Change Summary for TSG-642

This document provides a description of changes contained in the Proposed Revision of A/53C with Amendment No. 1 and Corrigendum No. 1. This summary does not necessarily describe all of the details and ramifications incorporated in the draft revision. Readers are encouraged to carefully review the details of the proposed changes to make their own assessment.

Section	Page	Change	Reason
Throughout		Update references	References have become out of date
3.3 Terms employed	15	Added: "**PMT** – Program Map Table. The collection of all the TS_program_map_section()s."	Correcting definition of PMT. It is more appropriate for the standards to utilize the correct definition of PMT, rather than the colloquial usage.
Old Section 4		History lesson moved to Annex F	Separate standards information from historical/informative information.
Annex A, 2. References	24	Corrections to references	Editorial corrections and updates.
Annex A, general	25	Minor editorial fixes	Fixing typos and incorrect references.
Annex A, 5.1.5 Picture Header Constraints	27	Remove footnote stating: "Note: This publication corrects a typographical error that incorrectly indicated 'vbv_delay = 45000'."	No longer necessary.
Annex B	35	Reference updates	
Annex B, Section 3 Compliance notation	35	Modified first sentence to "As used in this document, "shall" denotes a mandatory provision of the standard." By removing "…or will…"	All normative instances of "will's" have been replaced with "shall's" in standard. Will does not have normative meaning and shall is the correct word.
Annex C, Section 5.4 Constraints on PSI	46	New bullet item added: "This Standard does not define a Network Information Table (NIT) as specified in MPEG-2 Systems. The use of program_number 0x0000 should be avoided as MPEG-2 Systems reserves this value for the network_PID, which in turn is used to identify the TS packets of a NIT."	Confusion has been observed in the field regarding whether the MGT is a NIT (Network Information Table). Some people have been pointing to the MGT in program #0 of the PAT. In reality, ATSC has no concept of a NIT – this modification explicitly states that.
Annex C, 5.7.3 Descriptors	48	Add new text "Unless explicitly stated to the contrary for a given descriptor, no more than one descriptor with a given value of descriptor_tag shall appear in any descriptor loop."	There is confusion about interpretation rules regarding more than one descriptor with a given tag in a particular loop. Examination of the existing set of descriptors (ATSC and MPEG) came up with only one example where more than one descriptor would be necessary (the APID). This statement sets an explicit rule for this situation (but leaves the possibility that a newly defined descriptor could be used in this fashion, if appropriate).
Annex C 5.7.3.1 – AC-3 Audio Descriptor	49	Insert text: "The descriptor may optionally carry a 3-byte language code that is represented per ISO-639. If this language code is present in the AC-3 Descriptor, it shall match the language code carried in the ISO-639 Language Descriptor, if present. Effective <two years from date of publication by ATSC, rounded to nearest month>, audio language shall be indicated by including the optional ISO-639 Language bytes within the AC-3_audio_stream_descriptor(), at which point the use of the ISO-639 Language Descriptor to	Necessary framework for re-enabling the ability to announce audio language for an upcoming event in the EIT that was inadvertently removed with an update to A/52-A. Also establishing the AC-3 descriptor as the place to carry audio language.

Section	Page	Change	Reason
		indicate language shall be optional."	
Annex C 5.7.3.2 Program Smoothing Buffer Descriptor	49	Change "Program Map Table" to "TS_program_map_section()"	Correcting terminology – actually refers to the individual section, rather than the sum total of all the TS_program_map_sections
Annex C 5.7.3.3 ISO-639 Language Descriptor	49	Insert text: "Effective <two years from date of publication by ATSC, rounded to nearest month>, audio language shall be indicated by including the optional ISO-639 Language bytes within the AC-3_audio_stream_descriptor(), at which point the use of the ISO-639 Language Descriptor to indicate language shall be optional. When used, the ISO_639_language_descriptor() shall be included…"	See above.
Annex C 5.7.4 PID value assignments	50	Modified text to: "In order to avoid collisions with fixed PID values and ranges already established in this and other international standards, transport_packet() PID field values are restricted as follows: • TS packets identified with PID values in the range 0x1FF0 – 0x1FFE shall only be used to transport data compliant with ATSC-recognized standards specifying fixed-value PID assignments in that range. (Informative note: One such use is A/65 which requires the use of 0x1FFB to identify packets containing certain tables defined in that Standard.) • TS packets identified with PID values below 0x0030 shall only be used to transport data compliant with ATSC-recognized standards specifying fixed-value PID assignments in that range. (Informative note: One such use is ETS 300 468 which requires the use of 0x0011 to identify packets containing certain tables defined in that Standard.)"	The text in this section was restructured and rearranged for clarity and the starting date was removed (it is now in the past).
Annex C 6.2 Still Pictures	51	Change "This Standard does not include those portions of ISO/IEC 13818-1 Transport Stream specification which pertain to the Still Picture model." To "This Annex does not include those portions of ISO/IEC 13818-1 Transport Stream specification which pertain to the Still Picture model."	Restricts focus of statement to Transport only (which is what Annex C addresses).
Annex E	89	Text of Annex E replaced with: "Annex E has been withdrawn. Readers are referred to A/74 and T3-600."	Annex E was out of date. S8 suggested to T3 withdrawing the text of the annex on 23 September 2004. T3 agreed that the best path was to remove the text.