

MMS

Media Management System

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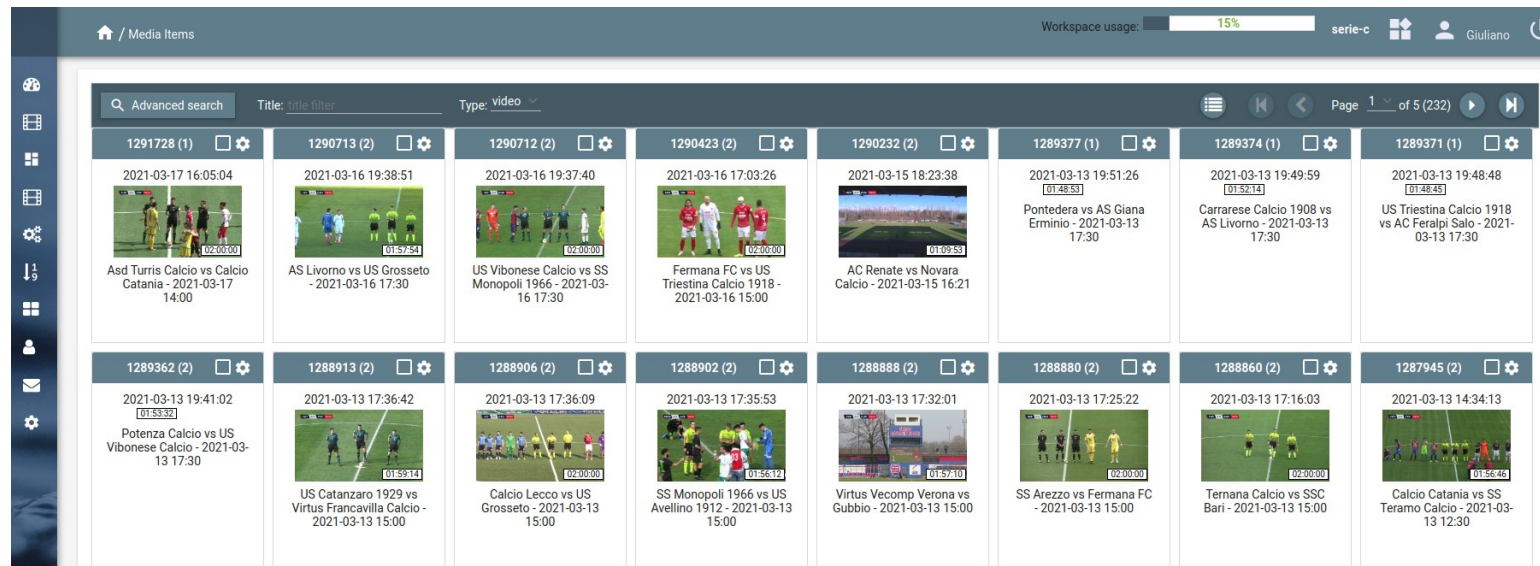
<https://gui.cloud-mms.com>

Main functionalities

- Digital Asset Management
- Workflow management
- Editing/processing functionalities
- Media Contents
- Recording application
- Transcoding engine
- Multiple interfaces

Digital Asset Management (1/2)

- MMS is the cloud option to centralize and organize your Media Content: Video, Audio, Images
- MMS thumbnail Media Items view is very visual and easily accessible, no matter the size of your media library, MMS helps you to keep it manageable
- List view is also available to help you to sort media contents based on information such as title and upload date

