

REQUERIMIENTOS TÉCNICOS EN LA ENTREGA
DEL MATERIAL AUDIOVISUAL PARA
*MEDIASET*españa.

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1. PROLGUE

This document describes the technical requirements that audiovisual material submitted to Mediaset España Comunicación, S.A. must meet..

The specifications which have been developed range from the physical aspect (media type) to the essence (content) of the material.

Annex 1 provides a summary table to facilitate the location of these parameters.

Annex 2 provides specifications for Metadata and additional material required.

Annex 3 provides the specifications for Standard Definition (SD)

2. NAMING CONVENTION AND MEDIA TYPE

2.1 Preliminary Notes

The product will be of full duration and in the number of media types required.

The product supplied should be the final edited master or the first generation.

Unless otherwise stated, you must provide a backup with identical characteristics to the original material.

2.2 Naming Convention

The naming convention of the product is as follows:

<ProductTitle>_<EpisodeNumber>_<Resolution>_<XdY>.<extension>

Where:

<ProductTitle>: Title of the product (Mandatory).

<Episode Number>: Use "1" if not part of a series (Mandatory).

<Resolution>: SD, HD (Mandatory).

<XdY>: Use when the product is divided into X parts. X = current part, Y = total parts (Mandatory only when divided).

For naming convention use only alphanumeric characters upper case (A-Z 0-9)

2.3 File Delivery (No physical media)

This will be the preferred method for delivering digital content. For delivery via Internet or dedicated data networks, the terms and conditions of delivery must be approved in advance by Mediaset España. (See contact email)¹.

2.4 Physical Media Delivery

In case of using other media, such as XDCam Disc, solid-state memories, hard drives, etc, the terms and conditions must be approved in advance by Mediaset España Comunicación, S.A., hereinafter "Mediaset España" . (See contact email)¹

2.4.1 UHD Content

The contents will be delivered in SSD hard disk, the format must be EXFAT and with these requirements:

¹Contact email: entregamateriales@mediaset.es

- External SSD hard disk:
 - Compliant with transfer speed over the 540MBps
 - Compliant as least with USB 3.0 interface (USB 3.1 Gen1)

Different files may be delivered within the same hard disk, if they correspond to the same content (chapters) of the same season.

3. FORMATS

The specifications listed below indicate both the container format (or wrapper) such as the codec format. They only apply for the delivery of content described in paragraphs 2.3, 2.4 and 2.5.

Given the current variability of possibilities in terms of file formats and codecs on the market, Mediaset España will require strict compliance of the rules reflected in this document, specifically paragraphs 3 and 4 below.

3.1 Video File Format

3.1.1 SD Content

(see appendix 3)

3.1.2 HD Content

The established format is XDCAMHD 422, 50Mbps subject to the recommendation SMPTE RDD9-2008. (Format known as XDCAM HD 422 50).

Inside the container the essences should be mapped as follows, paying special attention to audio, there should always be eight channels at 48KHz@24bits:

SMPTE RDD9-2008 (XDCAM HD) MXF Interoperability Specification of Sony MPEG Long GOP Products			
Header	Aspect Ratio 16/9	TimeCode 00:00:00:00	
VIDEO	XDCAM HD422 1080i@25, 50Mbps		
AUDIO	PCM 48KHz 24bits		
	Ver punto 4.6		

When the submission is a file (see 2.5), the aspect ratio must be properly marked both in the essence of the MPEG and in the MXF metadata.

3.1.3 UHD Content

When the content is available in HDR, it must be delivered in addition to the SDR version.

Preferred format for all content is XAVC SDR, except for Mediaset España's Fiction productions, where Apple ProRes 422 HQ is preferred.. The following specifications indicate both, the format of the container (or wrapper) and the format of the codec:

SDR Delivery

For UHD-SDR contents, a single file will be delivered, where two options will be accepted:

Option 1: UHD SDR File, XAVC

Preferred format excepting for the Mediaset España's Fiction productions.

The delivery format accepted is MXF OP1A, XAVC UHD Intra Profile Class 300 (Intra CBG).

XAVC 4K Intra Profile Class 300 (Intra CBG) 4:2:2/10 bit				
Header	3840x2160p 16/9 BT.709	TC 00:00:00:00	25 fps	SDR Gamma 2.4
VIDEO	H.264 10-bit 422 I-Only, 250 Mbps			
AUDIO	PCM 48KHz 24bits			
	See 4.6			

Opción 2: UHD SDR File, ProRes

Preferred format for the Mediaset España's Fiction productions.

