

Media Connect (Client for Archive Management)

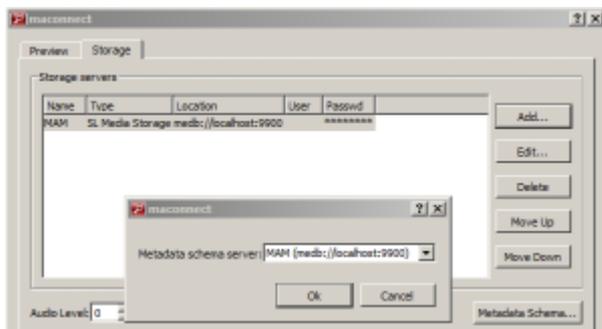


Basic work with the [MAM archive](#) is implemented through the Media Connect client application, which allows viewing/adding/deleting/editing materials, setting access rights, managing archive operations, etc.

Configuring

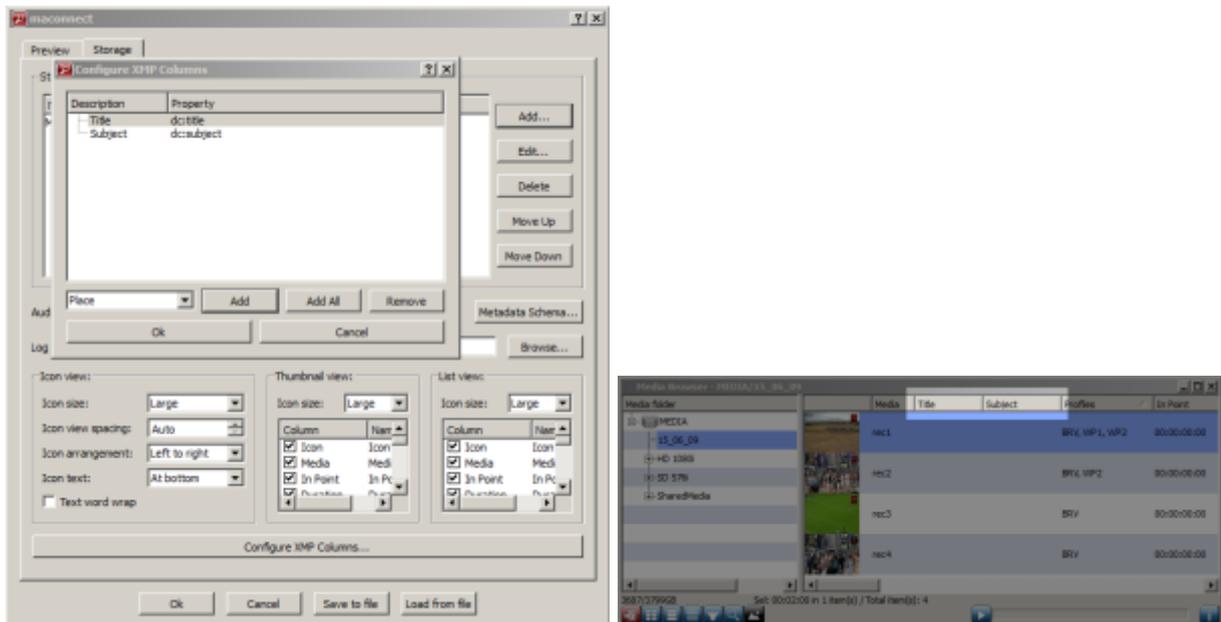
At the first launch of Media Connect, implement several settings: Media Connect→File menu→Configure→Storage tab

Connect to the database and select a metadata schema



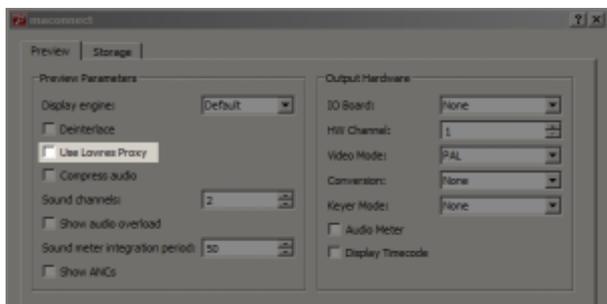
- Press Add to add the MAM server database.
- Press Metadata Schema... and select the server with a configured metadata schema from the drop-down list.

Specify metadata schema fields to be displayed in Media Browser



- Press the Configure XMP Columns... button. Select the field name from the drop-down list and press Add. Press Ok.
- Activate the selected items in Thumbnail view and List view areas.
- Values in selected fields will be displayed in corresponding columns, in the right section of the Media Browser window.
- Press Ok to save changes, or move to the next step.

Set the profile of material displayed in the File Monitor window



- Go to the Preview tab.
- The Use Lowres Proxy parameter provides a profile to be used for displaying the clip in File Monitor: ON - for LRV, OFF - for BRV. It is recommended to set this parameter to the "ON" position to reduce the network load.
- Press Ok to save changes.

Interface

The Media Connect app includes several windows:

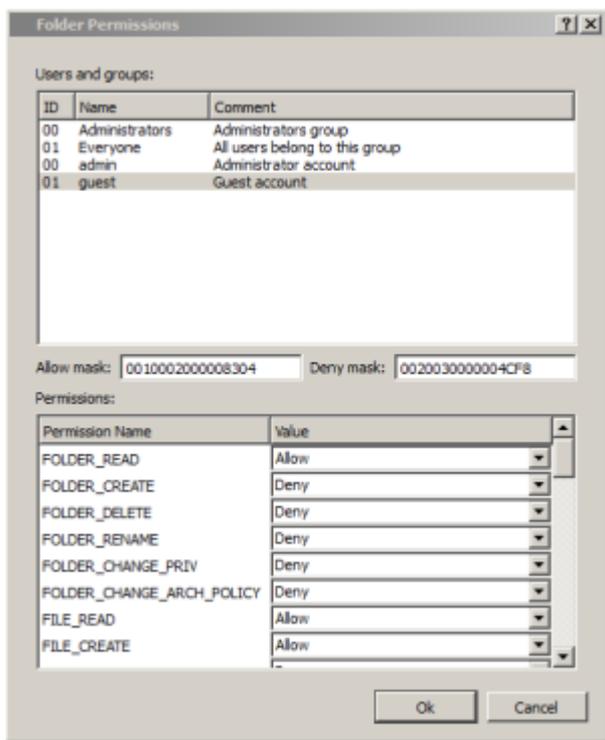
Window	Description
Media Browser	
File Monitor	Displays video and metadata for the clip selected in Media Browser. Allows setting In/Out points, key frames, etc.

Window	Description
Browser job list	The list of import/export events.
Archive Queue	The archiving queue.
Key frames	
Segment Editor	Editor of segments (special key frames).
Search Media	The tool for search in the MAM database, with filters.
Media Bins	The window for creating assets of media-clips.
Materials Sheet	Launches the metadata editor window: Clip Materials Sheet. Starting from version 2.4.54, the metadata editor window can be customized by adding user and group tabs with an individual set of editable metadata fields. The function is configured in the metadata schema.
Event Logs	The window for viewing logs of work with a database.

Database Security Policies

The Media Connect interface allows setting security policies for MAM database folders.

Media Browser window→Media Folder→Folder→Right click menu→Edit Permissions...



Parameter	Description
Users and groups	The list of users and groups. Clicking the line allows viewing/changing access rights for a certain user or group.
Allow mask/Deny mask	
Permissions	The window for setting access rights.

List of Policies

Policies, accessible only for the database root directory.

Policy Name	Description	Additional Information
USER_READ	reading user information	
USER_MANAGE	user management	
VOLUME_READ_INFO	reading MAM tree information	
METADATA_GET_SCHEMA	reading a metadata schema	If the Deny value is set, an attempt to edit metadata fields will display an empty window. A similar error may appear, if a metadata server is not selected in settings: File→Configure→Storage→Metadata Schema....
METADATA_SET_SCHEMA	recording the metadata schema	
METADATA_SET_VALUE_SETS	setting new metadata values	
MEDIABIN_LIST	receiving the list of bins	
MEDIABIN_CREATE	creating a new recycle bin	
MEDIABIN_DELETE	deleting a bin	
MEDIABIN_WRITE	recording to the bin	
MEDIABIN_READ	reading the bin content	
GC	launching garbage collection in the base	Excluded since version 2.0.176 , then included to the SYSTEM option
SYSTEM	configuring system settings and implementing system tasks	
VIEW_EVENT_LOG	access to viewing logs of work with a database.	(Media Connect→Window→Event Logs)

Policies accessible to any database directory.

Policy Name	Description	Additional Information
FOLDER_READ	reading the folder content	
FOLDER_CREATE	creating folders	
FOLDER_DELETE	deleting folders	
FOLDER_RENAME	renaming folders	
FOLDER_CHANGE_PRIV	changing user access for folders	
FOLDER_CHANGE_ARCH_POLICY	changing archiving settings for folders	
FOLDER_CHANGE_TRIGGERS	changing trigger settings for folders	Since version 2.0.188
FOLDER_CHANGE_TAGS	changing tag settings for folders	Since version 2.1.2
FILE_READ	reading files	
FILE_CREATE	creating files	

Policy Name	Description	Additional Information
FILE_DELETE	deleting files	Since version 2.0.53 , restoration from the recycle bin no longer requires FILE_DELETE rights for a folder with the bin. If the rights are absent, the clip will be restored and the link copy will stay in the bin. When using the function of deleting to the bin, the Everyone group must get FILE_CREATE and FILE_DELETE rights to the Trash folder, otherwise the following error will occur after a deletion attempt: "Error ocurred while deleting file: Permission denied".
FILE_RENAME	renaming files	
CHANGE_PURGE_TIME	changing the automatic deletion date	
FILE_TRIM	trimming a video file	
FILE_CHANGE_FIELDS	changing additional fields (user field 1..8)	
FILE_CHANGE_EXT_METADATA	changing XMP metadata	
FILE_FLUSH	deleting a HiRes file	
FILE_FLUSH	archiving a HiRes file	
FILE_RESTORE	restoring a HiRes file from the archive	
FILE_CHANGE_CERT1	changing the Reviewed status	
FILE_CHANGE_CERT2	changing the Segmented status	
FILE_CHANGE_CERT3	changing the Trimmed status	
FILE_CHANGE_CERT4	changing the Annotated status	
FILE_CHANGE_CERT5	changing the Approved status	
FILE_CHANGE_CERT6	changing the #6 status	
FILE_CHANGE_CERT7	changing the #7 status	
FILE_CHANGE_CERT8	changing the #8 status	
FILE_CHANGE_CERT9	changing the #9 status	
FILE_CHANGE_CERT10	changing the #10 status	
FILE_CHANGE_CERT11	changing the #11 status	
FILE_CHANGE_CERT12	changing the #12 status	
FILE_CHANGE_CERT13	changing the #13 status	
FILE_CHANGE_CERT14	changing the #14 status	
FILE_CHANGE_CERT15	changing the #15 status	
FILE_CHANGE_CERT16	changing the #16 status	
FILE_EDIT	editing the file	
FILE_CHECK_MEDIA	Schedule HIREs media file check	

Policy Name	Description	Additional Information
USER_PRIV_FILE_BLOCK_OVERRIDE	permission to delete clips blocked from deletion by the program channel with the activated "Block clip deletion" option	Added in version 2.2.17 .
SHORTCUT_CREATE	creating a shortcut	
SHORTCUT_DELETE	deleting a shortcut	
KEYFRAME_CHANGE_SEGMENT	editing segments	
KEYFRAME_CHANGE_SECONDARY	editing secondary events	
KEYFRAME_CHANGE_OTHER	editing other key points	
ARCHIVE_MANAGE_QUEUE	managing the archiving and restoring queue	

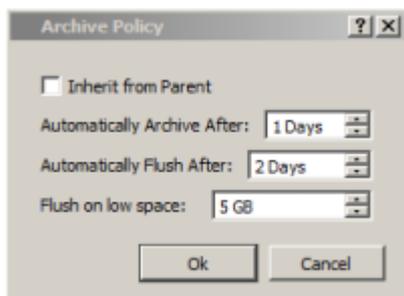
List of values:

Value	Description
Allow	Allowed
Deny	Denied
Inherent from Parent	Inherited from a parent element (catalogue)

Archiving Policies

The Media Connect interface allows setting policies of files archiving to the tape.

