

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

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).

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Country	No of multiplexes	System & modulation	FEC	GI	Reception mode <sup>[1]</sup>	Capacity per multiplex (Mb/s)	Current percentage population coverage	Intended percentage population coverage	Content per multiplex	Total capacity (Mb/s)	Total spectrum bandwidth used or intended for implementation (MHz) <sup>[2]</sup>	Any additional comments (e.g. duration of licences)	
HOL	1	DVB-T, 64-QAM	1/2	1/4	Fixed	14.93	Exact coverage unknown	Licence contains no obligations	4 SD MPEG2 + radio	89,59	424 MHz (based on number of allotments = 53*8 MHz)	Public service multiplex licensed until 31 January 2017	
	1	DVB-T, 64-QAM	1/2	1/4	Port. indoor	14.93	Exact coverage unknown	Licence contains no obligations	5 SD MPEG2 + radio			Commercial service multiplex licensed until 31 January 2017	
	2	DVB-T, 64-QAM	2/3	1/4	Port. indoor	19.91	Exact coverage unknown	Licence contains no obligations	8 SD MPEG2 + radio		280 MHz (based on unique channels = 35*8 MHz)	Commercial service multiplexes licensed until 31 January 2017	
	1	DVB-T, 64-QAM	2/3	1/4	Port. indoor	19.91	Exact coverage unknown	Licence contains no obligations	5 SD MPEG2 + radio		Commercial service multiplexes licensed until 31 January 2017		

<sup>[1]</sup> E.g. fixed, portable outdoor/mobile, portable indoor.  
<sup>[2]</sup> Refer Sections 2 and 3 on page 1 of this circular.

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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 ?

all analogue television in the Netherlands was switched off in December

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)?

DTT has a market share of 10.8% (822k connections out of a total of ne

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

see 3a)

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)).

None, see 2a.

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

None.

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.

See 5b

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.



Public Services layer

Public services layer			
Allotment	Channel	Centre frequency (MHz)	Use
HOL0601	54	738	In use
HOL0602	30	546	In use
HOL0603	21	474	In use
HOL0604	52	722	In use
HOL0605	50	706	In use
HOL0606	39	618	In use
HOL0607	26	514	In use
HOL0608	32	562	In use
HOL0605	46	674	In use
HOL0610	60	786	In use
HOL0611	22	482	In use
HOL0612	42	642	In use
HOL0613	54	738	In use

The allotments are converted to several assignments



Commercial services layer 1

Commercial services layer 1			
Allotment	Channel	Centre frequency (MHz)	Use
HOL0101	29	538	In use
HOL0102A	24	498	In use
1DH DEN R*	29	538	In use
HOL0103A	34	578	In use
HOL0105A	30	546	In use
HOL1106	36	594	In use
HOL0108C	33	570	In use
HOL0109A	34	578	In use

\* assignment

The allotments are converted to several assignments

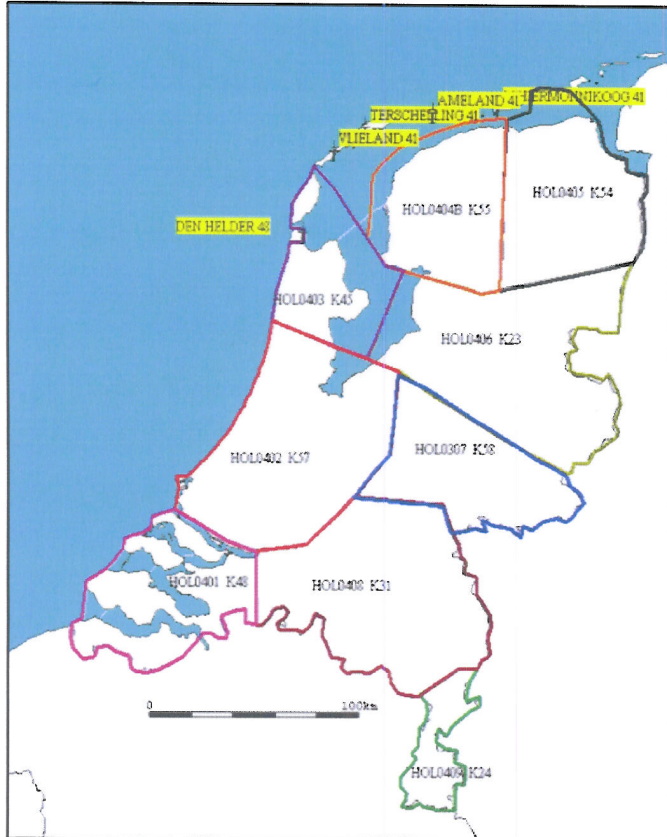


Commercial services layer 2

Commercial services layer 2			
Allotment	Channel	Centre frequency (MHz)	Use
HOL0201	35	586	In use
HOL0202	27	522	In use
2DH DEN R*	31	554	In use
HOL0203B	44	658	In use
HOL0205A	25	506	In use
HOL0206C	28	530	In use
HOL0108D	60	786	In use
HOL0209	27	522	In use

\* assignment

The allotments are converted to several assignments



Commercial services layer 3

Commercial services layer 3			
Allotment	Channel	Centre frequency (MHz)	Use
HOL0406	23	490	In use
HOL0409	24	498	In use
HOL0408	31	554	In use
K41AMELD*	41	634	Intended
K41SCHIG*	41	634	Intended
K41TERSG*	41	634	Intended
K41VLIED*	41	634	Intended
HOL0403	45	666	In use
4DH DEN R*	48	690	Intended
HOL0401	48	690	In use
HOL0405	54	738	In use
HOL0404B	55	746	In use
HOL0402	57	762	In use
HOL0307	58	770	In use

\* assignment

The allotments are converted to several assignments



Commercial services layer 4			
Allotment	Channel	Centre frequency (MHz)	Use
HOL0504	21	474	In use
HOL0305	33	570	In use
HOL0303	35	586	In use
HOL0506	47	682	In use
3DH DEN R*	37	602	In use
HOL0508A	56	754	In use
HOL0302	49	698	In use
HOL1308B	51	714	In use
HOL0407	53	730	In use
HOL0301A	32	562	In use

\* assignment  
The allotments are converted to several assignments

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 14 allotments and 0 assignments (per 1 December 2012)

5 d) How many are in the remaining part of the UHF band ?  
0 allotments/assignments in 790-862 MHz (per 31 December 2012), 31 allotments and 8 assignments in 470-694 MHz (per 31 December 2012)

Note: the allotments mentioned in questions 5c and 5d are actually converted to several assignments.

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.

In the 608MHz – 614 MHz band the primary service is RAST (Radioastronomy). The primary allocation of RAST is only a national allocation.

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.

Wireless microphones (low power licence exempt), wireless audiolinks (licenced, 10W)

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.

yes, but not at the moment. This is depending on the license holder (s) requirements.

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.

Possibly, the overall Dutch market shows a rapid uptake of HD and 3D television sets to which digital terrestrial television operator might want to respond.  
 The introduction is depending on the license holder(s) requirements and at this stage is uncertain.

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.

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).

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12. Please provide the following information:

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

Font Name	Size
The Netherlands	
Contact persons:	
Peter Anker P.D.C.Anker@mineleni.nl	
Mark Kroon mark.kroon@agentschaptelcom.nl	
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