The established format is **Apple ProRes 422 HQ** and the container is **MOV**.

Apple ProRes 422 HQ (MOV)				
Header	3840x2160p 16/9 BT.709	TC 00:00:00:00	25 fps	SDR Gamma 2.4
VIDEO	ProRes 10-bit 422 I-Only, 736 Mbps			
AUDIO	PCM 48KHz 24bits			
	See 4.6			

HDR (High Dinamic Range) Contente

For UHD-HDR contents, two files shall be delivered, one in HDR and the second file in SDR as described above.

The delivery format for HDR is **Apple ProRes 422 HQ** and the container is **MOV**.

Apple ProRes 422 HQ (MOV)				
Header	3840x2160p 16/9 BT.2020	TC 00:00:00:00	25 fps	HDR HDR10
VIDEO	ProRes 10-bit 422 I-Only, 736 Mbps			
AUDIO	PCM 48KHz 24bits			
	See 4.6			

3.2 Audio File Format

If there is a reference to the content or program, the file will be BWF (Broadcast Wave), using the format BW64, in accordance with specification EBU Tech 3306-2009 (updated by ITU-R BS.2088-1), including 2, 6 or 8 channels, according to the delivery specified in section 4.6 and being always 48KHz and 24bits.

If there isn't any reference to the content of video the file format will be WAV.

No content in compressed formats will be accepted

The filename will be identical to the audiovisual content

3.3 Subtitle File Format

The file will be in the format EBU-N19 Standard Subtitling Data Exchange Format according to the document; EBU Document Tech. 3264 E.

The duration and time code will exactly match the audiovisual content.

The filename will be identical to the audiovisual content.

3.4 Audio Description File Format

The file will be BWF (Broadcast Wave) in accordance with specification EBU-Tech 3285.

The duration and time code will exactly match the audiovisual content.

The filename will be identical to the audiovisual content.

3.5 Graphic-Image File Format

TARGA graphic format, extension. TGA must contain Alpha channel, i.e. 32-bit TGA. PNG format with Alpha channel will also be accepted.

The graphic is delivered by the dimensions and proportions supplied.

In the case of animated LOGOS the format will be a numbered sequence of TGA's.

3.6 Data Files

The data file will be type XML, eXtensible Markup Language 1.0 (Fifth Edition), as recommended by the World Wide Web Consortium (W3C), whose specifications can be found at:

<http://www.w3.org/TR/2008/REC-xml-20081126/>

4. ESSENCE OR CONTENT

4.1 Product Structure

4.1.1 Previous Content Part (Pre-run)

Starts at TC 00:00:00:00 and with the total duration of 1 minute will be recorded:

- 60" of black as a video signal and silence in the soundtracks.

4.1.2 Audiovisual Product Content

Starts at TC 00:01:00:00

The content will come without any defined commercial breaks and without any elements which prevent making the move to advertising when deemed necessary.

Only for self-produced products of Mediaset España where the Directorate of Programming indicate, will there be commercial breaks with black spaces between blocks of at least ten seconds.

When the delivery is in file, it will contain the whole duration of the product. In this case, a product divided into several files will not be accepted.

If the product exceeds the estimated length of the media, the second and successive media must begin with the black signal described above, giving way to the product contents exactly where the cut was made in the previous media and finishing as in the case of a single media (see paragraph 4.7). As far as possible the cut should not be made in the middle of a sequence.

The end of the program will include 30 seconds of black and silence.

4.1.3 Final Content Part (Post-run)

Textless material will be included when available as a separate content. This material must have the same length as the original sequence. The aspect ratio is equal to the original plans. If there are titles in Spanish (Castilian), they should also be included at the end.

The end of the program will include 30 seconds of black and silence.

4.2 Video Essence

4.2.1 SD Content

(see appendix 3)

4.2.2 HD Content

All content will be standard compliant 1080i @ 25 in accordance with ITU-R BT.709-5 "Parameter values for the HDTV standards for production and international Exchange Programme".

