

	Case study 1	Case study 2	Case study 3	Case study 4
Yes	16 243	17 025	25 233	26 274
No	26 483	25 701	17 493	16 452
Total:	42 726	42 726	42 726	42 726

Key: Yes = number of requirements with a channel or frequency block assigned
No = number of requirements without a channel or frequency block assigned

Detailed 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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ALG	108	52	19	231	108	52	21	229	131	29	28	222	131	29	29	221
ARM	-	-	0	27	-	-	0	27	-	-	6	21	-	-	6	21
ARS	1	51	6	73	2	50	6	73	23	29	22	57	25	27	20	59
AUT	7	24	0	43	7	24	0	43	6	25	1	42	6	25	1	42
AZE	-	-	0	39	-	-	0	39	-	-	15	24	-	-	15	24
BDI	-	-	1	11	-	-	1	11	-	-	3	9	-	-	3	9
BEL	2	70	0	3	4	68	0	3	4	68	0	3	4	68	0	3
BFA	0	40	0	1	0	40	0	1	12	28	1	0	15	25	1	0
BHR	0	2	-	-	0	2	-	-	0	2	-	-	0	2	-	-
BIH	0	1	0	98	0	1	0	98	0	1	2	96	0	1	2	96
BLR	-	-	0	32	-	-	0	32	-	-	6	26	-	-	6	26
BOT	-	-	6	36	-	-	6	36	-	-	17	25	-	-	17	25
BUL	1	9	0	21	1	9	0	21	4	6	0	21	4	6	0	21
CME	20	12	4	60	20	12	4	60	27	5	20	44	27	5	19	45
COD	-	-	29	65	-	-	29	65	-	-	47	47	-	-	48	46

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
CPV	-	-	3	3	-	-	3	3	-	-	3	3	-	-	3	3
CTI	0	35	0	16	0	35	0	16	29	6	0	16	28	7	1	15
CVA	0	6	0	3	0	6	0	3	0	6	0	3	0	6	0	3
CYP	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
CZE	0	32	0	15	0	32	0	15	17	15	2	13	18	14	2	13
D	26	93	0	22	22	97	0	22	24	95	5	17	27	92	3	19
DJI	-	-	2	34	-	-	2	34	-	-	7	29	-	-	7	29
DNK	11	10	8	5	11	10	9	4	14	7	7	6	16	5	9	4
E	238	917	3	45	234	921	2	46	163	992	4	44	165	990	4	44
EGY	0	4	60	39	0	4	60	39	0	4	67	32	0	4	67	32
ERI	-	-	2	2	-	-	2	2	-	-	0	4	-	-	0	4
EST	2	8	0	5	2	8	0	5	0	10	0	5	2	8	0	5
F	46	113	21	51	37	122	21	51	52	107	23	49	50	109	24	48
FIN	-	-	9	35	-	-	9	35	-	-	25	19	-	-	25	19
G	36	631	0	1	42	625	0	1	32	635	0	1	35	632	0	1
GAB	0	171	22	34	0	171	22	34	54	117	0	56	54	117	0	56
GEO	-	-	0	11	-	-	0	11	-	-	1	10	-	-	1	10
GHA	-	-	2	9	-	-	2	9	-	-	1	10	-	-	1	10
GMB	-	-	0	2	-	-	0	2	-	-	0	2	-	-	0	2
GNB	-	-	0	5	-	-	0	5	-	-	0	5	-	-	0	5
GRC	0	1	0	35	0	1	0	35	1	0	6	29	1	0	6	29
HNG	1	27	0	33	3	25	0	33	4	24	0	33	4	24	0	33

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
HOL	0	31	1	6	2	29	1	6	1	30	1	6	1	30	1	6
HRV	15	25	0	20	16	24	0	20	17	23	7	13	17	23	7	13
I	2	19	1	141	2	19	1	141	0	21	1	141	0	21	1	141
IRL	14	89	0	36	12	91	0	36	81	22	0	36	78	25	0	36
IRN	-	-	5	304	-	-	6	303	-	-	39	270	-	-	43	266
IRQ	-	-	0	83	-	-	0	83	-	-	7	76	-	-	7	76
ISR	6	46	0	132	6	46	1	131	8	44	2	130	8	44	2	130
JOR	-	-	2	8	-	-	2	8	-	-	7	3	-	-	7	3
KAZ	-	-	0	239	-	-	0	239	-	-	184	55	-	-	180	59
KEN	16	448	-	-	17	447	-	-	147	317	-	-	147	317	-	-
KGZ	-	-	0	47	-	-	0	47	-	-	11	36	-	-	11	36
KWT	0	4	0	5	0	4	0	5	1	3	2	3	0	4	2	3
LBN	0	208	0	15	0	208	0	15	208	0	0	15	208	0	0	15
LBY	12	37	-	-	13	36	-	-	23	26	-	-	23	26	-	-
LIE	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	1
LSO	-	-	0	5	-	-	0	5	-	-	5	0	-	-	5	0
LTU	3	17	0	7	3	17	0	7	4	16	3	4	9	11	2	5
LUX	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	1
LVA	4	11	0	6	4	11	0	6	7	8	0	6	5	10	0	6
MAU	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MCO	0	5	1	3	0	5	1	3	0	5	0	4	0	5	0	4
MDA	0	11	0	6	0	11	0	6	4	7	4	2	4	7	4	2

