USER MANUAL

Version 2.11 - July 2019

LSM Connect

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What's New?

In the LSM Connect user manual, the icon NEW ! has been added on the left margin to highlight information on new and updated features.

The changes linked to new features in version 2.11 are listed below:

Keyboard Shortcuts to toggle Multiple Selection On/Off

- See section "Selecting Items" on page 8
- See section "Appendix 1: Keyboard Shortcuts" on page 106

Keyboard Shortcuts to navigate from One Bank to the Next/Previous Bank

- See section "Keyboard Shortcuts for Navigation" on page 34

Keyboard Shortcuts to navigate to a Specific Page/Bank

- See section "Keyboard Shortcuts for Navigation" on page 34
- See section "Appendix 1: Keyboard Shortcuts" on page 106

Editing the content of the Rename Clips Dialog Box

- See section "Defining Clip Metadata" on page 40

Copy/Paste the Same Clip Several Times in a Row

- See section "Copying and Moving Clips" on page 49

1. Introduction

1.1. Product Overview

Description

- The LSM Connect is an application that allows users to manage clips and playlists stored on EVS video servers.
- The LSM Connect Base is a dedicated mini-PC that runs the LSM Connect application and connects to any HDMI screen. It also requires either a touchscreen or an external keyboard and a mouse.
- The LSM Connect Tablet is a dedicated stand-alone tablet that runs the LSM Connect application. The tablet is installed on its docking station that may be connected to an additional keyboard and mouse.

For connectivity information, refer to the LSM Connect Base technical note or the LSM Connect Tablet technical note.

The LSM Connect 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 application and the EVS server provides excellent interactivity, as well as an easy and intuitive solution to manage clips and playlists in a live production environment.

Compatible Hardware and Software

EVS Video Servers

The LSM Connect application runs with EVS servers and the Multicam application under the following conditions:

- It can run with the following EVS video servers: XT3, XS3, XTnano, XT4K, XS-4K, XT-VIA and XS-VIA.
- The EVS servers controlled by the LSM Connect should run a Multicam version 14.02 or higher.
- To take full advantage of the LSM Connect version 2.11, the EVS server should have at least a Multicam version 15.03.
- The EVS servers controlled by the LSM Connect should be running a Multicam LSM or Replay Only application.

Application Compatibility and Update

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 LSM Connect Base or Tablet.

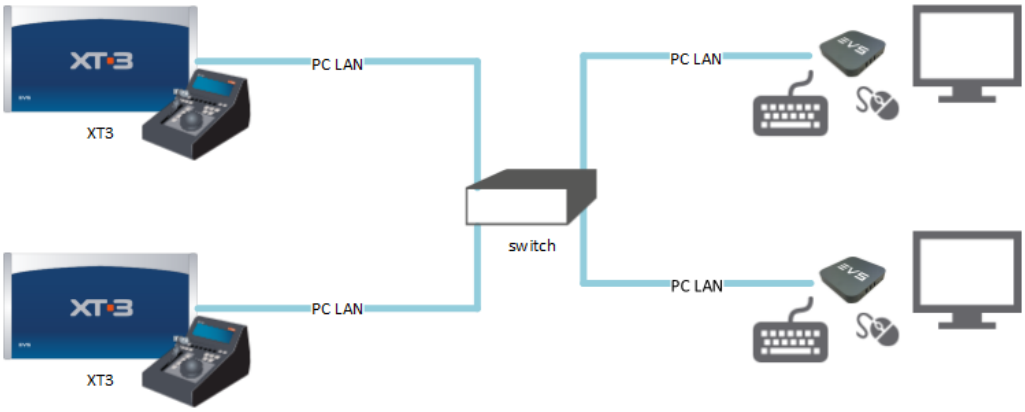
Keyboards

LSM Connect supports unicode characters. You can therefore connect English and other language keyboards to the LSM Connect Base or to the docking station of the LSM Connect Tablet.

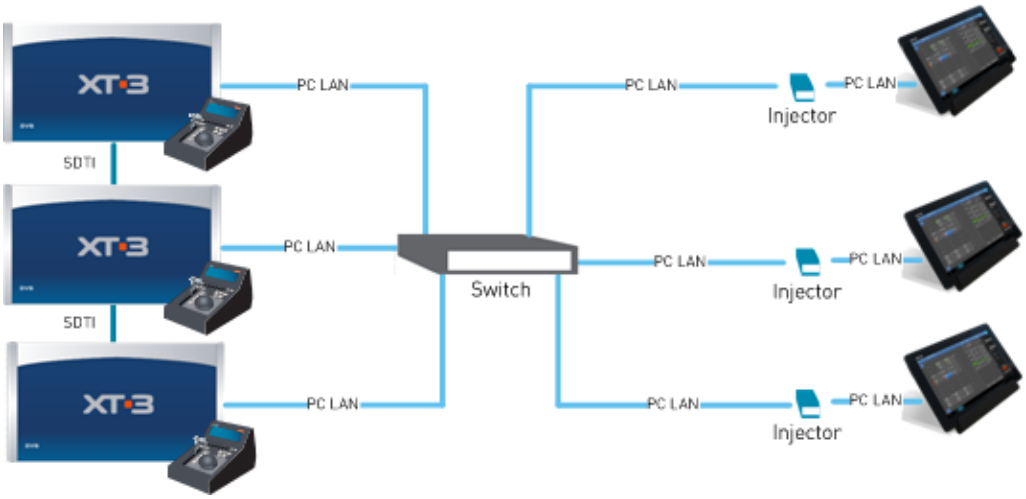
Network Architecture

The LSM Connect communicates with the Multicam application via the PC LAN network. The illustration below shows the network architecture. You can find detailed information on the network setup and connectivity in the LSM Connect Base and Tablet technical note.

LSM Connect Base



LSM Connect Tablet



1.2. Starting and Connecting to the EVS Server

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

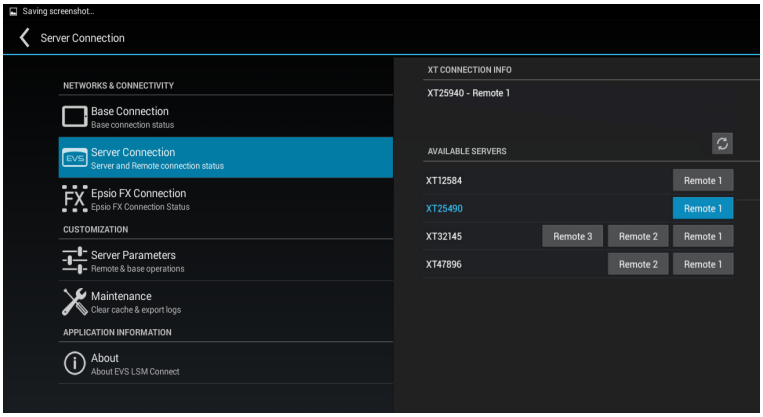
1. Tap the **LSM Connect** icon located on the main (central) home screen.

   The LSM Connect application opens in the Settings window, with the Server Connection menu highlighted.

2. In the Server Connection menu, in the list of available servers, select the Remote Panel of the EVS server you want to connect to in one of the following ways:

   - With a touchscreen, tap the relevant **Remote** button.
   - With a keyboard, press **TAB** to highlight the available servers, then press the keyboard arrows to select the appropriate **Remote** server button, and finally press **ENTER**.

   The associated **Remote** button turns blue:



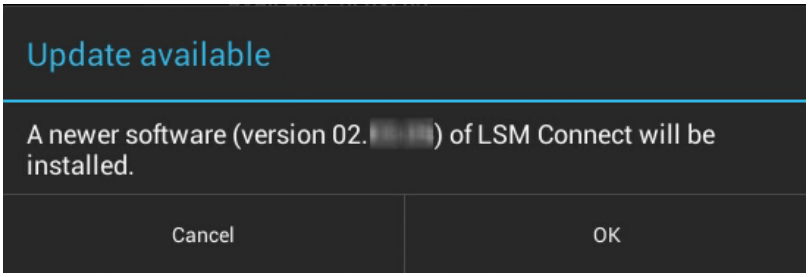
   See section "Available Servers" on page 97

- If the Multicam version of the EVS server you connect to is compatible with the version of your LSM Connect, the application initializes.

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

- If the Multicam version of the EVS server you want to connect to can work with alater version of LSM Connect than the one installed, the following message appears.

  Click **OK** and follow the instructions to upgrade the LSM Connect application.



NOTE

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

NOTE

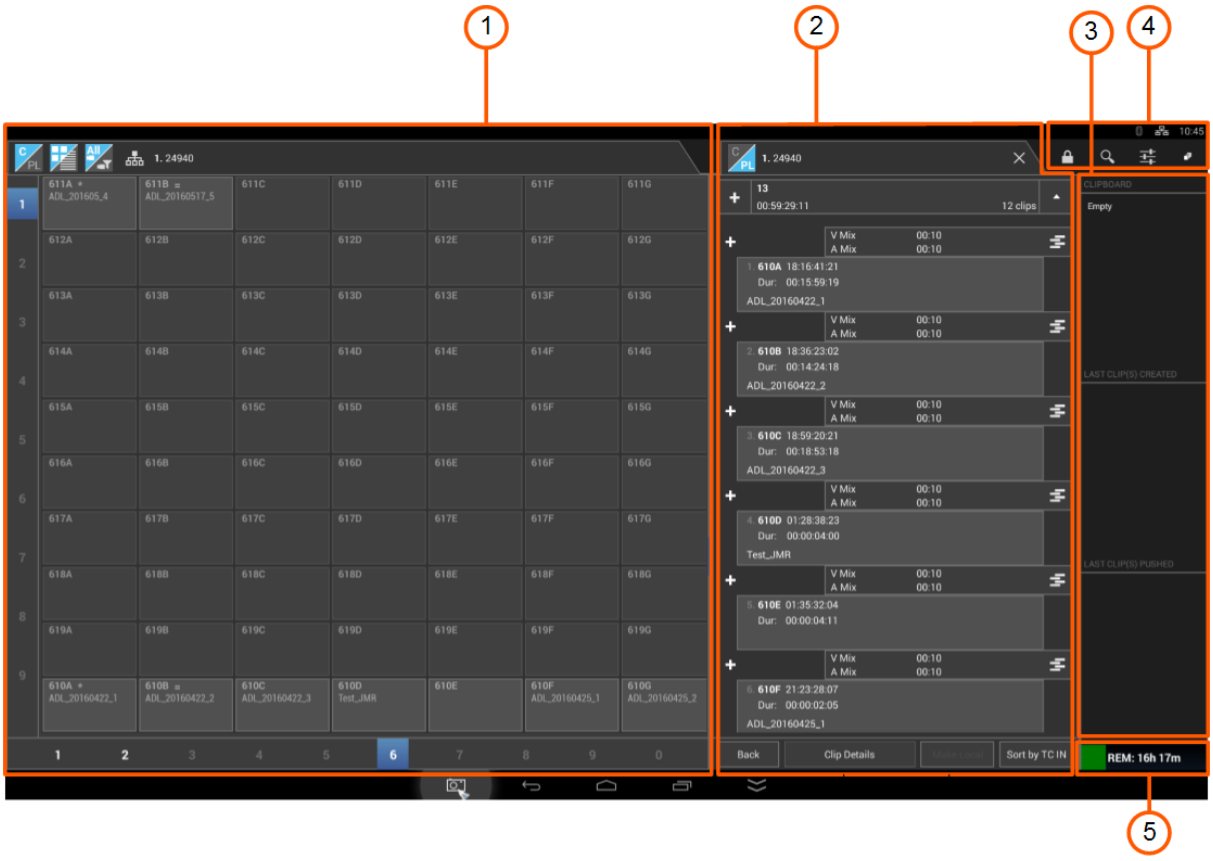
When you connect to server A, then to server B, and finally back to server A again, the clips will be displayed as they were previously presented on server A.