4.2.3 UHD Content

All content will be compliant with the following requirements:

- Resolution: UHD 3840x2160
- Frame rate: 25 frames
- Scan: progressive
- Aspect Ratio: 16/9
- Chroma subsampling: 4:2:2
- Color system: YCbCr
- Color depth: 10 bits in legal range (64-940)

SDR Delivery

- Color space: ITU-R BT.709, white point D65
- Transfer function: Gamma 2.4

HDR (High Dinamic Range) Delivery

The delivery in HDR will be done using the format **HDR10**:

- Color space: ITU-R BT.2020, white point D65
- Transfer function: ITU-R BT.2100 PQ (SMPTE ST 2084) – max. 1000 nits

In the HDR delivery, the media file must include the **SMPTE 2086 metadata**. MaxFall and MaxCLL, if it were not possible to include them in the media file, they shall be delivered in a text file alongside the video file and with a timecode reference to locate the MaxCLL frame or with a picture of the frame. In this case, the text file shall be named after the media file.

4.3 Quality of SD, HD and UHD-SDR Content

The RGB levels after decoding them and displaying them on a waveform monitor should have values between 0mV and 700mV. The permissible tolerance will be in accordance with the EBU R-103-2000 recommendation.

Unless there are artistic conditions that require otherwise, colorimetry should be as natural as possible, especially in skin tones.

Where the origin is a film, the video signal must come from a correctly “telecined” signal: without marks, without losing shadow detail, without dominants, with constant speed, without horizontal and vertical movements, without blurring, without stability problems, with a low grain level.

The absence of creases, drops, synchronism failures or "artefacts" due to compression is mandatory.

The image must be well defined (unless artistic criteria requires otherwise).

It should not present very contrasting blacks nor excessive lighting. The moiré, cross-colour or cross-luminance patterns are not admissible.

If conversions are made to 625/50 from other standards, special care must be taken to comply with the quality requirements.

Fuzzy images or incorrect interpolations in panning shots or movement sequences should be avoided when the product has been recorded in progressive or frame rates different to those of delivery (25i).

When converted material (up, down) is delivered, it must be first authorised by Mediaset España. (See contact email).

4.4 Flashing Images and Repetitive Patterns.

Flickering or intermittent lights and certain types of repetitive visual patterns can cause problems for some viewers who have photosensitive epilepsy (PSE). Television is by nature a flickering medium and it is therefore not possible to completely eliminate the risk of causing convulsions in viewers with photosensitive epilepsy; however, some care could be taken to reduce unnecessary risks. Please consult the Independent Television Commission website (www.ofcom.org.uk) for basic guidelines about this problem.

In this sense, in cases where Mediaset España has agreed (contractually or otherwise), a certificate of having passed the FPA (Flash and Pattern Analyser) will be delivered indicating that it is free of image sequences that may affect this group of viewers.

4.5 Audio. Levels and Quality.

The audio levels must be compliant with the EBU-R128 Technical Recommendation 'Loudness normalisation and permitted maximum level of audio signals' and with the Recommendation ITU-R BS 1770 'Algorithms to measure audio programme loudness and true peak level', where:

- The target Program Loudness Level normalisation is -23.0 LUFS $\pm$ 1.0 LU
- The True Peak Level shall not exceed -1dBTP

For short-form content, typically <60s, as Commercials, Trailers, Auto-promotions..etc, and following the EBU Tech 3343 recommendation the following parameter should also be considered:

- The Maximum Short-term Loudness (3s interval) is -18 LUFS

Audio must be intact and free of spurious signals such as noise, hum noise and intermodulation. Artefacts should not be displayed in the amplitude and frequency response due to the misuse of noise reducers, gates or compressors.

Audio channel levels should be kept as equal as possible.

Dialogues, music and effects should be well mixed and without distortion.

Audio should be perfectly synchronized with video, where a maximum of +5msg (audio before video) and -15msg (audio after video) will be accepted.

4.6 Assigning Audio Tracks

For content delivered in XDCam or File, the audio mapping in the video will be as specified in the next table:

	Pistas/Tracks							
	1	2	3	4	5	6	7	8
Original Spanish Material	Mix Stereo Spanish L	Mix Stereo Spanish R	Mix Stereo Spanish L	Mix Stereo Spanish R			Mix M&E Stereo L	Mix M&E Stereo R
Dubbed Spanish Material	Mix Stereo Spanish L	Mix Stereo Spanish R	V. O. Stereo L	V. O. Stereo R			Mix M&E Stereo L	Mix M&E Stereo R
Undubbed Spanish Material	M&E Stereo L	M&E Stereo R	V. O. Stereo L	V. O. Stereo R				

4.6.1 Additional Audios

When Mediaset España have agreed to it (contractually or other), the following additional audio files can be included:

- Spanish Program
- Music & Effects
- Music separately
- Effects separately
- Dialogue Premixes

