

USER MANUAL

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LSM.Connect



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Improvement Requests

Your comments will help us improve the quality of the user documentation. Do not hesitate to send improvement requests, or report any error or inaccuracy on this user manual by e-mail to doc@evs.com.

Regional Contacts

The address and phone number of the EVS headquarters are usually mentioned in the Help > About menu in the user interface.

You will find the full list of addresses and phone numbers of local offices either at the end of this user manual (for manuals on hardware products) or at the following page on the EVS website: <http://www.evs.com/contacts>.

User Manuals on EVS Website

The latest version of the user manual, if any, and other user manuals on EVS products can be found on the EVS download center, on the following webpage: <http://www.evs.com/downloadcenter>.



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1. Introduction

1.1. Product Overview

Description

The LSM Connect is a tablet-based application that allows users to manage clips and playlists stored on EVS video servers.

The application is directly connected to the Remote Panel and to the EVS video server via the Ethernet network. This gives users instant access and control of all clips and playlists created on EVS servers.

Automatic and instant synchronization between the LSM Connect and the EVS server provides an excellent interactivity, as well as an easy and intuitive solution to manage clip and playlist in a live production environment.

Compatible Hardware and Software

EVS Video Servers

The LSM Connect application shall run with EVS servers and Multicam application in the following conditions:

- It can run with XT3, XT2+ or XT2 servers.
- The EVS servers controlled by the LSM Connect shall run a Multicam version 11.02 or higher
- The EVS servers controlled by the LSM Connect shall be running a Multicam LSM or Replay Only application.

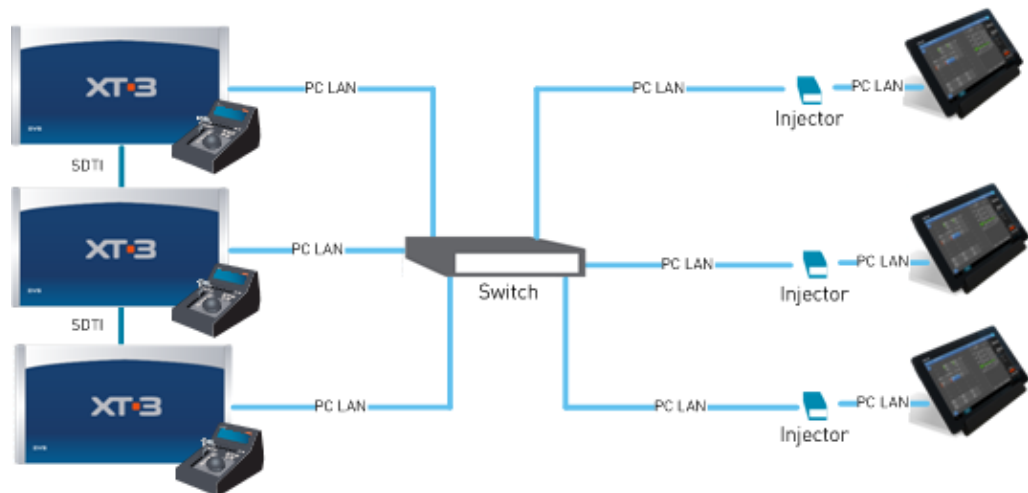
Tablet

When the LSM Connect connects to an EVS server, Multicam checks whether the installed version of the LSM Connect is compatible with the Multicam version. Otherwise, Multicam pushes and installs automatically the compatible version of the LSM Connect application to the tablet.

Network Architecture


The LSM Connect communicates with the Multicam application via the PC LAN network. The tablet is plugged onto a docking station that allows the connection to the PC LAN network.

The illustration below shows the network architecture. You can find detailed information on the network setup, connectivity and docking station in the LSM Connect docking station technote.



1.2. Starting LSM Connect

To start LSM Connect and connect to an EVS server, proceed as follows:

1. Tap the **LSM Connect** icon  located on the main (central) home screen page. The LSM Connect application opens on the Settings window, with the focus on the Connection menu.
2. In the Connection menu, tap **XT and Remote connection**. The **XT and Remote connection** dialog box opens with the list of EVS servers accessible on the network.
3. On this dialog box, select the EVS server you want to connect to and tap **Connect**.

After initialization, the main window opens with the default view: Clip tab on the left, Playlist tab on the right.