“Media Browser window→Media Folder→Folder→Right click menu→Archive Policy...”



Parameter	Description
Inherit from Parent	Activates inheritance of an archiving policy from a parent container (folder)
Automatically Archive After	Automatically archives files from a folder after N days. 0 - immediate archiving. Never - never archive. The time is calculated from the moment of creating the HiRes profile.
Automatically Flush After	
Flush on low space	Automatically deletes the BRV copy of a file, if less than N GB of disk space is free at the volume and the file has an ARC profile.

Folder Triggers

The function of setting triggers to database folders is added in the [2.0.188](#) version. Trigger is a

sequence of actions implemented in case of triggering the set condition.

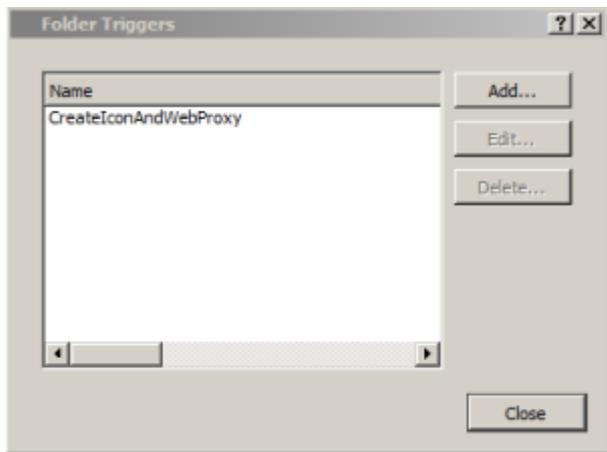
 **Compatibility Statement.** When updating existing installation note that the database format stays unchanged in case if no triggers have been created. If triggers are created, previous software versions will not be able to load databases containing triggers (before downgrading, manually delete all triggers).

Creating Trigger

Creating and editing triggers is implemented in the Media Connect app: Media Browser window→Media Folder→Target folder→Right click menu→Triggers....

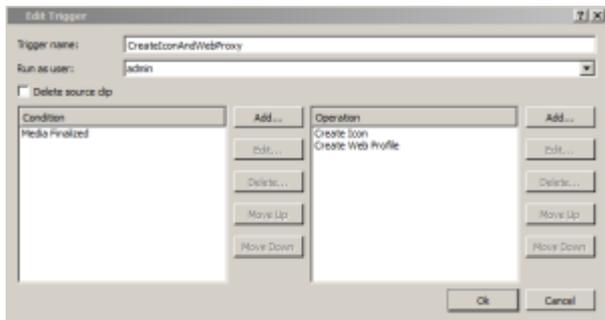
 The user must have FOLDER_CHANGE_TRIGGERS rights for a target folder. User choice is implemented in database connection settings.

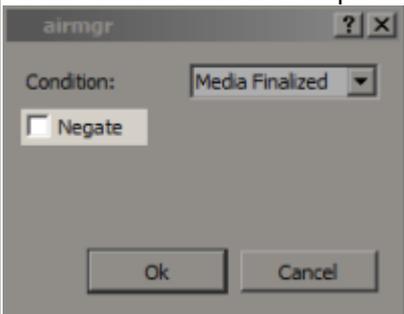
The window with a list of configured triggers of a folder



Parameter	Value
Name	The list of created triggers
Add...	Creating a new trigger
Edit...	Editing a selected trigger
Delete...	Deleting a selected trigger

The window for creating/editing a trigger



Parameter	Value
Trigger name	The displayed trigger name.
Run as user	Launching trigger operations will be implemented under the name of a database user selected in this dialogue. It is recommended to create separate users to execute trigger operations.
Delete source clip	Deletes the clip in case of successful actions(s) execution. If the clip operation is implemented through a shortcut, the app will delete the shortcut and save the original clip placed in another folder.
Condition	<p>The area of defining the trigger conditions. Conditions are added by clicking Add. If a file in the target folder satisfies the set condition, it is counted as “true”, which leads to executing an action with this file. Simultaneously activated conditions are united by the logical “AND”, creating a combined condition, where all elements must be “true” so the action is implemented.</p>  <p>The Negate parameter is a logical “NOT” that inverts the condition value (NOT TRUE = FALSE, NOT FALSE = TRUE).</p>
Operation	The area defines different file operations that will be executed, if all certain conditions in the left part will be “true”. File operations are executed consequently, starting with the first one. If an error occurs during the process, further actions are not implemented and the general execution status becomes Failed (More details on the statuses of trigger processing see below).

List of Supported Conditions

Condition	Description	Additional Parameters for Condition
None	the value is not set	no parameters
Media Finalized	File recording is completed (file does not have the PART-media status)	no parameters

Condition	Description	Additional Parameters for Condition
Has Profile	The file has a profile	<ul style="list-style-type: none"> • Profile - the profile value from the drop-down list <ul style="list-style-type: none"> ◦ HiRes (BRV) ◦ Proxy (LRV) ◦ Archive (ARC) ◦ Web Proxy 1 (WP1) ◦ Web Proxy 2 (WP2) ◦ Web Proxy 3 (WP3) ◦ Web Proxy 4 (WP4) ◦ Web Proxy 5 (WP5) ◦ Web Proxy 6 (WP6) ◦ Web Proxy 7 (WP7) ◦ Web Proxy 8 (WP8)
Has Certificate	The file has a status	<ul style="list-style-type: none"> • Certificate - the status value from the drop-down list Values for the list will be taken from metadata schema settings.

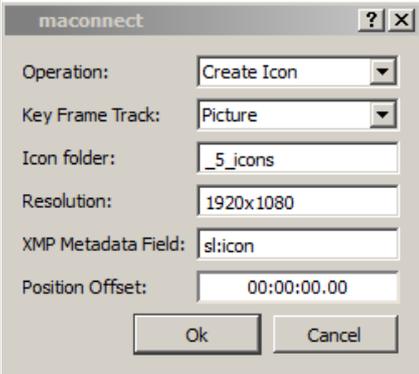
Condition	Description	Additional Parameters for Condition
<p>Metadata Field</p>	<p>The condition will be true, if a field of the basic metadata set coincides with the set mask</p>	<ul style="list-style-type: none"> • Field name - the list of values <ul style="list-style-type: none"> ◦ Media ID <ul style="list-style-type: none"> ◦ Comment <ul style="list-style-type: none"> ◦ Type <ul style="list-style-type: none"> ◦ Orig File <ul style="list-style-type: none"> ◦ Derived From <ul style="list-style-type: none"> ◦ User 1 <ul style="list-style-type: none"> ◦ User 2 <ul style="list-style-type: none"> ◦ User 3 <ul style="list-style-type: none"> ◦ User 4 <ul style="list-style-type: none"> ◦ User 5 <ul style="list-style-type: none"> ◦ User 6 <ul style="list-style-type: none"> ◦ User 7 <ul style="list-style-type: none"> ◦ User 8 <ul style="list-style-type: none"> ◦ • Value mask - the text field supporting masks. <ul style="list-style-type: none"> ◦ * - conforms any number of symbols. ◦ ? - conforms one symbol. ◦ \ - escaping special characters, such as *, ? and [◦ [] - conforms to any symbol from the set (may contain symbol ranges like [a-zA-Z0-9]). A set cannot be empty. The "]" symbol may be included to the set as the first symbol.

Condition	Description	Additional Parameters for Condition
XMP Field	The condition will be true, if the XMP metadata field coincides with the set mask	<ul style="list-style-type: none"> • Field name - the list of values, containing available XMP metadata fields loaded from the metadata schema. • Value mask - the text field supporting masks. <ul style="list-style-type: none"> ◦ * - conforms any number of symbols. ◦ ? - conforms one symbol. ◦ \ - escaping special characters, such as *, ? and [◦ [] - conforms to any symbol from the set (may contain symbol ranges like [a-zA-Z0-9]). A set cannot be empty. The "]" symbol may be included to the set as the first symbol.
XMP Date	The condition for comparing XMP fields to the Date type. The condition truth depends on a selected option of comparison in the Comparison field. Added in 2.4.54 version.	<ul style="list-style-type: none"> • Field Name - the XMP field name. • Value - the variant of comparing the XMP field to the Date field. The condition is true, if: <ul style="list-style-type: none"> ◦ Greater Than - the XMP field value is greater, than in the Date field, ◦ Less Than - the XMP field value is less, than in the Date field, ◦ Equals - the XMP field value is equal to the Date field value, ◦ Exists - the XMP field value is exists. • Date - the date in the "DD/MM/YYYY" format.
XMP Boolean	The condition for comparing XMP fields to the Boolean type. The condition is true, if the XMP metadata field value coincides with the Value field. Added in 2.4.54 version.	<ul style="list-style-type: none"> • Field Name - the XMP field name. • Value - a drop-down list supporting values: <ul style="list-style-type: none"> ◦ True - true, ◦ False - false.
Is Shortcut	The condition is true, if a file is a shortcut	no parameters
Has Del Time	The condition is true, if the Del Time value is specified for a clip (it's not endless).	no parameters

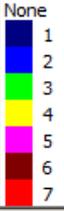
Condition	Description	Additional Parameters for Condition
Del Time Earlier	The condition is true, if the Del Time parameter is specified and set for execution in fewer days than the value specified in the Days field.	<ul style="list-style-type: none"> • Days - 0-1000 days
Has Key Frame	The condition is true, if there are set key frames of the specified type (Key Frame Track).	<ul style="list-style-type: none"> • General • Segments • Secondary Event • Cue Point • Icon • Picture

The list of supported operations.

Operation	Description	Additional Parameters for Operation
None	the value is not set	no parameters
Set Del Time	Setting the deletion time for a file. Note that a shortcut cannot have its own parameters, except location, so Del Time is applied to the basic asset of this shortcut.	<ul style="list-style-type: none"> • Days - Disabled, 1-1000 days
Create Shortcut	Creates a file shortcut in the selected folder.	<ul style="list-style-type: none"> • Folder - a text field containing a path to the folder <u>existing</u> in the database. The path is specified in the format folder1/folder2 (no slash in the end).
Create Web Profile	Creates a request for generating one of eight web-profiles of the material. The 2.0.x line includes only WP1 and WP2 profiles with fixed settings. The 2.1.x line has defined WP1-WP8 profiles with parameters configurable in the database.	<ul style="list-style-type: none"> • Profile - selecting a profile from the drop-down list: <ul style="list-style-type: none"> ◦ WP1 ◦ WP2 ◦ WP3 ◦ WP4 ◦ WP5 ◦ WP6 ◦ WP7 ◦ WP8 • Force recreate - this option sets automatic recreating profiles, if they have already been created before applying triggers. • Use separate thread -  Fix Me!

