



LONGFORM DELIVERY SPECIFICATIONS: LOCAL CONTENT (APRIL 2015 UPDATE)

The information on this document is considered “work in progress” and is current and accurate at the time of release.

VIDEO FORMAT

Our primary delivery standard is HD 1920 x 1080i pixels in a full height 16:9 aspect ratio at 25 frames per second, also known as 1080i/25. (50 fields). This means that the HD picture must vertically and horizontally fill the 16:9 screen. Colour sub-sampled at a ratio of 4:2:2

We only accept interlaced video. A delivery with a progressive scan will be rejected.

- **IDEAL, you shoot interlaced, you edit interlaced, as we broadcast interlaced.**

PROGRAMME CODEC REQUIREMENTS

Note: Codec options 1 & 2 cannot be used for your promo delivery. Refer to the separate shortform delivery documents.

*Depending on your region, delivering a programme with codec **Options 4** requires special clearance to be in place prior to your delivery.

OPTION	CODEC	BIT RATE (Mb/s)	WRAPPER	FRAME RATE	VIDEO RESOLUTION	FILE TYPE EXTENSION
1	XDCAM 50 HD 4:2:2	50	QT	25	1920 X 1080i/50	.mov or .mxf
2	PRO RES 4:2:2 (HQ)	220	QT	25	1920 X 1080i/50	.mov
3	DNX HD 120	120	QT OP1a	25	1920 X 1080i/50	.mxf
*4	IMX 30 D10	30	QT OP1a	25	720 x 576	.mxf

AUDIO:

Audio must be EBU R128 compliant after final Mix.

(Integrated loudness of -23LUFS over the duration, with an allowable maximum True Peak of -3dBTP)

BASIC HD AUDIO PACKAGING - We require 4 pairs of 24 bit @ 48 KHz Stereo audio

- Tracks 1 and 2: Stereo mix (EBU R128 loudness mix)
- Tracks 3 and 4: Stereo mix (a duplication of 1 & 2 but remapped as CH3 andCH4)
- Tracks 5 and 6: Stereo mix (a duplication of 1 & 2 but remapped as CH5 andCH6)
- Tracks 7 and 8: Stereo mix (a duplication of 1 & 2 but remapped as CH7 andCH8)

BASIC SD AUDIO PACKAGING - We require 4 pairs of 16 bit @ 48 KHz Stereo audio

- Tracks 1 and 2: Stereo mix (EBU R128 loudness mix)
- Tracks 3 and 4: Stereo mix (a duplication of 1 & 2 but remapped as CH3 andCH4)
- Tracks 5 and 6: Stereo mix (a duplication of 1 & 2 but remapped as CH5 andCH6)
- Tracks 7 and 8: Stereo mix (a duplication of 1 & 2 but remapped as CH7 andCH8)

ADVANCE HD AUDIO OPTION 1 -Dolby E 5.1 stream on (CH5 & CH6) with an embedded plus 2 (optional)

ADVANCE HD AUDIO OPTION 2 - Dolby 5.1 with “discrete” audio files

CH1. Stereo Left	CH2. Stereo Right	CH9. Spare	CH10. Spare
CH3. Left	CH4. Right	CH11. Music Left	CH12. Music Right
CH5. Centre	CH6. LFE	CH13. Effects Left	CH14. Effects Right
CH7. Left Surround	CH8. Right Surround	CH15. Dial/VO Left	CH16. Dial/VO Right

REQUIREMENTS:

- Hard drives must be formatted to NTFS for windows. MAC users must purchase licensed software to do this.
- Hard drives must be virus free. Hard drives that contain a virus will be immediately rejected. Remove drive setup files.
- The HDD must contain folders for the Promo, Programme and an information with a FCC sheet and other documents
- We are responsible to transcode your HD files to SD16:9 FHA and insert a Wide Screen Signal (WSS) so that older 4:3 SD television sets received the correct aspect ratio. Make sure you graphics are 4:3 Title safe.
- We don’t accept programs in a native 4:3 aspect ratio unless cleared by the channel director.

FILE PACKAGING

- No clock, tone or colour bars are required.
- Start of message must be exactly 00:00:00:00 time code.
- No ending on timecode frames, round off to the nearest second
- Every segment must be “Topped and Tailed” with maximum of two second black in-between. One sec fade down and one sec fade up. Refrain from inserting any white text on the black soft fades between segments.
- No sponsorship elements must be packaged to show unless cleared by the channel CE and Media Processing.

