

Deliverable

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D5.3-Content Production

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Dissemination Level

P	Public	P
C	Confidential, only for members of the consortium and the Commission Services	

Abstract:

This document is a documentation of all contents used during the course of the project for demos, pre-pilots and pilot activities.

REVISION HISTORY

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Revision	Date	Author	Organisation	Description
0.1	18-05-2018	Zora Schärer Kalkandjiev	RBB	Structure, ToC and Introduction
0.2	05-06-2018	Zora Schärer Kalkandjiev	RBB	First example for content description
0.3	03-08-2018	Francesc Mas	CCMA	Added content
0.4	21-08-2018	Zora Schärer Kalkandjiev	RBB	Included feedback of reviewer
0.5	18-09-2018	Zora Schärer Kalkandjiev	RBB	Restructuring and refining
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1.1	05.10.2019	Doreen Ritter	RBB	Draft for second iteration
1.2	29.11.2019	Zora Schärer Kalkandjiev	RBB	Final version of second iteration

Disclaimer

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Statement of originality:

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EXECUTIVE SUMMARY

ImAc follows a user centered design approach. The project developments must be driven by real user needs, continuously involving these users in every step of the design and implementation. The solutions developed in the project are piloted and validated in trials, ensuring market relevance and user acceptance.

D5.3 is the delivery of the content needed for these demonstration pilots. This document lists all content that will be used in the tests and for demo purposes. In the second iteration of this document, the content used for the cross-national pilot and the pilot phase 2 will be added.

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LIST OF ACRONYMS

Acronym	Description
AD	Audio description
AST	Audio subtitles
D	Deliverable
E2R	Easy-to-read
FOV	Field of view
GUI	Graphical User Interface
HMD	Head-mounted display
HUR	Home User Requirements
HQ	High quality
ImAc	Immersive Accessibility
LQ	Low quality
M	Month
MS	Milestone
PUR	Professional User Requirements
SL	Sign Language
T	Task
VR	Virtual Reality

1. INTRODUCTION

1.1. Purpose of this document

This document describes the content produced for the demonstration pilots (for each of its two iterations). It is essentially linked to the content itself, which is part of MS13 that foresees the edition tools and content ready for pilot 2.

This document describes the content to be developed under WP5 and used in demonstration pilots. Pilot actions are understood as any test in which ImAc services and products are demonstrated and feedback from users is gathered.

The main aim of WP5 is to test the ImAc services and products (many of them in two iterations) by using suitable content that is similar to the content consumed in typical use cases and that meets the technical requirements of the ImAc framework. The production of content is thus essential, since the outcome of WP5 feeds into several other project WPs (Figure 1).

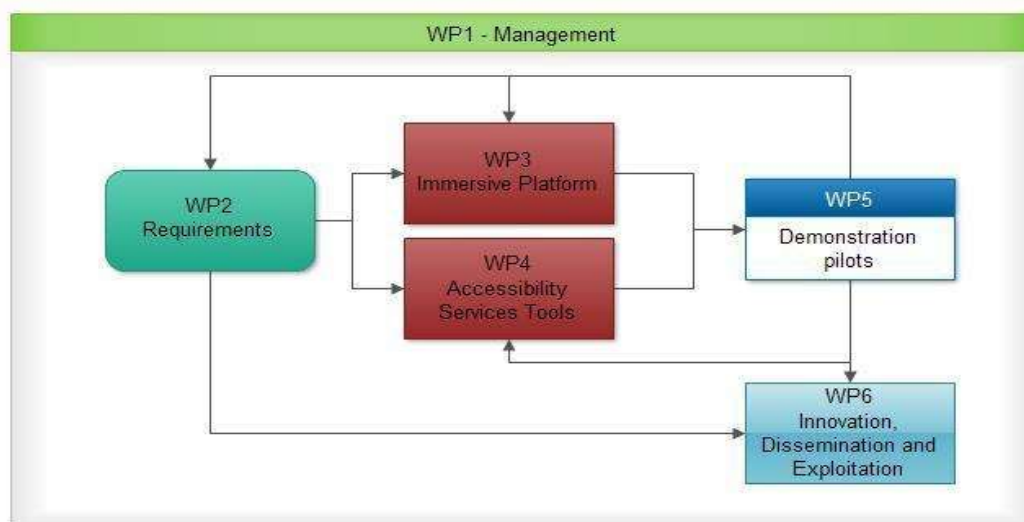


Figure 1: Diagram of relation between work packages, and its cycles (iterations).

1.2. Scope of this document

ImAc follows a user-centric design, which means that technological components, services and tools are developed based on user requirements. These developments are evaluated where appropriate in different iterations, guaranteeing the participation of end users at different stages in the process.

This deliverable describes the content used for the demonstration pilots. The requirements for the content are described in section 2. A short overview of all content is given in section 3, while the properties of all media files are listed in detail in section 4.

1.3. Status of this document

This is the second version of D5.3 with delivery foreseen in M25.

This document presents the content for all the pre-pilot and pilot phases: pre-pilot 1, Spanish and German pilots (phase 1), pre-pilot 2, Spanish and German pilots (phase 2) as well as cross-national pilot.

1.4. Relation with other ImAc activities

D5.has been compiled from the feedback gathered in ‘T2.2 User Requirements’. The deliverable also feeds into ‘T5.1 Execution and Evaluation Plan’, and impacts on all WP5 tasks, as shown in Figure 2.

D5.3 is the basis for ‘T5.3 German Pilot’, ‘T5.4 Spanish Pilot’ and ‘T5.5 Cross-national Pilot’, which will feed into ‘T5.6 Evaluation’ and result in ‘D5.4 Pilot evaluation report’.

