



WP 6A > DTTB Questionnaire: Respond to this Survey

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1 a) What standards have you adopted for digital terrestrial broadcasting ?

DVB-T for the first multiplex currently in deployment and we are considering DVB-T2 for the second multiplex under study.

1 b) Have you started introduction of digital terrestrial television services ? *

- Yes
 No

1 c) If 'Yes', please provide further details on the number of multiplexes in use, their technical specifications, the percentage of geographic area or population they are intended to cover and the total spectrum use to inform WP 6A.

A proposed format for detailed responses is provided in Annex 1 (see file DTTB-Q-A1.docx under QUESTIONNAIRE in the WP 6A Share Folder).

Font Name	Size
No of multiplex: 1 MFN	
System & modulation: DVB-T/8k/64QAM	
FEC: 2/3	
GI: 1/8	
Reception mode: Fixed	
Capacity per multiplex: 22.12 Mb/s	
Current percentage population coverage: 50 %	
intended percentage population coverage: 95 % by end of 2014	
Content: 6 SD MPEG-2 public services TV	
Total spectrum bandwidth intended for this first mux: 240 MHz	
Comments: Another mux using DVB-T2 MPEG-4 SFN (probably 9 SD and 1 HD) is under study and should be deployed between 2014 and 2016.	
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2 a) Have you commenced analogue television switch-off ?

- Yes
 No

2 b) If you have any such plans, when do you expect to have completed the analogue switch-off process ?

The switch-off should be done in 2015 for the UHF band, and we are stu

3 a) What is the percentage of viewer uptake of terrestrial television in your country, including those whose service provider uses terrestrial broadcast re-transmission (e.g. in cable networks)?

Unknown, there are no studies on it. Cable TV is inexistent in Algeria, sc

3 b) If possible, please also provide details of the number or proportion of users who receive television primarily by terrestrial means.

Unknown, there are no studies on it.

4 a) Indicate how many analogue television transmitters use channels in the frequency sub-band 694-790 MHz (as indicated in Resolution 232 (WRC-12)).

Number of analogue transmitters that use the sub-band 694-790 MHz are 09.

4 b) How many are in the remaining part of the UHF band ?

Remaining transmitters in UHF band: 14

5 a) What frequencies/channels are currently used or intended to be used by digital terrestrial television broadcasting in your country? Please distinguish between those in use and those intended to be used.

Currently we have 11 digital transmitters on air which operate in UHF band (channel 21 - 43). The channels used are: 24, 28,33,35,36,39,41,43.

The channels intended to be used by digital transmitters (around 100 stations) are inside the band [470- 718 HHZ] or all channels

The channels intended to be used by digital transmitters (around 100 stations) are inside the band [470- 718 HHZ] or all channels from 21 to 51.

5 b) If allotments/SFNs are in use, a sketch map of frequency allocations could be included, with an accompanying table of allocations, as shown in Annex 2 (see file DTTB-Q-A2.docx under QUESTIONNAIRE in the WP 6A Share Folder). Otherwise, it might be possible to show main transmitters and channels, grouped in layers, in a table.

The first mux is based on MFN network. However, the next muxes (up to 6) will use SFN and will operate on frequencies of the GE06D plan. See table of channels and map below.

Area	Layer 1	Layer 2	Mayer 3	Layer 4	Layer 5	Layer 6
1	51	54				
2	22	52	54	55		
3	22	30	36	40	54	
4	40	50	53	56		
5	30	33	36	37	40	51
6	31					
7	21	27	31	34	37	40
8	21	46	52			
9	22	58				
10	48	49	59			
11	33	38	58			
12	32	36	46	47	50	53
13	21	24	30	39	43	52
14	27	34	48	49	59	
15	33	38	58			



N.B: The two empty areas have been inscribed as MFN/assignments in GE06.

5 c) Please indicate how many digital television assignments/allotments use channels in the frequency sub-band 694-790 MHz (as indicated in Resolution 232 (WRC-12), and

03 channels in the sub-band 694-790 MHz will be used by the end of 2014. With the deployment of the other muxes, 26 allotments will use channels in this sub-band.

5 d) How many are in the remaining part of the UHF band ?

At the end of the deployment of the first mux by 2014, 109 assignments will use channels in the remaining part of the UHF band. For the second mux under studies, 43 allotments will operate on the remaining UHF band.

6 a) Are those frequency bands also shared with other primary services?

- Yes
 No

6 b) If yes, please give details of those systems and their spectrum use.

7 a) Are those frequency bands also shared with secondary services such as PMSE, radioastronomy or wind-profile radar?

- Yes
 No

7 b) If yes, please give details of those systems and their spectrum use.

8 a) Do you foresee the adoption or expansion of television services broadcast using second-generation systems such as DVB-T2 ?

- Yes
 No

8 b) If yes, please give indicative details of the planned transition, including any simulcast period.

The second mux will be based on DVB-T2 MPEG-4 H.264/AVC SFN and should be deployed between 2014 and 2016. Depending on the demand, because of the opening of the audio-visual landscape in Algeria, a third mux or more can be deployed in the next 5 years based on DVB-T2.

9 a) Do you foresee a requirement for new and enhanced services, including HD and 3D television, on the terrestrial television platform?

- Yes
 No

9 b) If yes, please give indicative details of the number and nature of services planned, and if known, the expected timeframe for their introduction.

The second mux will include one HD channel (2014-2016). We are considering that the third channel will be only HD (2017-2018). No decisions have been done regarding to 3D, but it is not excluded.

10 a) Are there plans in your country to launch more multiplexes in the future ?

- Yes
 No

10 b) If yes, how many more and when? Please also indicate the expected timeframe for their introduction.

See previous answers.

11 What is the amount of spectrum you foresee that will be required for terrestrial television broadcasting, if plans in Questions 8, 9 and 10 are to be supported, and services identified in Questions 6 and 7 are to be taken into account? Please indicate the modes of transmission that will be used, and timeframes. If appropriate, a suggested form to express these requirements is shown in Annex 3 (see file DTTB-Q-A3 under QUESTIONNAIRE in the WP 6A Share Folder).

Font Name	Size
No of multiplex: 5	
System & modulation: DVB-T2/32k/256QAM	
FEC: 2/3	
GI: 19/128	
Reception mode: Fixed (but we are considering to have one or two mux in portable mode)	
Capacity per multiplex: 32.8 Mb/s	
intended percentage population coverage: 95 %	
Content: One mux 9 SD and 1 HD with MPEG-4. Others muxes will be probably all HD with MPEG-4 also.	
Total spectrum bandwidth needed: $39 \times 8 \text{ MHz} = 312 \text{ MHz}$, since we have assignments and allotments in whole the UHF band (470- 790 MHz) as we can see it on the table of allotments.	
Time frames: One mux will be deployed between 2014 and 2016, others from 2017-2018.	
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12. Please provide the following information:

- Name of the Administration/Sector Member:
- For Sector members please indicate the geographical area over which you operate:
- Contact person:
- Email address:
- Telephone number:

Font Name	Size
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