

TECHNICAL REQUIREMENTS

Material for Broadcast

20.09.2018



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Version 1.8

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1. Introduction

The technical guidelines described herein apply to all programs intended for transmission on any of the channels of Mediengruppe RTL Deutschland – they are the basis of each production contract.

The picture and sound quality of television productions has to adhere to the quality standards which can be achieved utilizing modern means of production.

These means of production have to be constantly kept on the cutting edge of technology.

The basic requirement is that all production material and equipment has to adhere to the broadcast standard and this adherence is highly recommended throughout all phases of production.

In order to achieve optimum picture and sound quality of the television program, the physical and technical possibilities as well as the limitations of the television system have to be taken into account when recording begins.

Once CBC has received the broadcast material, its quality and compatibility for transmission will be assessed via technical and editorial inspection and approval.

It is important that the technical details of the audio/video content correspond to the guidelines recommended by the European Broadcasting Union (EBU).

2. Technical Requirements

2.1. Video Signal

2.1.1. HD Signal

High definition video signals have to adhere to the encoding parameters according to the ITU-R BT.709-5 standard. The content must not contain any illegal video signals. The field dominance always has to be on the first (odd) field.

2.1.2. SD Signal

SD video signals have to adhere to the encoding parameters according to the ITU-R BT.601 standard. Active image information needs to be from line 23 to line 310 in the first field and line 336 to line 623 in the second field range. The first half of line 23 has to be blanked out. In particular, a use for WSS is inadmissible. The content must not contain any illegal video signals. The field dominance always has to be on the first (odd) field.

2.2. Audio Signal

2.2.1. Loudness Control

The broadcasting of programs will only be performed with loudness control according to EBU Recommendation R 128. All productions have to be in accordance with EBU Recommendation R 128.

The level control of the audio signals has to be done in a way that an average program loudness (I=Integrated) of -23 LUFS (+/- 0.5 LU) is achieved. Besides, the digital maximum true peak level (Tpmax) must not exceed -1 dBTP.

The program loudness range (LRA) should preferably not be higher than 20 LU (detailed information can be found in the documents EBU Tech 3341 – 3344).

2.2.2. Sound Level

There must not be any audio mute or test tones in the program; all exceptions (e.g. removal of obscene language) have to be documented. The downmix of a multi-channel mix has to be stereo-compatible. The whole program must be produced in a balanced and natural mix also adhering to the Recommendation R 128.

Dialogues should be easily perceivable within the total mix of the program at a normal volume level regardless of whether the signal is mono, stereo or Dolby 5.1. Particular attention has to be given to background effects and background music. It has to be noted that many viewers have difficulties following dialogue program if it is not sufficiently distinguishable from the background sound.

In order to smoothen the transitions between different program elements the loudness at the beginning and at the end of the programs must not be above average. Scenes with a comparable content should be mixed identically within the same program segment. The sound level of the program identification must be adequate and not too high.

Each and every mix will undergo a final check in the quality control department focusing on the above mentioned conditions.

2.3. Time Code

All delivered AV material has to contain time code information. The time code has to be continuous and steady. LTC and VITC (if any) have to have identical values. If the material is delivered in separate volumes or files (e.g. images and sound separately or in a program file), the time code has to be in sync on all units, has to be continuously ascending and must not be duplicated.

For file-based delivery the timecode starts at 00:00:00:00 and for tape-based delivery at 10:00:00:00

2.4. Audio Track Assignment

The German program audio of broadcast material should always be on track 1 and 2 and in stereo. Unused tracks have to be AES-0 (mute). All audio tracks have to be synchronized to the video image regardless of the format.

Track assignments in 5.1 mixes have to adhere to the following pattern:

FL (track 3) – FR (track 4) – C (track 5) – LFE (track 6) – SL (track 7) – SR (track 8)

Compliant audio track assignments can be found in appendix A.

The audio track designation has to be listed in an accompanying information (media data sheet). Audio track assignments other than those listed in appendix A will only be permitted after consultation with CBC.