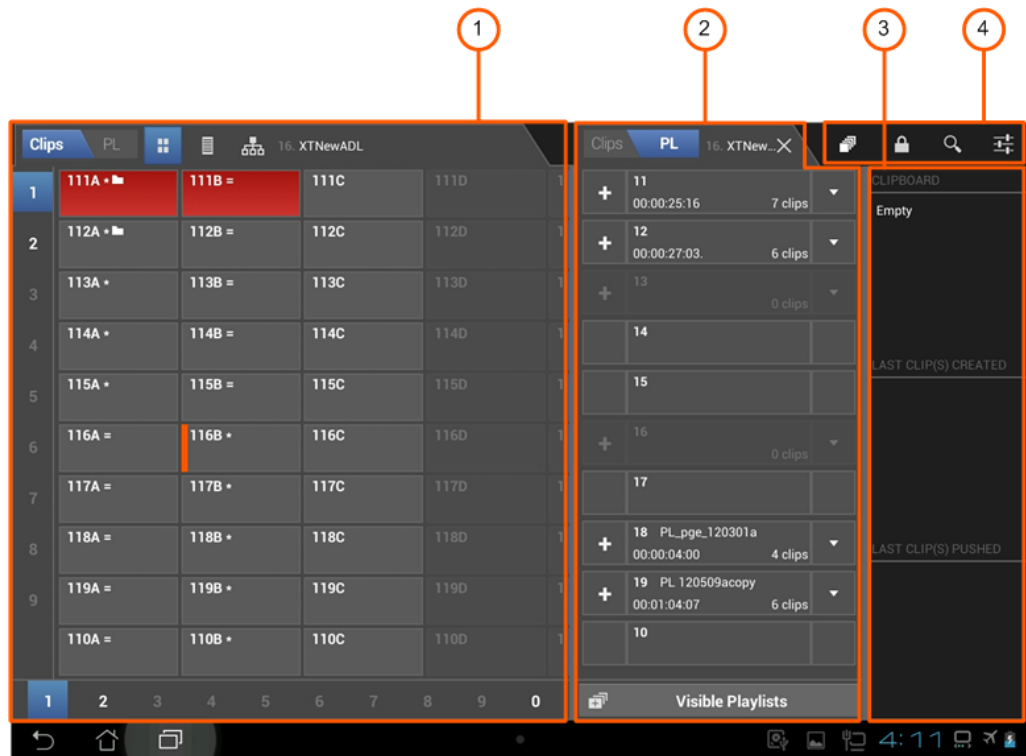
Note

With LSM Connect, you can connect to one EVS server and one LSM Remote Panel at a time.

1.3. User Interface Overview







Introduction

By default, the main window of the LSM Connect application contains the areas highlighted on the screenshot below:



Area Description

The table below describes the various parts of LSM Connect main window:

Part	Name	Description
1.	Clip area	Displays a view on the clips stored on the EVS server. The clips can be displayed in grid view  or list view  .
2.	Playlist area	Displays a view on the visible playlists stored on the EVS server. You can remove playlists from or add playlists to the list using the Visible Playlist command at the bottom on the tab.
3.	Toolbar area	Displays metadata information of the element (playlist or clip) selected in the clip or playlist area.
4.	Command bar	Gives access to the following windows or commands:  allows you to select multiple elements in clip/playlist area.  allows you to lock the LSM Connect main window.  allows you to search for clips based on metadata.  allows you to open the Settings window.




Note

You can easily switch the position of the clip and playlist areas, or display two clip or two playlist views at the same time by selecting the Clip tab or Playlist tab on the upper left corner of area.

1.4. Selecting Items

How to Select One or Several Items

To select one clip, playlist or playlist elements, simply tap once on the requested item. Double tap or tap and hold will not allow other types of selection.

To select several items, first tap the multi-selection icon , then select the requested items.

Selected items have a blue background.


Contextual Action Bar

When items are selected, a blue contextual action bar (CAB) appears at the top of the window. It shows several commands you can perform on the selected items.

The screenshot below shows an example of contextual action bar:



The bar contains the following elements, from left to right:

GUI element	Description
Done icon	allows you to confirm the executed action. This confirms the action and closes the CAB.
# items	displays the number of selected items, and their LSM ID.
Command icons	shows the various action buttons available for the selected elements. It depends on the context.
Multiselection icon 	shows whether the multiselection is activated, and allows enabling or disabling multiselection.

How to Unselect Items

To unselect only one item, tap again on the item you want to unselect.

To unselect all items, tap  without performing any other action.

