

DPP Technical Specification for Delivery of Programmes Change Control v4.3 to v5.0

This change document gives the detail of the revisions and updates between the DPP Technical Specifications v4.3 document and the new v5.0 document. The change control Annex in the Broadcaster's documents have been reset and will be used for updated and revisions to v5.0 only.

VERSION	DATE	PART AND SECTION	REQUIRED / INFORMATION	UPDATE		
UK DPP v5.0	10/3/2017	All	Information	To reduce the size of the document, there are separate file and live versions. Each version is split into three parts with an opening cover page		
		Front Page	Information	The cover page now has a new Broadcaster Notes area which can be used by the broadcaster to highlight specific or new requirements		
		Part 1	Information	Part 1 is common to ALL broadcasters and to both the File and Live versions and covers the general requirements for Video, Audio and QC		
		Part 2	Information	Part 2 is common to ALL broadcasters and gives specific details for File or Live delivery		
		Part 3	Information	Part 3 is the broadcasters section specific to either File or Live		
		Video				
		Video General	Required	Added - details of the UHD delivery options are now integrated and based on ITU-R BT.2100 and SMPTE ST2036-1 options File format for UHD programmes delivered for transmission will be AS-11 UK DPP X1 HD Video Format – Wording clarified SD Video Format – Wording clarified		
		Signal Levels	Required	Signal levels and Video gamut tolerance – Technical requirements have been clarified and the revised EBU R103-2 document is now used		
		HDR	Required	A new section and an HDR guidelines supplement gives an overview for programmes delivering HDR content		
		Video Line Up	Information	New UHD Line Up files available for download		

		Cameras	Required	Wording about acceptable cameras for HD clarified – EBU R118 tested cameras amended to include HD and UHD. R118 is also used to define non-UHD or non-HD parameters	
UK DPP v5.0	10/3/2017	DSLR Cameras	Required	Update makes it clear DSLR cameras can be used IF there is an EBU R118 report that meets or exceeds HD Tier 2L or UHD Tier 2 requirements	
		Drones	Information	New sub-section giving basic requirements for the use of Drones and other remotely operated cameras	
		Post Production Codecs	Required	Clarified details for the use of native camera codecs and in-built NLE codecs clarified	
		Conversion	Required	Additional detail for conversion between interlace and progressive frame rates, up and down conversion within and across frame rates and UHD conversion	
		Lower Resolution Material	Required	Non-UHD added to the Non-HD guidance	
		Text Size	Required	Minimum size for UHD added to the HD guidance	
		Burnt in Text	Required	New guidance based on the Equalities Act as it applies to television	
		Burnt in Text Safe Areas	Required	New 5% Caption safe in line with the ITU and EBU revised guidelines. The DPP broadcasters have NO action safe area requirements. However, some but not all international co-producers may require action safe	
		Audio			
		Audio General	Required	Guidance on intelligibility of dialogue	
		Loudness	Required	R128 delivery only – PPM acceptable for new commissions DPP falls in line with the R128 revision $\pm 0.5\text{LU}$ for non-live and $\pm 1\text{LU}$ for live programmes	
		Surround	Required	Surround Sound mandatory for UHD programmes	
		Audio Line Up	Required	New 16 channel version of BLITS for UHD programmes Either version can be used on HD.	
		Quality Control			

		QC	Required	New QC section brings all the picture and sound quality requirements together with the QC guidelines	
		Part 2 File			
		AV Sync Markers	Information	AV Sync Markers are included in the UHD Line up	
UK DPP v5.0	10/3/2017	AV Sync/Channel Coherence	Required	Delivered AV sync tolerance is ± 5 ms. Channel coherence within a service ± 0.2 samples @48kHz	
		Parting	Required	Clarification of parting information – now points to the Broadcaster Section IF there are additional requirements for a specific broadcaster	
		UHD AS-11 X1	Information	Details AS-11 X1 for UHD delivery including interim video codec requirements	
		HDR	Information	Interim details of the standards for use of HDR as described in ITU-R BT.2100 and the Report ITU-R BT.2390	
		Metadata	Information	Now moved to a Metadata supplement	
		Part 2 Live (virtually no change)			
		UHD Codecs	Information	UHD Live including use of H.265 (HEVC) contribution links - refers back to the broadcasters for specific guidance until more is understood	
		Supplements			
		Surround Sound	Information	Contains details of adding Surround Sound metadata to files and full Dolby surround sound metadata options Note: no change to Live programmes with surround sound	
		Metadata	Information	Contains metadata examples for AS-11 UK DPP HD& SD and AS-11 DPP X1	
		3D	Information	Overview of 3D requirements IF commissioned	
		Super 16 Film	Information	Unchanged but references and formatting updated	
		HDR	Information	New document	