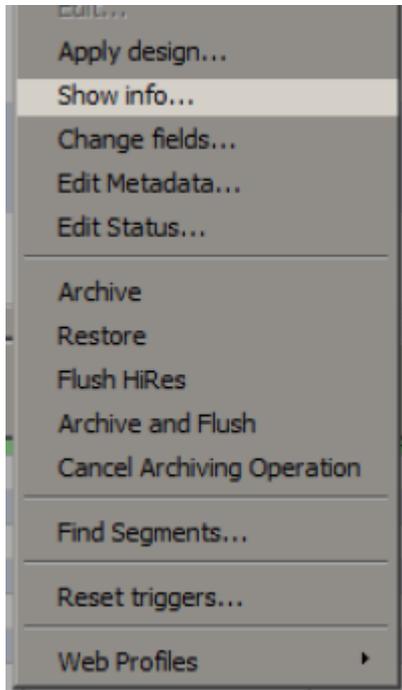
Operation	Description	Additional Parameters for Operation
<p>Create Icon</p>	<p>Creating a draft (icon or picture) for a clip displayed on the VOD portal pages.</p>	 <p>The screenshot shows a dialog box titled 'maconnect' with the following fields:</p> <ul style="list-style-type: none"> Operation: Create Icon Key Frame Track: Picture Icon folder: _5_icons Resolution: 1920x1080 XMP Metadata Field: sl:icon Position Offset: 00:00:00.00 <p>Buttons: Ok, Cancel</p> <ul style="list-style-type: none"> • Key Frame Track - the type of the required key frame: <ul style="list-style-type: none"> ◦ None - key frames are not used, the screenshot position is specified by static offset via Position Offset. • General <ul style="list-style-type: none"> ◦ Icon ◦ Picture • Icon folder - the name of a database folder for saving the draft file. The file name is generated automatically. • Resolution - specify the image size in the WxH format, where W is width in pixels and H is height in pixels. • XMP Metadata field - specify a metadata schema field for saving the link to the created draft, for instance: sl:icon or sl:picture. • Position Offset - screenshot position offset timecode.
<p>Set XMP Field</p>	<p>Specifies or clears the metadata XMP field value.</p>	<ul style="list-style-type: none"> • Field to set - selecting a field with a value to be updated. Contains available XMP metadata fields loaded from the metadata schema. • Value Source - selecting the type of a data source for filling the specified field: <ul style="list-style-type: none"> ◦ Metadata Field - selecting the field value from the basic metadata set. The Value field will display a drop-down list with names of fields from the basic metadata set. ◦ User Defined - Setting a random text value. The Value field will contain a text area for entry. Added in 2.4.54 version. ◦ Clear Field - Delete the current value from the metadata XMP field. Added in 2.4.54 version. • Value - the value depends on the Value Source setting.

Operation	Description	Additional Parameters for Operation
<p>Set XMP Date</p>	<p>Specifies or clears the metadata XMP field value with the Date type. Added in 2.4.54 version.</p>	<ul style="list-style-type: none"> • Field to set - selecting a field with a value to be updated. Contains available XMP metadata fields of the Date type, loaded from the metadata schema. • Value Source - selecting the type of a data source for filling the specified field: <ul style="list-style-type: none"> ◦ User Defined - Setting a random date text value. The Value field will contain a text area for the date entry. <ul style="list-style-type: none"> ◦ Now - set the current date. <ul style="list-style-type: none"> ◦ Clear Field - Delete the current value from the metadata XMP field. <ul style="list-style-type: none"> ◦ Value - the value depends on the Value Source setting.

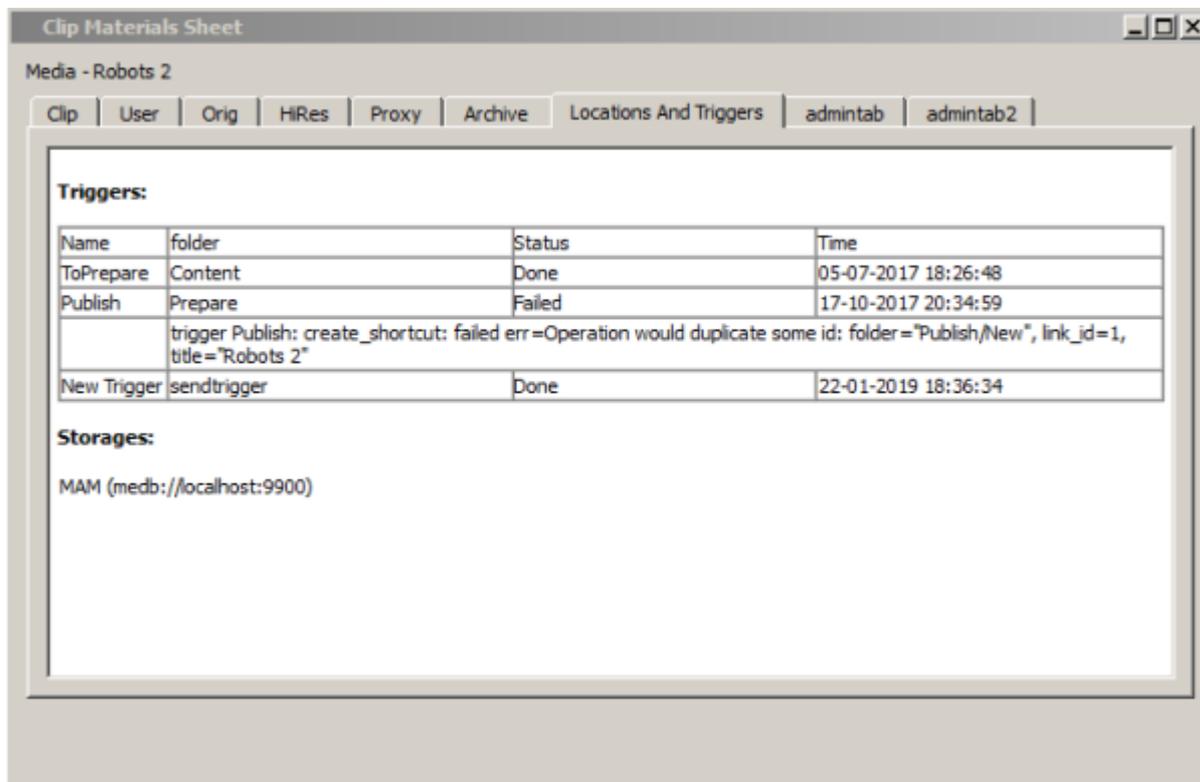
Operation	Description	Additional Parameters for Operation
Send Message	Sending a message to users via the built-in Messenger service. Added in 2.4.81 version.	<ul style="list-style-type: none"> • Recipient - The recipient name. The recipient can be a user or a group. • Title - The message title. The Insert Var button allows adding a variable to the field. • Body - The field for the text message entry. The Insert Var button allows adding a variable to the field. • Attach triggered media - attach a triggered asset to the message. • Priority - The value for setting the color marker of the message priority.  • Address - IP address of the server with the launched message service. • Messenger # - The number of the message service. The value starts with 1. • User - The username to be used in the service. The set username will be used for sending and receiving messages. The user must exist in the database specified in the Messenger service server part settings. • Password - The user password. • Insert Var - the button to add a variable to Title and Body fields. The following variables are available: <ul style="list-style-type: none"> ◦ Title ◦ In Point ◦ Out Point ◦ Duration ◦ Source Name ◦ Orig Name ◦ Orig In Point ◦ Type ◦ Comment ◦ Clip Name - clip MediaID ◦ Layer ◦ Triggered Time - time of triggering ◦ Triggered Date - date of triggering ◦ XMP поля - available XMP fields of an extended metadata set. • Related Folder - the folder containing the processed clip.

Trigger Processing Status

The triggers processing status for a specific clip (asset) can be viewed in the window: Media Connect→Window→Clip Materials Sheet→Locations And Triggers. To quickly open this window, use the Show Info item by right clicking in Media Browser.

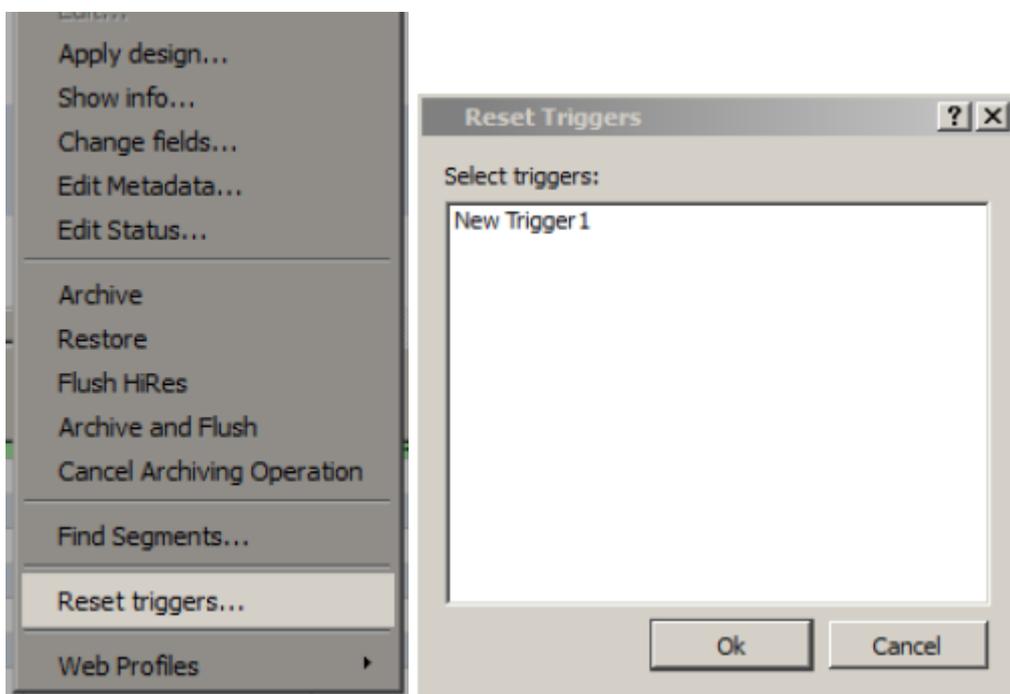


If the operation was applied to the clip through a shortcut, the trigger processing status will be displayed for the clip and all its shortcuts.