1.3. User Interface Overview

Introduction

The size of the LSM Connect application main window is automatically adjusted to fit the available screen resolution.

By default, the main window contains the areas highlighted on the screenshot below:



Clip Area (1)

The Clip area displays a view of the clips stored on the EVS server.

The clips can be displayed in grid view or list view .

See section "Clip Tab" on page 15

Playlist Area (2)

The Playlist area displays a view on the visible playlists stored on the EVS server.

You can hide playlists from the list or display them using the **Visible Playlists** command at the bottom on the tab.

See section "Playlist Tab" on page 59

NOTE

- You can easily switch the position of the clip and playlist tabs, or display two clip or two playlist tabs at the same time by clicking the **Clip/Playlist** button at the top of the tab.

- You can use the **TAB** key to move from one tab to the other using a physical keyboard, and the **Arrow** keys to move within a tab.

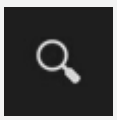
Toolbar Area (3)

The Toolbar area displays metadata information of the element (playlist or clip) selected in the clip or playlist area.

See section "Clip Toolbar" on page 26 and "Playlist Toolbar" on page 65 for more information on the Clip and Playlist toolbars.

Command Bar (4)

The Command bar provides access to the following commands:

Icon	Description
	Allows you to lock the LSM Connect main window.
	Allows you to search for clips based on metadata. "Searching for Clips" on page 52

Icon	Description
	Allows you to open the Settings window. See section "Settings" on page 93.
	Allows you to activate the multiple selection and/or clip selection modes. See section "Selecting Items" on page 8.

Remaining Capacity (5)

The server remaining capacity is displayed as a remaining time.

The used disk space portion is symbolized using the following colors:

- Green: 0 - 80%
- Orange: 80 - 90%
- Red: 90 - 100%

2. Common Operations

2.1. Selecting Items

Introduction

You can select items using the touchscreen, the mouse or the keyboard.

As soon as one item is selected, the Contextual Action bar (CAB) is displayed and enables you to perform commands on the selected item(s). See section "Contextual Action Bar in Clip Tab" on page 28 and "Contextual Action Bar in Playlist Tab" on page 67.

This section presents the various selection modes, and explains how to select items in different ways:

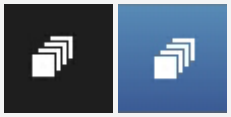
- How to Select a Single Item
- How to Select All Cameras of a Clip
- How to Select Multiple Non-Contiguous Items
- How to Select Multiple Contiguous Items
- How to Select All Elements in a Grid
- How to Deselect a Single Item
- How to Deselect all Items

Selection Modes

Several selection modes are available and can be chosen using the **Selection** button:

- **Single** versus **Multiple** selection mode
- **Cam** versus **Clip** selection mode

By default, the single mode and cam selection mode are active.

Icon	Description
	Single and Cam selections are active (default).
NEW !	The multiple selection mode is active: It means you can select multiple items. Press **CTRL+M** to toggle on/off the **multiple selection** mode.

Icon	Description
	The clip selection mode is active: When you select an element in the clip tab, all camera angles of the clip holding video are selected. Press **F2** to toggle on/off the **Clip selection** mode.
	Multiple selection and clip selection modes are both active: You can select several clips, each time with all their camera angles.

Selections in Clip Tab

The following rules or limitations are applicable to multiple and clip selections in the Clip tab:

- With one clip tab in grid view, you can use the multiple selection on one EVS server, on the same or different pages or banks.
- With two clip tabs in grid view, you can use the multiple selection on two different EVS servers.
- With one clip tab in list view, you can use the multiple selection on the same or different pages or banks, and even on different EVS servers.
- In grid view, you can use the clip selection on the local EVS server.
- In list view, you cannot use the clip selection.

Selections in Playlist Tab

You can use the multiple selection in the Playlist tab:

- on the list of playlists.
- on the playlist items of the open playlist.

How to Select a Single Item

With the Touchscreen

- Tap the item.

The selected item has a blue background.

With the Keyboard

1. Move in the grid or list using the **Arrow** keys until the item is highlighted (gray-blue background)

.
2. Press the **Space bar**.

The selected item has a blue background.

How to Select Multiple Non-Contiguous Items

With the Touchscreen

1. Tap the Selection icon .
2. Tap whatever items to be selected.

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

When an empty clip is selected, the previous selection is cleared.

With the Keyboard

1. Highlight the first item you want to select with the Arrow keys.
2. Press the **SPACEBAR** to select it.
3. Highlight a second item you want to select.
4. Press **CTRL+SPACEBAR** to select the second item.
5. Repeat steps 3 and 4 for all items you want to select.

How to Select Multiple Contiguous Items

In a multiple contiguous selection, the empty positions are ignored.

With the Touchscreen

1. Tap the Selection icon .
2. Tap the items to be selected.

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

With the Keyboard

1. Highlight the first item you want to select with the Arrow keys.
2. Press **SHIFT+SPACEBAR** to select this item.
3. Move with **ARROW** keys to select contiguous items between the first selected item and the current highlighted position.

NOTE

In the specific situation where you want to use the grid view to select clips on two different pages or banks, and/or on two different servers, you have to:

1. open two clip tabs
2. use the contiguous selection method in one clip tab
3. use the non-contiguous selection method (even if the clips are contiguous) in the second clip tab.

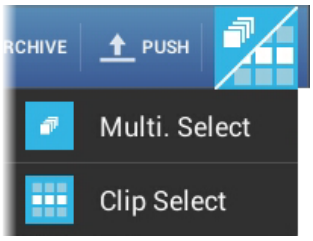
How to Select All Cameras of a Clip

You can select all camera angles of a clip when you activate the clip selection mode on the LSM Connect.

This can be combined with the multiple selection option referred to in multiple selection procedures. In clip selection mode, the empty positions are ignored.

With the Touchscreen

1. Check that the grid view is active in the Clip tab you will work on, otherwise activate it by clicking the above **Grid/List** button.
2. Tap the **Selection** icon and tap **Clip Select** from the contextual menu (and the **Multi.Select** option if requested):



3. Tap a camera position holding video in the clip line you want to select.

   All camera positions holding video are selected.
4. If the multiple selection mode is active, repeat step 3 to select all requested clips.

The selected elements have a blue background. The empty positions are ignored.

How to Select All Elements in a Grid

In the clip tab, in grid view, tap **CTRL+A** to select all clips displayed in the grid.

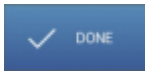
How to Deselect a Single Item

Do one of the following:

- On a touchscreen, tap again the item you want to deselect.
- On a keyboard, highlight the item you want to deselect and press the **SPACEBAR**.

How to Deselect All Items

Do one of the following:

- On a touchscreen, tap 

without performing any other action.
- On a keyboard, press **ESC**.

2.2. Loading and Playing Media

Introduction

You can tap the screen or use keyboard shortcuts to perform the actions of loading, playing, recuing and looping a selected item (clips or playlists).

Most shortcuts work only when you have selected a single element.

When the Remote Panel controls more than one player channel, the shortcut acts on the first controlled player channel.

Loaded items appear on a red background in LSM Connect.

NOTE

To be able to load clips and playlists in LSM Connect, enable the **Load clip/playlist** option in the LSM Connect settings (see section "Server Parameters" on page 100).

How to Load Clips

In Cam Selection Mode

To load a clip on the PGM/PGM1 in **Cam** selection mode:

- With a touchscreen, double tap the clip you want to load.
- With a keyboard, highlight the clip using the **ARROW** keys and press **ENTER**.

The clip is loaded on the PGM/PGM1:

If another clip was already loaded on the PRV/PGM2, it remains loaded on that player channel. No other clip is loaded on the second play channel.

In Clip Selection Mode

NOTE

See section "Selection Modes" on page 8 to activate the **Clip** selection mode.

To load clips on the PGM/PGM1 and PRV/PGM2 in **Clip** selection mode:

- With a touchscreen, double tap the clip you want to load.
- With a keyboard, highlight the clip using the **ARROW** keys and press **ENTER**.

The preferred clip (*) is loaded on the PGM/PGM1.

The secondary clip (=) is loaded on the PRV/PGM2:

Each time you double tap or press **ENTER** again, the clip loaded on the PRV shifts to the PGM, and the clip on the next cam is loaded on the PRV:

For example, if all cam angles from A to H are filled in, and A position is the preferred clip, and C the secondary clip:

1. Cam A is loaded on PGM and cam C is loaded on PRV
2. Cam C is loaded on PGM and cam B is loaded on PRV
3. Cam B is loaded on PGM and cam D is loaded on PRV
   (cam C has already been loaded)
4. Cam D is loaded on PGM and cam E is loaded on PRV
5. ...

How to Load Playlists

In **Playlist Headers** view, do one of the following actions:

- With a touchscreen, double tap the playlist header.
- With a keyboard, highlight the requested playlist header using the **ARROW** keys and press **ENTER**.