2.5. Aspect Ratio

2.5.1. HD Signals

The picture size of the active image size is 1920x1080 square pixels. Other sizes are not accepted. SD productions which have been “up-scaled” into HD require individual agreement with CBC.

2.5.2. SD Signals

The picture size of the active image is 720x576 non-square pixels. Other sizes are not accepted. The preferred aspect ratio is 16:9. Image content in 4:3 requires individual agreement with CBC.

2.6. Safe Area

To ensure adequate display of the important parts of the image on consumer devices, the defined EBU R95 safety margin (action safe area) has to be observed (Fig. 2.1). Modern TV receivers are set up to be pixel-exact. Therefore, objects which are not intended as part of the scene (such as microphone booms) and other extraneous or improper image edges must not be visible.

	Vertical	horizontal
action safe margin	3,5 %	3,5 %

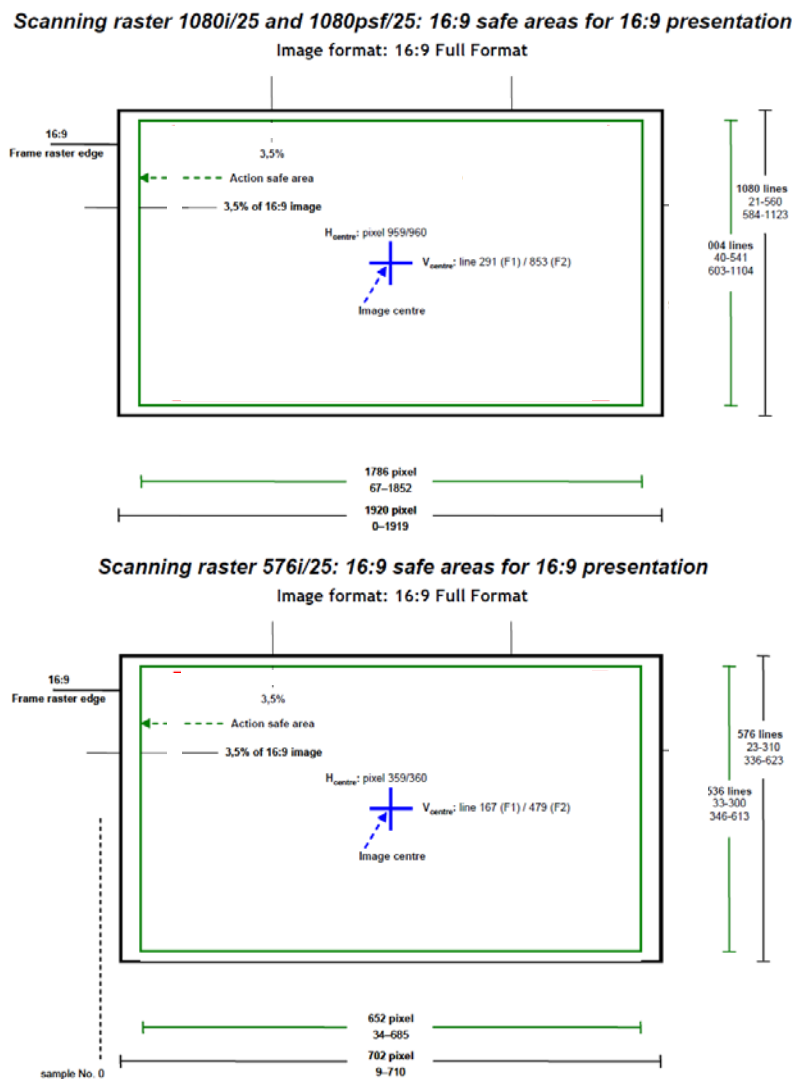


Figure 2.1: Safe Areas 16:9 Image

2.7. File-Based Delivery

Material delivery on Professional Disc is considered as file-based delivery. Apart from the delivery of a physical medium (Professional Disc) CBC will also accept the provision of files via UCP / IP-based exchange interface (Movie2Me) following prior agreement. In case of file-based delivery via Movie2Me a mandatory one-off test has to be performed.