Parameter	Value
Name	Trigger name

Parameter	Value												
Folder	Name of the folder, where the trigger was configured												
Status	<p>The result of trigger actions</p> <ul style="list-style-type: none"> • Done - The action is successful. • Executing - The action is in the process of execution. • Failed - An error has occurred during the trigger action execution. One or several actions have not been executed. The error message is displayed under the status. <p>Triggers:</p> <table border="1"> <thead> <tr> <th>Name</th> <th>folder</th> <th>Status</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>CreateIconAndWebProxy</td> <td>OTK</td> <td>Failed</td> <td>10-03-2017 15:59:18</td> </tr> <tr> <td colspan="4">trigger "CreateIconAndWebProxy" failed to set XMP field</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Condition - The file does not satisfy the trigger conditions, the action is not complete. 	Name	folder	Status	Time	CreateIconAndWebProxy	OTK	Failed	10-03-2017 15:59:18	trigger "CreateIconAndWebProxy" failed to set XMP field			
Name	folder	Status	Time										
CreateIconAndWebProxy	OTK	Failed	10-03-2017 15:59:18										
trigger "CreateIconAndWebProxy" failed to set XMP field													
Time	The time of file processing												

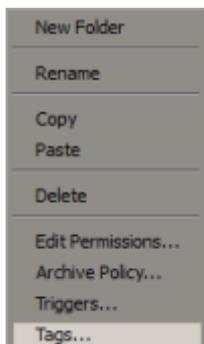


Resetting the processing status of the selected trigger is implemented by the Reset Triggers command in the Media Browser right-click menu. Select one or several triggers and press OK. Triggers with the reset status of processing will be applied to files.

Folders Metadata (Tags)

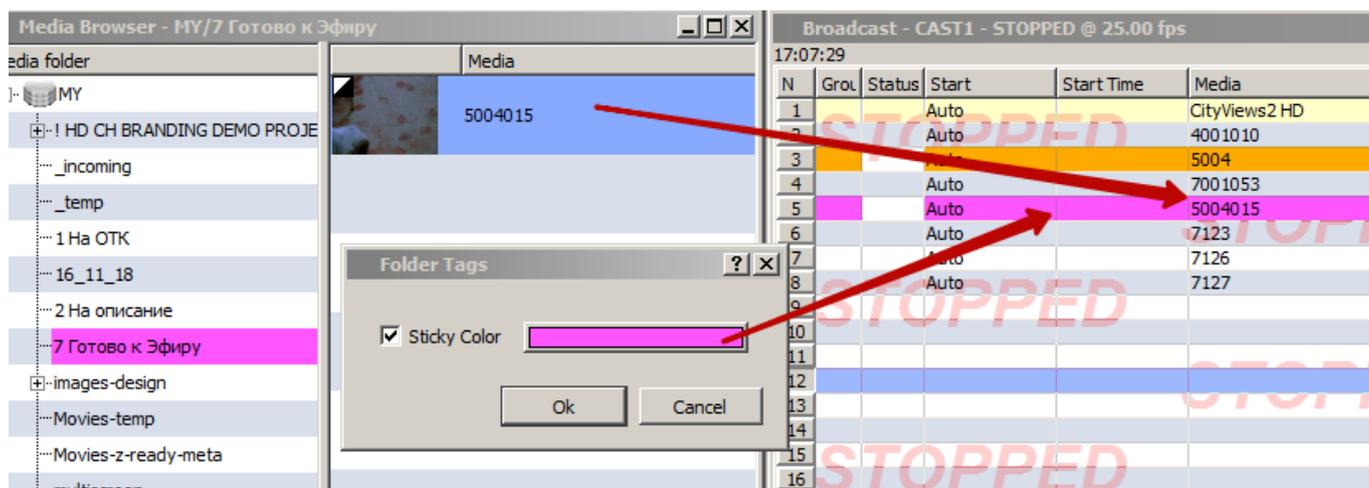
Tags have appeared since version 2.1.2, providing an option of setting additional metadata for database folders.

Creating and editing folder tags is implemented in the Media Connect app: Media Browser window→Media Folder→Target folder→Right click menu→Tags...



 The user must have FOLDER_CHANGE_TAGS rights for a target folder. User choice is implemented in database connection settings.

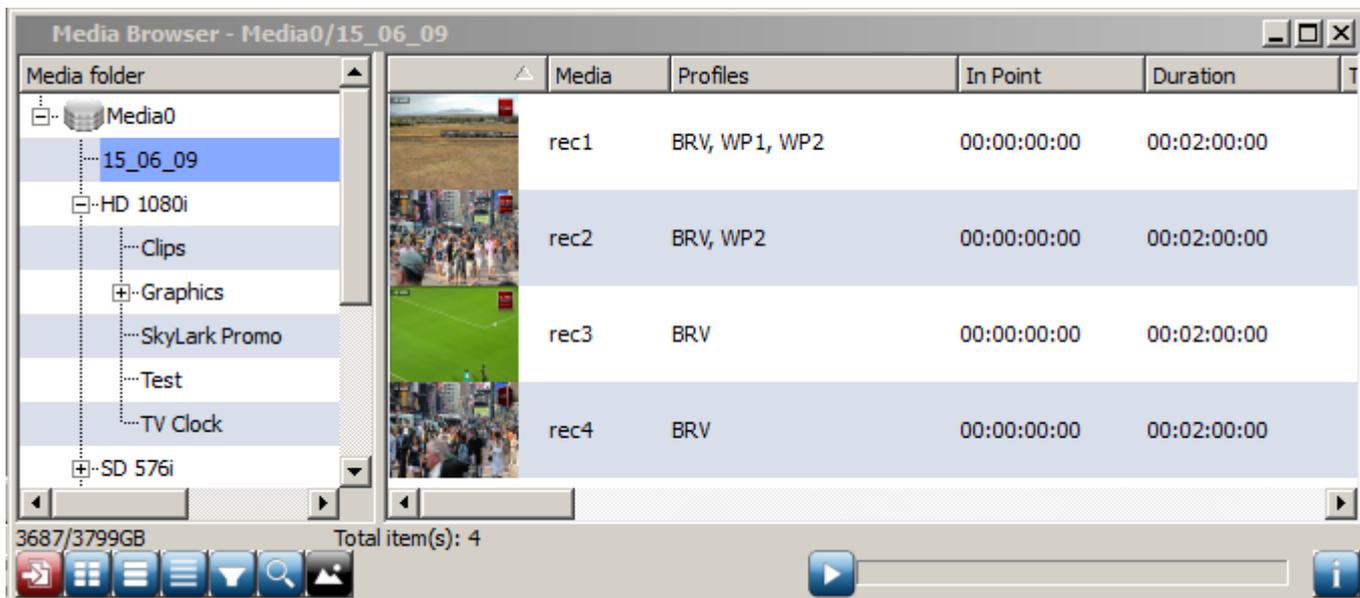
Only one tag is defined at the moment - Sticky Color. The tag allows setting the background color for playlist events, depending on the folder containing the played clip. The event background color is set in the moment of dragging the clip from Media Browser to the playlist window. When saving a playlist to a CLF file, color information is saved in the parameter `<item item_color="%23FFFFFF">`, where FFFFFF is color value as three pairs of hex digits (RGB).



Since version 2.1.22, Sticky Color also sets the background color for the folder name in Media Browser.

Video Material Profiles

One video material can be stored in the database in different versions called profiles. Available profiles are displayed in the Profiles column of the Media Browser window.

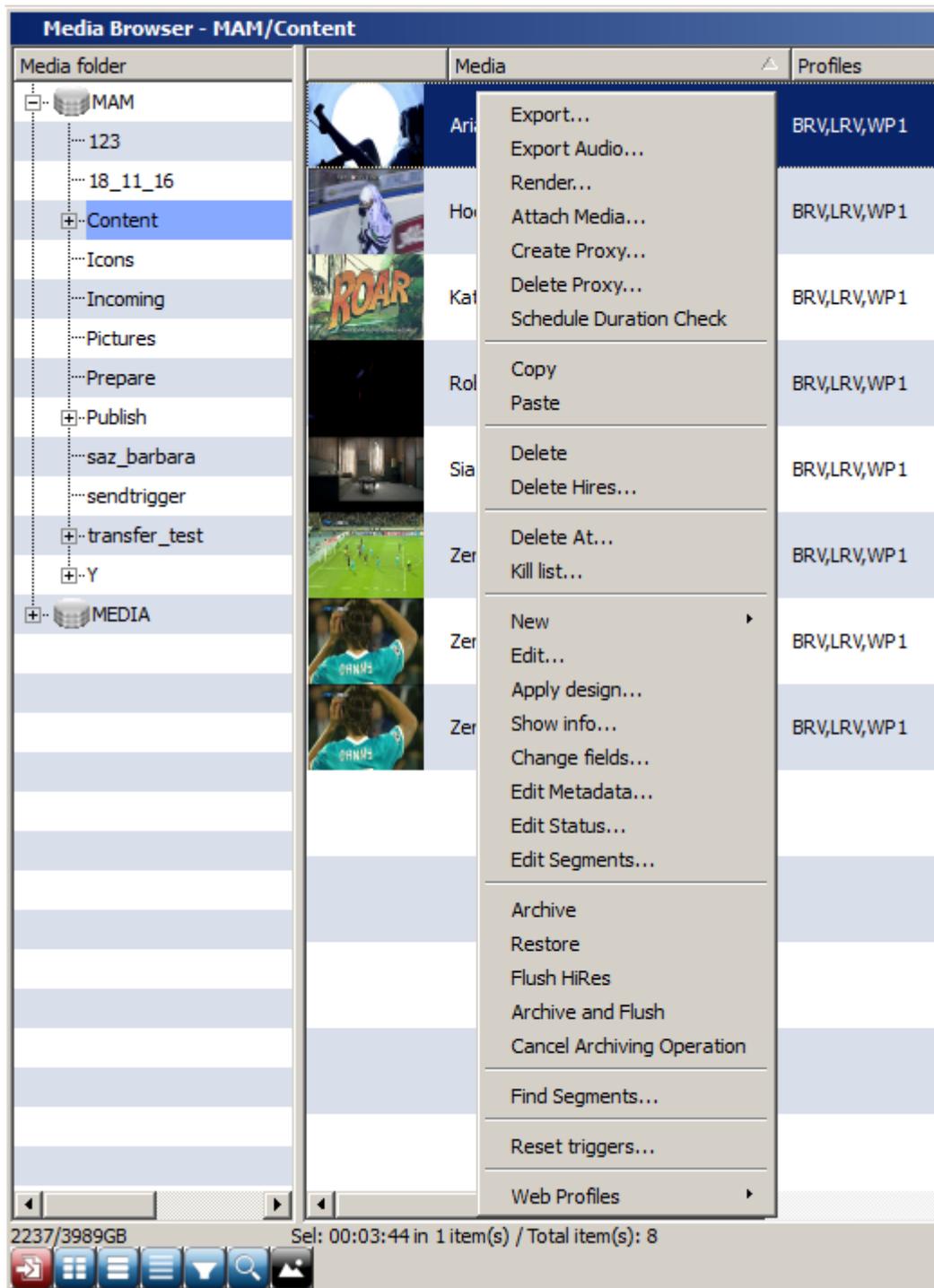


Profile name	Description
BRV	The initial video in the original quality
LRV	The database proxy-copy for online viewing in client applications
ARC	The archive copy of the original video.
WP1	The web proxy-copy.
WP2	The web proxy-copy.
WP3	The web proxy-copy. Appeared in the 2.1 product line
WP4	The web proxy-copy. Appeared in the 2.1 product line
WP5	The web proxy-copy. Appeared in the 2.1 product line
WP6	The web proxy-copy. Appeared in the 2.1 product line
WP7	The web proxy-copy. Appeared in the 2.1 product line
WP8	The web proxy-copy. Appeared in the 2.1 product line