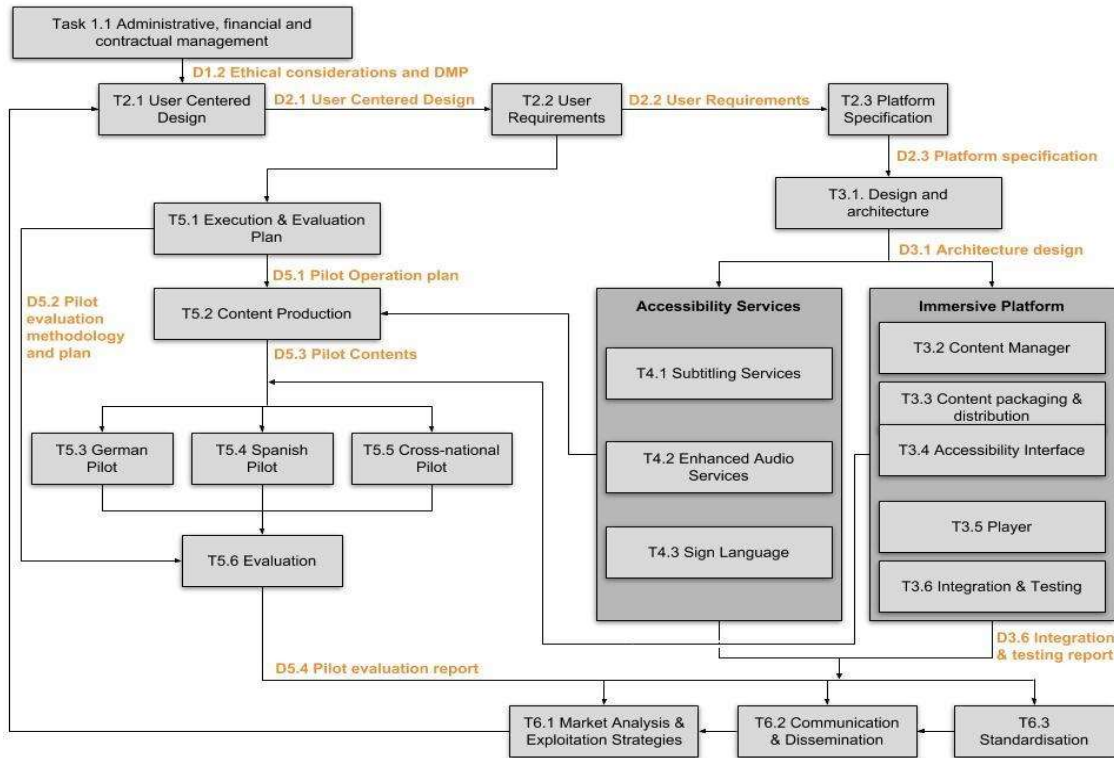


Figure 2: Diagram of tasks and outcomes (deliverables)

2. GUIDELINES FOR CONTENT PRODUCTION

As a first step, guidelines for the production of content used for the demonstration pilots were developed.

Regarding the 360°-video content (see section 2.1) there are minimum technical specifications as well as content- and production-related requirements that need to be met. The definition of the technical properties is a result of the specifications in D3.1 Architecture and Design. The definition of the content- and production- related properties is a result of general guidelines for 360° videos. Furthermore, the defined properties are based on requirements which have to be met in order to follow the pilot evaluation plan specified in D5.2. For example, if guiding mechanisms are to be tested for the subtitle and sign language services, there need to be speakers in different fields of view (FOVs).

Regarding the ImAc content (see section 2.2), i.e. the accessibility content, there are again technical specifications resulting from D3.1 as well as editorial properties resulting from the user requirements presented in D2.2.

2.1. Properties of 360° video content

Technical properties	
HQ resolution (minimum)	2160x1280 for the equirectangular frame
LQ resolution	FullHD (1280x720) for the equirectangular frame
Duration (minimum)	divers for pilot activities according to methodology reported in D5.2
File format	Video: H264 / Audio: AAC

Table 1: Technical properties of video content

Content-/ Production-related properties	
Relevant for...	Property
All	Movement of the camera is avoided
All	Cameras are centred on main action to avoid stitching errors in the area of the main action
SUB / SL	There is more than one speaker
SUB / SL	At least two speakers are spatially wide apart (different FOVs) or at least one speaker moves into different FOVs
SUB / SL	Camera position is preferably at eye level of speakers (natural position)
SUB / SL	Close-ups of speakers are avoided
SUB / SL	Lip movements of speakers are visible
AD	Activity/sound comes from different directions
AD	Audio track is available in 3D-formats (ambisonics, binaural), see HUR.03.06.0

Table 2: Content- and production related properties of video content

2.2. Properties of ImAc content

Technical		
Service	Property	Reference
SUB	File format of subtitle file is TTML	D3.1
SL	File format of signer video is H264	D3.1
SL	Ratio of signer video is 1:1	Recommendation from HBB4ALL
SL	Resolution of signer video is 500x500	Recommendation from HBB4ALL
AD	File format for AD files is AAC	D3.1
AD	AD tracks are available in different spatial formats (stereo, ambisonics, binaural)	HUR.03.40.01 / HUR.03.42.01

Table 3: Technical properties of ImAc content

Editorial		
Service	Property	Requirement
SUB	Subtitles are available as an alternative stream in simple language	HUR.03.04.0 (priority: COULD)
SUB	Colour coding is introduced for all new speakers	PUR.03.11.0 (priority: MUST)
SUB	Non-speech information is presented with icons	HUR.02.32.0 / HUR.03.03.0 (priority: COULD)
SL	The body shift traditionally used to indicate different speakers by SL interpreters is avoided	outcome of pre-pilot test
SUB/SL	Angle information for each speaker is defined	PUR.01.08.00 / PUR.01.09.00 (priority: SHOULD)
SUB/SL	Guiding mechanism can be omitted, e.g. for very short speech phrases	PUR.01.08.01 / PUR.01.09.01 (priority: MUST)
AD	Angle information is provided for the content being described	HUR.02.40.01 / HUR.03.07.01 / HUR.02.45.01 (priority: SHOULD)
AD	Main and secondary actions are described by two different voices	HUR.03.07.01 (priority: COULD)

Table 4: Editorial properties of ImAc content

2. LIST OF CONTENT DATA SETS

The following table lists the content data sets that were created to be used for demo purposes or pilot actions. Six data sets (C11-C15, C20) are the result of a cooperation with the American company RYOT (part of Yahoo), giving the ImAc project the opportunity to widen its horizon of dissemination.

Name	Description	Used / planned for	Content owner	Content type
C01	Recording of an interview during a radio show in the studio of Radio Fritz (RBB)	Demo, Pre-pilot 1	RBB	• 360° video • Subtitles • Signer
C02	Documentary: Making-of video of the RBB news show “Abendschau”	Demo, Pilot 2	RBB	• 360° video • Subtitles • Signer
C03	Opera: “Romeo & Juliet” Scene 1	Demo, Pre-pilot 2	CCMA	• 360° video • 2D video • Subtitles • E2R subtitles • Signer • AD • AST • Immersive audio
C04	Opera: “Romeo & Juliet” Scene 2	Demo	CCMA	• 360° video • Subtitles • Immersive audio
C05	Music Concert: ICat Desconcert Theme 1	Demo	CCMA	• 360° 3D video • Subtitles • Immersive audio
C06	Music Concert: ICat Desconcert Theme 2	Demo, Pilot 1, Pre-pilot 2	CCMA	• 360° 3D video • Subtitles • Immersive audio
C07	Fiction: Short film about an AI-robot created after the sci-fi writer Philip K. Dick	Demo, Pilot 1, Pre-pilot 2, Pilot 2	ARTE	• 360° video • Subtitles • Signer