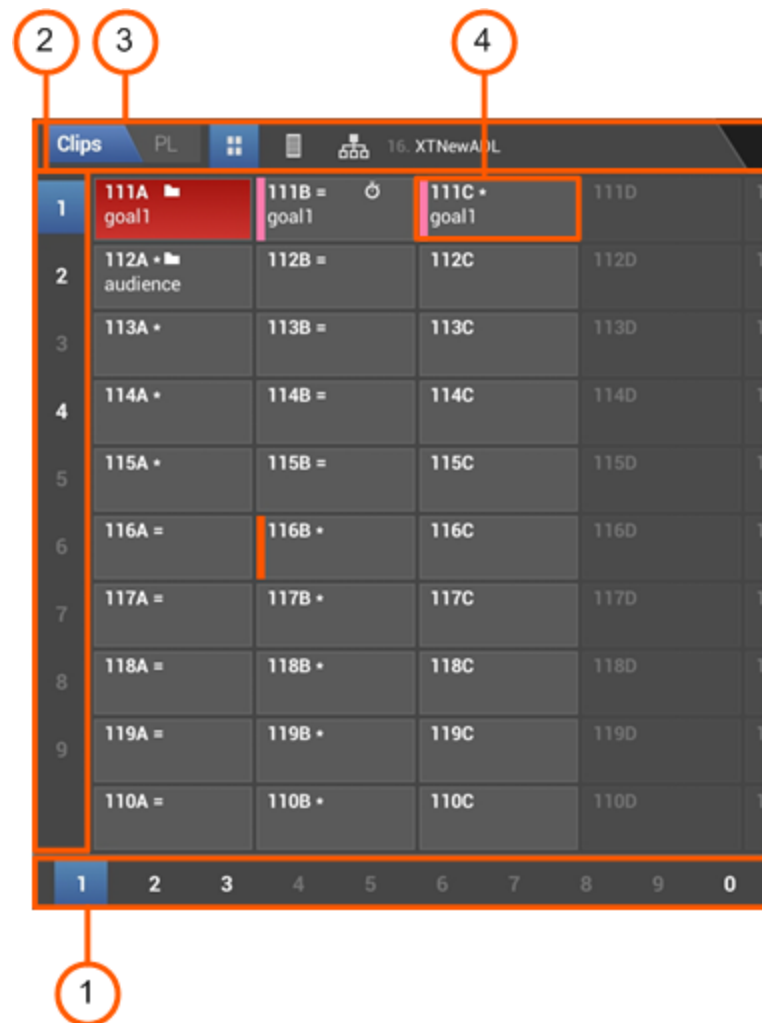
2. Clip Management

2.1. Clip Tab

Introduction





The Clip tab can be displayed in a Grid view or List view. You can open two clip tabs on the main window, in the same or in a different view.

Grid View





The table below presents the various areas on the Grid view:

#	Area	Description
1.	Page selection	Pages with clips are in white font. Empty pages are dimmed. The current page is displayed in blue.
2.	Bank selection	Banks with clips are in white font. Empty banks are dimmed. The current bank is displayed in blue.
3.	Clip box	The clip box displays several clip metadata. When you tap on a clip, the clip metadata are displayed in a toolbar on the right of the screen. You can edit the clip metadata in the toolbar. See section "Clip Display in Grid View" on page 8
4.	Option bar	In the option bar, you can perform the following actions: <ul style="list-style-type: none"> • Switch from Clip tab to Playlist tab. • Switch the Clip view between grid  and list . • Access the clips on a distant EVS server with . • View the EVS server the displayed clips are stored on  16. XTNewADL

List View

In the List view, the clips are listed by default from the smallest to the highest LSM ID.

The empty clip positions are not displayed.

It is possible to display clips or several distant EVS servers in the same list.

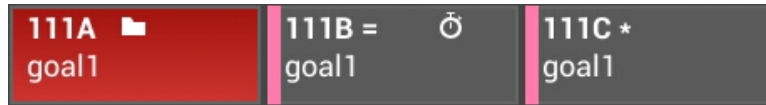
You can tap on a column to sort the clips downwards or upwards.

LSMID	Clip Name	Keyword 1	Keyword 2	Keyword
011C	12_XTNewPGE_REC1			
011D	12_XTNewPGE_REC1			
011E	12_XTNewPGE_REC1			
012C	16_XTNewADL_REC1			
012D	16_XTNewADL_REC1			
012E	16_XTNewADL_REC1			

2.2. Clip Display in Grid View

Clip Metadata

In the Clip tab, in Grid view, each clip position is symbolized by a rectangle.



When you tap a clip, the full clip metadata are displayed on the toolbar area (right). You can modify the clip metadata in the toolbar area.

The clip metadata described in the table below can be displayed:

Metadata type	Description
Clip LSM ID	LSM ID in white font if a clip is stored on the given LSM ID. LSM ID dimmed if no clip is stored or if the configuration does not include the corresponding recorder channel.
Clip rank	* for primary clip, = for secondary clip
Auxiliary clip	Indicates if the clip is an auxiliary clip.
Archive status	blue folder if the clip is tagged as 'to be archived' white folder if the clip has already been archived Otherwise, no icon.
Protected status	red lock if the clip is protected by LSM user white lock if the clip is protected by other users Otherwise, no icon
Emoticon	You can add an additional icon that can be used to easily identify specific clips.
Keywords	Associated keywords are displayed on a second line
Colored left border	You can select add a color on the left border to easily identify specific clips.

Clip Background

By default, the clip background is grey. The following background color can be displayed:

Background color	Meaning
Dimmed	codec mismatch between clip and EVS server configuration
Blue	selected clip
Red	on-air clip
Dark	empty position (and dimmed LSM ID)

2.3. Accessing Distant Servers

Introduction

From the Clip tab in Grid or List view, you can access distant EVS servers available on the network, and perform actions on the distant clips.