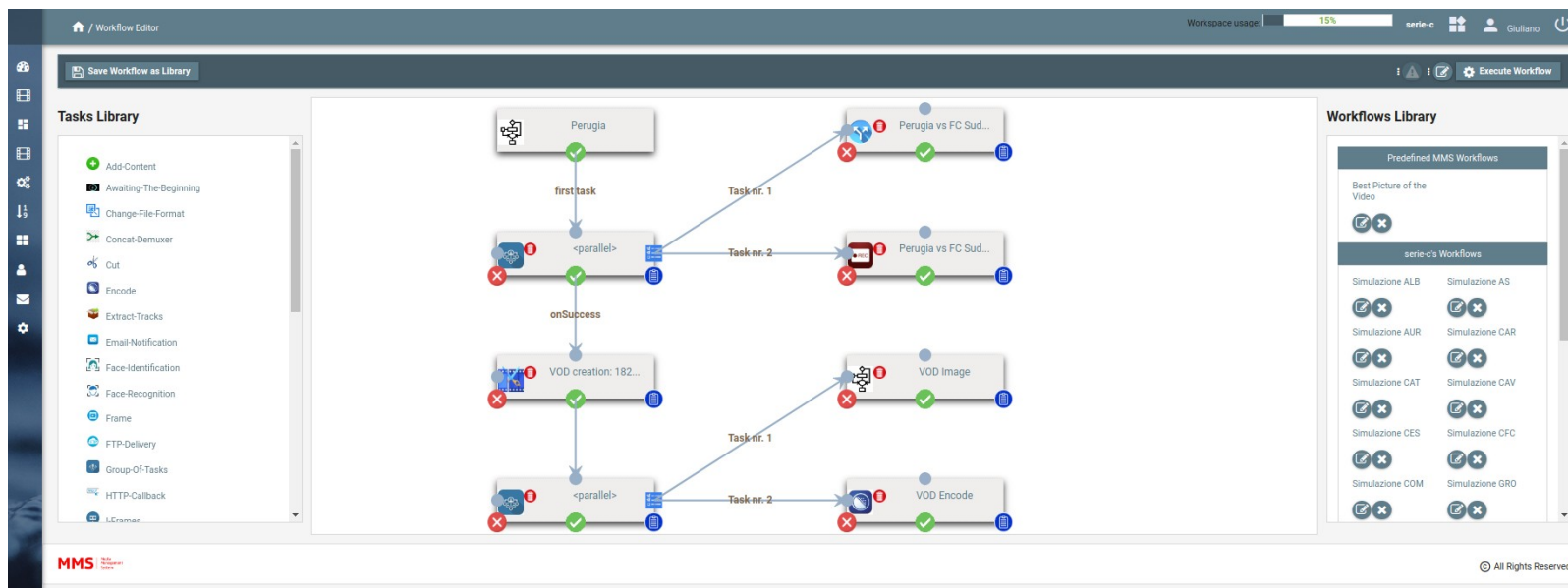


Digital Asset Management (2/2)

- MMS does not require any IT support
- MMS allows you to group Media Contents in Workspaces. For example you might have a Workspace to save all the *News* Media Contents accessible only by the News Editorial Team, same can be done for other type of contents like Sports, ...
- Upload of Media Contents is done easily by drag and drop or providing a URL to upload the content. In caso of videos too large it is also possible to upload the content splitting it in chunks
- Metadata can be associated to each media content: title, tags, description and any user data information.
- Metadata can be used to will help you to find the media contents

Workflow management

- Workflow defined by the user
- Library of predefined Task
- Task Library can be extendable
- Parallel execution of multiple Workflows
- Management of synchronous and asynchronous Tasks
- Definition of Workflows by API
- Definition of Workflows by Web Interface



Editing/processing functionalities

- Video-Audio Cut and Concat (Frame Accurate)
- Image crop
- Face detection (ex: thumbnails generation) and learning
- Face recognition
- Audio extraction/Processing
- Video-Audio Slow Down
- Video Slide show
- Picture in Picture
- Overlay of image-text
- Live Mosaic
- Live Proxy
- Change file format
- Frame extraction/Processing
- Count-down video creation
- Motion JPEG
- Media Cross References
- POST on Facebook
- POST on YouTube
- FTP delivery
- HTTP callback
- Email-notification

Media Contents

- Live Stream Cloud Ingest (UDP, RTP, SRT, RTMP, HTTP HLS, ...)
- Direct HD SDI Ingest
- H264, H265, ...
- Multi resolution ingest
- Live-VOD scalability: unlimited
- Live2VOD capabilities: use of live streams to provide VOD catch up
- Editing/Export/Publishing of Media Contents

Upload Media Content

Load Media Content by ✓ Uploading the file

Choose or drag and drop the media content + Choose

Title	<input type="text"/>
File name	<input type="text"/>
Tags	<input type="text"/>
Unique name	<input type="text"/>
Retention	<input type="text" value="3d"/>

Reset Ingest Media Content into MMS

MMS Media Management System

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Recording application

- Easy way to record IP live feed (UDP, RTP, SRT, RTMP, HTTP HLS, ecc)
- Preview of each recording
- VOD available for editing during the recording up to 10 seconds from real time
- Scheduling of recording

The screenshot displays the MMS Recorder application interface. At the top, there is a navigation bar with a home icon, the text "/ Recorder", and a workspace usage indicator showing 15%. The main content area is divided into three sections:

- Recording Title:** "Perugia vs FC Sudtiroi".
- Preview:** A live video feed of a football match. The stadium seating is red with "PERUGIA" written in white. The score is "PER 0-0 SUD 00:00".
- Metadata:**
 - Title: Perugia vs FC Sudtiroi
 - Channel: 182521
 - Start: 2021-03-21 11:45:00
 - End: 2021-03-21 14:30:00
 - Copy URL: [Copy icon]
 - Created by: Giuliano