Each professional disc should contain one file only. The file should consist only of the actual net content of program material and the extra segments. The file should have the start frame on the first visible image and the first audible sound. The time code should start at 00:00:00:00.

The maximum length of a file must not exceed 130 minutes; longer programs have to be subdivided into several files. Each file starts again at timecode 00:00:00:00.

Program end has to be followed by an information board with a duration of 1 second. The last extra segment shows the information table for 1 second. A technical line-up sequence is not necessary.

The designation of audio tracks has to match exactly one of the schemes listed in appendix A and should designate unused tracks as AES-0 (mute).

Only the following letters and digits should be used preceding a file suffix (e. g. mxf):
A – Z, a – z, -, _ and 0 – 9.

Blanks, special characters and German umlauts are not allowed. File suffixes must be edited in lower-case letters.

2.7.1. HD Signals

The file has to be delivered in a MXF container which is OP1a compliant and it has to correspond to the CBC broadcast file format. The video stream has to be encoded with the XDCAM HD422 and 1920 x 1080 pixels, 50 Hz interlaced algorithm. The encoding has to be effected according to MPEG2 422P@HL, Long GOP with a 4:2:2-sampling and a net video data rate of 50 Mbit/s. The MXF file has to match the SMPTE standard RDD09-2009.

If the original material has been produced progressively the broadcast material has to be 1080psF/25.

The accompanying audio data stream has to include 8 channels.

In particular cases and only by special agreement, file delivery may take place in Quicktime Apple ProRes 422 (HQ), 184 Mbit/s, 1920x1080psF/25 or 1920x1080i/25, Audio 24 bit, 48 kHz.

2.7.2. SD Signals

The file has to be delivered in a MXF container which is OP1a compliant. The video stream has to be encoded in IMX (D10) with 50 Mbit/s SMPTE 386M/356M standard with 50 fields per second and 720 x 608 pixels according to SMPTE standard RP202. The accompanying audio data stream has to include 8 channels regardless of whether all the channels carry information.

2.8. Tape-Based Delivery

Each delivered tape requires a line-up sequence recorded on the same machine on which the program content has been recorded in order to correctly calibrate the playback equipment. Unused audio tracks must not contain a reference tone. If the program is delivered via multiple tapes, each tape has to contain a line-up sequence. The program should start recording at TC 10:00:00:00.

The information table contains all the metadata that are needed to identify the program. For tape-based material, the information table has to be placed 20 seconds before the program begins with a duration of 5 seconds and at the end of the recording with a duration of 1 second. The font size on the information table (containing the aspect ratio and program material identification) has to be easily readable on a 9-inch monitor.

Line-up sequence in tape-based delivery		
TC / Duration	Video	Audio
09:59:00:00	100/0/75/0 Color bars	Reference tone 1 kHz -18 dBFS
09:59:40:00 Information Table 5 s	Metadata to identify the program	Mute
09:59:45:00	Black	Mute
10:00:00:00	Program	Program
10 s	Black	Mute
Information Table 1 s	Metadata to identify the program	Mute

The sync signal, the control track and time-code have to start with the test signal and have to be ascending and continuous all over the content and line-up sequence. There should be picture identification format (16:9 / 4:3) shown as both a circle and as text description in the test signal.

2.8.1. HD Signals

The delivery of HD content can be made via HDCAM SR. Material delivery on Professional Disc is considered as file-based delivery.

The video coding has to be done in 1080i/25 MPEG4 with a 4:4:4 or 4:2:2 sampling at full resolution (1920 x 1080). If the original source material is film footage or if the original material has been produced progressively the broadcast material has to be 1080psF/25.

The delivery of program material via other media is permitted only after consultation with CBC.

2.8.2. SD Signals

The delivery of SD material can be made via Digital Betacam or MPEG IMX. Material delivery on Professional Disc is considered as file-based delivery.

