



ABC

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Dear M. Chapot,

In response to your questionnaire of 1 December:

1. We have no experience with T-DMB transmission, but to the best of my knowledge, there is no difference in spectrum, transmitter or antenna requirements between a T-DMB multiplex and a DAB+ multiplex. They use identical modulators and transmitters and if all other factors are equal, the coverages should be very similar. I don't know whether the usable carrier/noise ratio is the same. If it is not, this may make some difference to reception at the fringes. But the spectrum planning requirements should be very similar.

2. I have to leave this question to the specialists.

3. In larger capital cities here we operate 1 national DAB+ multiplex and 2 commercial DAB+ multiplexes. In the smaller capitals we operate 1 national DAB+ multiplex and 1 commercial DAB+ multiplex. Attached is a listing of our current national broadcast services on DAB+ to give an idea of bandwidth requirements in DAB+. Commercial broadcasters in Australia have been allocated 128 kbps (1/9 of a multiplex) per licence. Most commercial broadcasters are running two services within their allocation. We have seen the recent report from the EBU on subjective audio quality assessment from the DAB+ codec and it does not agree with our experience on bandwidth needs. Our government has prohibited the transmission of moving images on DAB+ to avoid competition with TV broadcasters, so our PAD allocations are based on text + static images only.

4. The only T-DMB receivers we have tried so far are iRiver B20, iRiver B30 and Cowon D2+ DAB. These all decode DAB+ successfully. It is likely that legacy T-DMB receivers made before 2009 will not decode DAB+. I would expect most new T-DMB receivers to decode DAB+ but this decision must be made by the manufacturers - DAB+ is not a part of the T-DMB standard.

Thank you for keeping us posted with your newsletter. I wish you luck with your deliberations and hope this information may be of assistance.

Best regards

Ian Dash

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ABC/SBS DAB+ Multiplex Configuration
 Revised 1/12/2009

Source Name	Sound mode	Sub-channel data Rate (kbps)	effective audio bit rate (kbps)	XPAD rate (kbps)	XPAD alloc (bytes)	Description	
ABC							
National Sources							
ABC NewsRadio	Mono	48	35.2	8	40	News & parliament	
ABC Dig Music	Stereo	80	48	24	120	Adult contemporary music	
ABC Jazz	Stereo	80	48	24	120	Jazz	
ABC Country	Stereo	80	48	24	120	Country music	
ABC EXTRA	Stereo	72	56.8	8	40	Special events	
triple j	Stereo	80	48	24	120	Youth music	
Local Sources							
702 ABC Sydney	Stereo	64	41.6	16	80	Talk and local interest	
ABC Grandstand	Mono	48	35.2	8	40	Sport	
ABC RadioNational	Stereo	64	41.6	16	80	Arts, drama, politics, religion, science, professions, talks, music	
ABC Classic FM	Stereo	80	56	16	80	Fine music	
EPG	Data	8					
Total ABC		704					
SBS							
SBS Radio 1	Stereo	48	27.2	16	80	News, entertainment & culture in 57 languages.	
SBS Radio 2	Stereo	48	27.2	16	80		
SBS Radio 3	Stereo	48	27.2	16	80		
SBS Radio 4	Stereo	48	27.2	16	80		
SBS Radio 1 + 2 hrs	Mono	32	20.8	8	40		
SBS Radio 2 + 2 hrs	Mono	32	20.8	8	40		
SBS Radio 3 + 2 hrs	Mono	32	20.8	8	40		
SBS Radio 4 + 2 hrs	Mono	32	20.8	8	40		
SBS Radio 6	Stereo	48	27.2	16	80		
Total SBS		368					