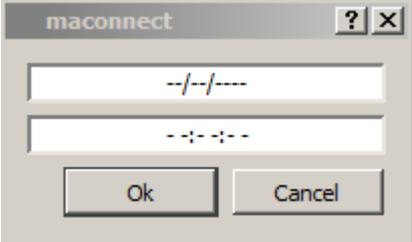
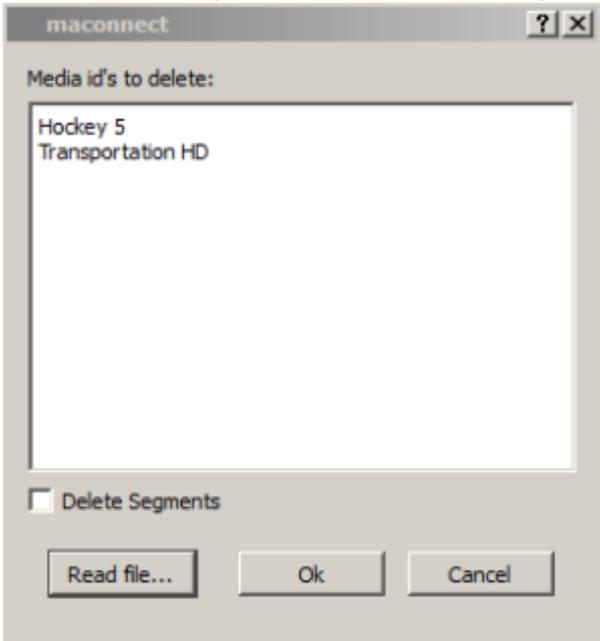
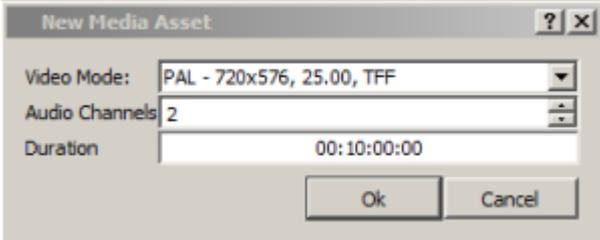
Creating and deleting WebProxy copies is available by right clicking the selected clip.

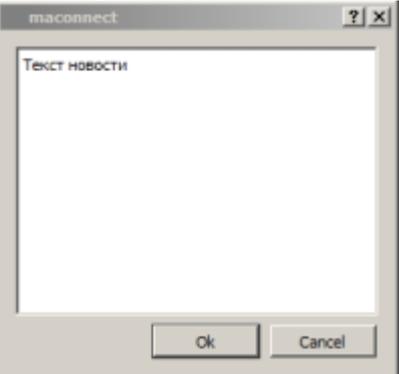
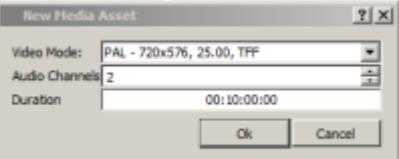
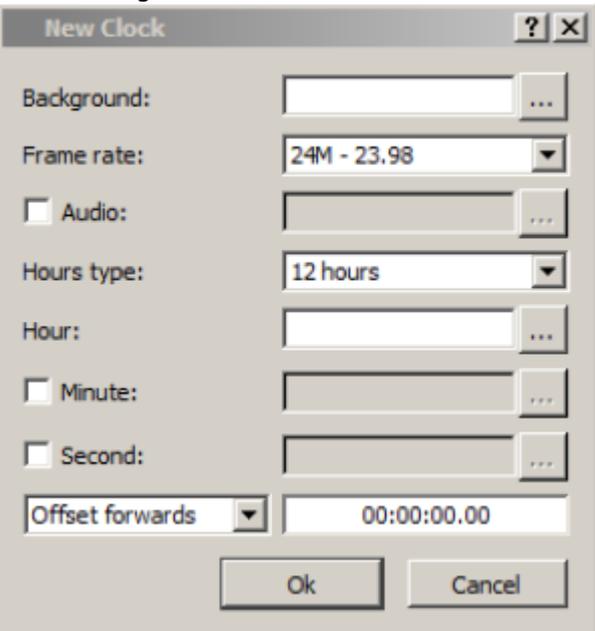
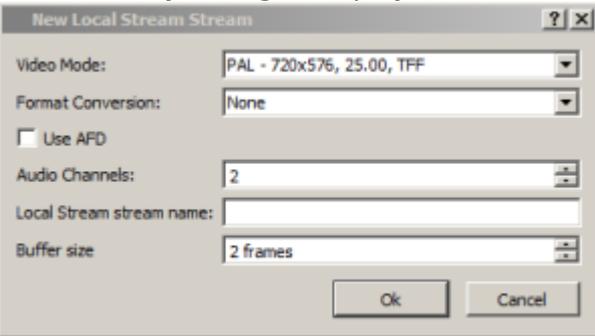
Clip Management Menu

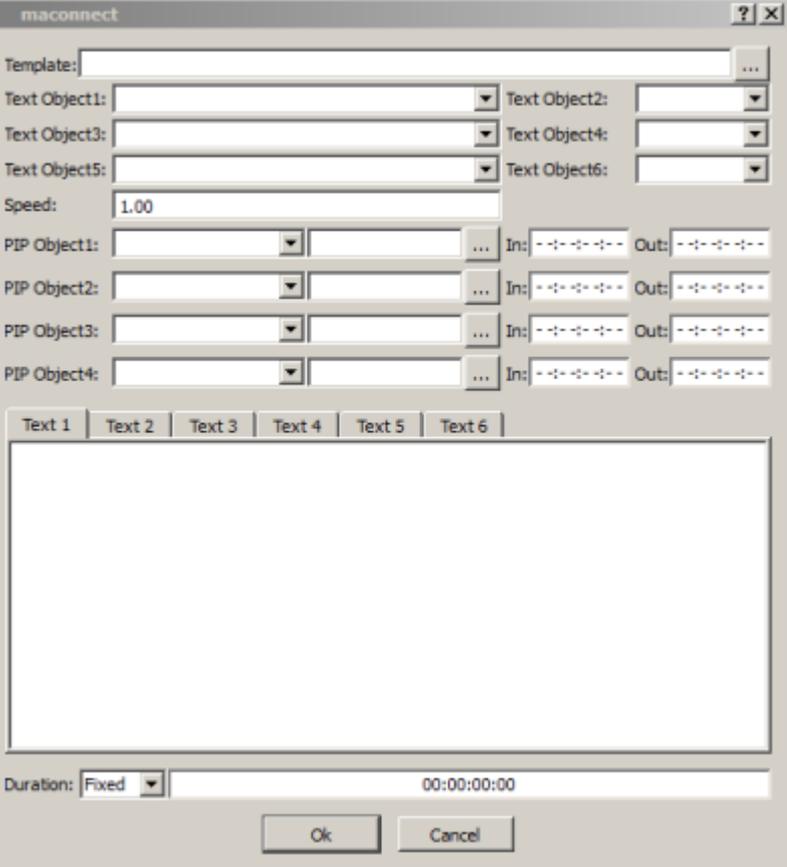
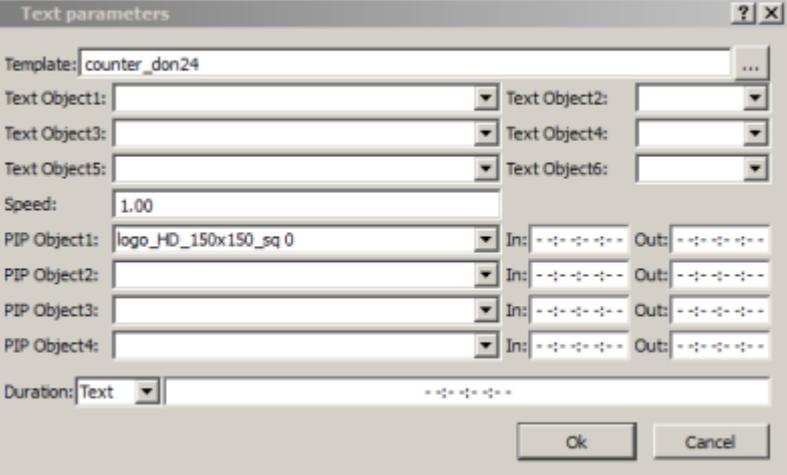
The right click menu in Media Browser gives access to different MAM functions for working with clips.

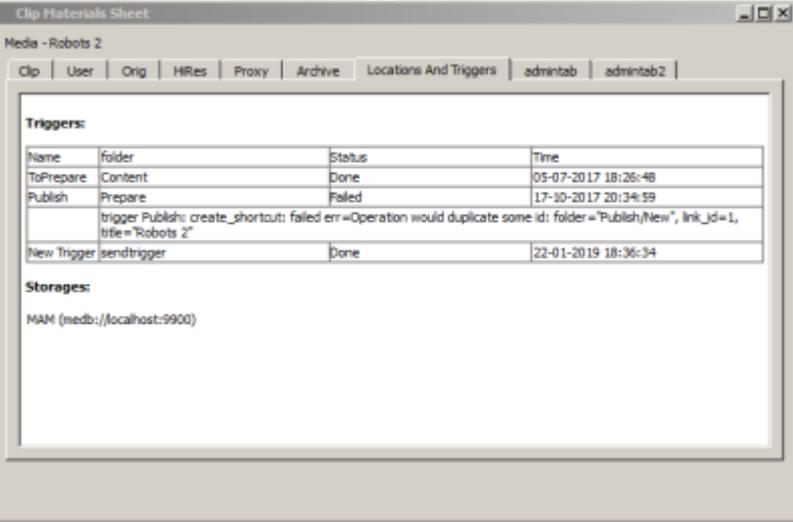
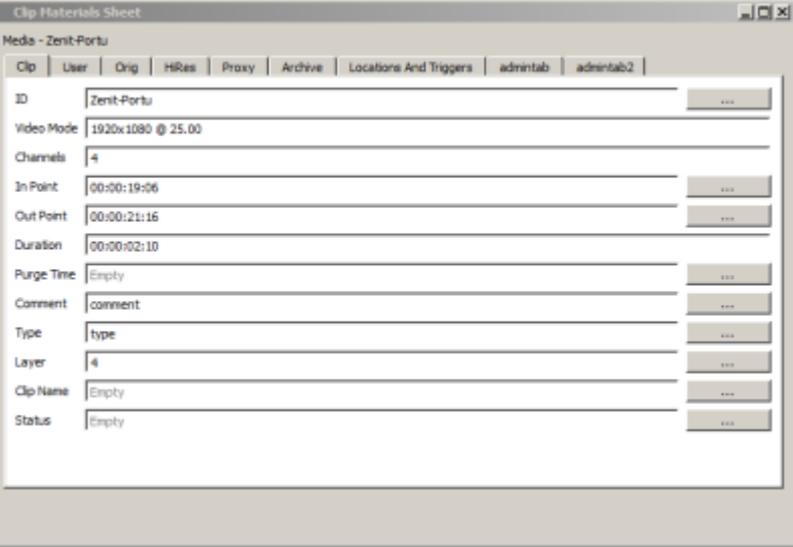
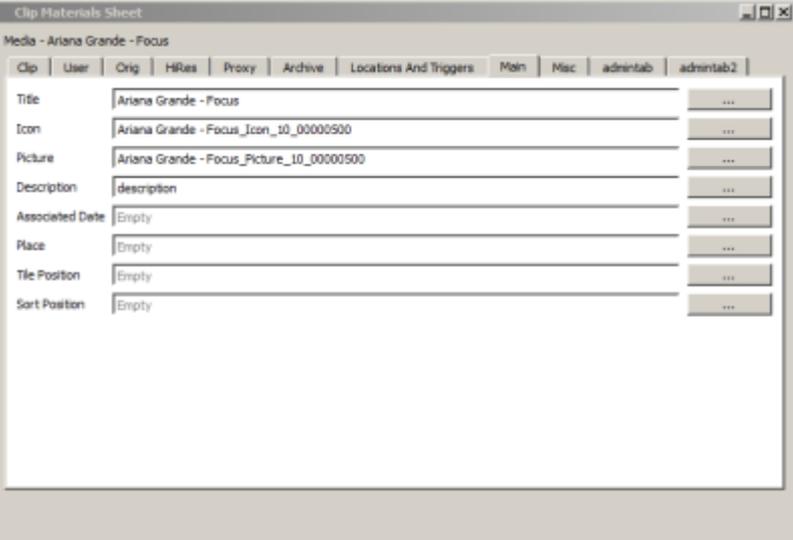