The delivery of program material via other media is permitted only after consultation with CBC.

2.9. Stills and Animations

Still images and image sequences for graphic picture composition before or during the broadcast have to be RGB encoded as 24 or 32-bit Targa or TIFF and have to have a resolution of 1920 x 1080 pixels. Material to be keyed into the broadcast signal has to include an 8-bit alpha channel and is mandatory as part of the 32-bit format.

Components of an animation have to be delivered as 25 separate frames per second as a sequence of images with a single file name that contains ascending and continuous numbering. Loops and action points have to be clearly marked in a separate text file. Only after prior agreement will deviations from these guidelines be permitted.

2.10. Subtitles / Closed Captioning (CC)

The broadcasting of subtitles is done via DVB bitmap subtitles according to ETSI EN 300 743 standard. The subtitle file may include only the program content in the form of (simplified) dialogues and action-descriptive elements.

The use of subtitles for other purposes such as advertising for other programs is not permitted.

2.10.1. File Format

The CC file must be delivered in EBU-STL format. If available, an additional text file including subtitle text and time codes should be delivered. The CC file delivered must correspond to the delivered video material, i.e. with the same frame rate (25 fps, unless otherwise agreed) and time code. The accompanying subtitle file should have the same name as the associated media file and feature the date type suffix “stl”.

2.10.2. Positioning in Picture

Closed captions must be centered at the lower edge of the picture (lines 20 et. Seq.). In case of open captions at the lower edge of the picture, the closed captions must be centered at the upper edge of the picture (line 1) during the entire duration of the inserts so that the closed captions will not overlay the open ones. During beginning/end credits, all closed captions should be placed at the upper edge to avoid jumping captions. Texts included as open captions should not be redundantly included in the closed ones. Only two lines are allowed in one caption and only 42 characters (incl. blanks) are allowed in each line.

2.10.3. On-Air Font Type

The subtitle's font size, type and color are predefined as Helvetica CE55 Roman in yellow for broadcasts on any channel of the Mediengruppe RTL Deutschland. Any other setup of the STL-file will be overridden. During broadcast, bold characters and italics as well as different text positions (left/right/top/bottom) can be displayed.

2.10.4. On-Screen Display Time

Each CC's display time should last for at least 1.5 seconds (according to the amount of characters). A human reading speed of 15 characters per second should not be exceeded. The gap between two captions should be four frames. In case of closely spaced dialogues, the gap may be reduced to one frame only.

2.10.5. Content and Spelling

The CC file should contain HOH-subtitles including descriptions of essential background sounds and music in addition to the spoken dialogue. The caption's content should be as verbatim as possible and in synch with the audio as well as the video in order to correspond to the film's editing done in the delivered dubbed version. Current German spelling rules according to the Duden Spelling Dictionary apply.

3. Required Material for Licensed Programs

3.1. Broadcast Material

3.1.1. Delivery Format

File or tape format must be in accordance with paragraph 2.7 (file-based delivery) resp. 2.8 (tape-based delivery).

Additional audio stems can be delivered as separate WAV files (24 bit, 48 kHz).

Delivery of alternative formats is possible after consultation with CBC's License Material Coordination team (VLCBCLizenz_CBC_@rtl.de).

3.1.2. File Delivery Method

File delivery should be made via Movie2Me file delivery system. If necessary, an account for each supplier will be created by CBC.

Alternative delivery methods are possible after consultation with CBC's License Material Coordination team (VLCBCLizenz_CBC_@rtl.de).

3.1.3. Labeling

Each tape's/file's content must be clearly identifiable by tape label, file name, information table and/or accompanying delivery note including both tape/file names and content.

The following information should be given:

For movies: Movie title, Audio routing

For series episodes: Series title, Season/Year, Episode title, Episode no., Audio routing

3.1.4. Accompanying Closed Captions

If available, an STL-document including German Closed Captions for the hard of hearing should be delivered via e-mail. For further information with regard to CC delivery, see paragraph 2.10.