In Grid view, you can select a single EVS server. The EVS server name and net number whose clips are displayed in the grid is displayed at the top of the Clip tab, next to the

Network icon:  16. XTNewADL

In List view, you can select several servers. The clips stored in the selected EVS servers will be displayed in a list view, one server after another.

How to Access a Distant EVS Server

To access a distant EVS server, proceed as follows:

1. In the Clip tab, in Grid or List view, tap the **Network** icon.
2. Select the EVS server whose clips you want to view in the grid or list.
If you are in List view, you can select several servers.
3. Click **OK**.

In Grid view, the clips of the distant server are displayed in the grid, and the server name and number is displayed on the top of the screen.

In List view, the clips of the first distant server are displayed, then the clips of the second server, and so on.

2.4. Managing Clips

Introduction






The actions you can perform on clips are available as a contextual action bar (CAB) once you have selected at least one clip in the Clip tab:



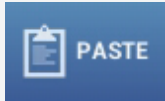


The general elements of the CAB are explained in section "Selecting Items" on page 4

Actions on Clips

The table below describes briefly the available commands for clips. Some of the actions are explained in details in a separate topic:

Action button	Description
	Allows you to cut selected clips, send them to the clipboard, and then move them to a new selected position using a paste action. See section "Copying and Moving Clips" on page 11
	Allows you to copy selected clips, send them to the clipboard, and then copy them to a new selected position using a paste action. See section "Copying and Moving Clips" on page 11.
	Allows you to delete selected clips.
	Allows you to set selected clips as 'to be archived'. Clips set as to be archived but not archived yet have a blue folder displayed in the grid view. When the clips are archived, they have a white folder displayed in the grid view.
	Allows you to push selected clips to the location defined in the Push settings in the Multicam Configuration module.

In Copy and Move actions, when you select the requested position for copy or move, the following paste options can be available in the CAB, depending on the type of selection (single or multiselection):

Action button	Description
	When you have selected a single clip, you can copy it to the selected new position using the Paste icon in the CAB.
	When you have selected several clips, you can copy them to the selected new position using Paste Same Position icon in the CAB. In this case, the clips are pasted one after the other from the selected position, taking into account the initial CAM name.
	When you have selected several clips, you can copy them to the selected new position using Paste Contiguous icon in the CAB. In this case, the clips are pasted one after the other from the selected position, disregarding the initial CAM name.

2.5. Copying and Moving Clips

Introduction

This section explains how to copy or move one or more clips from one position to another one, located on the same EVS server or to a distant EVS server.

You need to perform copy and move actions in Grid view, not in List view. To copy and move clips, you will use commands available in the CAB, the blue Contextual Action bar located at the top of the screen:




Tip

Clips can only be pasted on empty positions. Do not select a position that is not empty for pasting selected clips.

Selecting Clips


This is the initial step before you can apply a command to one or several clips

To select one clip, playlist or playlist elements, simply tap once on the requested item. Double tap or tap and hold will not allow other types of selection.

To select several items, first tap the multi-selection icon , then select the requested items.

When the multiselection mode is active, you can select several clips on different banks, pages of the same EVS server or even on different EVS servers.

How to Copy or Move Clips

1. After selecting the requested clips in a Clip Grid view, do one of the following actions:
 - To move clips, tap **Cut** in the CAB.
 - To copy clips, tap the **Copy** icon.
2. If you want to copy or move the clips to a distant EVS server, do the following. Otherwise, go to step 3:
 - a. Tap the **Network** icon .
 - b. Select the requested server.
 - c. Tap **OK**.


3. In a Clip Grid view, select the page, bank and position you want to move your clips to in the following way:
 - a. Tap on the requested page at the bottom of the Grid view.
 - b. Tap on the requested bank on the left of the Grid view.
 - c. Tap on the requested empty position (position for the first clip in a multiselection).
4. To paste the selected clips, do one of the following actions:
 - In single selection mode, tap **Paste** in the CAB.
 - In multiselection mode, tap **Paste Same Position** in the CAB if you want the selected clips to be pasted on the same CAMs as the initial clips.
 - In multiselection mode, tap **Paste Contiguous** in the CAB if you want the selected clips to be pasted one after the other from the selected position, on all recorders (whatever the EVS server configuration).

The selected clips are moved or copied to the requested positions.