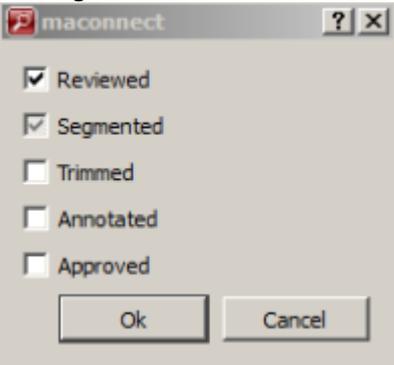
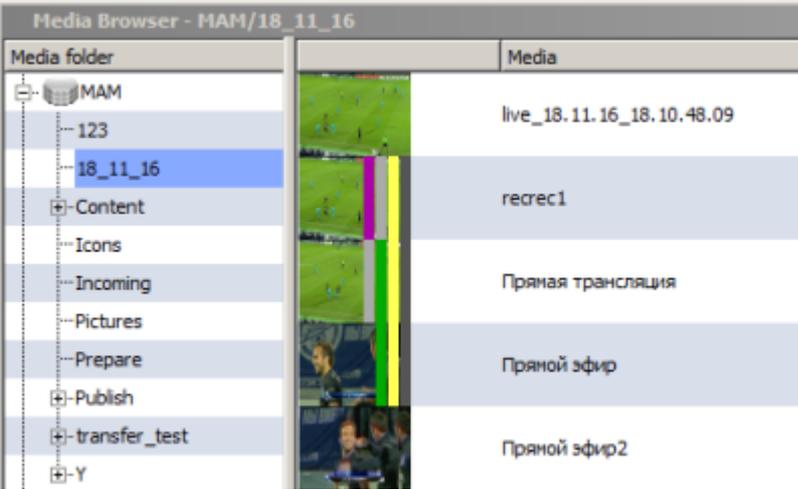
Menu item	Description
Export...	Opens an export dialog for the selected clip.
Export Audio...	Opens an audio track export dialog for the selected clip.
Render...	The option is similar to the selected clip export dialog.
Attach Media...	Connecting video materials to the selected asset.
Create Proxy...	Creates a task for forming an LRV profile for the selected clip. This option is used when a clip doesn't have an LRV proxy-copy, or if the LRV profile is in the base, but the physical proxy-copy file is absent.
Delete Proxy...	Deleting the LRV proxy-copy of a selected clip.
Schedule Duration Check	Allows forced check of BRV copy duration and updating metadata parameters according to the actual file. Added in version 2.0.36. More details .
Copy	Copying a clip in the database

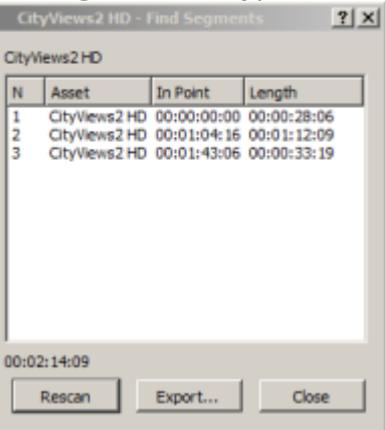
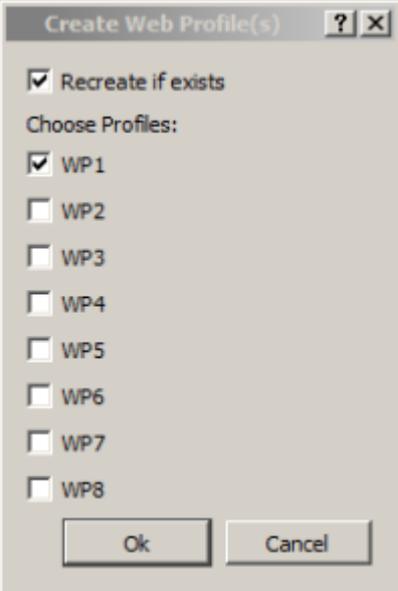
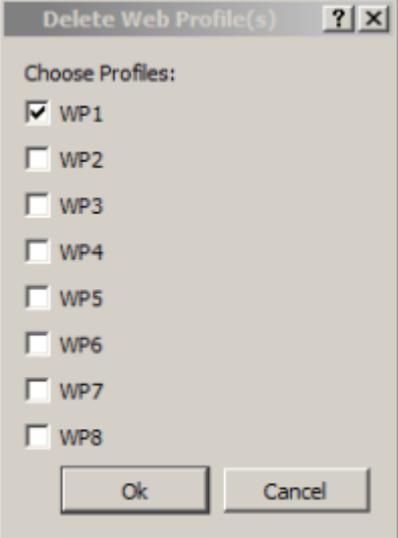
Menu item	Description
Paste	
Delete	Deletes a clip from the database (metadata, BRV and LRV). Deleting BRV from the archive folder is managed by the Enable archive copy deletion setting (see above).
Delete Hires...	Deleting the BRV proxy-copy of a selected clip. This action is irreversible.
Delete At...	<p>Setting the date and time of clip automatic deletion from the database.</p> 
Kill list...	<p>Batch deletion of files from the database. All MediaID must be listed line by line. The list may be loaded from a file by the Read file... button.</p> 
New→Media Asset...	<p>Creating a new asset with specifying the format and planned duration. Duration will be adjusted after connecting the video material and asset.</p> 

Menu item	Description
New→Note...	Creating a new news note with text input, displayed at the VOD portal. VOD . 
New→URL...	Creating a destination link to a network resource. The resource could be an Internet image, for instance. 
New→Clock...	Creating a combined clip for displaying TV clock, containing links to clips with clock background, arrows and audio. 
New→Local stream...	Creating a Live clip containing a link to the media data stream local source. (e.g. stream name: Capture_1). This technology allows playing the server input signal within a playlist. Viewing a live-clip in the File Monitor window will be available only during local playback at the server. 
New→Graphics...	Launches the graphics editor for creating a new graphic composition.

Menu item	Description
New→Text...	<p>Creating a text object containing text information for captions and referring to design templates (graphic compositions with parametrization).</p> 
Edit...	<p>Editing object settings. For example, it will open the graphics editor for a graphic object.</p>
Apply Design...	<p>Linking a design template to the text object. Text information is unavailable for editing in this window.</p> 

Menu item	Description																																				
<p>Show info...</p>	<p>Opens the Locations And Triggers tab in the Clip Materials Sheet window.</p>  <p>The screenshot shows a window titled 'Clip Materials Sheet' with the 'Locations And Triggers' tab selected. The window contains a table of triggers and a storage path.</p> <table border="1" data-bbox="443 349 1182 465"> <thead> <tr> <th>Name</th> <th>folder</th> <th>Status</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>ToPrepare</td> <td>Content</td> <td>Done</td> <td>05-07-2017 18:26:48</td> </tr> <tr> <td>Publish</td> <td>Prepare</td> <td>Failed</td> <td>17-10-2017 20:34:59</td> </tr> <tr> <td colspan="4">trigger Publish: create_shortcut: failed err=Operation would duplicate some id: folder="Publish/New", link_id=1, title="Robots 2"</td> </tr> <tr> <td>New Trigger</td> <td>sendtrigger</td> <td>Done</td> <td>22-01-2019 18:36:34</td> </tr> </tbody> </table> <p>Storages: MAM (medb://localhost:9900)</p>	Name	folder	Status	Time	ToPrepare	Content	Done	05-07-2017 18:26:48	Publish	Prepare	Failed	17-10-2017 20:34:59	trigger Publish: create_shortcut: failed err=Operation would duplicate some id: folder="Publish/New", link_id=1, title="Robots 2"				New Trigger	sendtrigger	Done	22-01-2019 18:36:34																
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<p>Change fields...</p>	<p>Opens the Clip tab in the Clip Materials Sheet window. Clip and User Tabs allow editing data in user fields of the basic metadata set. The dialog may be used for batch editing of information in the pre selected group of clips. The app will save values only for filled out fields, empty values will be ignored while saving.</p>  <p>The screenshot shows a window titled 'Clip Materials Sheet' with the 'Clip' tab selected. The window contains various metadata fields for editing.</p> <table border="1" data-bbox="421 958 1203 1361"> <tbody> <tr><td>ID</td><td>Zenit-Portu</td><td>...</td></tr> <tr><td>Video Mode</td><td>1920x1080 @ 25.00</td><td></td></tr> <tr><td>Channels</td><td>4</td><td></td></tr> <tr><td>In Point</td><td>00:00:19:06</td><td>...</td></tr> <tr><td>Out Point</td><td>00:00:21:16</td><td>...</td></tr> <tr><td>Duration</td><td>00:00:02:10</td><td></td></tr> <tr><td>Purge Time</td><td>Empty</td><td>...</td></tr> <tr><td>Comment</td><td>comment</td><td>...</td></tr> <tr><td>Type</td><td>type</td><td>...</td></tr> <tr><td>Layer</td><td>4</td><td>...</td></tr> <tr><td>Clip Name</td><td>Empty</td><td>...</td></tr> <tr><td>Status</td><td>Empty</td><td>...</td></tr> </tbody> </table>	ID	Zenit-Portu	...	Video Mode	1920x1080 @ 25.00		Channels	4		In Point	00:00:19:06	...	Out Point	00:00:21:16	...	Duration	00:00:02:10		Purge Time	Empty	...	Comment	comment	...	Type	type	...	Layer	4	...	Clip Name	Empty	...	Status	Empty	...
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Layer	4	...																																			
Clip Name	Empty	...																																			
Status	Empty	...																																			
<p>Edit Metadata...</p>	<p>Opens the first available tab with fields of the extended metadata set (fields are loaded from the connected XMP metadata schema) in the Clip Materials Sheet window.</p>  <p>The screenshot shows a window titled 'Clip Materials Sheet' with the 'Main' tab selected. The window contains extended metadata fields for editing.</p> <table border="1" data-bbox="421 1619 1203 2022"> <tbody> <tr><td>Title</td><td>Ariana Grande - Focus</td><td>...</td></tr> <tr><td>Icon</td><td>Ariana Grande - Focus_Icon_10_00000500</td><td>...</td></tr> <tr><td>Picture</td><td>Ariana Grande - Focus_Picture_10_00000500</td><td>...</td></tr> <tr><td>Description</td><td>description</td><td>...</td></tr> <tr><td>Associated Date</td><td>Empty</td><td>...</td></tr> <tr><td>Place</td><td>Empty</td><td>...</td></tr> <tr><td>Tile Position</td><td>Empty</td><td>...</td></tr> <tr><td>Sort Position</td><td>Empty</td><td>...</td></tr> </tbody> </table>	Title	Ariana Grande - Focus	...	Icon	Ariana Grande - Focus_Icon_10_00000500	...	Picture	Ariana Grande - Focus_Picture_10_00000500	...	Description	description	...	Associated Date	Empty	...	Place	Empty	...	Tile Position	Empty	...	Sort Position	Empty	...												
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Place	Empty	...																																			
Tile Position	Empty	...																																			
Sort Position	Empty	...																																			