The first playlist element is loaded on the PGM and second element on the PRV.

In **Playlist Details** view, do one of the following actions:

- With a touchscreen, double tap the play element you want to load.
- With a keyboard, highlight the requested playlist item the **ARROW** keys and press **ENTER**.

The tapped playlist element is loaded on the PGM and next playlist element on the PRV.

How to Play the Loaded Item

- On a keyboard, press **ALT+P** to alternately play or pause the loaded item.

If the loaded element is an SLSM clip, the element is played at nominal speed.

How to Recue the Loaded Item

- On a keyboard, press **ALT+R** to recue the loaded item.

A clip is recued at its TC IN.

A playlist is recued at TC IN of the first element.

How to Loop the Loaded Item

- On a keyboard, press **ALT+Y** to start playing the loaded item in loop mode.

NOTE

These shortcuts are only available if you are connected to a server running Multicam 14.1 or a more recent version.

3. Clip Management

3.1. User Interface

3.1.1. Clip Tab

Opening the Clip Tab

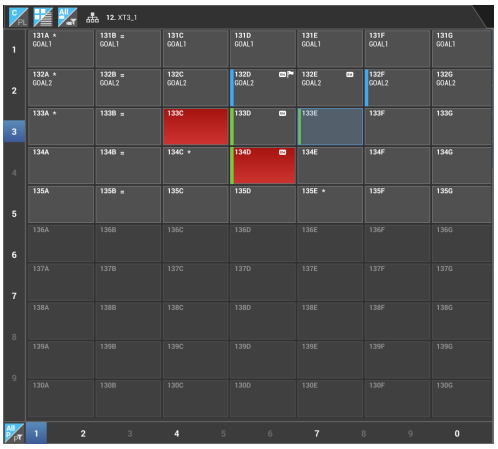
The clip tab displays clips stored on the local or on a distant EVS server.

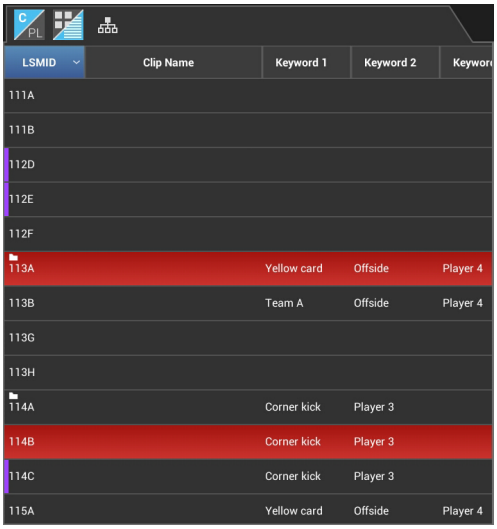
By default, the clip tab is displayed on the left of the LSM Connect main window.

However, you can display the clip tab on the right, or even open two clip tabs on the main window.

To open a clip tab in a pane, tap the **Clip/Playlist** button at the top of the pane to highlight the upper corner of the button and activate the clip view:

Overview of the Clip Tab





The clip tab is made up of two areas:

- The **option bar** at the top, which contains buttons to specify how and which information is displayed in the tab. The option bar is very similar in the grid or list view.

  See section "Modifying the Views" on page 20 for more information on buttons in the option bar.

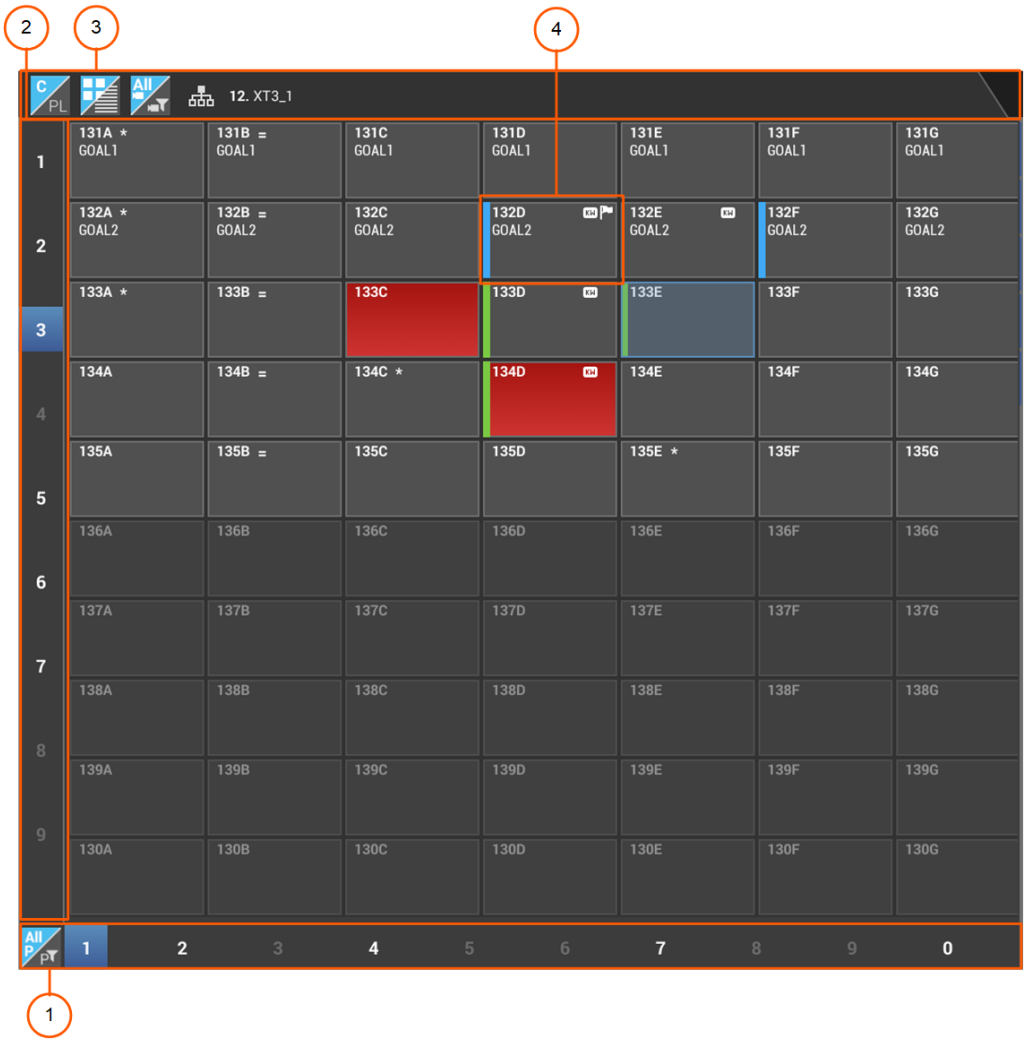
- The **main area** of the tab which shows the clips in a **grid view** (left screenshot) or **list view** (right screenshot).

  See section "Overview of the Grid View" on page 16 and "Overview of the List View" on page 18 for more information on the main area.

3.1.2. Overview of the Grid View

Introduction

In grid view, the clips stored on page 1, bank 1 of the local EVS server are displayed by default. The empty clip positions are displayed. It is also possible to display the clips of a distant EVS server.



Page Selection (1)

The current page is displayed on a blue background.

The pages with clips are in white font. The empty pages are dimmed.

By default, the page filter on the left is enabled , which means only the pages selected in the **Set Page Filter** setting are displayed. You can tap the page filter to disable or enable it again.

Bank Selection (2)

The banks with clips are in white font. The empty banks are dimmed.

The current bank is displayed on a blue background.

Option Bar (3)

In the option bar, you can perform the following actions to change the information displayed:

Icon	Description
	Displays the Clip tab or Playlist tab
	Displays the grid view or list view
	Display All Cams or Selected Cams . This depends on the **Set Camera Filter** setting in the Server Parameters section.
	Enables access toclips on a distant EVS server.
	Specifies the EVS server the displayed clips are stored on.

Clip Box (4)

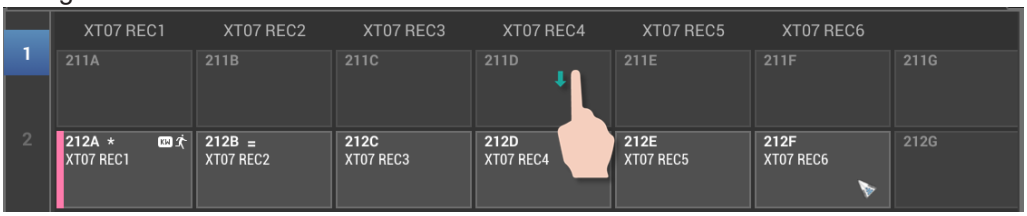
The clip box displays the clip information and metadata.

When you select a clip, the clip metadata is displayed in a toolbar on the right of the screen. You can edit the clip metadata in the toolbar.

See section "Defining Clip Metadata" on page 40.

NOTE

When you swipe down the grid view, you will see the cameras corresponding to the clip positions. This allows you to see the number of recorders in the current Multicam configuration.