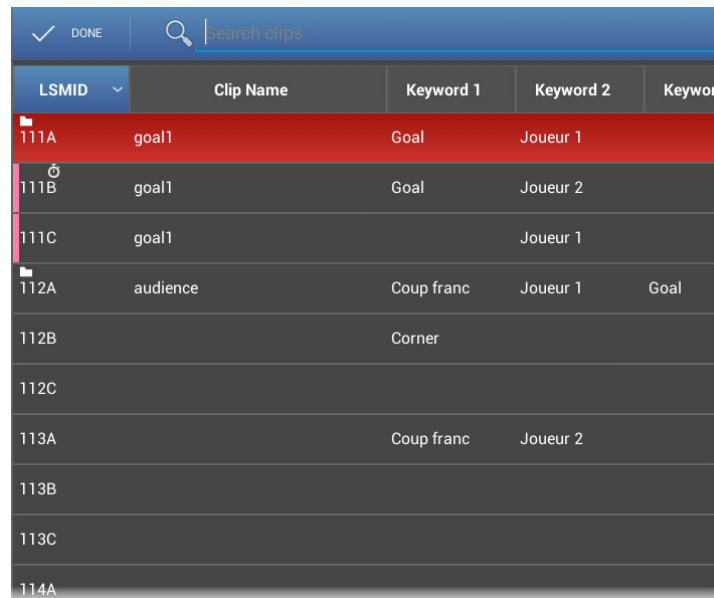
2.6. Searching for Clips

Accessing the Search Clip Window

You can search for clips stored on the current EVS server. The search is a free-text search on the clip metadata available in the displayed columns.

You will access the search feature by tapping the magnifier icon  on the top right of the main window.

This opens the Search window on the left tab:



LSMID	Clip Name	Keyword 1	Keyword 2	Keyword 3
111A	goal1	Goal	Joueur 1	
111B	goal1	Goal	Joueur 2	
111C	goal1		Joueur 1	
112A	audience	Coup franc	Joueur 1	Goal
112B		Corner		
112C				
113A		Coup franc	Joueur 2	
113B				
113C				
114A				

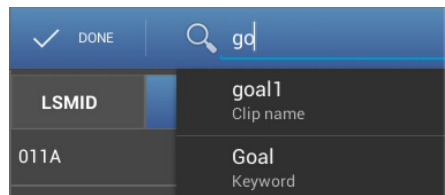
On the right, the playlist tab is displayed.

How to Search for Clips

To search for clips, proceed as follows:

1. In the Search window, type the text you want to search for on the right of the magnifier icon in the CAB:

As you type, the application suggests metadata that includes the text you have already entered.



2. Do one of the following:
 - If you do want to search strictly for your text string, tap on the entered text again.
 - If you want to select a suggested text string, tap on it.

The clips that contains the requested text are displayed as a list.

You can select the search results as in the Grid view, and perform all possible actions on those clips.

3. Playlist Management

3.1. Playlist Tab

Introduction

The Playlist tab can display be declined in two views:

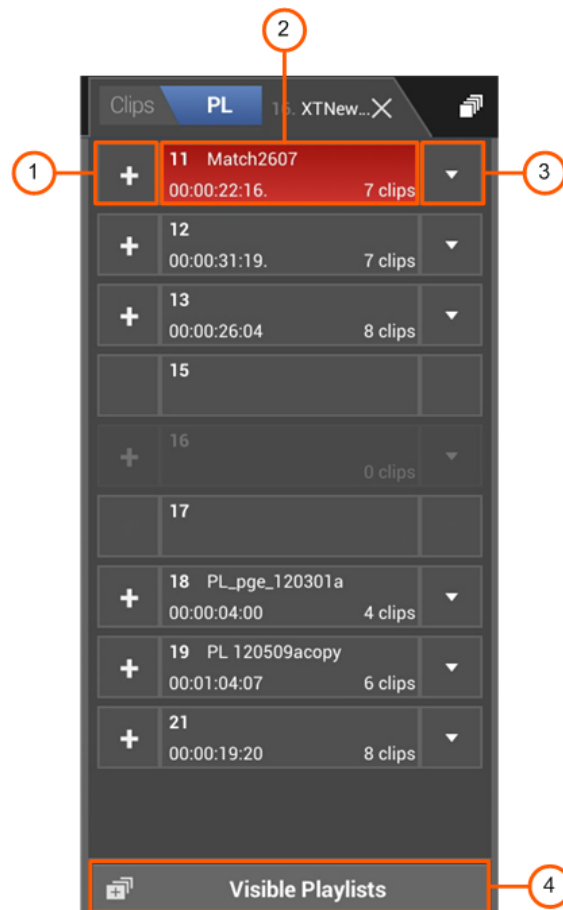
- Initially, it displays a set of selected playlists which you define as 'visible playlists'.

We will call this the List view

- When you tap on a playlists, the selected playlist opens in the Playlist tab, and you can view all playlist elements and transition information.