3.1.5. Fonts

If Mediengruppe RTL Deutschland acquires the right to dub a program and create a localized version including German titles and captions, please inform CBC's License Material Coordination team about the fonts used for the original titles and captions.

3.1.6. Required Content

Each program has to have opening credits including program title and end credits with dubbing actors (where appropriate).

The dubbing card as part of the end credits also has to have details on dubbing directors and dubbing script adaptors.

Fade-to-Blacks should be avoided within the program or should not be longer than 1 second. Depending on program type and language version of the acquired program the following content is required:

3.1.6.1. Fictional Programs

Acquired Version	Required Video Content	Required Audio Content
German version	<ul style="list-style-type: none"> Texted version incl. German titles and captions, Textless at tail 	<ul style="list-style-type: none"> German 2.0* German 5.1*
German version with granted SAP rights (=original version as secondary audio programming)	<ul style="list-style-type: none"> Texted version incl. German titles and captions, Textless at tail 	<ul style="list-style-type: none"> German 2.0* German 5.1 Original language 2.0* Original language 5.1
German subtitled version	<ul style="list-style-type: none"> Texted version incl. German subtitles Fully textless version or Texted version incl. original titles and captions (without German subtitles) 	<ul style="list-style-type: none"> Original language 2.0* Original language 5.1*
Original version for dubbing	<ul style="list-style-type: none"> Texted version incl. original titles and captions, Textless at tail 	<ul style="list-style-type: none"> Original language 2.0* Original language 5.1* M&E 2.0 M&E 5.1 Optional/helper tracks (if available)
Original version for subtitling	<ul style="list-style-type: none"> Texted version incl. original titles and captions Fully textless version 	<ul style="list-style-type: none"> Original language 2.0* Original language 5.1*

*Audio content marked with an asterisk is preferably to be included in the delivered video. Other audio content can be delivered as separate WAV tracks

3.1.6.2. Factual Programs / Documentaries

Acquired Version	Required Video Content	Required Audio Content
German version	<ul style="list-style-type: none"> Texted version incl. German titles and captions Fully textless version 	<ul style="list-style-type: none"> German 2.0* German 5.1*
German version with granted SAP rights (=original version as secondary audio programming)	<ul style="list-style-type: none"> Texted version incl. German titles and captions Fully textless version 	<ul style="list-style-type: none"> German 2.0 * German 5.1 Original language 2.0* Original language 5.1
German subtitled version	<ul style="list-style-type: none"> Texted version incl. German subtitles Fully textless version or Texted version incl. original titles and captions (without German subtitles) 	<ul style="list-style-type: none"> Original language 2.0* Original language 5.1*
Original version for dubbing	<ul style="list-style-type: none"> Texted version incl. original titles and captions Fully textless version 	<ul style="list-style-type: none"> Original language 2.0* Original language 5.1 Mix minus narration 2.0* Mix minus narration 5.1 Optional/helper tracks (if available)
Original version for subtitling	<ul style="list-style-type: none"> Texted version incl. original titles and captions Fully textless version 	<ul style="list-style-type: none"> Original language 2.0* Original language 5.1*

*Audio content marked with an asterisk is preferably to be included in the delivered video. Other audio content can be delivered as separate WAV tracks

3.1.6.3. Additional Audio Stems for Trailer Production

If available, the following discrete audio stems should be delivered for use in the production of on-air trailers:

- Music
- Effects
- Dialogue

3.2. Promotional Material and Paper Deliverables

3.2.1. Promotional Material

Deliverable	Format	Description
Publicity Stills	18x24cm 300 dpi (min) .jpeg file	10 – 15 images of professionally shot photo stills of cast, with mix of single cast and group cast shots, labelled by cast name(s) per series
Production Stills	18x24cm 300 dpi (min) .jpeg file	10 – 15 images per episode of behind the scenes & action shot images representing essential scenes. Images must be of first class quality and suitable for publication.
Photo Captions List	.pdf	List of photo captions with full description of scene, copyright notice and/or photo credit
Key Artwork	.psd layered file	Official poster artwork
Title Treatment	.eps file	Official programme title logo
Press Pack	.pdf file	To contain: <ul style="list-style-type: none"> • Series Synopsis • Episodic Billings • Cast List • Cast Biographies • Character Descriptions • Location Descriptions • Key Production Talent Descriptions • Plus any other relevant programme details