All these audios will be delivered in independent WAV files with the following naming convention: <ProductTitle>_<EpisodeNumber>_<FileType>.wav and the audio mapping seen in the next examples:

For naming convention use only alphanumeric characters upper case (A-Z 0-9)

-Example for stereo audio files:



-Example for multichannel audio files:

ProductTitle_1_PgmSpanish.wav

SPANISH PROGRAM 5.1						PGM	
1	2	3	4	5	6	7	8
L	R	C	LFE	Ls	Rs	L	R

ProductTitle_1_M&E.wav

M&E 5.1						M&E STEREO	
1	2	3	4	5	6	7	8
L	R	C	LFE	Ls	Rs	L	R

ProductTitle_1_Dialog.wav

SPANISH DIALOGUE 5.1						DIALOGUE STEREO	
1	2	3	4	5	6	7	8
L	R	C	LFE	Ls	Rs	L	R

ProductTitle_1_Efect.wav

EFFECTS 5.1						FX STEREO	
1	2	3	4	5	6	7	8
L	R	C	LFE	Ls	Rs	L	R

ProductTitle_1_Music.wav

MUSIC 5.1						Music STEREO	
1	2	3	4	5	6	7	8
L	R	C	LFE	Ls	Rs	L	R

4.7 Time Code

Time code must be continuous and increase linearly.

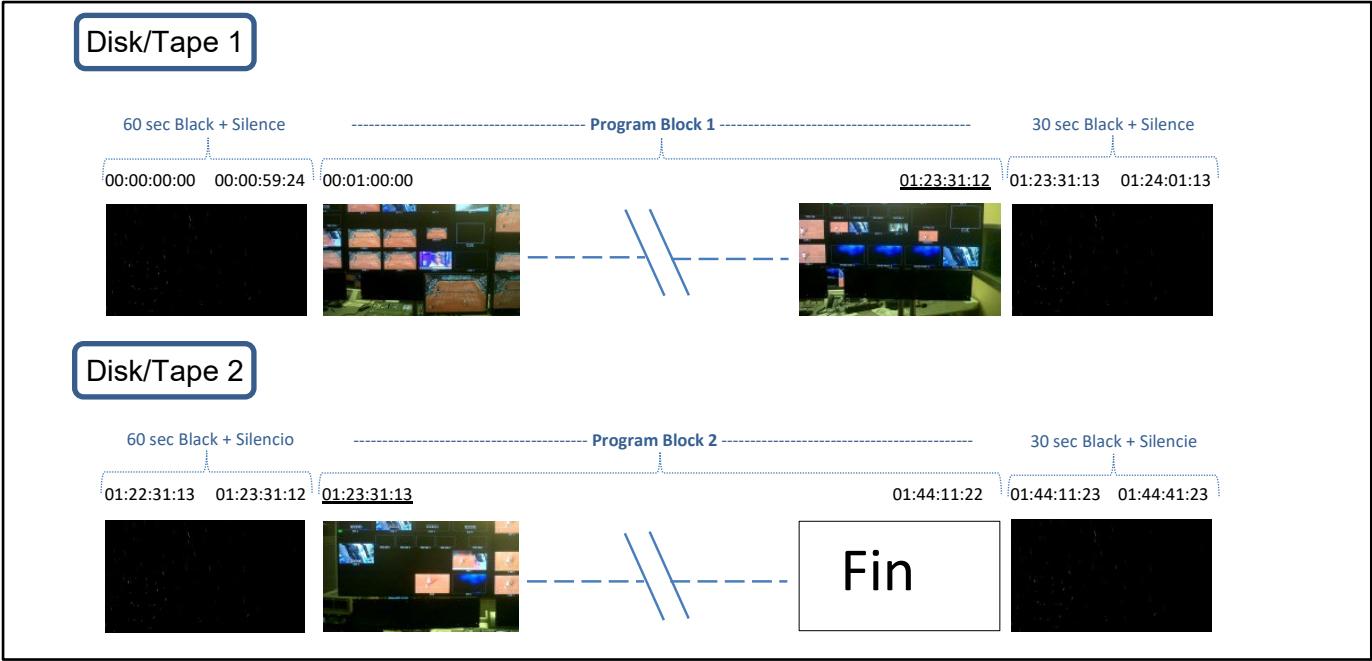
In MXF, Time Code must be consistent across the Material Package, Source Package, and System Item of each Essence Container, as recommended by the EBU-R122.

In tape formats, LTC and VITC must match.