We will call this the Detail view

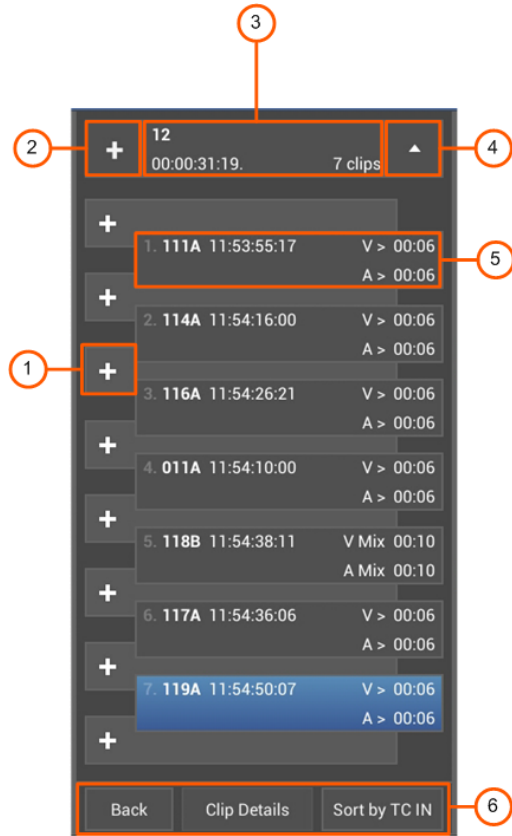
List View



The table below presents the various areas or icons on the List view:





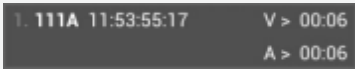
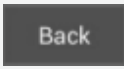
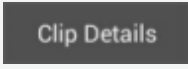
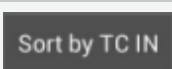
#	Area/Icon	Description
1.		Adds the selected clips at the end of the corresponding playlist.
2.		Playlist containing playlist elements: The Playlist LSM ID is specified, as well as the playlist duration, and the number of playlist elements.
		Empty playlist position. As you can add elements to such a playlist, the Add icon is displayed on the left.
		Timeline position. You cannot add elements to a timeline in LSM Connect.
		Selected playlist displayed on a blue background.
		Loaded playlist displayed on a red background.
3.		Opens the corresponding playlist in Detail view.
4.		Opens the Select visible playlists window in which you can check the playlists you want to display in the List view.

Detail View





The table below presents the various areas or icons on the Detail view:

#	Area/Icon	Description
1.		Insert the selected clip(s) between the surrounding playlist elements.
2.		Insert the selected clip(s) at the end of the playlist.
3.		Represents the open playlist, and the related information.
4.		Closes the Detail view and comes back to the List view.
5.		Represents the playlist element and displays related information, from left to right: <ul style="list-style-type: none"> • position in the playlist • clip LSM ID • clip TC (LTC) • Video effect type and duration • Audio effect type and duration
6.		Goes back to the List view. All changes previously done in the Detail view are applied.
		Displays larger boxes for playlists elements, and the same clip metadata as in the Clip Grid view.
		Allows to sort the playlist elements by TC IN, but resets all transitions to the default settings.

3.2. Managing Playlists

Introduction

This section presents the actions you can perform on playlists.

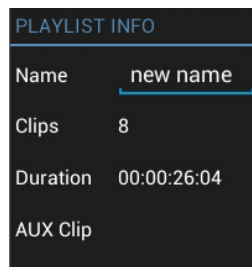
Actions on Playlists

How to Change the Playlist Name

To change the playlist name, proceed as follows:

1. In the Playlist tab in List view, tap the playlist whose name you want to modify.

The playlist name and other information are displayed in the toolbar.



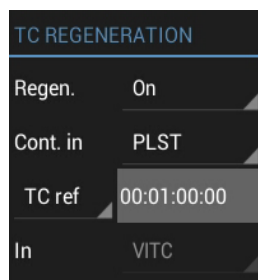
2. In the **Name** field, type or modify the playlists name.
3. Tap the **Done** key on the virtual keyboard.

How to Regenerate the Playlist Timecode

To regenerate the playlist timecode, proceed as follows:

1. In the Playlist tab in List view, tap the playlist whose timecode you want to regenerate.

The TC Regeneration area is displayed in the toolbar.




2. Set the requested field values in the TC Regeneration area.

How to Delete a Playlist

To delete a playlist, proceed as follows:

1. In the Playlist tab in List view, select the playlist you want to delete.


2. Tap  in the CAB.

How to Merge Two Playlists

When you merge two playlists, the first selected playlist is in fact merged into the second selected playlist. In other words, all playlists elements of the first playlist are added at the beginning of the second playlist.

To merge two playlists, proceed as follows:

1. In the Playlist tab in List view, select the two playlists you want to merge together.

2. Tap  in the CAB.
3. Tap **OK** to confirm the merge action.

3.3. Editing Playlists

Introduction

This section presents the actions you can perform on playlist elements.

Actions on Playlist Elements

How to Add Clips at the End of a Playlist



In the Playlist tab, you can work in List view or in Detail view.

To add at the end of a playlist, proceed as follows:

1. In the Clip tab or in the Search window, select one or more clips you want to add to the playlist in the Clip tab.

See section "Selecting Items" on page 4 for more information.

2. Do one of the following actions:

- If the playlists are displayed in List view, tap  in front of the playlist to which you want to add the selected clips.
- If the playlist to which you want to add the selected clips is open in Detail view, tap the **Add** icon  at the top of the playlist tab, next to the playlist box.

The **Add** icon briefly turns green and the playlist box briefly turns orange as the clips are added at the end of the playlist.