3.2.2. Other Promotional Material

Deliverable	Format	Description
Promotional Trailer	60' HD 1080i/50 File	Texted trailer with textless elements at the end, and split audio
Electronic Press Kit (EPK) or Featurette	HD 1080/50i file	To contain: <ul style="list-style-type: none"> • Cast Interviews: 2-3 minutes (max) with each key cast member • Crew Interviews: 2-3 minutes (max) with key crew – Director, Producer etc. • Clips of programme 15-20 minutes (max) of key highlights of programme • Behind-the-scenes footage 1-3 minutes (max) clips • Mondo Shoots (in front of green screen)
Web and Social Content (if available)	.jpeg file	Mobile/Desktop Wallpapers

3.2.3. Documents

Deliverable	Format	Description
Front & End Credit List	.pdf	Per episode
Music Cue Sheet	.pdf	Per episode
Post Production Script <i>Aka Dialogue Script</i>	.pdf	Time-coded dialogue script with screen captions Per episode
Summary of 3rd Party restrictions, limitations, credits, and other licensee obligations	.pdf	Per episode
Cast List	.xls	
List of dubbing actors, dubbing director, dubbing script adaptor	online	Entry of all dubbing actors on the website www.cbc-service.de under "MITWIRKENDENLISTE"

Contact CBC:

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4. Appendix

4.1. Appendix A: Audio Track Assignment

The audio tracks have to be designated as follows:

A1: Program Material

2.0 German Docutainment

	<i>Track 1</i>	<i>Track 2</i>	<i>Track 3</i>	<i>Track 4</i>	<i>Track 5</i>	<i>Track 6</i>	<i>Track 7</i>	<i>Track 8</i>
Content	Mix	Mix	Atmo / Original-Audio	Atmo / Original-Audio	Music & Effects	Music & Effects	Speaker	Speaker
Language	German	German	-	-	-	-	German	German
Format	Stereo (L)	Stereo (R)	Mono	Mono	Stereo (L)	Stereo (R)	Mono	Mono

2.0 German Fiction

	<i>Track 1</i>	<i>Track 2</i>	<i>Track 3</i>	<i>Track 4</i>	<i>Track 5</i>	<i>Track 6</i>	<i>Track 7</i>	<i>Track 8</i>
Content	Mix	Mix	Mix minus Music	Mix minus Music	Silence	Silence	Silence	Silence
Language	German	German	German	German	-	-	-	-
Format	Stereo (L)	Stereo (R)	Stereo (L)	Stereo (R)	Silence	Silence	Silence	Silence

2.0 German Sales

	<i>Track 1</i>	<i>Track 2</i>	<i>Track 3</i>	<i>Track 4</i>	<i>Track 5</i>	<i>Track 6</i>	<i>Track 7</i>	<i>Track 8</i>
Content	Mix	Mix	Music & Effects	Music & Effects	Silence	Silence	Silence	Silence
Language	German	German	-	-	-	-	-	-
Format	Stereo (L)	Stereo (R)	Stereo (L)	Stereo (R)	Silence	Silence	Silence	Silence

2.0 German Soap

	<i>Track 1</i>	<i>Track 2</i>	<i>Track 3</i>	<i>Track 4</i>	<i>Track 5</i>	<i>Track 6</i>	<i>Track 7</i>	<i>Track 8</i>
Content	Mix	Mix	Mix minus Music	Mix minus Music	Silence	Silence	Mix license free Music	Mix license free Music
Language	German	German	German	German	-	-	German	German
Format	Stereo (L)	Stereo (R)	Stereo (L)	Stereo (R)	Silence	Silence	Stereo (L)	Stereo (R)