Menu item	Description
<p>Edit Status...</p>	<p>Opens a dialog for editing statuses (certificates) in the Clip Materials Sheet window. Names and the number of statuses may be configured in the metadata schema (see above). The status condition flag may have three states:</p> <ul style="list-style-type: none"> • ON (black check mark) - the status is set, • OFF (no check mark) - the status is removed, • Indefinite condition (grey check mark) - appears in case of the group setting of statuses, when the status condition of selected clips differs. Statuses with indefinite condition are ignored, allowing for saving differences while group editing.  <p>Starting from version 2.4.58, there is an option of setting a status color in metadata schema settings. After setting a status, the clip icon gets a strip of a corresponding color.</p> 
<p>Edit Segments...</p>	<p>Opens the segment editor.</p>
<p>Archive</p>	<p>Launches the archiving process for a clip BRV profile. The archiving process is managed in the Archive Queue window.</p>
<p>Restore</p>	<p>Launches the process of restoration for a BRV profile. The restoring process is managed in the Archive Queue window.</p>
<p>Flush HiRes</p>	<p>Launches deletion of a BRV profile from the folder with HiRes originals.</p>
<p>Archive and Flush</p>	<p>The group task that combines archiving and further deletion of BRV.</p>
<p>Cancel Archiving Operation</p>	<p>Cancelling execution of the archiving operation.</p>

Menu item	Description																
Find Segments...	<p>The dialog displays all clip segments marked with key frames of Segment Start and Segment End types.</p>  <table border="1" data-bbox="427 315 790 405"><thead><tr><th>N</th><th>Asset</th><th>In Point</th><th>Length</th></tr></thead><tbody><tr><td>1</td><td>CityViews2 HD</td><td>00:00:00:00</td><td>00:00:28:06</td></tr><tr><td>2</td><td>CityViews2 HD</td><td>00:01:04:16</td><td>00:01:12:09</td></tr><tr><td>3</td><td>CityViews2 HD</td><td>00:01:43:06</td><td>00:00:33:19</td></tr></tbody></table>	N	Asset	In Point	Length	1	CityViews2 HD	00:00:00:00	00:00:28:06	2	CityViews2 HD	00:01:04:16	00:01:12:09	3	CityViews2 HD	00:01:43:06	00:00:33:19
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2	CityViews2 HD	00:01:04:16	00:01:12:09														
3	CityViews2 HD	00:01:43:06	00:00:33:19														
Reset triggers...	<p>Resets the processing status of one or several triggers for a selected group of clips.</p>																
Web Profiles→Create Profiles...	<p>Creating the necessary Web Profiles for a selected group of clips. The Recreate if exists option allows recoding the selected profile if it's already been created before.</p> 																
Web Profiles→Delete Profiles...	<p>Deleting the necessary Web Profiles for a selected group of clips.</p> 																

Dragging in Media Browser Window (Drag-and-Drop)

Media Browser extensively uses clip dragging possibilities:

Where	Condition	Result
To the Windows folder	Left click	Copying a clip BRV copy to the folder. The function is available if Client Path is configured in the Storage Parameters tab and the app runs as the current Windows user.
To the Windows folder	Right click	Copying a clip LRV copy to the folder. The function is available if Client Path is configured in the Volumes tab and the app runs as the current Windows user.
To the database folder different from the current one	Mouse button	Moving clip to a specified database folder.
To the database folder different from the current one	Mouse button+Ctrl	Creating a clip copy (Shot Clip) in the destination folder.
To the current database folder	Mouse button	Starting from 2.4.x version this function is no longer supported. In previous versions: creating a clip copy (Shot Clip) in the current database folder.
To the database folder different from the current one	Mouse button+Alt	Creating a Shortcut. This operation requires basic MAM licensing.

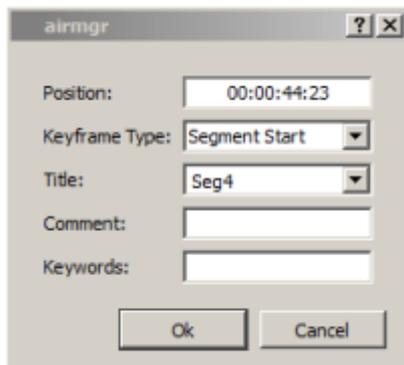
Key Frames and Segment Editor

The function of setting key frames for clips allows marking and segmenting materials, defining the places of graphics playback, etc.

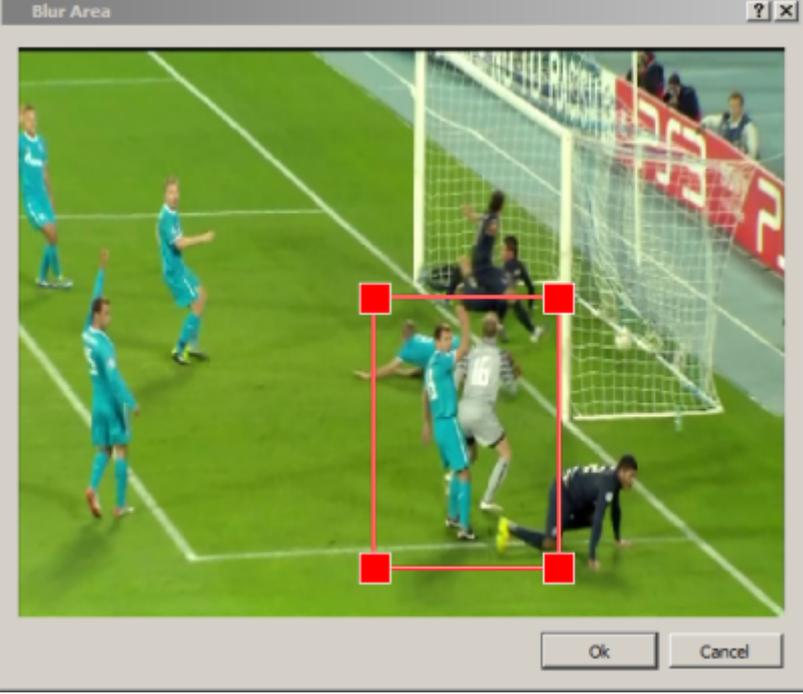
Adding a key frame is implemented in the File Monitor window.



1. The button opens a dialogue for adding a new key frame.
2. The button opens a list for a quick transition to the selected key frame.

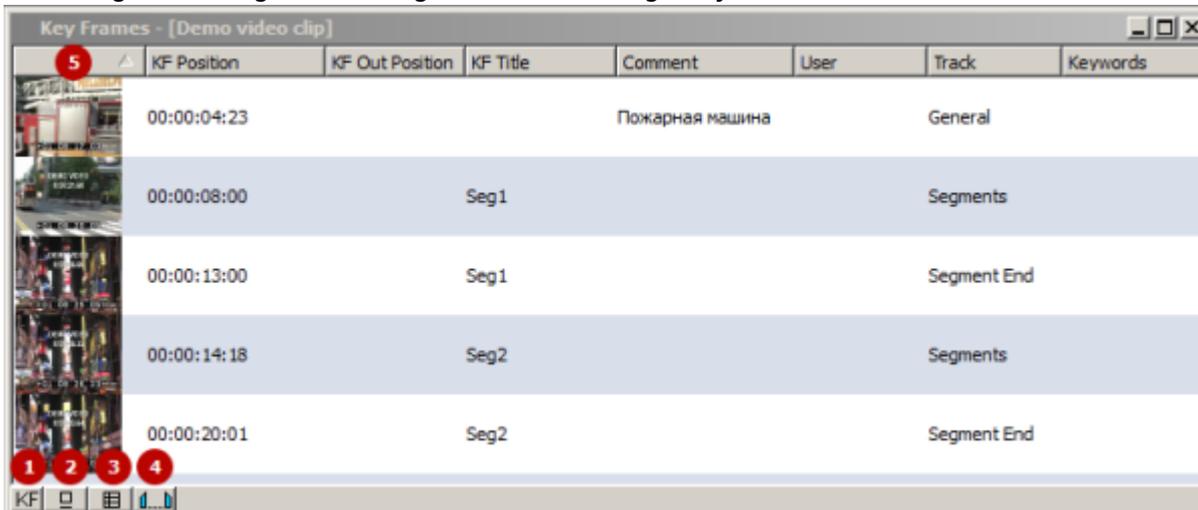


Parameter	Value
Position	Key frame position time code in the "HH:MM:SS:FF" format
Keyframe Type	<p>Type of a key frame. The option is used in the condition for launching program channel actions.</p> <ul style="list-style-type: none"> • General - a standard type of a key frame. • Segment Start - sets the segment starting point with the Title name. • Segment End - sets the segment ending point with the Title name. • Secondary Event - sets the point of launching secondary events. • Icon - sets the point of automatic (triggered) generation of a clip icon in VOD • Picture - sets the point of automatic (triggered) generation of a clip poster in VOD • Profanity start and Profanity end - sets the video fragment for applying the closing effects. The Playlist actions section of the program channel allows configuring actions for markers of Profanity Start and Profanity End types, which will lead to: video blurring, sound toning, turning off sound in parts of video placed between Profanity Start and Profanity End type markers. Added in 2.4.14 version. • Cue Point and GoTo cue - These markers can be used for a quick transition to marked points and for skipping certain video parts. The Playlist actions section of the program channel allows configuring the action that will trigger by the Cue Point marker and launch the Next Marker processor, which will switch to the next marker of the Goto Cue type. Thus, video parts placed between Cue Point and Goto Cue markers can be automatically skipped. Added in 2.4.14 version.
Title	A random key frame name. The option is used in the condition for launching program channel actions. When segmenting, SegN names are used, where N is the segment sequence number (Seg1, Seg2 etc).
Comment	Commentary.
Keywords	Key words.

Parameter	Value
Blur rect	<p>The field replaces Keywords, when selecting Keyframe Type = Profanity start. It sets a rectangle blurring area in the x,y,w,h format (e.g.: «0.2,0.2,0.5,0.3»). The field value is set through the editor available by the button [...].</p> 

Key frames editor

The window for working with key frames: 'MediaConnect→Window menu→Key frames. It allows viewing, moving, editing and deleting key frames.



KF Position	KF Out Position	KF Title	Comment	User	Track	Keywords
00:00:04:23		Пожарная машина			General	
00:00:08:00		Seg1			Segments	
00:00:13:00		Seg1			Segment End	
00:00:14:18		Seg2			Segments	
00:00:20:01		Seg2			Segment End	

^Element^Description^ |1|The button opens a dialogue for adding a new key frame| |2|The button activates the mode of viewing key frames as icons| |2|The button activates the mode of viewing key frames as a list| |4|Turns on displaying only the key frames between In and Out points of the clip| |5|Key frame position screenshot| |KF Position|Key frame position time code in the 'HH:MM:SS:FF' format| |KF Out Position|Not used| |KF Title|A random key



frame name. |Comment|Commentary| |User| |Track|Keyframe type. |Keywords|Key words. | == Segment editor == The window for work with segments: 'MediaConnect→Window menu→Segment editor. It displays grouped key frames of

Segment Start and Segment End types, and allows viewing, moving, editing and deleting segments.