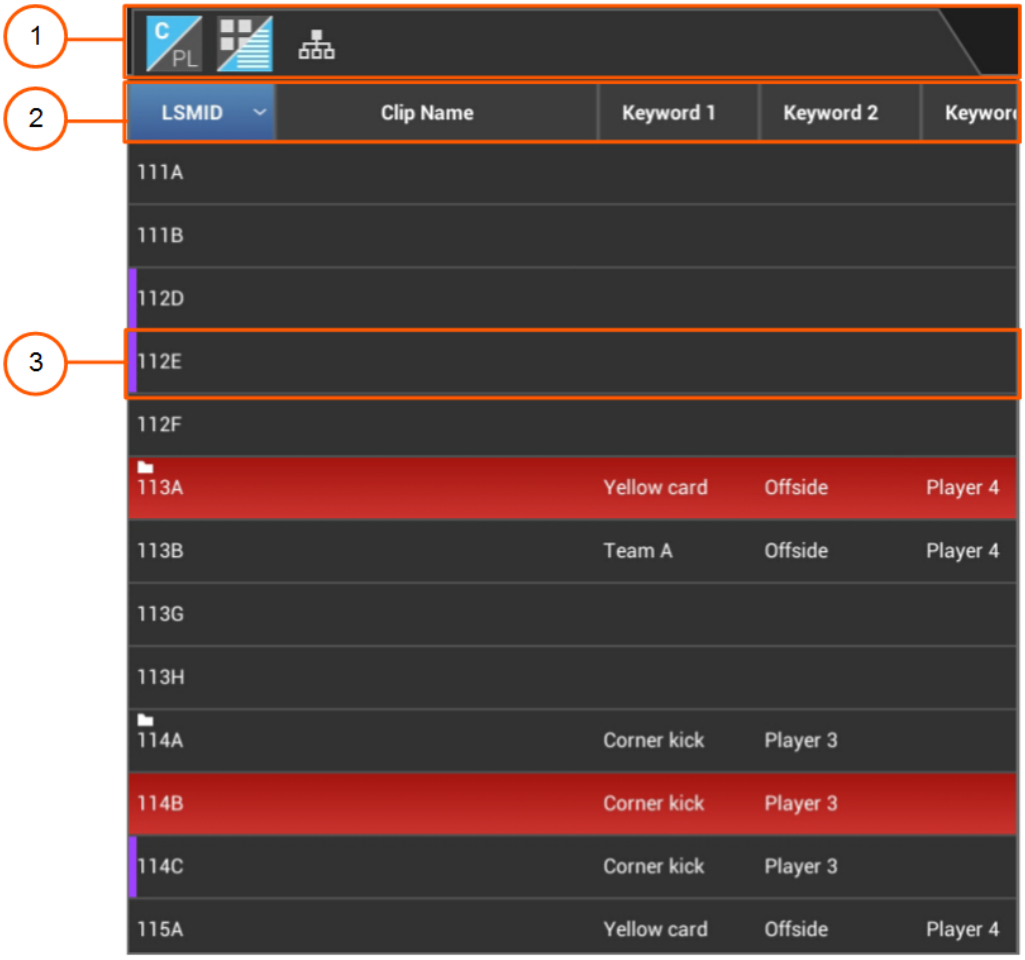


3.1.3. Overview of the List View

Introduction

In 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 of the local and/or one or more distant EVS servers in the same list.



Option Bar (1)

In the option bar, you can perform the following actions to change how and which information is displayed:

Icon	Description
	Displays the Clip tab or Playlist tab
	Displays the grid view or list view
	Allows accessing clips on a distant EVS server.

List Columns (2)

The column information and metadata fields are displayed in list view. The values in a column can be sorted.

The following columns can be displayed in list view. You can specify which columns are displayed, and how they are ordered in the table. See section "Modifying the Views" on page 20.

Column Name	Description
LSM ID	LSM ID of the clip
Clip Name	Name of the clip
Keyword 1 - 5	Keywords assigned to the clip
TC IN	Timecode of the short IN point of the clip
Duration	Duration of the clip in hh:mm:ss:ff
Camera	Original camera angle used to create the clip.

Clip Row (3)

The clip row displays the clip information and metadata.

When you select a clip, the clip metadata is displayed in a toolbar on the right of the screen. You can edit the clip metadata in the toolbar.

See section "Defining Clip Metadata" on page 40

3.1.4. Modifying the Views

Introduction

When you open the Clip view in a tab, you can display the clips in different ways, and adapt the clip information you want to display.

The following table provides an overview on the various ways to modify the display and the option available depending on the view type (grid or list view):

Action	Grid View	List View
How to Activate the Grid View or List View	X	X
How to Filter the Displayed Camera Angles	X	
How to Display or Hide Columns		X
How to Change the Column Position		X
How to Sort Clips		X

How to Activate the Grid View or List View

To activate grid view:

- Click the **View** button so that the upper corner of the button is highlighted in blue:

To activate list view:

- Click the **View** button so that the lower corner of the button is highlighted in blue:

How to Filter the Displayed Camera Angles

NOTE

This is only available in grid view.
By default, all camera angles are visible in the grid view.

To activate or deactivate the camera filter, do one of the following actions:

- Click the **Camera Filter** button in the option bar.
- Press **CTRL+F** on the keyboard.

All camera angles are shown when the upper corner of the button is highlighted in blue:

Only the camera angles selected in the **Set Camera Filter** parameter are shown when the lower corner of the button is highlighted in blue.

How to Display/Hide Columns

NOTE

This is only relevant in list view.

To display or hide columns in list view, proceed as follows:

1. Touch and hold the column heading.

   This opens the Edit Clip List Columns dialog box.

2. In the dialog box, do the following:
   - select the columns you want to be displayed
   - deselect the columns you want to be hidden.

3. Tap **OK**.

You will return to the main window and the columns are displayed or hidden in list view based on your selection.

How to Change the Column Position

NOTE

This is only relevant in list view.

To change the column position in list view, proceed as follows:

1. Press the column heading.

   This opens the Edit Clip List Columns dialog box.

2. In the dialog box, touch and hold the column name until a green bar is displayed to indicate the column position in the list.
3. Drag and drop the green bar to the desired position in the list.
4. Tap **OK**.

You will return to the main window. The new column order is displayed in list view.

How to Sort Clips

NOTE

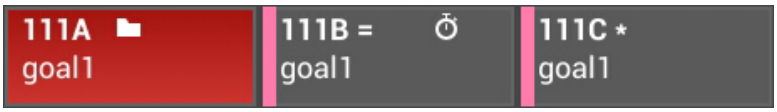
This is only relevant in list view.

To sort clips downwards or upwards based on the field values in a column, tap the appropriate column heading.

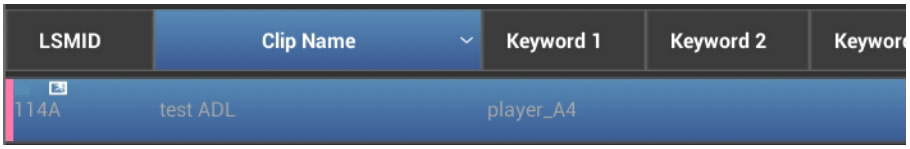
3.1.5. Clip Display in Grid and List Views

Introduction

In the clip tab in grid view, each camera angle (A to L) of a clip position is represented by a rectangle:



In the clip tab in list view, each clip position is represented as a row in the list:



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

Clip Background or Highlight

By default, the background of the clip box or clip row is middle gray, and the clip box or clip row is surrounded by a light gray line. Other background colors have a specific meaning, as explained in the table below:

Background color or Highlight	Clip Box	Meaning
Middle gray background	171D	Filled clip position (not highlighted, not selected and not on air).
Dimmed background (+ dimmed LSM ID)	811A * testrcp	Codec mismatch between clip and EVS server configuration
Blue background	171B =	Selected clip
Red background	171A *	Loaded clip

Background color or Highlight	Clip Box	Meaning
Dark gray background (+ dimmed LSM ID)		Empty position This is not available in list view.
Grey-blue background (+ dimmed LSM ID)		Highlighted clip (by means of the Arrow keys, not via the touchscreen)

Local Clips vs. Distant Clips

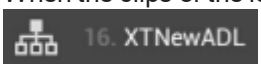
Introduction

The local and distant clips, just like the local or distant servers, are displayed on different backgrounds to easily distinguish between them.

In Grid View

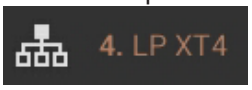
In grid view, you can select one EVS server at a time. The EVS server name and net number whose clips are displayed in the grid are specified at the top of the clip tab, next to the **Network** icon:

- When the clips of the local server are displayed, the server name appears in white:

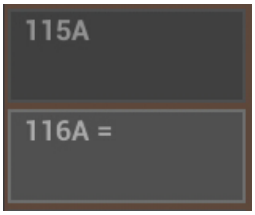
  

  The clip box numbers are displayed on a dark gray background in the grid:

- When the clips of a distant server are displayed, the server name is in a brown font:

  The clip boxes are displayed on a dark brown background in the grid:

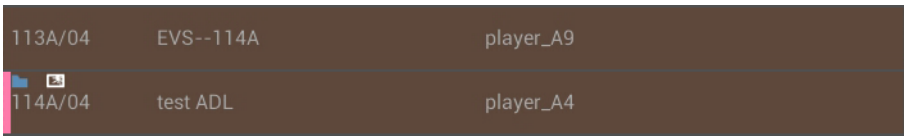
  

In List View

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

- The local clips are displayed on a dark gray background:

- The distant clips are displayed on a dark brown background:



Clip Metadata

The table below describes the clip metadata displayed in the grid or list when it has been defined in the clip toolbar. A cross in the columns on the right means the information is available in grid view and/or in list view:

Metadata type	Description	Grid	List
Clip LSM ID	LSM ID in white font if a clip is stored at the given LSM ID position. LSM ID is dimmed if no clip is stored or if the configuration does not include the corresponding recorder channel.	X	X
Clip type	* for primary clip, = for secondary clip	X	
Auxiliary clip	in the lower right corner indicates that the clip is an auxiliary clip.	X	X
Archive status	Blue folder if the clip has already been archived. White folder if the clip is tagged as 'to be archived' Otherwise, no icon.	X	X
Protected status	White lock if the clip is protected by an LSM user, Red lock if the clip is protected by other users Otherwise, no icon.	X	X
Emoticon	You can add an additional icon that can be used to easily identify specific clips.	X	X
Keywords	indicates that keywords are associated with this clip. Otherwise, no icon.	X	X
Colored left border	The color that can be defined in the toolbar to easily identify specific clips is displayed as a border on the left of the box.	X	X

3.1.6. Clip Toolbar

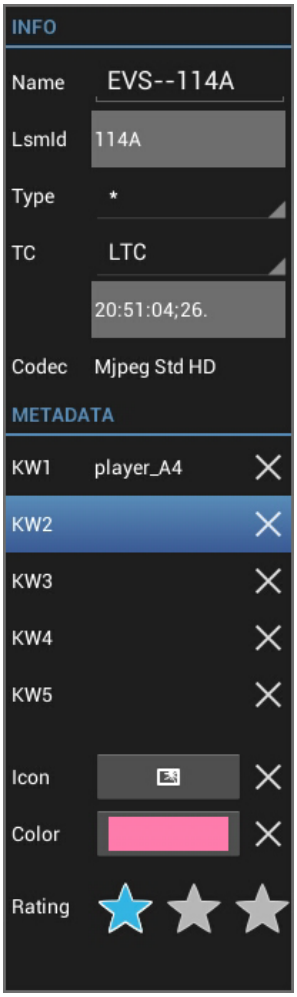
Introduction

From the clip toolbar, you can define and edit the metadata of the clip selected in the grid or list view.