2.0 Dual-Language Programme

	<i>Track 1</i>	<i>Track 2</i>	<i>Track 3</i>	<i>Track 4</i>	<i>Track 5</i>	<i>Track 6</i>	<i>Track 7</i>	<i>Track 8</i>
Content	Mix	Mix	Mix	Mix	Silence	Silence	Silence	Silence
Language	German	German	English	English	-	-	-	-
Format	Stereo (L)	Stereo (R)	Stereo (L)	Stereo (R)	Silence	Silence	Silence	Silence

2.0 Dual-Language Programme Documentary

	<i>Track 1</i>	<i>Track 2</i>	<i>Track 3</i>	<i>Track 4</i>	<i>Track 5</i>	<i>Track 6</i>	<i>Track 7</i>	<i>Track 8</i>
Content	Mix	Mix	Mix	Mix	Mix minus Speaker	Mix minus Speaker	Speaker	Speaker
Language	German	German	English	English	-	-	German	German
Format	Stereo (L)	Stereo (R)	Stereo (L)	Stereo (R)	Stereo (L)	Stereo (R)	Stereo (L)	Stereo (R)

2.0 German

	<i>Track 1</i>	<i>Track 2</i>	<i>Track 3</i>	<i>Track 4</i>	<i>Track 5</i>	<i>Track 6</i>	<i>Track 7</i>	<i>Track 8</i>
Content	Mix	Mix	Silence	Silence	Silence	Silence	Silence	Silence
Language	German	German	-	-	-	-	-	-
Format	Stereo (L)	Stereo (R)	Silence	Silence	Silence	Silence	Silence	Silence

5.1 German

	<i>Track 1</i>	<i>Track 2</i>	<i>Track 3</i>	<i>Track 4</i>	<i>Track 5</i>	<i>Track 6</i>	<i>Track 7</i>	<i>Track 8</i>
Content	Mix	Mix	Mix	Mix	Mix	Mix	Mix	Mix
Language	German	German	German	German	German	German	German	German
Format	Stereo	Stereo	5.1 (FL)	5.1 (FR)	5.1 (C)	5.1 (LFE)	5.1 (SL)	5.1 (SR)

A2: Cleanfeed

2.0 German Docutainment Clean

	<i>Track 1</i>	<i>Track 2</i>	<i>Track 3</i>	<i>Track 4</i>	<i>Track 5</i>	<i>Track 6</i>	<i>Track 7</i>	<i>Track 8</i>
Content	Mix minus Speaker	Mix minus Speaker	Atmo / Original-Audio	Atmo / Original-Audio	Music (& Effects)	Music (& Effects)	Speaker	Silence
Language	-	-	-	-	-	-	-	-
Format	Stereo (L)	Stereo (R)	Mono	Mono	Stereo (L)	Stereo (R)	Mono	Silence

A3: Original Version for Synchronizations

2.0 English

	<i>Track 1</i>	<i>Track 2</i>	<i>Track 3</i>	<i>Track 4</i>	<i>Track 5</i>	<i>Track 6</i>	<i>Track 7</i>	<i>Track 8</i>
Content	Mix	Mix	Music & Effects	Music & Effects	Silence	Silence	Silence	Silence
Language	English	English	-	-	-	-	-	-
Format	Stereo (L)	Stereo (R)	Stereo (L)	Stereo (R)	Silence	Silence	Silence	Silence

A4: Original Material

2.0 English Documentary

	<i>Track 1</i>	<i>Track 2</i>	<i>Track 3</i>	<i>Track 4</i>	<i>Track 5</i>	<i>Track 6</i>	<i>Track 7</i>	<i>Track 8</i>
Content	Mix	Mix	Mix minus Speaker	Mix minus Speaker	Silence	Silence	Silence	Silence
Language	English	English	-	-	-	-	-	-
Format	Stereo (L)	Stereo (R)	Stereo (L)	Stereo (R)	Silence	Silence	Silence	Silence