C08	Documentary: Making-of video of the News daily program at TV3	Pilot 2	CCMA	• 360° video • 2D video • Subtitles • Immersive audio
C09	Documentary: Making-of video of the FAQS ("Preguntes Freqüents") debate programme at TV3	Pilot 2	CCMA	• 360° video • 2D video • Subtitles • Immersive audio
C10	Comedy: Polonia – Political satire programme at TV3	Focus groups	CCMA	• 360° video • Subtitles
C11	Documentary: Holy Land – Episode 1: Jerusalem – Earth's Holy Intersection	UAB intermediate tests, Pre-pilot 2	RYOT	• 360° video • Subtitles • AD
C12	Documentary: Holy Land – Episode 2: The Walls of Jerusalem	UAB intermediate tests, Pre-pilot 2	RYOT	• 360° video • Subtitles • AD
C13	Documentary: Holy Land – Episode 3: The birth of Christ	Pre-pilot 2	RYOT	• 360° video • AD
C14	Documentary: Holy Land – Episode 4: Modernity in Conflict	Pre-pilot 2	RYOT	• 360° video • AD
C15	Fiction: Crime Scene Investigation about a murder in a carpark	Demo, Pilot 2	RBB	• 360° video • Subtitles • Signer • Immersive audio
C16	Foxfinder	Demo	IRT	• 360° video • Subtitles
C17	Diada St Jordi 2019	Pilot 2	CCMA	• 360° video • 2D video • Subtitles • Immersive audio
C18	Cuines	Pilot 2	CCMA	• 360° video • 2D video • Subtitles • Immersive audio
C19	American Guelaguetza	UAB intermediate tests	RYOT	• 360° video • Subtitles

Table 5: Content data sets used for demo purposes and pilot actions

3. CONTENT DESCRIPTION

The following tables describe in detail each content data set. All the files of a data set are listed together with their technical properties.

2.1. C01: Rapzember

No.	File name	Type	Used / planned for
1	RBB_Rapzember_H264_1140x720_audio stereo.mp4	360° video	Pre-pilot 1: http://84.88.32.46/imac2/ Demo: http://imac.i2cat.net/player/player/#6
2	RBB_Rapzember_subtitles_DE.xml	SUB	
3	RBB_Rapzember_subtitles_CAT.xml	SUB	
4	RBB_Rapzember_signer_DE.mp4	SL video	
Duration		00:03:10	
Restrictions for usage		No restrictions, but always must be referenced as RBB content.	
Link			
Example frames			
360° video			
Content description		Recording of an interview with the Musician Young Hurn in the studio of Radio Fritz / RBB. Two speakers sitting opposite each other.	
Content language(s)		German	
File size		31.7 MB	
File format		MP4	
Video codec		H264/AVC	
Coding profile		Main@L3	

Bit rate	1.3 MB/s	
Frame rate	30 fps	
Frame rate mode	Constant	
Chroma subsampling	4:2:0	
Bit depth	8 bits	
Resolution	1440x720	
Projection	Equirectangular	
Audio codec	AAC	
Sound reproduction	Stereo	
Audio sampling rate	48 kHz	
Subtitles		
File size	2) 17 KB	3) 14 KB
File format	EBU-TT-D	
Language(s)	2) German	3) Catalan
Signer video		
File size	52 MB	
File format	MP4	
Codec	H264/AVC	
Coding profile	High@L3.1	
Bit rate	1.9 MB/s	
Frame rate	50 fps	
Frame rate mode	Constant	
Chroma subsampling	4:2:0	
Bit depth	8 bits	
Resolution	720x720	

2.2. C02: 360° Abendschau

No.	File name	Type	Used / planned for
1	RBB_Abendschau_short_H264_4K_audio stereo.mp4	360° video	Demo: http://imac.i2cat.net/player/player/#2 Pilot 2: http://imac.i2cat.net/player_de/pl ayer/#2 https://www.rbb- online.de/unternehmen/der_rbb/ profil/innovationsprojekte/projekt e/imac/demoseite.html
2	RBB_Abendschau_short_DE.xml	SUB	
3	RBB_Abendschau_signer.mp4	SL video	
Duration		00:01:46	
Restrictions for usage		Request permission for public usage.	
Link			
Example frames			
360° video			
Content description		Making-of video of the RBB news show “Abendschau”, several shots in different places (studio, outside, production room etc.), one main on-screen speaker, few short additional on-screen speakers	

Content language(s)	German
File size	130 MB
File format	MP4
Video codec	H264/AVC
Coding profile	Main@L5.1
Bit rate	10.3 MB/s
Frame rate	30 fps
Frame rate mode	Constant
Chroma subsampling	4:2:0
Bit depth	8 bits
Resolution	4096 x 2048
Projection	Equirectangular
Audio code	AAC
Sound reproduction	Stereo
Audio sampling rate	48 kHz
Subtitles	
File size	13 KB
File format	EBU-TT-D
Language(s)	German
Signer video	
Language(s)	German
File size	126 MB
File format	MP4
Video codec	H264/AVC
Coding profile	Main@L3.1
Bit rate	10 MB/s

Frame rate mode	Constant
Chroma subsampling	4:2:0
Bit depth	8 bits
Resolution	600x600

2.3. C03: Romeo and Juliet - Theme 1

No.	File name	Type	Used / planned for
1	CCMA_OPERALICEU01_H264_6400x3200_A MBIX1ST.mp4	360° video	See specifications in lines below
2	CCMA_OPERALICEU01_H264_1920x1080_2D_AMBIX1ST.mp4	2D video	Pilot 2: https://imac.gpac-licensing.com/player/test/player/#9
3	CCMA_OPERALICEU01_subtitles_EN.xml	SUB	Demo: http://imac.i2cat.net/player/player/#0 Pre-pilot 2: http://84.88.32.46/UAB-test5b/
4	CCMA_OPERALICEU01_subtitles_CAT.xml	SUB	Demo: http://imac.i2cat.net/player/player/#0
5	CCMA_OPERALICEU01_subtitles_CAST.xml	SUB	Demo: http://imac.i2cat.net/player/player/#0 Pre-pilot 2: http://84.88.32.46/UAB-test5b/
6	CCMA_OPERALICEU01_subtitles_DE.xml	SUB	Demo: http://imac.i2cat.net/player/player/#0 Pre-pilot 2: https://imac.gpac-licensing.com/pilot-test2/
7	CCMA_OPERALICEU01_E2R_CAST.xml	SUB	Pre-pilot 2: http://84.88.32.46/UAB-test5b/
8	CCMA_OPERALICEU01_E2R_EN.xml	SUB	
9	CCMA_OPERALICEU01_signer_EN.mov	SL video	Demo: http://imac.i2cat.net/player/player/#0
10	CCMA_OPERALICEU01_signer_CAT.mov	SL video	
11	CCMA_OPERALICEU01_signer_CAST.mov	SL video	