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
MDG	-	-	5	106	-	-	5	106	-	-	25	86	-	-	25	86
MKD	0	4	0	8	0	4	0	8	0	4	1	7	0	4	1	7
MLI	43	62	29	108	43	62	33	104	75	30	25	112	72	33	24	113
MLT	0	8	-	-	0	8	-	-	2	6	-	-	1	7	-	-
MOZ	-	-	6	17	-	-	6	17	-	-	15	8	-	-	15	8
MRC	4	18	36	90	2	20	36	90	9	13	26	100	9	13	25	101
MTN	-	-	26	364	-	-	27	363	-	-	46	344	-	-	46	344
MWI	-	-	0	2	-	-	0	2	-	-	0	2	-	-	0	2
NMB	-	-	15	23	-	-	15	23	-	-	23	15	-	-	23	15
NOR	16	31	12	28	17	30	11	29	17	30	9	31	17	30	10	30
OMA	0	876	0	121	0	876	0	121	180	696	38	83	180	696	71	50
POL	0	66	0	21	0	66	0	21	13	53	4	17	16	50	3	18
POR	12	16	4	2	14	14	5	1	14	14	3	3	15	13	3	3
PSE	10	189	0	3	10	189	0	3	4	195	0	3	4	195	0	3
QAT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROU	1	36	0	30	0	37	0	30	4	33	6	24	4	33	6	24
RUS	-	-	949	474	-	-	949	474	-	-	1 393	30	-	-	1 392	31
S	32	67	10	26	28	71	11	25	36	63	8	28	31	68	11	25
SCG	0	2	0	56	0	2	0	56	1	1	4	52	1	1	4	52
SDN	-	-	18	17	-	-	18	17	-	-	31	4	-	-	31	4
SEN	0	67	0	63	0	67	0	63	5	62	2	61	5	62	2	61
SMR	-	-	1	0	-	-	1	0	-	-	1	0	-	-	1	0

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
SUI	2	11	0	11	1	12	0	11	2	11	0	11	2	11	0	11
SVK	0	17	0	7	0	17	0	7	4	13	1	6	4	13	1	6
SVN	0	5	0	3	0	5	0	3	0	5	0	3	0	5	0	3
SYR	28	38	0	71	29	37	0	71	26	40	1	70	25	41	1	70
TGO	5	20	-	-	5	20	-	-	25	0	-	-	25	0	-	-
TJK	-	-	0	45	-	-	0	45	-	-	0	45	-	-	0	45
TUN	1	59	4	43	1	59	5	42	2	58	21	26	8	52	20	27
TUR	25	104	-	261	28	101	0	261	26	103	21	240	26	103	21	240
TZA	7	1	-	-	5	3	-	-	8	0	-	-	8	0	-	-
UAE	4	21	0	21	4	21	0	21	1	24	1	20	1	24	0	21
UGA	-	-	2	14	-	-	2	14	-	-	4	12	-	-	4	12
UKR	-	-	0	84	-	-	0	84	-	-	31	53	-	-	31	53
UZB	-	-	5	129	-	-	5	129	-	-	39	95	-	-	41	93
YEM	3	50	4	101	3	50	4	101	17	36	16	89	17	36	19	86
ZMB	-	-	27	56	-	-	27	56	-	-	35	48	-	-	35	48
ZWE	1	105	2	197	1	105	2	197	22	84	11	188	22	84	11	188
Total:	765	5 140	1 362	4 813	759	5 146	1 373	4 802	1 591	4 314	2 433	3 742	1 605	4 300	2 469	3 706