4.2. Appendix B: Data Sheet Example

Medienbegleitkarte



Originaltitel:	Originaltitel	Sender:	RTL	Produzent:	
Sendetitel:	Sendetitel	Sendedatum:	28.04.2017	Name der Produktionsfirma	
Staffel/Episode:	Staffel-Nr / Episode-Nr	Sendezeit:	17:00	Name:	
Fassung:	Sendefassung	Medium:	File	Vorname Name MA Prod.-Comp.	
Dateiname:	Originaltitel_Sendetitel_Sendefassung_Staffel-Nr_Episode_20170428_1700_20170410_160911				

Video		Audio			
Qualität	HD	Spur-Nr	Belegung	Inhalt	Format
Datenrate	50 MBit/s	1	Mix	Deutsch	Stereo
Codec	XDCAM HD 422	2	Mix	Deutsch	Stereo
Bildformat	1,78:1 FF (16:9)	3	Mix	Deutsch	5.1
Bildstandard	1080i/25	4	Mix	Deutsch	5.1
		5	Mix	Deutsch	5.1
		6	Mix	Deutsch	5.1
		7	Mix	Deutsch	5.1
		8	Mix	Deutsch	5.1

Redaktion:
Name der Redaktion

Telefon:
Telefon-Nr. Prod.-Firma.

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Kommentar

Hier werden Besonderheiten zu dem Bild- bzw. Tonmaterial hinterlegt.

Segmentenliste

Pflicht-Break: Nein

Länge: 00:11:30:00

Nr.	Typ	Bemerkung	SOM	EOM	DUR
1	Programm		00:00:00:00	00:11:11:09	00:11:11:9
2	Abspann		00:11:11:09	00:11:30:00	00:00:18:16
3	Bumper Break in-out		00:12:00:00	00:12:35:00	00:00:35:00
4	Precap1	z. B.: ist von TC 00:05:00:14: bis TC 00:07:12:01 einsetzbar	00:13:00:00	00:13:25:00	00:00:25:00
5	Recap1	z. B.: ist von TC 00:08:05:00: bis TC 00:09:10:15 einsetzbar	00:14:00:00	00:14:22:00	00:00:22:00
6	Gewinnspiel	z. B.: Anmoderation	00:15:00:00	00:15:43:00	00:00:43:00
7	Infotafel		00:15:48:00	00:15:49:00	00:00:01:00

Werbeschnittsatz

Nr.	Typ	Bemerkung	SOM
1	SOM		00:00:00:00
2	BR1	Break 1	00:00:55:00
3	BR2	Break 2	00:08:57:00
4	ESH		00:11:11:09
5	EOM		00:11:30:00

Kommentar

Hier werden allgemeine Angaben zu Werbeschnitten bzw. Einblendungen hinterlegt, die nicht direkt in den betreffenden Zeilen eingetragen werden können.

Einblendungen/Secondary Events

Nr.	Typ	Bemerkung	SOM	EOM	DUR
1	Einblendung oben	z. B.: Typo rechts oben	00:00:20:00	00:00:30:00	00:00:10:00
2	Einblendung unten	z. B.: Bauchbinde unten	00:00:50:00	00:01:00:00	00:00:10:00
3	Skyscraper	z. B.: vertikaler werblicher Balken in Bewegung	00:01:50:00	00:02:00:00	00:00:10:00
4	Product Placement		00:04:00:00	00:04:30:00	00:00:30:00
5	Cut in	z. B.: werblicher Balken statisch, horizontal oder vertikal	00:04:20:00	00:04:45:20	00:00:25:20
6	Sonstiges		00:05:10:00	00:05:20:00	00:00:10:00
7	Corner Logo Animation	z. B. Hinweis auf Inside App	00:06:15:00	00:06:25:00	00:00:10:00

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