If the product is delivered on multiple disks / tapes the time code will be progressive from the first disk / tape straight to the following discs / tapes (see figure 1)

As an exception, in log duration products with with defined content blocks, each disk or tape could be treated as a single product and therefore independent time code, starting each disk or tape in TC 00:00:00:00.

Figure 1



Programs example with dur 01:43:11:22 split in two disks/tapes. Both disks/tapes must include Pre-run y Post-run (see paragraph 4.1).

5. OBJECTIVE AND SUBJECTIVE QUALITY REQUIREMENTS

It's at the discretion of Mediaset España whether or not they use a product which does not comply with the subjective quality control (based or referenced in ITU-R BT500) or technical criteria described in the previous points.

Notwithstanding the aforementioned, Mediaset España may accept products which do not meet quality standards and where the final quality is affected in some cases, for example:

- Contents of historical interest and / or systems from old TV or film.
- Contents of artistic interest, where required quality levels are deliberately breached as part of the expressiveness of production.
- Current affairs material for programs, documentaries or news, in that the difficulty of capturing the material has required the use of inferior equipment to that required.

5.1 Subjective Quality Evaluation (ITU-R BT.500)

All programs produced by and for Mediaset España should be at least in grade 4 or 5 quality, with certain exceptions whereby grade 3 will be accepted according to the scale defined in the standard ITR-R BT.500.

6. NOTES

- This publication may contain typographical errors, Although Mediset España, has taken all precautions in its preparation.
- Mediaset España assumes no liability for such errors or omissions. Nor is it responsible for damages arising from use of the information contained herein contrary to the object and purpose of it.
- It is recommended to always use the latest versions of the standards listed throughout this document as a reference.
- Where applicable, this document is subject to the conditions that are reflected in the material acquisition contracts of Mediaset España (eg, advertising material).
- This document may be translated into other languages, in case of conflict between the terms of this document and translations, it is the Spanish language version which shall prevail.

7. APPENDIX 1. SUMMARY TABLE

HD	
Media	File
	MXF
Format	SMPTE RDD9-2008 (Sony XDCAM HD422)
Video	1080i@25, ITU-R BT.709-5
Audio	48KHz@24bits
Levels	Measure: ITU-R BS.1770 Loudness Levels normalisation: EBU R-128
Tracks	See 4.6.1
Timecode	TC Initial Media: 00:00:00:00, TC Initial Content: 00:01:00:00
Pre-run	60" Black and Silence
Post-run	30" Black and Silence

UHD			
Media Format Video Audio Levels Tracks Timecode Pre-run Post-run	SDR		HDR
	MXF	MOV*	MOV
	XAVC 4K Class 300	Apple ProRes 422 HQ	Apple ProRes 422 HQ
	2160p@25, BT.709, 4:2:2 10bit		2160p@25, BT.2100 PQ, 4:2:2 10bit
	48KHz@24bits		
	Measure: ITU-R BS.1770		
	Loudness Levels normalisation: EBU R-128		
	See 4.6.2		
	TC Initial Media: 00:00:00:00, TC Initial Content: 00:01:00:00		
60" Black and Silence			
30" Black and Silence			

**Format for Mediaset España's Fiction productions*

8. APPENDIX 2 METADATA AND OTHER ADDITIONAL MATERIAL

The delivery of all audio-visual material requires the fulfilment of the metadata relating to it (point 8.1) and in cases where Mediaset España so agrees (contractually or other), additional material will also be delivered with the audio-visual product (point 8.2).

Mediaset España will provide the tool for the delivery of metadata and other additional materials described in this annex.

8.1 Metadata

Next, all the metadata fields associated with the audio-visual material that can be filled, **the fields in bold are mandatory**.