12	CCMA_OPERALICEU01_signer_DE.mp4	SL video	Demo: http://imac.i2cat.net/player/player/#0 Pre-pilot 2: https://imac.gpac-licensing.com/pilot-test2/
13	CCMA_OPERALICEU01_AD-Classic_AMBIX1ST_EN.aac	AD	Demo: http://imac.i2cat.net/player/player/#0
14	CCMA_OPERALICEU01_AD-Classic_AMBIX1ST_CAST.aac	AD	
15	CCMA_OPERALICEU01_AD-Static_AMBIX1ST_EN.aac	AD	
16	CCMA_OPERALICEU01_AD-Static_AMBIX1ST_CAST.aac	AD	
17	CCMA_OPERALICEU01_AD-Dynamic_AMBIX1ST_EN.aac	AD	
18	CCMA_OPERALICEU01_AD-Dynamic_AMBIX1ST_CAST.aac	AD	
19	CCMA_OPERALICEU01_AST-Classic_AMBIX1ST_EN.mp4	360° video & AST	Pre-pilot 2: https://imac.gpac-licensing.com/test-ast-eng/ https://imac.gpac-licensing.com/test-ast-cat/
20	CCMA_OPERALICEU01_AST-Classic_AMBIX1ST_CAST.mp4	360° video & AST	
21	CCMA_OPERALICEU01_AST-Dynamic_AMBIX1ST_EN.mp4	360° video & AST	
22	CCMA_OPERALICEU01_AST-Dynamic_AMBIX1ST_CAST.mp4	360° video & AST	
23	CCMA_OPERALICEU01_AudioIntro_AMBIX1ST_EN.mp4	Audiointro-duction	
24	CCMA_OPERALICEU01_AudioIntro_AMBIX1ST_CAST.mp4	Audiointro-duction	
Duration		00:08:29	
Restrictions for usage		Request permission for public usage	
Link			

Example frames	
360° video	
Content description	Opera “Romeo & Julietta” at Liceu Theatre (Barcelona) with 360° video content and Ambisonic audio.
Content language(s)	French
File size	3.08 GB
File format	MP4
Video codec	H264/AVC
Coding profile	Main@L6
Bit rate	48.4 MB/s
Frame rate	25 fps
Frame rate mode	Constant

Chroma subsampling	4:2:0
Bit depth	8 bits
Resolution	6400x3200
Projection	Equirectangular
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz
2D video	
Content description	Opera “Romeo & Julietta” at Liceu Theatre (Barcelona) 2D video content and ambisonic audio
Content language(s)	French
File size	635 MB
File format	MP4
Video codec	H264/AVC
Coding profile	High@L4.1
Bit rate	10.1 MB/s
Frame rate	25 fps
Frame rate mode	Constant
Chroma subsampling	4:2:0
Bit depth	8 bits
Resolution	1920x1080
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz
Subtitles	

File size	3) 18 KB	4) 17 KB	5) 17 KB	6) 18 KB	7) 18 KB	8) 18 KB
File format	EBU-TT-D					
Language(s)	3) English	4) Catalan	5) Spanish	6) German	7) Easy-to-read Spanish	8) Easy-to-read English
Signer video						
Language(s)	9) English		10) Catalan		11) Spanish	12) German
File size	9) 3.95 GB		10) 3.21 GB		11) 3.83	12) 609 MB
File format	9) MOV		10) MOV		11) MOV	12) MP4
Video codec	9) ProRes		10) ProRes		11) ProRes	12) H264/AVC
Coding profile	9) ProRes 422 HQ		10) ProRes 422 HQ		11) ProRes 422 HQ	12) High@L3.1
Bit rate	9) 68.1 MB/s		10) 55.4 MB/s		11) 66.1 MB/s	12) 1.9 MB/s
Frame rate	9) 30 fps		10) 24 fps		11) 30 fps	12) 25 fps
Frame rate mode	Constant					
Chroma subsampling	4:2:2					
Bit depth	8 bits					
Resolution	9) 1080x720		10) 1080x720		11) 1080x720	12) 600x600
Audio Description						
Language(s)	13) English	14) Spanish	15) English	16) Spanish	17) English	18) Spanish
File size	13) 15.6 MB	14) 15.6 MB	15) 15.6 MB	16) 15.6 MB	17) 15.6 MB	18) 15.6 MB
Audio codec	AAC					
Sound reproduction	1 st order ambisonics					
Audio sampling rate	48 kHz					
Audio Subtitling						
Language(s)	19) English	20) Spanish	21) English	22) Spanish	23) English	24) Spanish

File size	19) 23.8 GB	20) 23.8 GB	21) 23.8 GB	22) 23.8 GB	23) 11.6 MB	24) 10.3 MB
Audio codec	AAC					
Sound reproduction	1 st order ambisonics					
Audio sampling rate	44.1 kHz					

2.4. C04: Romeo and Juliet - Theme 2

No.	File name	Type	Used / planned for
1	CCMA_OPERALICEU02_PRORES_6400x3200_AMBIX1STWAV.mov	360° video	Demo: http://imac.i2cat.net/player//player/#1
2	CCMA_OPERALICEU02_subtitles_CAT.xml	SUB	
3	CCMA_OPERALICEU02_subtitles_DE.xml	SUB	
Duration		00:08:15	
Restrictions for usage		Request permission for public usage	
Link			
Example frames			

	
360° video	
Content description	Opera "Romeo & Julietta" at Liceu Theater (Barcelona) with 360° video content and Ambisonic audio.
Content language(s)	French
File size	52.48 GB
File format	MOV
Video codec	ProRes
Coding profile	ProRes 422 HQ
Bit rate	848 MB/s
Frame rate	25 fps
Frame rate mode	Constant
Chroma subsampling	4:2:2
Bit depth	8 bits
Resolution	6400x3200
Projection	Equirectangular
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz

Subtitles		
File size	2) 8 KB	3) 8 KB
File format	EBU-TT-D	
Language(s)	2) Catalan	3) German

2.5. C05: Desconcert - Marion Harrier

No.	File name	Type	Used / planned for
1	Havanna_PRORES422HQ_4096x4096_AMBIX1STORDERWAV.mov	360° video	Demo: http://imac.i2cat.net/player//player/#4/player/#4
2	CCMA_Desconcert Marion Harrier Havanna_subtitles_CAT.xml	SUB	
3	CCMA_Desconcert Marion Harrier Havanna_subtitles_EN.xml	SUB	
4	CCMA_Desconcert Marion Harrier Havanna_subtitles_DE.xml	SUB	
Duration		00:04:13	
Restrictions for usage		No restrictions, but always must be referenced as CCMA content.	
Link			
Example frames			

	
360° video	
Content description	Musical Concert at Sala Apolo (Barcelona, Spain) with 360 3D video content and Ambisonic audio
Content language(s)	Catalan
File size	51.2 GB
File format	MOV
Video codec	ProRes
Coding profile	ProRes 422 HQ
Bit rate	1621 MB/s
Frame rate	30 fps
Frame rate mode	Constant
Chroma subsampling	4:2:2
Bit depth	8 bits
Resolution	4096x4096
Projection	Equirectangular
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz

Subtitles			
File size	2) 15 KB	3) 16 KB	4) 16 KB
File format	EBU-TT-D		
Language(s)	2) Catalan	3) English	4) German