How to Add Clips Between two Playlist Elements

In the Playlist tab, the playlists to which you want to add clips must be open in Detail view.

To add between two playlist elements, proceed as follows:

1. In the Clip tab or in the Search window, select one or more clips you want to add to the playlist in the Clip tab.

See section "Selecting Items" on page 4 for more information.

2. In the Playlist tab, tap the **Add** icon  in between the two elements where you want to insert the selected clips.

The **Add** icon briefly turns green and the playlist box briefly turns orange as the clips are added at the end of the playlist.

How to Reorganize Elements inside a Playlist

You can only move an element at a time inside a playlist.


To reorganize elements inside a playlist, proceed as follows:

1. In the Playlist tab, open the playlist you want to reorganize in Detail view.
2. Tap and hold the playlist element you want to move.
3. Drag the element at the requested position and release when the **Add** icon at the requested position turns green.

How to Remove Elements from a Playlist

To remove elements from a playlist, proceed as follows:

1. In the Playlist tab, open the playlist you want to remove elements from in Detail view.
2. Select one or more playlist elements (when multiselection is active) you want to remove.

3. Tap  in the CAB.

How to Copy Clip Elements Between Playlists

To copy clip elements from one playlist to another one, proceed as follows:

1. Open the requested playlists in both tabs in Detail view.
2. Select the playlist elements you want to copy from one playlist to the other.
3. Tap and hold one of the playlist elements until a dark grey element box is displayed
4. Without releasing, drag to the **Add** icon of the second playlist, where you want to insert the selected elements.
5. Release when the **Add** icon turns green.

The elements selected in the first playlists have been copied to the second playlist, and are still in the first playlist.

4. Settings

Introduction

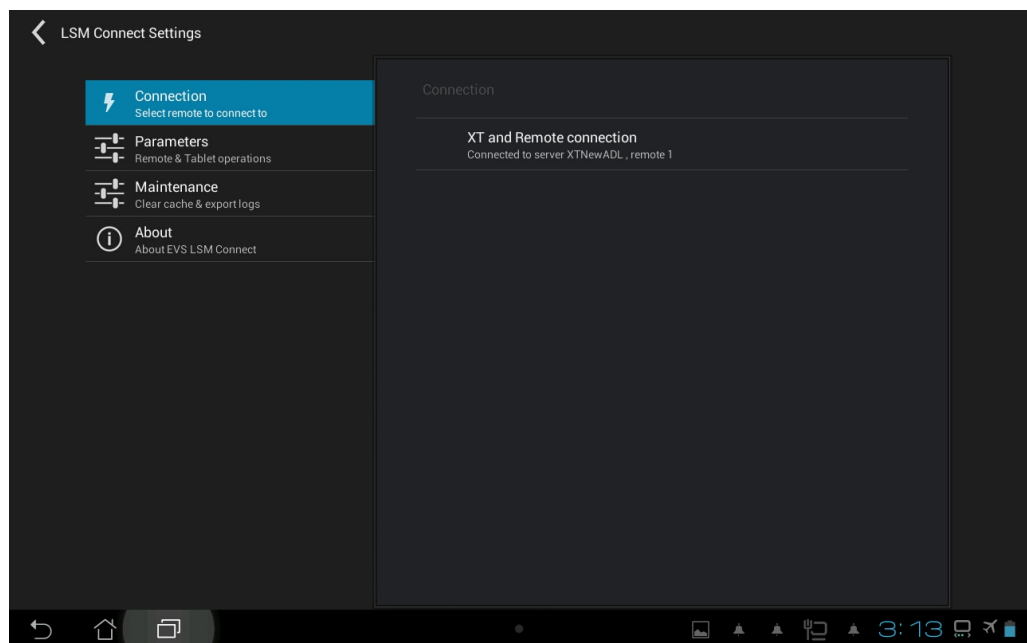
The Settings include four menus or windows:

- Connection Menu
- Parameters Menu
- Maintenance Menu
- About window

Connection Menu

The **Connection** menu allows you to select the EVS server and LSM Remote Panel to which LSM Connect has to connect to. You can connect to one EVS server and one Remote Panel at a time.