DELIVERY – ACTION POINTS:

- On delivery your content will be subjected to a CRA pre-inspection, followed by a more stringent frame by frame quality control process to ensure we receive the highest picture quality and sound.
- No fixes are allowed to be performed at QC. A non-TX fault report will be escalated for a full redelivery from supplier.
- Should your **A0** delivery fail, the redelivery becomes **B0**. The second last digit of the UID changes to identify the fixed version. A new FCC sheet must accompany the delivery and the fix details identified next to the segment timecode.

Hard Drive Delivery:

- In an effort to streamline all HDD deliveries to one area at the Randburg Campus, we have enforced that the delivery only be to the new Central Media Receiving Area (CRA) and no longer directly to the channel or processing operator.
- CRA is located close to the Broadcast Services entrance on 239 Oak Avenue Randburg. (old Video Library)
- Hard drives may no longer be left at any Reception Areas with the receptionist.
- CRA staff and the various channel reps may no longer collect or leave drives at the Magic Center Reception.
- Suppliers without an access card can only deliver to the Broadcast Services Reception and get the receptionist to call a CRA rep to collect. [Lwanga Cengimbo](#); [Shafique Toffie](#); [Bongani Ntombela](#); [Dineo Mahome](#);
- Depending on the total file size to be transferred, suppliers can either wait or return to collect the drives the same day.
- CRA won't be held responsible for drives left at the Randburg campus for longer than 48 Hours.
- Mail MNET-CRA@ds.naspers.com and MNET-TrafficROA@mnet.co.za to be aware of your delivery or collection.

COMMON PRE QC FAILS AT CRA - Suppliers failing Basic Television Rules

- The absence of the separate folders on the drive. **Programme + Promo** and the FCC sheet in an **Information folder**
- The absence of "UID" underscore the programme name exactly "from synergy" on the paperwork and file name.
- **PROGRAMME TITLE** – Save the file name as **UID(A0)** underscore **Title** underscore **Season** underscore **Episode**
- (No special characters are allowed, Uppercase only. An underscore character must replace any spaces)
- Please check with your CE on the correct show titles. Your programme title on delivery must be identical to what was loaded to our asset management system at deal execution stage before your first payment. We have to title associate your delivery to a valid licence before processing can commence.

COMMON QC TECHNICAL FAILS

- Interlacing "progressive" video was not properly converted ("interlacing" issues, motion judder, double edges etc.)
- Delivered material was not viewed on a proper Broadcast Calibrated Monitor together with a Waveform and Vector Scopes ensuring we receive a full signal.
- The picture grading process was totally overlooked. (Grading happening in a rush at edit)
- Did not pay attention to white balance especially on multi-cam shoots.
- Did not pay attention to skin tones or correct lighting methods.
- Lip Sync, slightly or totally out. Sometimes it drifts in sections.
- Long shots or close ups either have a soft focus. Inconsistent focus between cameras
- Timecodes on the FCC sheets does not match the file on the drive. In and out codes supplied from a media player outside edit and not from the video locked on timeline.
- Omitting the final Technical and Editorial checks prior to delivery. (Previously done on playout to tape).
- Programme does not start at absolute zero. We still receive a black frame or two at the start of picture.
- Extremely high camera sharpness settings on HD that contribute to NON TX fail when down-converting to SD (On-Air Aliasing issues).
- SD 4:3 archive materials incorrectly stretched for a 16:9 playout (Resizing vs Smart Framing)
- Up-conversion quality issues such as washed out pictures and excessive pixilation.
- Failing to add burnt-in on screen English sub-titles when vernacular dialogue is spoken.
- Only a readable non-flicker font such as "Helvetica" in white may be used on a transparent or bold strap
- Multi-coloured neon green or pink on screen text colours is not allowed.
- Incorrect audio levels, "Infinite loudness", audio not meeting the R128 EBU loudness standard with an average peak not exceeding -23LUFS.
Programme does not have 8 channels of audio (4 pairs of stereo)
- We broadcast Pair1 for Original track, Pair2 for Family track, Pair 3 for Surround Sound, and Pair4 for Sight Impaired on HD decoders. (certain territories)
- We don't allow Mono or Dual Mono audio delivered as Stereo.
- We don't allow a M&E mix to be delivered for TX (A1 with music and effects and A2 with voice)
- Misinterpretation of the channel error overrides. In most cases due to time constraints for TX the channel can override errors. However it's a business rule that those errors get rectified immediately after TX by the supplier. If not, this sub-standard asset will later pose problems and cost the channel to fix

TECHNICAL HELP

For any Technical queries, please send a mail to the following help forum. MCA-Techstandards@multichoice.co.za