

1.1 SD Commercial File Delivery standard (FAST)

Note: RTÉ's preference is for commercials to be delivered in HD

	RTÉ Preferred SD Commercial File standard
File Type	Mxf
File Format	OP1-a
File Format Profile	Closed/Complete
Video Compression	MPEG-2 422P@ML, Intra frame coding
Colourspace	4:2:2
Commercial Name	IMX50
Resolution	720x608
Video bit rate	50Mbps 8bit
Interlaced	Yes
Field Dominance	Upper Field First – Field 1
Timecode standard	MXF Timecode Track
File Start timecode	00:00:00:00
Commercial Start timecode	00:00:00:00
Preferred Aspect Ratio	16:9 1.78 full height anamorphic
Frame Rate	50i i.e. 25 frames per second interlaced or 50 interlaced fields per second
Safe Areas	Follow guidelines provided by EBU – Recommendation R 95 “Safe Areas for 16:9 Television Production”

Subtitling	
Subtitling (Y/N)	The following are accepted: File Embedded (VBI) WST Subtitles shall be carried on Line 335 only
Subtitle File naming	NA

Audio	RTÉ Preferred SD Commercial File standard (TX copy)
General	Audio should be in stereo, if mono is supplied, it must be recorded on Track 1 and Track 2 (phase compatible). Follow guidelines provided by EBU – Recommendation R 123 “EBU Audio Track Allocation for File Exchange”
Audio Stream	1 Stream up to a max of 8 tracks
Audio Tracks	Track 1 and 2: Audio Track 3 and 4 (optional): Music and Effects or Dolby E ¹ Track 5 and 6 (optional): Audio Description ²
Audio Spec	Codec: PCM uncompressed Wrapped: BWF (Broadcast wav) or D-10 8 Channels 16 Bit resolution Sample frequency: 48kHz
Audio Levels	Follow guidelines provided by the EBU Recommendation R128, “Loudness normalisation and permitted maximum level of audio signals” and EBU Recommendation R128s1-2016, “Loudness parameters for Short-form Content”

¹ RTÉ Reserved

² RTÉ Reserved

Optional:	These are additional options
Scene Change Detection	Not required
DRM Enabled	Not required
DRM Type	Not required

Other requirements	RTÉ Preferred SD File standard (TX copy)
Commercial Identification	<p>The file should be named according to the convention: Clock number.mxf where slashes (/ or \) are replaced by dashes (-)</p> <p>Example:</p> <p>Clock number: WON/EFBC124/010</p> <p>File name: WON-EFBC124-010.mxf</p> <p>Ideally an identification trailer (duration: 5 seconds) should succeed the commercial recording. The following should be included on the trailer</p> <ul style="list-style-type: none"> - The Commercial Supplier company name and telephone number - Commercial Name - Clock number identifier
Key Audio	<p>RTÉ’s preference is for there to be no dialogue or “key audio” in the first and last 12 frames of the commercial.</p> <p>RTÉ will accept files with “key audio” in the first or last 12 frames, so long as it is not in the first 6 frames or last 6 frames of the commercial.</p> <p>Background effects or music are acceptable.</p>

1.2 HD Commercial File Delivery standard (FAST)

Note: RTÉ's preference is for commercials to be delivered in HD

	RTÉ Preferred HD Commercial File standard
File Type	Mxf
File Format	OP1-a
File Format Profile	Closed/Complete
Video Compression	MPEG-2 LONG GOP
Colourspace	4:2:2
Commercial Name	XDCAM HD 422-50
Resolution	1920 x 1080
Video bit rate	50Mbps 8bit
Interlaced	Y
Field Dominance	Upper Field First – Field 1
Timecode standard	MXF Timecode Track
File Start timecode	00:00:00:00
Commercial Start timecode	00:00:00:00
Preferred Aspect Ratio	16:9
Frame Rate	50i i.e. 25 frames per second interlaced or 50 interlaced fields per second
Time code standard	MXF Timecode Track
Safe Areas	Follow guidelines provided by EBU – Recommendation R 95 “Safe Areas for 16:9 Television Production”

Subtitling	
Subtitling (Y/N)	<p>The following are accepted:</p> <p>File Embedded VANC in HD</p> <p>Subtitles shall be OP47 format compliant with ITU-R BT.1120-7</p> <p>Subtitle data shall be carried in HD on “line” 577 only</p> <p>Subtitles shall be provided in the video according to SMPTE 328M or as an ancillary data track according to SMPTE 436M</p>
Subtitle File naming	NA

Audio	RTÉ Preferred HD File standard (TX copy)
General	<p>General Audio should be in stereo, if mono is supplied, ideally recorded on Track 1 and Track 2 (phase compatible).</p> <p>Follow guidelines provided by EBU – Recommendation R 123 “EBU Audio Track Allocation for File Exchange”</p>
Audio Stream	1 Stream up to a max of 8 tracks
Audio Tracks	<p>Track 1 and 2: Audio</p> <p>Track 3 and 4 (optional): Music and Effects or Dolby E³</p> <p>Track 5 and 6 (optional): Audio Description⁴</p>
Audio Spec	<p>Codec: PCM uncompressed</p> <p>Wrapped: BWF (Broadcast wav)</p> <p>8 tracks</p> <p>24 Bit resolution</p> <p>Sample frequency: 48kHz</p>

³ RTE Reserved

⁴ RTÉ Reserved

Audio Levels	Follow guidelines provided by the EBU Recommendation R128, “Loudness normalisation and permitted maximum level of audio signals” and EBU Recommendation R128s1-2016, “Loudness parameters for Short-form Content”
Optional:	These are additional options
Scene Change Detection	Not required
DRM Enabled	Not required
DRM Type	Not required

Other requirements	RTÉ Preferred HD File standard (TX copy)
Commercial Identification	<p>The file should be named according to the convention:</p> <p>Clock number.mxf where slashes (/ or \) are replaced by dashes (-)</p> <p>Example:</p> <p>Clock number: WON/EFBC124/010</p> <p>File name: WON-EFBC124-010.mxf</p> <p>Ideally an identification trailer (duration: 5 seconds) should succeed the commercial recording. The following should be included on the trailer</p> <ul style="list-style-type: none"> - The Commercial Supplier company name and telephone number - Commercial Name - Clock number identifier
Key Audio	<p>RTÉ’s preference is for there to be no dialogue or “key audio” in the first 12 frames and last 12 frames of the commercial.</p> <p>RTÉ will accept files with “key audio” in the first or last 12 frames, so long as it is not in the first 6 frames or last 6 frames of the commercial.</p> <p>Background effects or music are acceptable.</p>

1.3 XML file

Ideally, all commercial file deliveries should be accompanied by an xml file (clock number.xml) to be delivered after the mxf file has been delivered.

The following fields are mandatory in the xml file:

<filename>

<SOM> 00:00:00:00

<EOM>

<File Duration>

<AdLength>

<Title>

<Advertiser>

<Product>

<Agency>

<Supplier>

<TV Standard> HD or SD

<Subtitles> Yes or No