Element	Description
1	The button opens a dialogue for adding a new key frame
2	The button activates the mode of viewing key frames as icons
2	The button activates the mode of viewing key frames as a list
KF Position	The time code of the segment start key frame position in the "HH:MM:SS:FF" format
KF Out Position	The time code of the segment end key frame position in the "HH:MM:SS:FF" format
KF Title	The segment name. When segmenting, SegN names are usually used, where N is the segment sequence number (Seg1, Seg2 etc).
Comment	Commentary
User	 Fix Me!
Track	
Keywords	Key words.

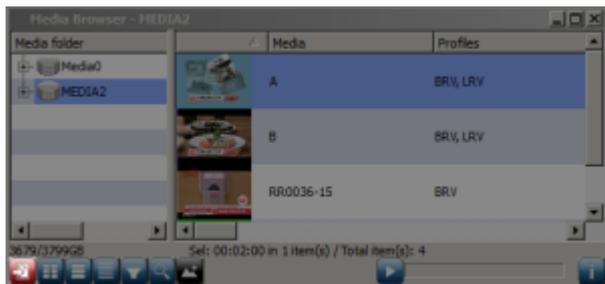
Dragging in Media Browser Window (Drag-and-Drop)

Media Browser extensively uses clip dragging possibilities:

Where	Condition	Result
To the Windows folder	Left click	Copying a clip BRV copy to the folder. The function is available if Client Path is configured in the Storage Parameters tab and the app runs as the current Windows user.
To the Windows folder	Right click	Copying a clip LRV copy to the folder. The function is available if Client Path is configured in the Volumes tab and the app runs as the current Windows user.
To the database folder different from the current one	Mouse button	Moving clip to a specified database folder.

Where	Condition	Result
To the database folder different from the current one	Mouse button+Ctrl	Creating a clip copy (Shot Clip) in the destination folder.
To the current database folder	Mouse button	Creating a clip copy (Shot Clip) in the current database folder.
To the database folder different from the current one	Mouse button+Alt	Creating a Shortcut

Manual Import of Materials to MAM

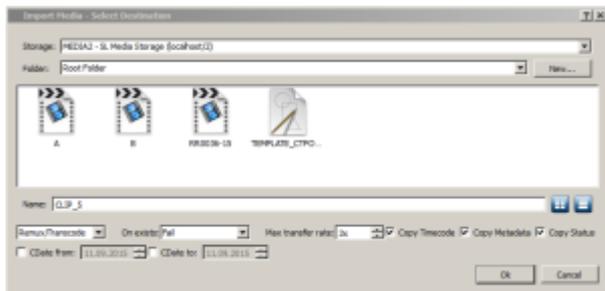


Use dragging to the Media Browser window or the Import media files button in the left bottom part of Media Browser.

In the Select Source dialog, select the source and the imported clip.



Parameter	Description
Storage	Type of source: <ul style="list-style-type: none"> • SL Media Storage - the database, • Local File System - the local or network Windows folder, • P2 Card, • Sony SxS.
Folder	The path to the source folder
Names	The imported clip name (several clips can be imported simultaneously)
Ok	Selecting the destination place - Select Destination



Parameter	Description
Storage	Type of source: <ul style="list-style-type: none"> • SL Media Storage - the database, • Local File System - the local or network Windows folder, • P2 Card, • Sony SxS.
Folder	A path to the destination folder
New...	Creates a new folder in the selected directory
Name	Allows specifying a new name for the imported clip (is absent in case of simultaneous import of several clips).
Copy mode	<ul style="list-style-type: none"> • Remux/Transcode - copying and processing the material. • Raw HIRES Only - byte-by-byte copying the original copy (BRV) without processing. • Raw HIRES Proxy - byte-by-byte copying the original copy (BRV) and the proxy-copy (LRV) without processing.
On Exists	Definition of actions in case of names coincidence of the imported clip and the clip existing in the database: <ul style="list-style-type: none"> • Fail - give an error. • Overwrite - erase the current clip and record a new one in any case (the PART message will appear on the clip icon during recording). The initial metadata will be replaced. • Overwrite different - erase the current clip and record a new one, if the clips differ (the PART message will appear on the clip icon during recording). Old clip metadata will be replaced by the new one. • Replace - the file will be completely saved and then renamed, deleting the existing clip with the same name. In this case the PART message will not appear and the material will be renamed right after the end of copying. We recommend this for updating clips in an on-air playlist. Old clip metadata will be replaced by the new one. • Rename - the imported clip will be renamed in case of coincidence of names (the clip name will be added with information on the copying time in the format: YYYY.MM.DD HH.MM.SS.FF). • Attach - updates BRV and LRV of a given clip. The current metadata is saved.

Parameter	Description
Max transfer rate	The maximum copying speed concerning the real time. For example: DV25Mb/s*3x file = 75Mb/s stream. Values: Unlimited, 1x-10x.
Copy Timecode	Allows copying the original timecode. The original time code can be viewed in File Monitor with the activated OrigTC option.
Copy Metadata	
Copy Status	Copy the material status. The option works, if the metadata schema server is specified.
CDate from	Sets the initial date of clip creation. If the parameter is activated, all selected clips with equal or later creation date will be processed. It is used for manual synchronization of storages at the main and backup servers after the routine maintenance.
CDate to	Sets the final clip creation date. If the parameter is activated, all selected clips with equal or earlier creation date will be processed. It is used for manual synchronization of storages at the main and backup servers after the routine maintenance.
Ok	Transition to the choice of transcoding options or import execution, if the mode of byte-by-byte copying is selected.

Log of Database Operations (Event Log)

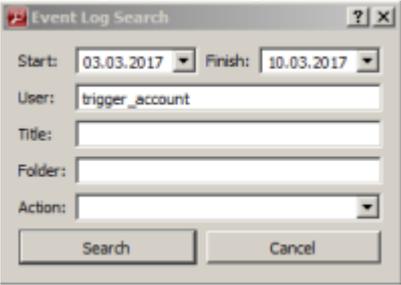
In version 2.2.8 the function of logging database operations has been added. Viewing logs is implemented in the Event Log window launched via the menu: MediaConnect→Window→Event Logs→Open New→Name of the connected database.

The maximum logs storage time is set by the Event Log History parameter of the Storage parameters tab, placed in [database settings](#) of the server control panel.

MAM Event Log						
Time	User	Action	Asset	Folder	Description	
10/03/2017 16:51:55	guest	Create Asset	mad_red		title: -> mad_red	
10/03/2017 15:59:18	admin	Create Asset	Vampire_Bamper (Copy 1)_None_...	_icons	title: -> Vampire_Bamper (Copy 1)_None_470_00000000	
10/03/2017 15:59:18	admin	Remove Link	Vampire_Bamper (Copy 1)_None_...	_icons		
10/03/2017 15:54:30	admin	Create Asset	Vampire_Bamper (Copy 1)_None_...	_icons	title: -> Vampire_Bamper (Copy 1)_None_470_00000000	
10/03/2017 15:54:30	admin	Remove Link	Vampire_Bamper (Copy 1)_None_...	_icons		
10/03/2017 15:53:49	admin	Create Asset	Vampire_Bamper (Copy 1)_None_...	_icons	title: -> Vampire_Bamper (Copy 1)_None_470_00000000	
10/03/2017 15:46:51	admin	Move Link	Vampire_Bamper (Copy 1)	Bumpers	Destination: New Folder	
10/03/2017 15:46:49	admin	Create Asset	Vampire_Bamper (Copy 1)	Bumpers	title: -> Vampire_Bamper (Copy 1)	

Output Management

Option	Value
Date	Setting the date for filtering data from the log storage.
Prev	Viewing events for the previous day (relative to the date set in the Date field).
Next	Viewing events for the next day (relative to the date set in the Date field).

Option	Value
Search	<p>Opening the setting window of extended search in the log storage.</p>  <ul style="list-style-type: none"> • Start - the starting date of the search range (inclusive) • Finish - the ending date of the search range (inclusive) • User - search by users • Title - search by MediaID • Folder - search by the folder name • Action - search by an action (selected from the list) <p>The User, Title, Folder, Action fields allow using wildcards.</p>
User	Filtering search results by the User field. Using wildcards is allowed.
Folder	Filtering search results by the Folder field. Using wildcards is allowed.
Title	Filtering search results by the Asset field. Using wildcards is allowed.
Action	<p>Filtering by Action (selected from the list). The system is logging the following user actions:</p> <ul style="list-style-type: none"> • Create Asset - creating clips, • Rename Asset - renaming clips, • Modify Asset - modifying clips, • Move Link - moving clips between folders, • Remove Link - deleting clips, • Remove Shortcut - deleting shortcuts, • Archive Link - archiving clips, • Cancel Archive Link - cancelling the archiving procedure, • Restore Link - restoring clips from the archive, • Flush HiRes - deleting a HiRes copy of the material.
Apply Filter	Applies filter settings to search results.
Refresh	

Using wildcards while searching:

- * - replaces any number of symbols,

- ? - replaces one symbol.

Error List for Archiving and Restoring Operations

Error Code	Name	Description
0	ERR_NOERROR	No errors
-1	ERR_UNKNOWN	Unknown error
-2	ERR_UNK_MIME_TYPE	Unknown source media type
-3	ERR_UNK_ARGUMENT	Unknown argument
-4	ERR_SRC_NOVIDEO	Input doesn't contain any video
-5	ERR_WRITER	An error occurred during writer initialization
-6	ERR_READ	An error occurred during reading
-7	ERR_WRITE	An error occurred during writing
-8	ERR_EXISTS	Destination media already exists
-9	ERR_SRC_NOAUDIO	Input doesn't contain any audio
-10	ERR_IMCOMP_FMT	Imcompatible container format
-11	ERR_SRC_STAMP	Source clip was modified during transfer
-12	ERR_CANCELLED	Cancelled by user
-13	ERR_DEMO	Demo mode
-14	ERR_SRC_STORAGE	Source storage could not be resolved
-15	ERR_SRC_DELETE	Source clip could not be removed
-16	ERR_START_WRITE	An error occurred while starting write operation
-17	ERR_DST_STAMP_CLNT	An error occurred while retrieving destination stamp (initialization)
-18	ERR_DST_STAMP_RSLV	An error occurred while retrieving destination stamp (resolve_name)
-19	ERR_SRC_NOT_SUPP	Source video codec or container is not supported
-20	ERR_SRC_RESOLVE	Source clip can't be resolved
-21	ERR_OFFLINE	File offline
-22	ERR_OPEN	An error occurred trying to open the file
-23	ERR_ACCES_DENIED	Permission denied
-24	ERR_METADATA_UPDATE	An error occurred while trying to update metadata
-25	ERR_SCAN_CANCELLED	Cancelled by user while scanning media
-26	ERR_NO_BRV_PROFILE	The BRV profile is absent
-27	ERR_NO_ARC_PROFILE	The ARC (archival) profile is absent
-28	ERR_CANT_ONLINE	

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