The information defined in the clip toolbar is displayed in a short form in the grid or list view.

This topic describes all fields, and explains how each field can be edited.

See section "Defining Clip Metadata" on page 40 for more information on editing the clip information and metadata.



Info Area

Name

The **Name** field displays the clip name assigned in one of the Multicam user interfaces, or via the Remote Panel.

Clip ID

The **Clip ID** field displays by default the LSMID of the clip.

You can also display the other clip identifiers by tapping the field name, which toggles the ID display between LSMID, VARID and UMID.

Type

The **Type** field allows users to assign a clip type to the clip by selecting one of the following type symbols:

Type Symbol	Description
Asterisk (*)	Symbol used for the preferred camera, that is the primary output channel at clip creation.
Double dash (=)	Symbol used for the secondary camera, that is the clip that was loaded on the next output channel at clip creation.

TC (Type)

The **TC** field allows users to select the timecode type to be displayed on the OSD among the following types:

Type Symbol	Description
LTC	Timecode defined on or plugged into the EVS server and stored in the LTC table in Multicam. When the LTC timecode is selected, the timecode is displayed in white in the field below the TC selection.
USER	Timecode selected by the user and stored in the User TC table in Multicam. When the USER timecode is selected, the timecode is displayed in yellow in the field below the TC selection.

TC (Value)

The field without label, below the **TC** field, displays the timecode of the Short IN point of the clip.

Depending on the TC type selected in the **TC** field, the LTC timecode (white font) or USER timecode (yellow font) is displayed.

Codec

The **Codec** field displays the codec selected for the current Multicam configuration.

This field cannot be edited in LSM Connect.

Metadata Area

KW fields

The keywords assigned to the clip selected in the grid or list view are displayed in the **KW** fields. Keywords can be assigned or removed from each keyword field.

Icon

The **Icon** field allows users to assign an icon to characterize the clip.

Color

The **Color** field allows users to assign a color to characterize the clip.

Rating

The **Rating** field allows user to assign a ranking to the clip by selecting star symbols.

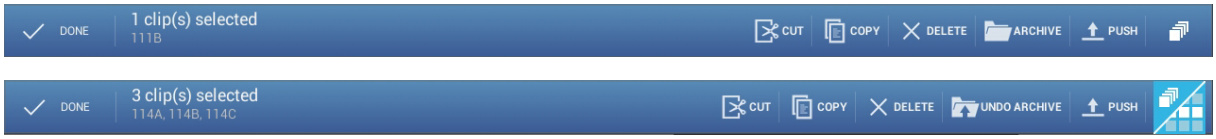
NOTE

Icon and **Color** metadata are local only and not shared with other users on the network.

3.1.7. Contextual Action Bar in Clip Tab

Introduction

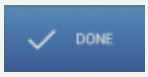
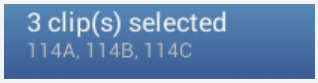
Besides editing clip properties and metadata, the actions you can perform on clips are available as a contextual action bar (CAB) once you have selected at least one item in the clip tab:



The commands in the CAB have a corresponding shortcut key you can use on a keyboard.

General Buttons and Information

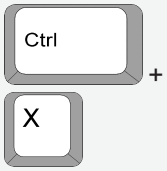
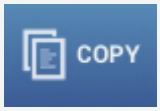
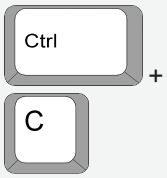
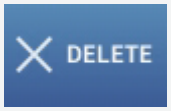
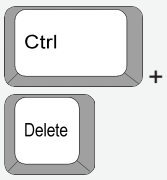
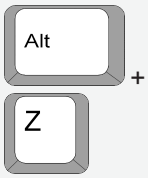
The CAB contains the following buttons or information related to the selection itself:

GUI element	Description
	Allows you to confirm the executed action. This confirms the action and closes the CAB.
	Displays the number of selected items, and their LSMID.
	Allows you to see which selection type is active and activate one of the following selection types via a contextual menu. By default, when this icon is displayed on a dark blue background, the single selection mode and the cam selection mode are active. See section "Selecting Items" on page 8.
	The multiple selection mode is active: It means you can select multiple items. You can press **CTRL+M** to activate and deactivate multiple selection mode.
	The clip selection mode is active: It means that when you select an element in the clip tab, all camera angles of the clip are selected. This is equivalent to Clip mode on the Remote Panel or VGA. You can press **F2** to activate and deactivate Clip selection mode.
	The multiple selection and clip selection modes are both active. It means you can select multiple clips with all their camera angles.

General Actions on Clips

The table below describes briefly the commands for clips available in the CAB.

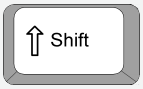
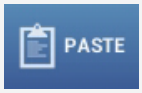
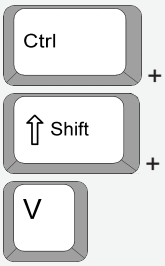
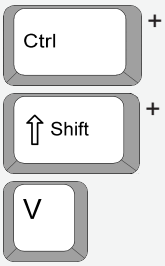
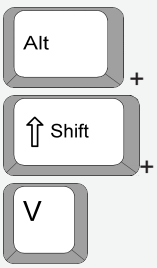
Some of the actions are explained in procedures in separate topics in the Operation section:

Action button	Keyboard shortcut	Description
		Allows you to cut selected clips, and store them on the clipboard. They can then be pasted to an empty position. See section "Copying and Moving Clips" on page 49
		Allows you to copy selected clips, and store them on the clipboard. They can then be pasted to an empty position. See section "Copying and Moving Clips" on page 49.
		Allows you to delete selected clips.
		Allows you to set selected clips as 'to be archived': • When the clips have been set as 'to be archived' but have not been archived yet, a white folder is displayed in the grid view. • When the clips have effectively been archived, a blue folder is displayed in the grid view.
	-	Allows you to push selected clips to the location defined in the Push settings in the Multicam Configuration module or to other EVS servers detected.

Copy and Move Actions

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.

See section "Copying and Moving Clips" on page 49 for detailed procedures:

Action button	Keyboard shortcut	Description
	 (in association with Paste shortcuts)	When you have selected one or more clips to move or copy, you can activate the **Short Copy** to copy only the clip from Short IN to Short OUT.
	 Use (**SHIFT** only for Short copy)	When you have selected a single clip, you can copy it to the selected new position using the **Paste** icon in the CAB.
	 (Use **SHIFT** only for Short copy)	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, on the same CAM as the original.
	 (Use **SHIFT** only for Short copy)	When you have selected several clips, you can copy them to the selected new position using the **Paste Contiguous** icon in the CAB. In this case, the clips are pasted one after the other from the selected position, disregarding the CAM name. See section "Overview of LSM Connect Settings" on page 93 for more information on the **Paste Contiguous** setting, which allows you to select the camera positions where the clips will be pasted.

3.2. Operation

3.2.1. Accessing Clips

Introduction

In the clip tab, you can access local clips and distant clips located on EVS servers available on the network.

As you can display clips in grid view or list view in the clip tab, this section explains how to access clips in both views. By default, the clip tab is open in grid view.

You can access clips using the keyboard or the touchscreen:

- See section "Keyboard Shortcuts for Navigation" on page 34 to see which keyboard shortcuts you can use.
- See the procedures below to find out how to access clips using the touchscreen.

Accessing Local Clips in the Grid View

Introduction

By default, the clips stored on the first page and bank of the local server are displayed in the grid. This section explains how to move through the pages and banks and access clips with the touchscreen. Empty pages or banks are dimmed, but can be accessed.

Procedure

To display the requested local clips in grid view, proceed as follows:

1. In the clip tab, tap to select the grid view.
2. To select another page, tap the requested page number on the page selection bar (horizontal bottom bar) in grid view.
3. To select another bank, tap the requested bank number on the bank selection bar (vertical left bar) in grid view.

The clips displayed in the grid are dynamically updated based on the page and bank selection.

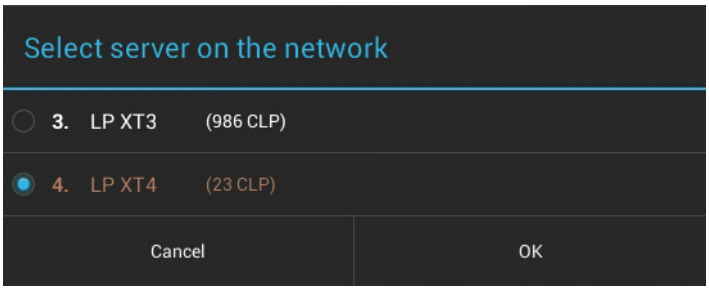
Accessing Distant Clips in the Grid View

To display distant clips in grid view, proceed as follows:

1. In the clip tab, tap to select the grid view.

2. Tap the **Network** icon .

   The Select server dialog box is displayed:



3. Tap the EVS server whose clips you want to view in the grid.
4. Click **OK**.

The clips of the distant server are displayed in the grid on a dark brown background.

The name and number of the distant server are displayed at the top of the clip tab.

By default, the clips stored on the first page and bank are displayed. Proceed in the same way as for the local clips (see above procedure) to display the clips stored on another page or bank.

Accessing Local and/or Distant Clips in the List View

Introduction

By default, all clips stored on the local server are available in list view, and are ordered by LSMID in ascending order.

The following procedure allows you to:

- select the servers (local and/or distant) whose clips have to be displayed in list view.
- select the pages and banks to be displayed on the selected server(s).

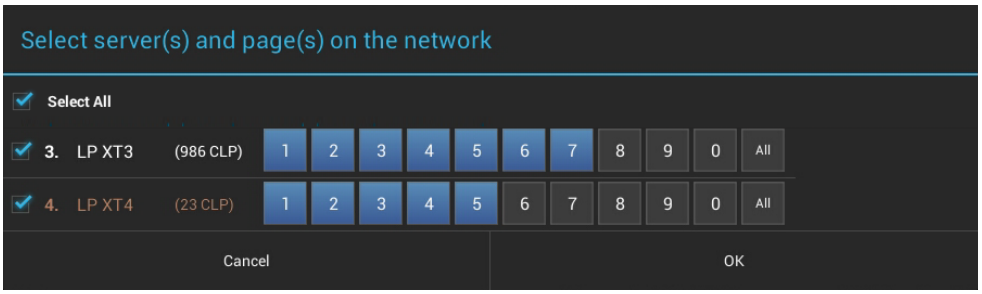
Procedure

To select the local and/or distant clips to be displayed in list view, proceed as follows:

1. In the clip tab, tap to select the list view.

2. Tap the **Network** icon .

   The Select server and page dialog box is displayed:



3. To select one or more servers, tap the check boxes corresponding to the servers whose clips you want to display.

   Check or uncheck **Select All** to select or deselect all servers and all banks.