FIELD	DESCRIPTION
Product metadata	
P.1. Identification and ownership	
<i>EdrID</i>	EDR identification code
<i>IMDB</i>	identification code from the Internet Movie Data Base
GAD type	Numerical identification code for the type of product in GAD (Gestión Adquisición Derechos). It will be provided by Mediaset España
GAD product	Numerical identification code for the product in GAD (Gestión Adquisición Derechos) It will be provided by Mediaset España
GAD episode	Numerical identification code for the episode in GAD (Gestión Adquisición Derechos) It will be provided by Mediaset España
Product title	Product title
Original product title	Original product title
Season	Season number to which the content belongs
<i>Episode Nº</i>	Episodic number
<i>Episode title</i>	Chapter title
<i>Original Episode title</i>	Original episode title
Production company	Name of the production company
Year of production	Year in which the product was produced
Country of production	Product's nationality
Language	Product language for broadcast in Spain
Language(s) Included	Language(s) that can be included with distribution
<i>Ownership</i>	Identification of the product owner
Copyright	Details of product rights
<i>Minors protection</i>	Minors protection
P.2. Artistic Information	
<i>Short synopsis</i>	Brief content summary, a maximum of 256 characters
<i>Long synopsis</i>	Detailed content summary, a maximum of 1024 characters
<i>Genre</i>	Film, TV movie, magazine, competition, sports, long-running series, limited run series, etc
<i>Director</i>	Director's complete name
<i>Producer</i>	Producer's complete name
<i>Script writer</i>	Script writer's complete name
<i>Actors</i>	Cast list of main actors
<i>Designer</i>	Designer's complete name of the product

8.2 Metadata Other Additional Material

Below are the metadata fields associated with the extra materials to the audiovisual product that can be delivered, the fields **in bold** are mandatory.

FIELD	DESCRIPTION
Additional metadata fields	
P.3. Video Files	
Identification	Description of the attached files (trailer, teaser, promo, sign language, etc.)
<i>Notes</i>	Any information of interest that complements the identification of the material
Distribution of audio channels	The audio description information
Audio Type	Number audio tracks
<i>Duration</i>	Duration: hh:mm:ss:ff
<i>TC in</i>	Time code in the first frame audio/video (hh:mm:ss:ff)
<i>TC out</i>	Time code in the last frame audio/video (hh:mm:ss:ff)
P.4. Audio Files	
Identification	Description of the attached files (audiodescripción, dub, M&E, etc)
<i>Notes</i>	Any information of interest that complements the identification of the material
Number and Distribution of audio channels	The audio description information
Audio Type	Number audio tracks
<i>Duration</i>	Duration: hh:mm:ss:ff
<i>TC in</i>	Time code in the first frame audio/video (hh:mm:ss:ff)
<i>TC out</i>	Time code in the last frame audio/video (hh:mm:ss:ff)
P.5. Artwork Material	
Identification	Description of the attached files (Poster image, photo of the main character, etc)
<i>Notes</i>	Any information of interest that complements the identification of the material
P.6. Text Files	
Identification	Description of the attached files (script, tech script, subtitle, etc)
<i>Notes</i>	Any information of interest that complements the identification of the material
P.7. IMF Project	
Identification	Description of the attached files
<i>Notes</i>	Any information of interest that complements the identification of the material

9. APPENDIX 3. STANDARD DEFINITION DELIVERY (SD)

9.1 File Format

The Standard Definition (SD) is currently in decline, so it will only be accepted by prior agreement with Mediaset España (see contact email)¹.

The established format is MXF GC D10 (IMX@30Mbps) OP1a, subject to the rule SMPTE 386M-2004. (Format known as XDCAM IMX30).

Inside the container maps essences as follows, paying special attention to audio, always eight channels at 48kHz@16bits:

SMPTE 386M-2004 Mapping Type D-10 Essence Data to the MXF Generic Container			
Header	Aspect Ratio	TimeCode 00:00:00:00	
VIDEO	MPEG2 422P@ML I-Only (D-10), 30Mbps		
AUDIO	PCM 48KHz 16bits		
	Ver punto 4.6		

9.2 Video Essence

The Standard Definition (SD) is currently in decline, so it will only be accepted by prior agreement with Mediaset España (see contact email)¹

The contents will be digitized according to the system 625 lines and 50 interlaced fields within the ITU-R BT 601-6,

Aspect ratio

It will be like the 16:9 rule "full frame" or 4:3 "full frame" if the original is like that. Where material with other aspect ratios are submitted, prior authorization must be requested from Mediaset España (See contact page 5).

Resume Table:

SD			
Media	<table><tr><th>Fichero</th></tr><tr><td>MXF</td></tr></table>	Fichero	MXF
Fichero			
MXF			
Format	SMPTE 386M:2004 (Sony D-10 XDCAM)		
Video	<u>625i@25, ITU-R BT.601-7</u>		
Audio	48KHz@16bits		
Levels	Measure: ITU BS.1770 Audio Levels: EBU R128		
Tracks	<i>Ver punto 4.6.1</i>		
Timecode	TC Initial Media: 00:00:00:00, TC Initial Content: 00:01:00:00		
Pre-run	60" Black and Silence		
Post-run	30" Black and Silence		