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								
ADM	Case study 1		Case study 2		Case study 3		Case study 4	
	Yes	No	Yes	No	Yes	No	Yes	No
AFS	88	278	88	278	309	57	309	57
ALB	0	110	0	110	9	101	8	102
ALG	203	187	204	186	376	14	376	14
ARM	7	149	9	147	117	39	151	5
ARS	148	272	151	269	254	166	260	160
AUT	74	312	64	322	293	93	296	90
AZE	9	249	14	244	208	50	253	5
BDI	0	6	0	6	2	4	2	4
BEL	29	42	32	39	31	40	32	39
BFA	0	2	0	2	0	2	0	2
BHR	0	9	0	9	4	5	6	3
BIH	0	454	0	454	86	368	87	367
BLR	0	180	0	180	69	111	76	104
BOT	98	85	98	85	139	44	139	44
BUL	9	201	10	200	54	156	60	150
CME	207	429	207	429	450	186	450	186
COD	203	65	203	65	246	22	246	22
CPV	52	128	52	128	77	103	77	103
CTI	37	61	37	61	70	28	69	29
CVA	0	9	0	9	3	6	3	6
CYP	6	4	6	4	7	3	8	2
CZE	11	134	13	132	128	17	127	18
D	173	390	184	379	219	344	208	355
DJI	33	3	33	3	35	1	35	1
DNK	72	54	70	56	82	44	84	42
E	29	2 411	27	2 413	346	2 094	355	2085
EGY	410	188	410	188	492	106	490	108
ERI	8	0	8	0	7	1	7	1
EST	10	38	10	38	29	19	28	20
F	307	1 166	298	1 175	348	1 125	370	1 103
FIN	59	208	81	186	186	81	214	53
G	710	97	712	95	716	91	719	88
GAB	168	0	168	0	168	0	168	0

Key: Yes = number of digital requirements with a channel assigned No = number of digital requirements without a channel assigned								
ADM	Case study 1		Case study 2		Case study 3		Case study 4	
	Yes	No	Yes	No	Yes	No	Yes	No
GEO	2	68	5	65	7	63	11	59
GHA	19	9	19	9	26	2	26	2
GMB	0	28	0	28	1	27	0	28
GNB	3	160	3	160	45	118	45	118
GRC	4	32	4	32	20	16	17	19
HNG	5	311	5	311	8	308	14	302
HOL	17	101	17	101	14	104	16	102
HRV	22	157	27	152	66	113	70	109
I	18	1 118	16	1 120	25	1 111	25	1 111
IRL	178	170	178	170	172	176	171	177
IRN	655	2 736	681	2 710	1 783	1 608	1 834	1 557
IRQ	82	568	82	568	182	468	180	470
ISR	13	38	14	37	26	25	28	23
JOR	44	56	44	56	71	29	71	29
KAZ	656	585	701	540	1 154	87	1 205	36
KEN	36	363	36	363	174	225	174	225
KGZ	41	240	41	240	279	2	279	2
KWT	3	16	3	16	3	16	2	17
LBN	0	120	0	120	0	120	0	120
LBY	58	130	58	130	110	78	108	80
LIE	15	6	18	3	18	3	15	6
LSO	6	11	6	11	13	4	13	4
LTU	15	54	20	49	37	32	45	24
LUX	4	19	5	18	21	2	21	2
LVA	21	35	24	32	35	21	36	20
MAU	0	1	0	1	1	0	1	0
MCO	6	0	6	0	4	2	4	2
MDA	12	62	17	57	42	32	45	29
MDG	5	2	5	2	7	0	7	0
MKD	0	80	0	80	11	69	8	72
MLI	520	1 191	517	1 194	651	1 060	654	1 057
MLT	15	9	15	9	19	5	19	5
MOZ	99	120	101	118	158	61	160	59
MRC	288	284	288	284	429	143	429	143
MTN	332	364	336	360	397	299	395	301
MWI	27	24	27	24	51	0	51	0
NMB	253	18	253	18	259	12	259	12
NOR	189	319	190	318	186	322	188	320
OMA	0	354	10	344	60	294	60	294

Key: Yes = number of digital requirements with a channel assigned No = number of digital requirements without a channel assigned								
ADM	Case study 1		Case study 2		Case study 3		Case study 4	
	Yes	No	Yes	No	Yes	No	Yes	No
POL	29	548	64	513	267	310	319	258
POR	55	330	55	330	137	248	135	250
PSE	9	299	9	299	28	280	27	281
QAT	0	24	0	24	10	14	10	14
ROU	15	234	17	232	60	189	56	193
RUS	7 478	2 011	8 025	1 464	8 730	759	9 353	136
S	523	466	526	463	537	452	539	450
SCG	9	402	9	402	93	318	95	316
SDN	92	12	92	12	104	0	104	0
SEN	2	181	1	182	16	167	14	169
SMR	7	1	7	1	8	0	8	0
SUI	45	135	45	135	37	143	44	136
SVK	5	111	8	108	49	67	44	72
SVN	0	35	0	35	14	21	13	22
SYR	34	261	33	262	103	192	107	188
TGO	16	24	16	24	38	2	38	2
TJK	81	194	80	195	267	8	270	5
TUN	59	248	60	247	213	94	216	91
TUR	420	1 143	452	1 111	972	591	993	570
TZA	7	1	7	1	8	0	8	0
UAE	2	72	2	72	28	46	29	45
UGA	13	15	13	15	25	3	25	3
UKR	19	539	46	512	412	146	485	73
UZB	59	454	56	457	131	382	120	393
YEM	131	637	131	637	398	370	400	368
ZMB	231	133	231	133	302	62	302	62
ZWE	79	93	79	93	121	51	121	51
Total:	16 243	26 483	17 025	25 701	25 233	17 493	26 274	16 452