2.6. C06: Desconcert - Halldor Mar

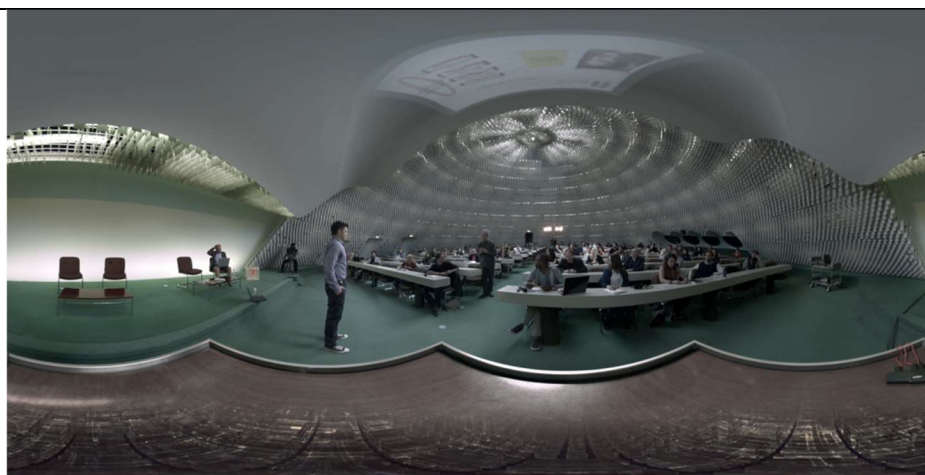
No.	File name	Type	Used / planned for
1	CCMA_Desconcert Halldor Mar Leyre_PRORES422HQ_4096x4096_AMIBX1S TORDERWAV.mov	360° video	Demo: http://imac.i2cat.net/player//player/#3/player/#3
2	CCMA_Desconcert Halldor Mar Leyre_subtitles_CAT.xml	SUB	Pilot 1: http://84.88.32.46/imacpilot1_part2/
3	CCMA_Desconcert Halldor Mar Leyre_subtitles_EN.xml	SUB	Pre-pilot 2: https://imac.gpac-licensing.com/test-ui-ger/
4	CCMA_Desconcert Halldor Mar Leyre_subtitles_DE.xml	SUB	https://imac.gpac-licensing.com/test-ui-cat/
Duration		00:04:33	
Restrictions for usage		No restrictions, but always must be referenced as CCMA content	
Link			
Example frames			

	
360° video	
Content description	Musical Concert at Sala Apolo (Barcelona, Spain) with 360° 3D video content and Ambisonic audio
Content language(s)	Catalan
File size	52.5 GB
File format	MOV
Video codec	ProRes
Coding profile	ProRes 422 HQ
Bit rate	1535 MB/s
Frame rate	30 fps
Frame rate mode	Constant
Chroma subsampling	4:2:2
Bit depth	8 bits
Resolution	4096x4096
Projection	Equirectangular
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz

Subtitles			
File size	2) 17 KB	3) 17 KB	4) 17 KB
File format	EBU-TT-D		
Language(s)	2) Catalan	3) English	4) German

2.7. C07: I, Philip

No.	File name	Type	Used / planned for
1	RBB_I Philip_H264_2160x1080_audio stereo.mp4	360° video	Used for all purposes stated in lines below
2	RBB_I Philip_subtitles_EN.xml	SUB	Demo: http://imac.i2cat.net/playertest/player/#3 Pilot 2: http://imac.i2cat.net/player_de/player/#3 https://www.rbb-online.de/unternehmen/der_rbb/profil/innovationsprojekte/projekte/imac/demoseite.html
3	RBB_I Philip_subtitles_DE.xml	SUB	Demo: http://imac.i2cat.net/playertest/ Pilot 1: http://84.88.32.46/imacpilot1/ Pre-pilot 2: https://imac.gpac-licensing.com/pilot-test1/ https://imac.gpac-licensing.com/pilot-test2/ Pilot 2: http://imac.i2cat.net/player_de/player/#3 https://www.rbb-online.de/unternehmen/der_rbb/profil/innovationsprojekte/projekte/imac/demoseite.html
4	RBB_I Philip_subtitles_CAT.xml	SUB	Demo: http://imac.i2cat.net/playertest/ Pre-pilot 2: https://imac.gpac-licensing.com/pilot-test1cat/ Pilot 2: http://imac.i2cat.net/player_de/player/#3 https://www.rbb-online.de/unternehmen/der_rbb/profil/innovationsprojekte/projekte/imac/demoseite.html

			ovationsprojekte/projekte/imac/demoseite.html
5	RBB_I Philip_subtitles_CAST.xml	SUB	UAB intermediate tests: http://84.88.32.46/UAB-test4
6	RBB_IPhilip_text-emoji_DE.xml	SUB	Pre-pilot 2: https://imac.gpac-licensing.com/pilot-test1/
7	RBB_IPhilip_text-emoji_CAT.xml	SUB	Pre-pilot 2: https://imac.gpac-licensing.com/pilot-test1cat/
8	RBB_I Philip_signer_DE.mp4	SL video	Demo: http://imac.i2cat.net/playertest/ Pre-pilot 2: https://imac.gpac-licensing.com/pilot-test2/ Pilot 2: http://imac.i2cat.net/player_de/player/#3 https://www.rbb-online.de/unternehmen/der_rbb/profil/innovationsprojekte/projekte/imac/demoseite.html
9	RBB_IPhilip_ST4SL_emoji.xml	SUB	Pre-pilot 2: https://imac.gpac-licensing.com/pilot-test2/
10	RBB_IPhilip_ST4SL_text.xml	SUB	
Duration		00:14:44	
Restrictions for usage		Do not show publicly	
Link			
Example frames			

				
360° video				
Content description	Fictional story about an AI-robot that is created after the sci-fi writer Philip K. Dick and that becomes more and more independent of his programmers. Different scenes with several speakers in different field of views. The viewer has the perspective of the robot.			
Content language(s)	English			
File size	1.01 GB			
File format	MP4			
Video codec	H264/AVC			
Coding profile	Main@L5			
Bit rate	9.8 MB/s			
Frame rate	60 fps			
Frame rate mode	Constant			
Chroma subsampling	4:2:0			
Bit depth	8 bits			
Resolution	4096x2048			
Audio codec	AAC			
Sound representation	Stereo			
Audio sampling rate	48 kHz			
Subtitles				
File size	2) 37 KB	3) 38 KB	4) 37 KB	5) 39 KB

	6) 43 KB	7) 42 KB	9) 33 KB	10) 32 KB
File format	EBU-TT-D			
Language(s)	2) English	3) German	4) Catalan	5) Spanish
	6) German	7) Catalan	9) German	10) German
Signer video				
Language(s)	German sign language			
File size	1.03 GB			
File format	MP4			
Video codec	H264/AVC			
Coding profile	Main@L3.1			
Bit rate	9.9 MB/s			
Frame rate	25 fps			
Frame rate mode	Constant			
Chroma subsampling	4:2:0			
Bit depth	8 bits			
Resolution	600x600			

2.8. C08: Making of TN

No.	File name	Type	Used / planned for
1	CCMA_MakingOfTN_H264_4096x2048_AMBIX1st_CAT.mp4	360° video	Pilot 2: https://www.ccma.cat/experiencia-immersiva-accessible/
2	CCMA_MakingOfTN_H264_4096x2048_2D_AMBIX1st_CAT.mov	2D video	
3	CCMA_MakingOfTN_subtitles_CAT.xml	SUB	
Duration		00:14:24	
Restrictions for usage		No restrictions, but always must be referenced as CCMA content.	
Link			