4. To select one or more pages whose clips you want to display, tap the requested page numbers for each selected server.

5. Tap **OK**.

The clips displayed in the list view are automatically adapted based on the selected servers and pages.

When several servers have been selected, first the clips on the local server are displayed, followed by the clips on the first distant server, then the clips of the second distant server, and so on.

3.2.2. Keyboard Shortcuts for Navigation

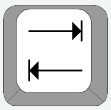
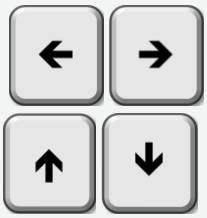
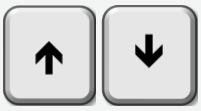
Introduction

You can use the keyboard shortcuts described in this section to browse in the clip tab, in either grid or list view, as well as to browse between pages and banks, and between local and distant servers.

The procedures and keyboard shortcuts for selecting items are detailed in the general topic "Selecting Items" on page 8.

Shortcuts for Navigation within the Grid or List View

The following shortcuts are valid in the clip tab, in grid and/or list views:

To perform the following action ...	Use the keyboard shortcut ...	Grid View	List View
Jump to the next tab (playlist or clip tab) on the right or on the left		X	X
Go to the contiguous elements in the grid.		X	-
Go to the next or previous element in the list		-	X

NEW !

NOTE

In grid view, if the selected element is the first/last clip of a bank, press the ↑ / ↓ key to access the previous/next bank.
If the bank is the first/last of a page, it automatically jumps to the previous/next page.
For example:

- If the current Page/Bank is Page 1/Bank 1, press the ↑ key to access the last clip slot of Page 0/Bank 9.
- If the current Page/Bank is Page 0/Bank 9, press the ↓ key to access the first clip slot of Page 1/Bank 1.

Shortcuts for Navigation in Pages and Banks in Grid View

The following shortcuts are only valid in the clip tab, in grid view.

The shortcuts are not applicable in the clip tab, in list view.

To perform the following action ...	Use the keyboard shortcut ...
Go to the next page	Page Up or Alt + →
Go to the previous page	Page Down or Alt + ←
Go to the next bank	Alt + ↓
Go to the previous bank	Alt + ↑
NEW ! Go to the corresponding page	Ctrl + **number key in alphanumeric keyboard**
NEW ! Go to the corresponding bank	Alt + **number key in alphanumeric keyboard**
Go to bank 1 of the current page	Home
Go to bank 9 of the current page	End

Shortcuts for Accessing Network Navigation Dialog Boxes

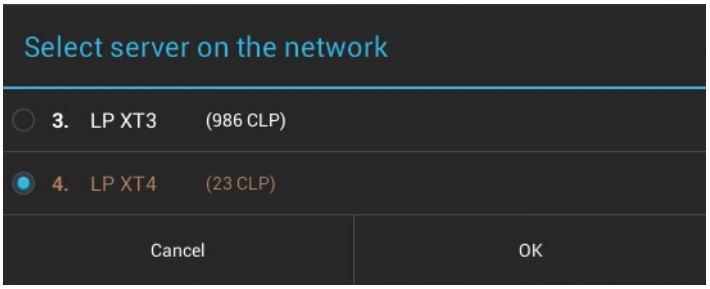
The general shortcut keys specified below are valid in the clip tab, grid and/or list view.

To perform the following action ...	Use the keyboard shortcut ...	Grid View	List View
Opens the window for distant server selection	F9	X	X
Returns to the local server	Alt + L	X	

Shortcuts in Select Server Dialog Boxes

From Clip Tab in Grid View

The following shortcuts can be used to select a distant server in the **Select server on the network** dialog box. This dialog box is accessed from the clip tab, in grid view.

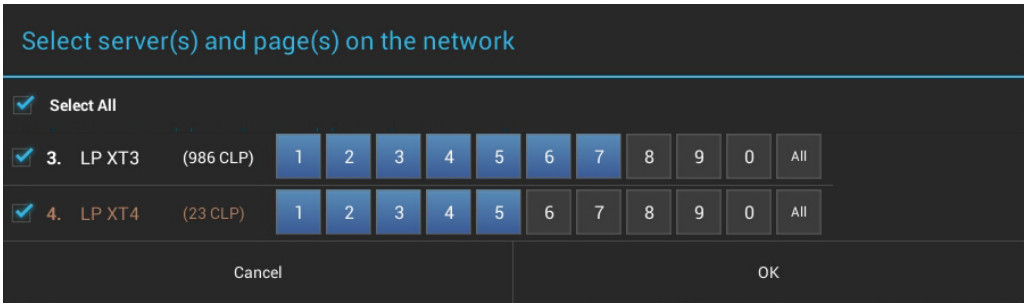


The following shortcuts are available in this dialog box:

To perform the following action ...	Use the keyboard shortcut ...
Highlights the next or previous item in the list.	↓ or ↑
Selects the highlighted item	(Space)
Selects the highlighted item and closes the window.	Enter
Closes the window without saving the changes	Esc

From Clip Tab in List View

The following shortcuts are relevant and/or valid in the **Select server(s) and page(s) on the network** dialog box, where you can select the servers and the pages to be displayed in list view:



This dialog box is available from the clip tab, in list view.

To perform the following action ...	Use the keyboard shortcut ...
Highlights the next or previous item in the list.	↓ or ↑
Selects / deselects the highlighted item	(Space)
Selects the highlighted item and closes the window.	Enter
Closes the window without saving the changes	Esc
Selects / deselects all pages of the highlighted server	Shift + A
Select / deselects the corrresponding page number for the highlighted server	Shift + **number key in alphanumeric keyboard**

3.2.3. Recalling Clips or Trains

Recalling a Clip in the Clip Grid or Clip List

When you recall a clip in the clip grid or clip list, it is loaded in the PGM in PGM/PRV mode or in the PGM1 in multi-PGM mode.

- To recall a clip in the clip grid or list, simply double tap the clip you want to recall.

The clip is displayed on a red background. As it is also selected with a double tap, you will however only see the blue background on the top.

Recalling a Clip or Train via the Call Media Window

NOTE

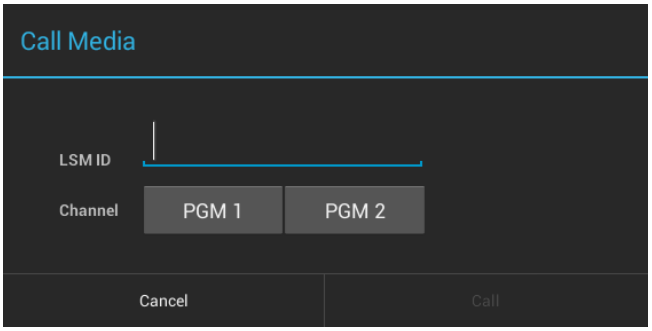
Recalling a local or distant train from the **Call Media** window works in a similar way as recalling a clip. You will simply type the cam number instead of the clip LSM ID.

When you recall a clip via the **Call Media** window, you can choose the player channel you load it on.

To recall a clip via the **Call Media** window, proceed as follows:

1. From the clip grid or list, press **F3** on the keyboard.

   The **Call Media** dialog box opens:



2. Type the clip ID in one of the following ways:
   - To recall a local clip associated to a given camera, type the LSM ID and the camera name (e.g. 145C).
   - To recall a distant clip, type the LSM ID and the server net number (e.g. 145C/04).
   - To recall a local train, type the camera number (e.g. B)
   - To recall a distant train, type the camera number and the server net number (e.g. B/04)
3. Select a player channel in one of the following ways:
   - Tap the button corresponding to the player channel you want to load the clip on;
   - Press the function button on the keyboard that corresponds to the PGM number (F1 for PGM 1, F2 for PRV or PGM 2, F3 for PGM 3, etc.).

   If you do not select any player channel, the requested clip will be loaded on the player channel that is controlled by the Remote Panel and that has the smallest PGM number (for example PGM 1 if the Remote Panel controls PGM 1 and PGM 2).
4. Tap **Call** or press **Enter** on the keyboard to recall the clip.

   Tap **Cancel** or press **Esc** on the keyboard to cancel the action.

The **Call Media** dialog box closes, and the requested clip is loaded on the player channel you have selected.

3.2.4. Defining Clip Metadata

Introduction

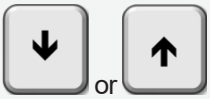
From the clip toolbar, you can define and edit the metadata of the clip selected in grid or list view. Most actions described below can be applied on one clip selected in the grid or list view.

You can also assign metadata to a portion of video limited by IN and OUT points set on the LSM Remote, even if the clip has not yet been created.

Summary of Shortcut Keys

The table below summarizes the shortcut keys you can use in the toolbar fields.

These are only valid for text and drop-down fields. The shortcuts described above cannot be used in the Pick keyword dialog box.

To perform the following action ...	Use the keyboard shortcut ...
Highlight the next or previous field (Valid for Name, Type, TC, Icon, Color and Rating fields)	
Select the highlighted item	(Space)
From the toolbar: • Display the values list, when a drop-down field is highlighted. • Open a secondary window with a values list. From a secondary window: • Select the highlighted item and close the window.	
From a secondary window: Close the window without saving the changes	
From the toolbar, open a dialog box to assign a name to the clip or modify the current name.	

How to Assign or Modify a Clip Name with the Touchscreen

To assign/modify the name of one or more clips with the touchscreen, proceed as follows:

1. In the clip tab, tap the clip(s) whose name you want to assign or modify.
2. In the clip toolbar, tap the **Name** field.

   The virtual keyboard appears.
3. Type the requested name in the virtual keyboard.
4. Click **Next** on the keyboard.

The name is applied to the selected clip(s).

How to Assign or Modify a Clip Name with a Keyboard

NOTE

To be able to load clips and playlists in LSM Connect, enable the **Load clip/playlist** option in the LSM Connect settings (see section "Server Parameters" on page 100).

There are two ways to assign/modify the name of one or more clips with a physical keyboard.

