

## TECHNICAL SPECIFICATIONS - TELEVISION

File Specifications				
<b>Video</b>	1920x1080, 4:2:2 with 8/10 quantizing (per SMPTE ST 274 :2008)			
	Constant 29.97 frames/sec interlaced, upper field first			
	Safe title zone : 90% height and width of the full HD picture			
	Colour space in compliance with Rec. ITU-R BT.709			
<b>Audio</b>	PCM, 48kHz, 24-bit, -2dBTP Max.			
	An audio mix ranging from 2 tracks (stereo) up to 6 tracks (5.1) <u>and</u> a stereo mix for DV			
	Track allocation : 1 :L 2 :R 3 :C 4:LFE 5 :Ls 6 :Rs 7 :DV-L 8 :DV-R			
	Integrated commercial loudness: -24LKFS +/-1LU (measured using UIT-R BS.1770-3 algorithm)			
<b>Described Video (DV)</b>	If no DV is available, a stereo mix of the commercial is required on tracks 7 and 8			
<b>Lip Sync</b>	<i>1 field maximum tolerable sound and picture misalignment</i>			
<b>Time Code</b>	Présent, en mode <i>drop frame</i> , continu (du début à la fin)			
<b>Closed Captioning (CC)</b>	The length of the CC file must be the same as the length of the video file. The same must be true for the time code.  The CC file needs to be structured for 29.97fps, Type: <i>drop frame</i> .			
File Wrapper	Video Coding	Audio Coding	Time Code	Closed Caption
MXF (.mxf)	XD CAM HD422 @ 50Mbps	PCM	Per SMPTE ST 377-1 :2011	CEA-608 type encapsulated into CEA-708 type data, carried in ANC per SMPTE ST 436:2006, 8-bit coding.
Quick Time (.mov)	XD CAM HD422 @ 50Mbps	PCM	Present in the file, not on the screen	Shall be carried in the .mov file

- **Closed-caption - CC: (required by the CRTC)**

**All commercials must be closed-captioned (.scc files or embedded into video file).** Commercials without voice over and containing only music still require closed captioning: meaning a musical note ♪ or the word "music" must appear in the closed captioning throughout the **entirety of the commercial**. The timecode and the name of the .scc file **must be the same** as the video.

### File structure:

TIME CODE	DURATION	AUDIO	VIDEO
09 :59 :57 :00	2 sec	Silence	Slate
09 :59 :59 :00	1 sec	Silence	Black
10 :00 :00 :00	---	Commercial	Commercial
---	1 sec	Silence	Black

### File naming convention:

- **The filename must not contain any special characters, accents or spaces.**

ORDER	ELEMENT	DESCRIPTION
1 <sup>st</sup>	Advertiser	Name of the advertiser who appears in the commercial
2 <sup>nd</sup>	AdID	Unique advertising ID /Commercial ID (AdID / ISCI)
3 <sup>rd</sup>	Title	Commercial Title
4 <sup>th</sup>	Duration	Commercial duration given in seconds (ex: 15s, 30s, 60s, etc...)
Example : DunderMifflin_DUMIF4556T30E_ScottsTots_30.mxf		

- For details on: [Instructions thinktv clearance / Telecaster](#)
- Questions? Write to [modalite@radio-canada.ca](mailto:modalite@radio-canada.ca)