



Technical Bulletin

Forthcoming Changes to Network Ten's Digital Transmissions

February 2009

In preparation for the launch of Network Ten's new digital services, changes will be implemented in Ten's digital transmissions. These changes will occur on-air from Wednesday 11th February, 2009 or the following week on 18th February 2009.

As most digital receivers in Australia will not automatically read and make changes in their television's service list, the changes are necessary to allow viewers time to perform a re-scan (re-tune) of their receiver in preparation of the announced launch date for the new services on 26th March 2009.

In summary, the changes are :

- Logical Channel Number (LCN) 1 will change its service name from "TEN HD" to "ONE HD". There will be no other technical changes to this channel.
- LCN 10 will not change, but the second audio component which provided audio in Dolby Digital (AC-3) 2/0 will no longer exist.
- LCN 11 will be added to the service list and mirror the service on Channel 1. For an interim period, the program information on this channel will carry a fixed advisory message for viewers.
- LCN 12 will change its service name from "TEN HD" to "ONE Digital". This channel will change from a high definition channel to standard definition. For an interim period, the program information on this channel will carry a fixed advisory message for viewers.

The key technical parameters of the services are shown in Table 1 below.

Table 1 Service Information In Ten Digital Streams

		TEN Sydney		ATV Melbourne		TVQ Brisbane		ADS Adelaide		NEW Perth	
		(Hex)	(Dec)								
Original Network ID		1014	4116	1014	4116	1014	4116	1014	4116	1014	4116
Network ID		3215	12821	321F	12831	3229	12841	3233	12851	323D	12861
Transport Stream ID		0602	1538	0603	1539	0604	1540	0605	1541	0607	1543
		TEN Sydney		ATV Melbourne		TVQ Brisbane		ADS Adelaide		NEW Perth	
Service Name	Logical Channel Number	Service ID (Hex)	Service ID (Dec)								
ONE HD	1	0621	1569	0631	1585	0641	1601	0651	1617	0681	1665
TEN Digital	10	0625	1573	0635	1589	0645	1605	0655	1621	0685	1669
ONE HD	11	0627	1575	0637	1591	0647	1607	0657	1623	0687	1671
ONE Digital	12	0628	1576	0638	1592	0648	1608	0658	1624	0688	1672

At a packet level, the following changes will occur in the digital streams :

- The Dolby Digital (AC-3) audio Packet Identifier (PID) 651 will be removed from LCN 10.
- A new Program Map Table (PMT) will be added for LCN 11.
- The contents of the PMT for LCN 12 will change to accommodate the change from a high definition channel to new standard definition, audio and closed caption components.

There are no changes to the transmission parameters for the digital services. The main transmitter in each of Network Ten's markets may be found on :

VHF Channel	11
Centre Frequency	219.5MHz
Bandwidth	7MHz
Modulation	64-QAM
FEC Code Rate	3 / 4
Guard Interval	1/16
Mode	8K

Please note that these changes only affect the digital transmissions. There will be no change to Network Ten's analogue transmissions.