Example frames	 
360° video	
Content description	Documentary: Making-of video of the daily news programme at TV3
Content language(s)	Catalan
File size	1.56 GB
File format	MP4
Video codec	H264/AVC
Coding profile	Main@L5.1
Bit rate	15.3 MB/s
Frame rate	25 fps
Frame rate mode	Constant
Chroma subsampling	4:2:0

Bit depth	8 bits
Resolution	4096x2048
Projection	Equirectangular
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz
2D video	
Content description	Documentary: Making-of video of the daily news programme at TV3
Content language(s)	Catalan
File size	11.3 GB
File format	MP4
Video codec	ProRes
Coding profile	422
Bit rate	111 MB/s
Frame rate	25 fps
Frame rate mode	Constant
Chroma subsampling	4:2:2
Bit depth	8 bits
Resolution	1920x1080
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz
Subtitles	
File size	61 KB

File format	IMSC1
Language(s)	Catalan

2.9. C09: Making of FAQs

No.	File name	Type	Used / planned for
1	CCMA_MakingOfFAQs_H264_4096x2048_A MBIX1st.mp4	360° video	Pilot 2: https://www.ccma.cat/experiencia-immersiva-accessible/
2	CCMA_MakingOfFAQs_H264_4096x2048_2D _AMBIX1st.mp4	2D video	
3	CCMA_MakingOfFAQs_subtitles_CAT.xml	SUB	
Duration		00:10:06	
Restrictions for usage		No restrictions, but always must be referenced as CCMA content.	
Link			
Example frames		 	
360° video			

Content description	Documentary: Making-of video of the FAQS ("Preguntes Freqüents") debate programme at TV3
Content language(s)	Catalan
File size	1.82 GB
File format	MP4
Video codec	H264/AVC
Coding profile	High@L5.1
Bit rate	25.5 MB/s
Frame rate	30 fps
Frame rate mode	Constant
Chroma subsampling	4:2:0
Bit depth	8 bits
Resolution	4096x2048
Projection	Equirectangular
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz
2D video	
Content description	Documentary: Making-of video of the FAQS ("Preguntes Freqüents") debate programme at TV3
Content language(s)	Catalan
File size	902 MB
File format	MP4
Video codec	AVC
Coding profile	Main@L4.1
Bit rate	12.2 MB/s

Frame rate	25 fps
Frame rate mode	Constant
Chroma subsampling	4:2:0
Bit depth	8 bits
Resolution	1920x1080
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz
Subtitles	
File size	44 KB
File format	IMSC1
Language(s)	Catalan

2.10. C10: Polonia

No.	File name	Type	Used / planned for
1	CCMA_Polonia_H264_3840x1920_AMBIX1st.mp4	360° video	Focus groups: https://youtu.be/OKBk4BHIT70 https://youtu.be/OKBk4BHIT70
2	CCMA_Polonia_subtitles_CAT.xml	SUB	
Duration		00:03:35	
Restrictions for usage		No restrictions, but always must be referenced as CCMA content.	
Link			
Example frames			

	
360° video	
Content description	Catalan comedy show with speakers at different positions.
Content language(s)	Catalan
File size	1.79 GB
File format	MP4
Video codec	H264/AVC
Coding profile	High@L5.1
Bit rate	71.2 MB/s
Frame rate	30 fps
Frame rate mode	Constant
Chroma subsampling	4:2:0
Bit depth	8 bits
Resolution	4096 x 4096
Projection	Equirectangular
Audio code	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	44.1 kHz
Subtitles	
File size	8 KB
File format	EBU-TT-D

Language(s)	Catalan
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2.11. C11: Holy Land Episode 1

No.	File name	Type	Used / planned for
1	RYOT_HolyLandE01_H264_3840x1920_AMI BX1st_EN.mp4	360° video	UAB intermediate tests: http://84.88.32.46/UAB-test2/ http://84.88.32.46/UAB-test4/ Pre-pilot 2: https://imac.gpac-licensing.com/test-ad-2-eng/
2	RYOT_HolyLandE01_AD- Classic_AMIBX1st_EN.mp4	360° video & AD	Pre-pilot 2: https://imac.gpac-licensing.com/test-ad-2-eng/
3	RYOT_HolyLandE01_AD- Static_AMIBX1st_EN.mp4	360° video & AD	
4	RYOT_HolyLandE01_AD- Dynamic_AMIBX1st_EN.mp4	360° video & AD	
5	RYOT_HolyLandE01_H264_3840x1920_AMI BX1st_CAT.mp4	360° video	Pre-pilot 2: https://imac.gpac-licensing.com/test-ad-2-cat/
6	RYOT_HolyLandE01_AD- Classic_AMIBX1st_CAT.mp4	360° video & AD	
7	RYOT_HolyLandE01_AD- Static_AMIBX1st_CAT.mp4	360° video & AD	
8	RYOT_HolyLandE01_AD- Dynamic_AMIBX1st_CAT.mp4	360° video & AD	
9	RYOT_HolyLandE01_subtitles_EN.xml	SUB	UAB intermediate tests: http://84.88.32.46/UAB-test2/ http://84.88.32.46/UAB-test4/
10	RYOT_HolyLandE01_subtitles_CAST.xml	SUB	
Duration		00:05:05	
Restrictions for usage		No restrictions, but always must be referenced as RYOT content.	
Link			
Example frames			

		
360° video		
Content description	Begin your journey into the Holy Land exploring the holiest sites in Jerusalem. Non-fiction: short travel documentary. Off-screen documentary who appears on screen sometimes.	
Content language(s)	1) German	5) Catalan
File size	735 MB	
File format	MP4	
Video codec	H264/AVC	
Coding profile	Main@L5.1	
Bit rate	19.7 MB/s	
Frame rate	30 fps	
Frame rate mode	Variable	
Chroma subsampling	4:2:0	
Bit depth	8 bits	
Resolution	3840x1920	
Projection	Equirectangular	
Audio codec	AAC	
Sound reproduction	1 st order ambisonics	
Audio sampling rate	48 kHz	
Audio Description		

Language(s)	2) English	3) English	4) English	6) Catalan	7) Catalan	8) Catalan
File size	735 MB					
Audio codec	AAC					
Sound reproduction	1 st order ambisonics					
Audio sampling rate	48 kHz					
Subtitles						
File size	9) 15 KB			10) 16 KB		
File format	EBU-TT-D					
Language(s)	9) English			10) Spanish		