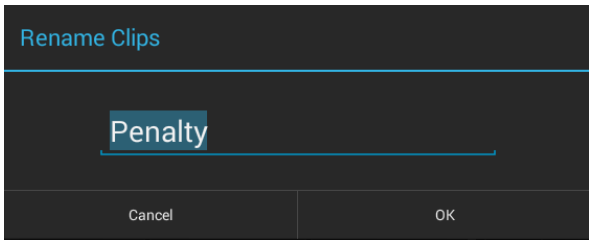
1. In the clip tab, click or tap the clip(s) whose name you want to assign or modify.
2. Either:
   - Use the keyboard to start typing the new name.

     The **Rename Clips** dialog box is displayed with the letters you have just typed entered in the name field.

   Or:

   - Press **F1**.

     The **Rename Clips** dialog box is displayed with the last name entered in this field highlighted.



3. Type a name based on the displayed string, using the edit keys to move, select, cut and/or copy.
4. If you want to give the clips another name, press **Delete** to clear the name field and type in another name.
5. Press **Enter** to apply the new name to the selected clip(s), or press **Esc** to cancel the action.

NEW !

NOTE

If you edit the content of the **Rename Clips** dialog box, the modified content will be kept even if you cancel the action.

How to Change the Clip Type or TC Type with a Keyboard

To change the clip type or TC type of a selected clip in the clip toolbar using a physical keyboard, proceed as follows:

1. Highlight the clip type or TC type field in the clip toolbar.
2. Press **Enter** to display all values in the drop-down list.
3. Use the **Arrow Up** and **Arrow Down** keys to select the requested value.
4. Press **Enter** to select the value and validate the change.

The selected field value is displayed in the toolbar.

How to Assign a Keyword

To be able to assign keywords with LSM Connect, a current keyword list has to be imported from the Maintenance menu, or defined in the Multicam settings, Operation tab, Keywords section, **Keyword file** field. See section "Customization Settings" on page 99.

To assign a keyword, proceed as follows:

1. Tap a KW field.
2. Tap the required keyword from the **Pick Keyword** dialog box.
3. Tap **OK**.

The keyword is displayed in the toolbar.

How to Assign an Icon

To assign an icon, proceed as follows:

1. Tap the **Icon** field
2. Select the requested icon from the **Pick an Icon** dialog box.

The dialog box closes, and the icon is directly assigned to the clip.

NOTE

You can also use the above-mentioned keyboard shortcuts to assign an icon.

How to Assign a Color

To assign a color, proceed as follows:

1. Tap the **Color** field.
2. Select the requested color from the **Pick a Color** dialog box.

The dialog box closes, and the color is directly assigned to the clip, and displayed in a thin bar on the left of the clip box in the grid view or the clip row in the list view.

NOTE

You can also use the above-mentioned keyboard shorcuts to assign a color.

How to Remove a Keyword, Icon or Color

To remove a keyword, icon or color, tap the cross on the right of the field whose value you want to unassign.

The value is removed from the field.

How to Add a Rating

To add a rating, tap the last star on the right to be included in the rating. For example, to assign three-star rating, you will tap the third star from the left.

To reduce a rating, tap the last star on the right to be included in the rating.

To remove a rating, tap the **Rating** field label.

NOTE

You can also use the above-mentioned keyboard shortcuts to add a rating.

How to Set the Date and Timecode of a Clip

To modify the date and/or timecode of a selected clip via a touchscreen or a physical keyboard, proceed as follows:

1. Do one of the following to call the **Set timecode and date field** dialog box:
   - Tap the **TC** field in the clip toolbar.
   - Press **Alt + T**.

   The **Set timecode and date field** dialog box opens. See section "Set TC and Date Window" on page 46 for a detailed description of this window.
2. In the **Set time code and date** dialog box, edit the fields as required:
   - via the virtual keyboard on the LSM screen or
   - via a plugged-in keyboard using the keyboard shortcuts listed above.
3. Do one of the following to validate the changes:
   - Tap **OK**.
   - Press **Enter**.

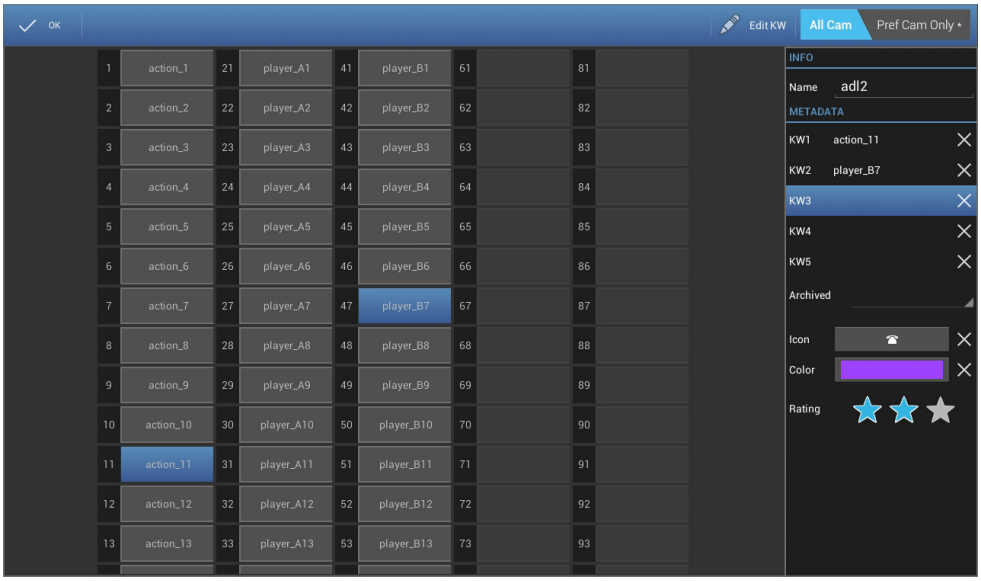
The TC and date information of the clip are modified as specified.

How to Assign Metadata to a Pending Clip

To assign metadata to a pending clip (clip that has not yet been saved on the EVS server), proceed as follows:

1. Add a Mark IN or Mark OUT point on the Remote Panel to intiate the creation of a clip.

   A window similar to the following one opens in LSM Connect:



2. In this window, select the requested keywords on the left pane and/or enter other metadata values in the right pane.
3. In the CAB, select one of the following options:
   - **All Cam** if you want to assign the defined keywords and metadata to all camera angles of the pending clip.
   - **PrefCam Only** if you want to assign the defined keywords and metadata only to the prefered camera angle of the pending clip.
4. On the Remote Panel, add a Mark IN or Mark OUT if required, and save the clip to a clip position.

The clip is created in the selected position, with the keywords and metadata assigned as defined in the LSM Connect.

3.2.5. Set TC and Date Window

Introduction

The **Set timecode and date** window is accessible from the Clip toolbar by:

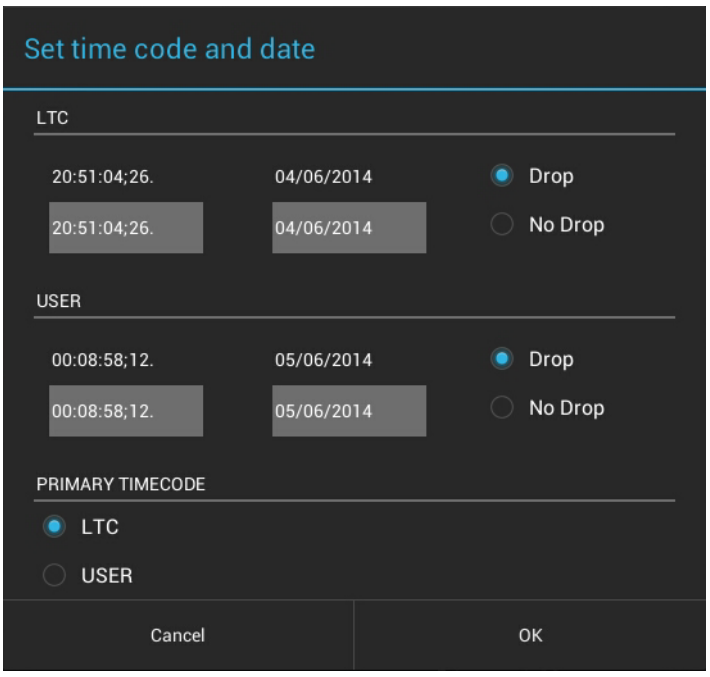
- tapping the TC field in the Clip toolbar
- pressing

on the physical keyboard.

Here you can edit the TC of a clip and the associated TC data:

- If the clip is loaded, the current TC is displayed in the dialog box.
- If the clip is not loaded, the TC IN is displayed in the dialog box.

This topic describes the various fields from left to right, and from top to bottom.



LTC Area

The LTC area includes the fields described below:

Field Name	Description
TC field (top)	Timecode value assigned before the editing action (non-editable)
TC field (bottom)	New timecode value (editable)
Date field (top)	Date value assigned before the editing action (non-editable)
Date field (bottom)	New date value (editable)
Drop / No Drop buttons	Radio button to specify whether the TC is drop frame or non-drop frame

User Area

The same fields as the ones present in the LTC area are displayed, but they apply to the timecode stored in the User TC table.

Primary TC

This section includes two radio buttons to specify which clip timecode should be considered as primary TC:

- **LTC**: Longitudial timecode of the clip
- **User**: Timecode stored in the User TC table in Multicam.

3.2.6. Pushing Clips to Other EVS Servers

Introduction

It is possible to push selected clip(s) to other EVS servers, either defined as targets in the Push settings in the Multicam Configuration module, or chosen by the operator from a list of servers found on the PC LAN.

NOTE

If a default server has been specified in the Multicam Configuration module, the clips are automatically pushed there and the **Select server on the network** dialog box is not displayed.