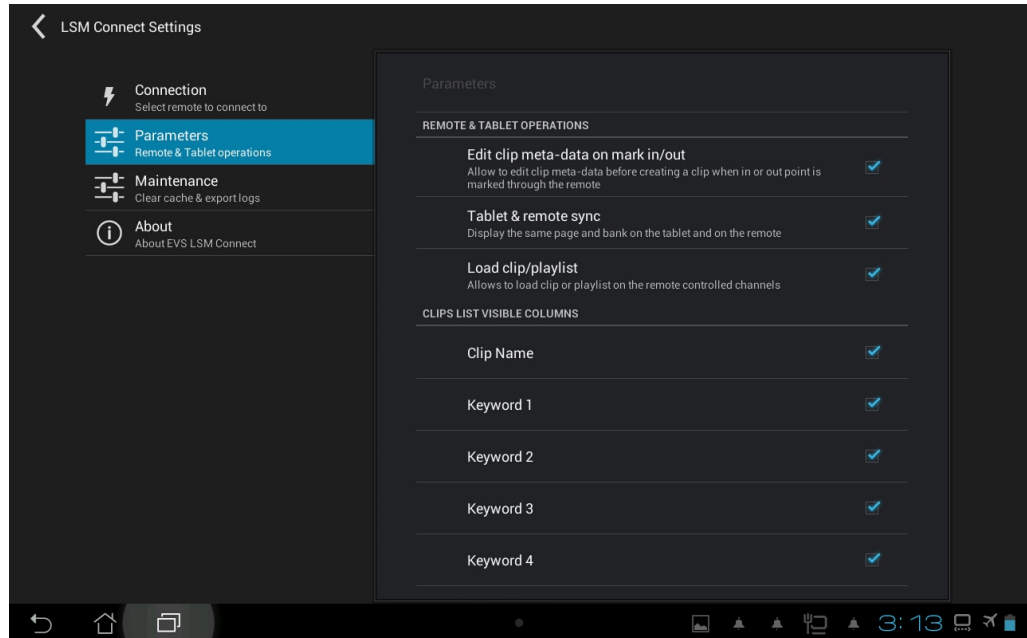
See section "Starting LSM Connect" on page 2 for full information on how to connect to EVS servers.





Parameters Menu

The **Parameters** menu allows you to set LSM connect parameters.

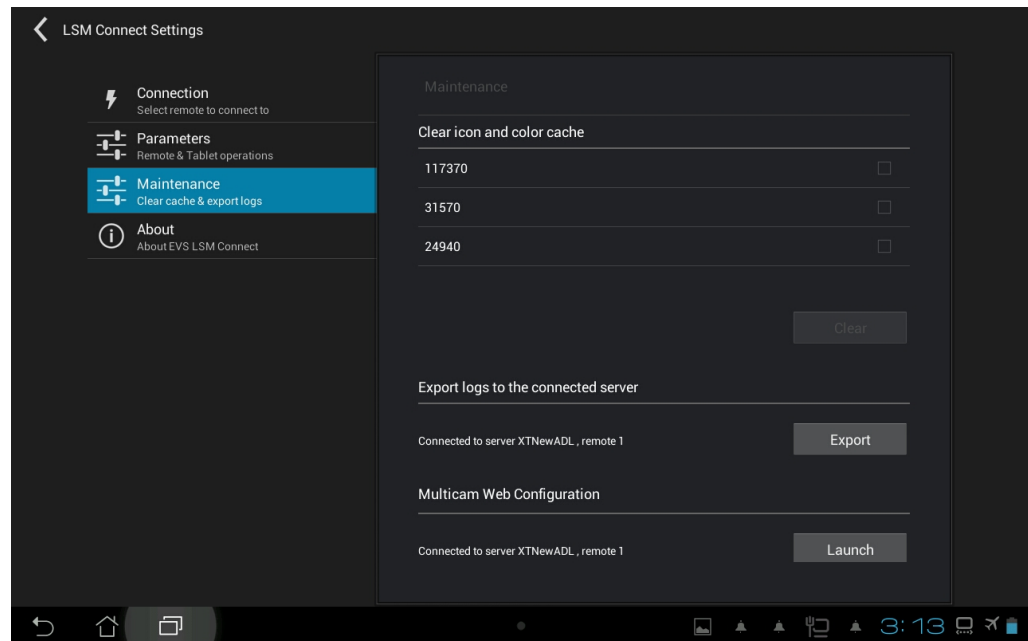


The table below describes the available parameters:

Name	Description
Edit clip metadata on mark in/out	This option allows you to enter the clip metadata using LSM Connect when you mark an IN or OUT point with the Remote Panel. When this option is active and when you mark an IN or OUT point on the Remote Panel, a metadata window pops up on the LSM Connect.
Tablet and remote sync	This option allows the automatical page and bank synchronization between the Remote Panel and the Clip tab in Grid view.
Load clip/playlist	This option allows you to load a clip or a playlist on the first PGM using a double tap on the requested clip or playlist in LSM Connect.
Clips List Visible Columns	This section lists the columns that can be available in the Clip tab, List view and in the Search window. Only the selected columns will be displayed in the lists.

Maintenance Menu

The **Maintenance** menu allows you to perform some maintenance tasks on the LSM Connect.



The table below describes the available maintenance commands:

Name	Description
Clear icon and color cache	The colors and emoticons assigned to clips in the Clip toolbar are only stored on the LSM Connect. This command allows you to clear this metadata for each EVS server the LSM Connect has connected to. To clear the cache, select the serial number of the EVS server you want to clear the cache information and tap Clear .
Export logs to the connected server	To export the LSM Connect logs directly to the EVS server it is connected to, tap Export .
Multicam Web Configuration	To launch the Multicam Web Configuration module on the tablet, tap Launch .

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