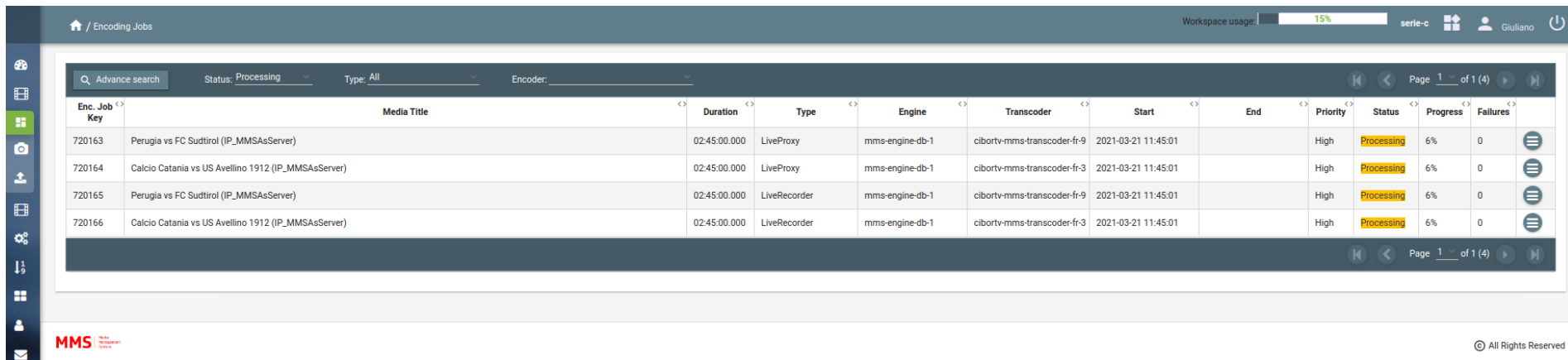
Below the main content is a "Planned Recording List" section. It features a table with columns for Key, Ingestor, Title, Channel, Start, End, and Virtual VOD. The table shows two recordings:

Key	Ingestor	Title	Channel	Start	End	Virtual VOD
182521		Perugia vs FC Sudtiroi				
219055		Calcio di Sania vs US Avellino 1912				

The interface also includes a sidebar with various icons and a footer with the MMS logo and "© All Rights Reserved".

Transcoding engine

- ffmpeg open source used by default
- Possible integration with third party transcoders
- H264/H265/... Input/Output
- Management of array of transcoders
- Management of encodings by priorities
- Load balancing of Transcoders



The screenshot displays the MMS transcoding engine management interface. At the top, there is a navigation bar with a home icon, the text "/ Encoding Jobs", a workspace usage indicator at 15%, and user information for "serie-c" and "Giuliano". Below the navigation bar is a search and filter section with "Advance search", "Status: Processing", "Type: All", and "Encoder:". The main content area features a table with the following columns: Enc. Job Key, Media Title, Duration, Type, Engine, Transcoder, Start, End, Priority, Status, Progress, Failures, and a menu icon. The table contains four rows of data, all with a status of "Processing".

Enc. Job Key	Media Title	Duration	Type	Engine	Transcoder	Start	End	Priority	Status	Progress	Failures	
720163	Perugia vs FC Sudtiroi (IP_MMSAsServer)	02:45:00.000	LiveProxy	mms-engine-db-1	cibortv-mms-transcoder-fr-9	2021-03-21 11:45:01		High	Processing	6%	0	
720164	Calcio Catania vs US Avellino 1912 (IP_MMSAsServer)	02:45:00.000	LiveProxy	mms-engine-db-1	cibortv-mms-transcoder-fr-3	2021-03-21 11:45:01		High	Processing	6%	0	
720165	Perugia vs FC Sudtiroi (IP_MMSAsServer)	02:45:00.000	LiveRecorder	mms-engine-db-1	cibortv-mms-transcoder-fr-9	2021-03-21 11:45:01		High	Processing	6%	0	
720166	Calcio Catania vs US Avellino 1912 (IP_MMSAsServer)	02:45:00.000	LiveRecorder	mms-engine-db-1	cibortv-mms-transcoder-fr-3	2021-03-21 11:45:01		High	Processing	6%	0	

The interface also includes a sidebar with various icons for navigation and a footer with the MMS logo and "© All Rights Reserved".

Multiple interfaces

- REST API: integration of all MMS functionalities
- Java MMS REST API Library
- Java MMS Workflow Library
- Secure Content delivery (token by path or parameter, TTL, max retries)
- Users' rights management (native or integration with Active Directory available)
- WEB interface