2.12. C12: Holy Land Episode 2

No.	File name	Type	Used / planned for
1	RYOT_HolyLandE02_H264_4k_AMIBX1st_EN.mp4	360° video	UAB intermediate tests: http://84.88.32.46/UAB-test2/ http://84.88.32.46/UAB-test4/ Pre-pilot 2: https://imac.gpac-licensing.com/test-ad-2-eng/
2	RYOT_HolyLandE02_AD-Classic_AMIBX1st_EN.mp4	360° video & AD	Pre-pilot 2: https://imac.gpac-licensing.com/test-ad-2-eng/
3	RYOT_HolyLandE02_AD-Static_AMIBX1st_EN.mp4	360° video & AD	
4	RYOT_HolyLandE02_AD-Dynamic_AMIBX1st_EN.mp4	360° video & AD	
5	RYOT_HolyLandE02_H264_4k_AMIBX1st_CAST.mp4	360° video	Pre-pilot 2: https://imac.gpac-licensing.com/test-ad-2-cat/
6	RYOT_HolyLandE02_AD-Classic_AMIBX1st_CAST.mp4	360° video & AD	
7	RYOT_HolyLandE02_AD-Static_AMIBX1st_CAST.mp4	360° video & AD	
8	RYOT_HolyLandE02_AD-Dynamic_AMIBX1st_CAST.mp4	360° video & AD	UAB intermediate tests: http://84.88.32.46/UAB-test2/ http://84.88.32.46/UAB-test4/
9	RYOT_HolyLandE02_subtitles_EN.xml	SUB	
10	RYOT_HolyLandE02_subtitles_CAST.xml	SUB	
Duration	00:03:56		

Restrictions for usage	No restrictions, but always must be referenced as RYOT content.	
Link		
Example frames	 	
360° video		
Content description	Walk alongside the walls of Jerusalem as we pass through the gates of the Old City and end by visiting the holiest site in Judaism, the Western Wall. Off-screen documentary who appears on screen sometimes.	
Content language(s)	1) German	5) Catalan
File size	306 MB	
File format	MP4	
Video codec	H264/AVC	
Coding profile	Main@L5.1	
Bit rate	10.3 MB/s	
Frame rate	30 fps	
Frame rate mode	Variable	
Chroma	4:2:0	

subsampling						
Bit depth	8 bits					
Resolution	4096x2048					
Projection	Equirectangular					
Audio codec	AAC					
Sound reproduction	1 st order ambisonics					
Audio sampling rate	48 kHz					
Audio Description						
Language(s)	2) English	3) English	4) English	6) Catalan	7) Catalan	8) Catalan
File size	306 MB					
Audio codec	AAC					
Sound reproduction	1 st order ambisonics					
Audio sampling rate	48 kHz					
Subtitles						
File size	9) 20 KB			10) 21 KB		
File format	EBU-TT-D					
Language(s)	9) English			10) Spanish		

2.13. C13: Holy Land Episode 3

No.	File name	Type	Used / planned for
1	RYOT_HolyLandE03_H264_3840x1920_AMIBX1st_EN.mp4	360° video	Pre-pilot 2: https://imac.gpac-licensing.com/test-ad-2-eng/
2	RYOT_HolyLandE03_AD-Classic_AMIBX1st_EN.mp4	360° video & AD	
3	RYOT_HolyLandE03_AD-Static_AMIBX1st_EN.mp4	360° video & AD	
4	RYOT_HolyLandE03_AD-Dynamic_AMIBX1st_EN.mp4	360° video & AD	
5	RYOT_HolyLandE02_H264_3840x1920_AMIB	360° video	Pre-pilot 2:

	X1st_CAT.mp4		https://imac.gpac-licensing.com/test-ad-2-cat/
6	RYOT_HolyLandE03_AD-Classic_AMIBX1st_CAT.mp4	360° video & AD	
7	RYOT_HolyLandE03_AD-Static_AMIBX1st_CAT.mp4	360° video & AD	
8	RYOT_HolyLandE03_AD-Dynamic_AMIBX1st_CAT.mp4	360° video & AD	
Duration		00:04:02	
Restrictions for usage		No restrictions, but always must be referenced as RYOT content.	
Link			
Example frames		 	
360° video			
Content description		Come closer than ever before to the place where Jesus was born, and walk through the Church of the Nativity. Off-screen documentary who appears on screen sometimes.	
Content language(s)		1) German	5) Catalan
File size		287 MB	
File format		MP4	

Video codec	H264/AVC					
Coding profile	Main@L5.1					
Bit rate	20 MB/s					
Frame rate	30 fps					
Frame rate mode	Variable					
Chroma subsampling	4:2:0					
Bit depth	8 bits					
Resolution	3840x1920					
Projection	Equirectangular					
Audio codec	AAC					
Sound reproduction	1 st order ambisonics					
Audio sampling rate	48 kHz					
Audio Description						
Language(s)	2) English	3) English	4) English	6) Catalan	7) Catalan	8) Catalan
File size	287 MB					
Audio codec	AAC					
Sound reproduction	1 st order ambisonics					
Audio sampling rate	48 kHz					

2.14. C14: Holy Land Episode 4

No.	File name	Type	Used / planned for
1	RYOT_HolyLandE04_H264_3840x1920_AMIBX1st_EN.mp4	360° video	Pre-pilot 2: https://imac.gpac-licensing.com/test-ad-2-eng/
2	RYOT_HolyLandE04_AD-Classic_AMIBX1st_EN.mp4	360° video & AD	
3	RYOT_HolyLandE04_H264_3840x1920_AMIBX1st_CAT.aac	360° video	Pre-pilot 2: https://imac.gpac-licensing.com/test-ad-2-eng/

4	RYOT_HolyLandE04_AD-Classic_AMIBX1st_CAT.aac	360° video & AD	licensing.com/test-ad-2-cat/
Duration	00:04:13		
Restrictions for usage	No restrictions, but always must be referenced as RYOT content.		
Link			
Example frames	 		
360° video			
Content description	Witness the wall separating Israel and Palestine, then tour the modern cities of Tel Aviv and Jerusalem. Off-screen documentary who appears on screen sometimes.		
Content language(s)	1) German	3) Catalan	
File size	520 MB		
File format	MP4		
Video codec	H264/AVC		
Coding profile	Main@L5.1		
Bit rate	16.7 MB/s		
Frame rate	30 fps		

Frame rate mode	Variable	
Chroma subsampling	4:2:0	
Bit depth	8 bits	
Resolution	3840x1920	
Projection	Equirectangular	
Audio codec	AAC	
Sound reproduction	1 st order ambisonics	
Audio sampling rate	44.1 kHz	
Audio Description		
Language(s)	2) English	4) Catalan
File size	15.5 MB	
Audio codec	AAC	
Sound reproduction	1 st order ambisonics	
Audio sampling rate	44.1 kHz	

2.15. C15: Crime Scene Investigation

No.	File name	Type	Used / planned for
1	RBB_CrimeScene_H264_4K_AMBIX1st.mp4	360° video	Demo: http://imac.i2cat.net/playertest/player/#8 Pilot 2: http://imac.i2cat.net/player_de/player/#8 https://www.rbb-online.de/unternehmen/der_rbb/profil/innovationsprojekte/projekte/imac/demoseite.html
2	RBB_CrimeScene_subtitles_EN.xml	SUB	
3	RBB_CrimeScene_subtitles_DE.xml	SUB	
4	RBB_CrimeScene_ST4SL_DE.xml	SUB	
5	RBB_CrimeScene_scene1_OBA_complete_ADM_file.wav	Additional audio track	Show case for OBA production
Duration		00:29:15	

Restrictions for usage	Do not show publicly
Link	
Example frames	
360° video	
Content description	Fictional crime scene investigation about a murder in a carpark and a robbery at a jeweller. Different scenes with several speakers in different field of views.
Content language(s)	German
File size	14.16 GB
File format	MP4
Video codec	H264/AVC
Coding profile	Main@L5.1
Bit rate	20.1 MB/s
Frame rate	30 fps
Frame rate mode	Constant
Chroma subsampling	4:2:0
Bit depth	8 bits

Resolution	3840x1920		
Audio codec	AAC		
Sound representation	1 st order ambisonics		
Audio sampling rate	48 kHz		
Subtitles			
File size	2) 107 K	3) 71 KB	4) 12 KB
File format	EBU-TT-D		
Language(s)	2) English	3) German	4) German
Signer video			
Language(s)	German sign language		
File size	501 MB		
File format	MP4		
Video codec	H264/AVC		
Coding profile	Main@L3.1		
Bit rate	2.39 MB/s		
Frame rate	30 fps		
Frame rate mode	Constant		
Chroma subsampling	4:2:0		
Bit depth	8 bits		
Resolution	600x600		
Additional audio content			
Language(s)	German		
File size	329 MB		
File format	ADM		
Audio sampling rate	44.1 kHz		

2.16. C16: Foxfinder

No.	File name	Type	Used / planned for
1	IRT_Foxfinder_H264_4K_ambix1st order.mp4	360° video	Demo: http://subtitling.irt.de/vr_edit/foxfinder_sample/ http://subtitling.irt.de/vr_edit/subtitle_demo/
2	IRT_Foxfinder_subtitles_EN.xml	SUB	
3	IRT_Foxfinder_subtitles_DE.xml	SUB	
Duration		00:00:53	
Restrictions for usage		Content may be used by IRT for research and demonstrations only	
Link			
Example frames			
360° video			
Content description		Shot from a theatre play. Only one shot, no cuts. Two people discussing, sitting on a wooden cone. A third person enters the scene, but stays in the dark.	
Content language(s)		German	
File size		1.58 GB	
File format		MP4	
Video codec		H264/AVC	
Frame rate		25 fps	
Resolution		4096x2048	
Audio codec		AAC	
Sound representation		1 st order ambisonics	

Audio sampling rate	48 kHz	
Subtitles		
File size	2) 11 KB	3) 11 KB
File format	IMSC	
Language(s)	2) German	4) English

2.17. C17: Diada Sant Jordi

No.	File name	Type	Used / planned for
1	CCMA_StJordi_H264_4096x2048_AMBIX1st.mp4	360° video	Pilot 2: https://www.ccma.cat/experiencia-immersiva-accessible/
2	CCMA_StJordi_H264_4096x2048_2D_AMBIX1st.mp4	2D video	
3	CCMA_StJordi_subtitles_CAT.xml	SUB	
Duration		00:08:31	
Restrictions for usage		No restrictions, but always must be referenced as CCMA content.	
Link			
Example frames			

	
360° video	
Content description	News Documentary: Diada St Jordi 2019 special program at TV3
Content language(s)	Catalan
File size	1.59 GB
File format	MP4
Video codec	H264/AVC
Coding profile	High@L5.1
Bit rate	26.5 MB/s
Frame rate	30 fps
Frame rate mode	Constant
Chroma subsampling	4:2:0
Bit depth	8 bits
Resolution	4096x2048
Projection	Equirectangular
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz
2D video	

Content description	News Documentary: Diada St Jordi 2019 special program at TV3
Content language(s)	Catalan
File size	1.72 GB
File format	MP4
Video codec	AVC
Coding profile	High@L4.2
Bit rate	28.6 MB/s
Frame rate	25 fps
Frame rate mode	Constant
Chroma subsampling	4:2:0
Bit depth	8 bits
Resolution	1920x1080
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz
Subtitles	
File size	44 KB
File format	IMSC1
Language(s)	Catalan

2.18. C18: Cuines

No.	File name	Type	Used / planned for
1	CCMA_Cuines_H264_4096x2048_AMBI X1st.mp4	360° video	Pilot 2: https://www.ccma.cat/experiencia-immersiva-accessible/
2	CCMA_Cuines_H264_4096x2048_2D_A MBIX1st.mp4	2D video	
3	CCMA_Cuines_subtitles_CAT.xml	SUB	

Duration	00:08:30
Restrictions for usage	No restrictions, but always must be referenced as CCMA content.
Link	
Example frames	
360° video	
Content description	Leisure: One episode of the cooking program 'Cuines' at TV3
Content language(s)	Catalan
File size	1.78 GB
File format	MP4
Video codec	H264/AVC
Coding profile	High@L5.1
Bit rate	30 MB/s
Frame rate	30 fps
Frame rate mode	Constant

Chroma subsampling	4:2:0
Bit depth	8 bits
Resolution	4096x2048
Projection	Equirectangular
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz
2D video	
Content description	Leisure: One episode of the cooking program 'Cuines' at TV3
Content language(s)	Catalan
File size	658 MB
File format	MP4
Video codec	AVC
Coding profile	High@L4
Bit rate	10.6 MB/s
Frame rate	25 fps
Frame rate mode	Constant
Chroma subsampling	4:2:0
Bit depth	8 bits
Resolution	1920x1080
Audio codec	AAC
Sound reproduction	1 st order ambisonics
Audio sampling rate	48 kHz
Subtitles	

File size	31 KB
File format	IMSC1
Language(s)	Catalan

2.19. C19: American Guelaguetza

No.	File name	Type	Used / planned for
1	RYOT_Guelaguetza_H264_4k_stereo.mp4	360° video	UAB intermediate tests: http://84.88.32.46/UAB-test2
2	RYOT_Guelaguetza_subtitles_EN.xml	SUB	
3	RYOT_Guelaguetza_subtitles_CAST.xml	SUB	
Duration		00:07:58	
Restrictions for usage		No restrictions, but always must be referenced as RYOT content.	
Link			
Example frames			
360° video			

Content description	Documentary, food, cooking, United States, immigration	
Content language(s)	English	
File size	1.29 GB	
File format	MP4	
Video codec	H264/AVC	
Coding profile	High@L5.2	
Bit rate	22.8 MB/s	
Frame rate	30 fps	
Frame rate mode	Constant	
Chroma subsampling	4:2:0	
Bit depth	8 bits	
Resolution	4096 x 4096	
Projection	Equirectangular	
Audio code	AAC	
Sound reproduction	Stereo	
Audio sampling rate	48 kHz	
Subtitles		
File size	29 KB	31 KB
File format	EBU-TT-D	
Language(s)	German	Spanish