How to Push Clips to Other EVS Servers

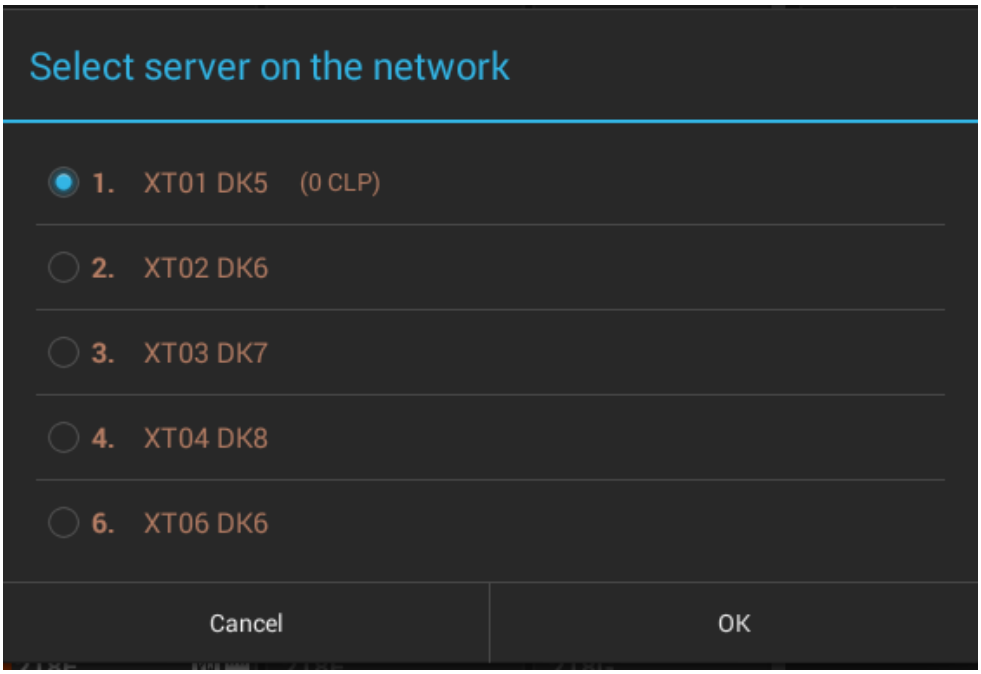
1. In a clip tab, in grid or list view, tap the relevant clips.

   See section "Selecting Items" on page 8 for multiple selection.

2. Tap

in the CAB at the top of the screen.

   If targeted servers were defined in the Multicam, the selected clips are pushed. Otherwise, the following window is displayed. If a server is connected to the same XNet as the associated server, the number of clips on that server is shown between brackets.



   If the window is displayed, proceed as follows:

3. Select one of the detected servers.
4. Tap on **OK**.

3.2.7. 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 or another EVS server.

To copy and move clips, you can use the following commands:

- the commands available in the blue CAB (contextual action bar), at the top of the screen

- the relevant keyboard shortcuts when a physical keyboard is connected to the LSM tablet. See section "Contextual Action Bar in Clip Tab" on page 28.

Basic Principles

As clips can only be pasted on empty positions, always select a first position that is empty for pasting the selected clips. As a consequence, the copy or move actions will therefore only be possible in grid view, not in list view.

When you copy or move a single clip, you perform a simple paste action on an empty position.

When you copy or move several clips, you can select one of the following paste actions:

- **Paste Same Position**, which pastes the selected clips on the same camera positions as the initial clips, if they are empty.

  The paste action would therefore not be performed on positions which already contain a clip. An error message is displayed on the notification area on the bottom right of the screen.

- **Paste Contiguous**, which pastes the selected clips one after the other from the selected position, for all recorders checked in the Paste Contiguous parameter in the settings window.

  The paste action would therefore ignore the unchecked cameras in the Paste Contiguous parameter, and start pasting on the first available camera checked in the settings.

  See section "Overview of LSM Connect Settings" on page 93 for more information on the **Paste Contiguous** setting, which allows you to select the camera positions where the clips will be pasted.

The **Paste Same Position** and **Paste Contiguous** can be combined with the **Short Copy** or **Full Copy** option, as detailed in the procedures:

- **Short Copy**, which pastes the video of the clip between the Short IN and Short OUT of the clip.
- **Full Copy**, which pastes the video of the clip between the Protect IN and Protect OUT.

In both cases, they are augmented by the default guardbands on the destination server.

NEW !

NOTE

The same copied clips can be pasted several times in a row without having to copy them again (the copied clips still stay on the clipboard once they have been successfully pasted).
In a move operation (cut/paste), the clipboard is automatically cleared when the cut clip has been successfully pasted.

How to Copy or Move Clips with the Touchscreen

1. Select the local or distant clip(s) you want to move or copy.

   See section "Selecting Items" on page 8 for more details on selecting clips.
2. Do one of the following actions:
   - To move clips, tap **Cut** in the CAB.
   - To copy clips, tap **Copy** in the CAB.
3. To copy or move the clips to another EVS server, select the requested server via the **Network** icon . See section "Accessing Clips" on page 32.
4. In the clip grid view, select the page, bank and position you want to move your clips to in the following way:
   a. Tap on the desired page at the bottom of the grid view.
   b. Tap on the desired bank on the left of the grid view.
   c. Tap on the desired empty position (position for the first clip in a multi-selection).
5. If you want to perform a short copy, check the **Copy Short** check box.
6. To paste the selected clips, do one of the following actions:
   - In single selection mode, tap **Paste** in the CAB.
   - In multi-selection mode, tap **Paste Same Position** or **Paste Contiguous** in the CAB ("Basic Principles" on page 49).

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

How to Copy or Move Clips with a Keyboard

1. Select the local or distant clip(s) you want to move or copy.

   See section "Selecting Items" on page 8 for more details on selecting clips.

2. Do one of the following actions:

   - To move clips, press Ctrl + X to empty the clip position and place the clips on the clipboard.
   - To copy clips, press Ctrl + C to keep the clips on the current clip position and place them on the clipboard.

3. To copy or move the clips to another EVS server, select the requested server via the the **Network** icon . See section "Accessing Clips" on page 32.

4. In the grid view, select the page, bank and empty position you want to move your clips to:

   a. Go to the requested page with Alt + → and Alt + ← or use the touchscreen.

   b. Go to the requested bank with Alt + ↓ and Alt + ↑ or use the touchscreen.

   c. Using the ↓ → ↑ ← keys, highlight the appropriate position to copy the clip(s).

5. Paste the selected clip(s) with one of the following actions:

To paste ...	Press ...
a single clip	Ctrl + V
several clips in **Full Copy** mode in **Paste Same Position**	Ctrl + V
several clips in **Short Copy** mode in **Paste Same Position**	Ctrl + Shift + V
several clips in **Full Copy** mode in **Paste Contiguous**	Alt + V
several clips in **Short Copy** mode in **Paste Contiguous**	Alt + Shift + V

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

3.2.8. Searching for Clips

Accessing the Search Clip Window

In the Search Clip window, you can search for clips stored on the current and/or on distant EVS servers.

To access the Search Clip window, proceed as follows:

- Tap the magnifier icon on the top right of the main window.
- Press **F8** on the keyboard.

Quick Search and Advanced Search

In the Search Clip window, you can search for clips using two search modes which can be combined:

- The **Quick Search** allows you to perform a free-text search on all clip metadata.

  This search will retrieve all clips whose metadata includes the searched text string.

  It is available from the search field in the CAB:

- The **Advanced Search** allows you to perform more precise searches, or restrict the results of the quick search, by selecting search criteria on specific metadata fields.

  This search will retrieve all clips whose metadata match all values specified in the **Advanced Filters** pane.

  The Advanced Filters pane is accessed by tapping the Advanced Search button in the Search pane:

NOTE

If search criteria are defined both in the Quick Search field, and the Advanced Filters pane, LSM Connect will retrieve the clips which fulfill the criteria specified in both the quick **and** advanced searches.

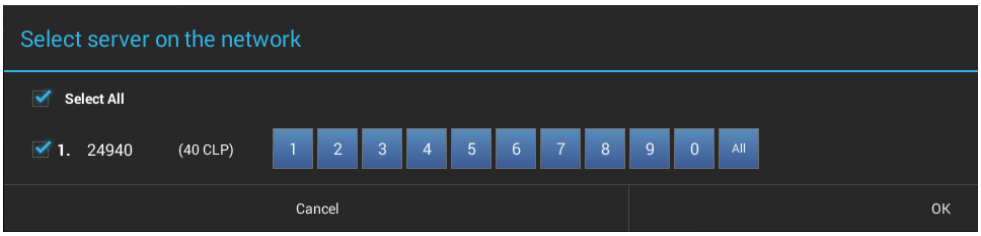
How to Select the Servers and Pages to be Searched

By default, the quick searches and advanced searches are performed on all pages of the local server.

However, you can select one or more servers on the network, as well as specific pages for each server, to perform a search. You can select this at any time, like any other search field.

1. In the **Advanced Filters** pane of the **Search Clip** window, tap the **Local** button next to the **Server** field.

   The following dialog box opens:



2. In this dialog box, select the servers, and the pages for each selected server, on which you want to perform the search.

   Check or uncheck **Select All** to select or deselect all servers and all banks.

3. Click **OK**.

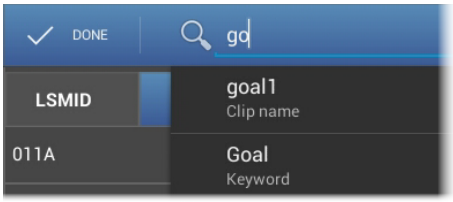
In the **Server** field, the button now displays the name(s) of the EVS servers you have selected.

How to Perform a Quick Search

To perform a quick search on clips, proceed as follows:

1. In the Search window, type the text you want to search for to 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 whose metadata contain the requested text are displayed in the grid of the Search Results pane.

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

You can further restrict your search by defining specific metadata values in the Advanced Filters pane, as explained below.

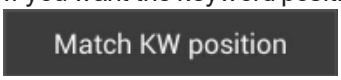
How to Perform an Advanced Search

Whether you have entered a search string or not in the Quick Search field in the CAB, you can enter search criteria for specific metadata in the Advanced Filters pane. The results retrieved will meet all defined criteria.

To perform an advanced search, proceed as follows:

1. If the Advanced Filters pane is not displayed on the right of the Search Clip window, tap the **Advanced Filters** button.
2. Fill in the fields for which you want to define search criteria.

   If you want to clear a field value, click the cross sign, or select an empty value depending on the field type.

3. For a search based on a specific keyword:
   a. Type a keyword field.
   b. Select the keyword to be used as the search criterion.
   c. Tap **OK**.
   d. If you want the keyword position to be taken into account in the search, tap 

.

As you define you search criteria, the results are updated in the **Search Result** pane.

NOTE

You can save your search criteria in the settings (see section "Customization Settings" on page 99).

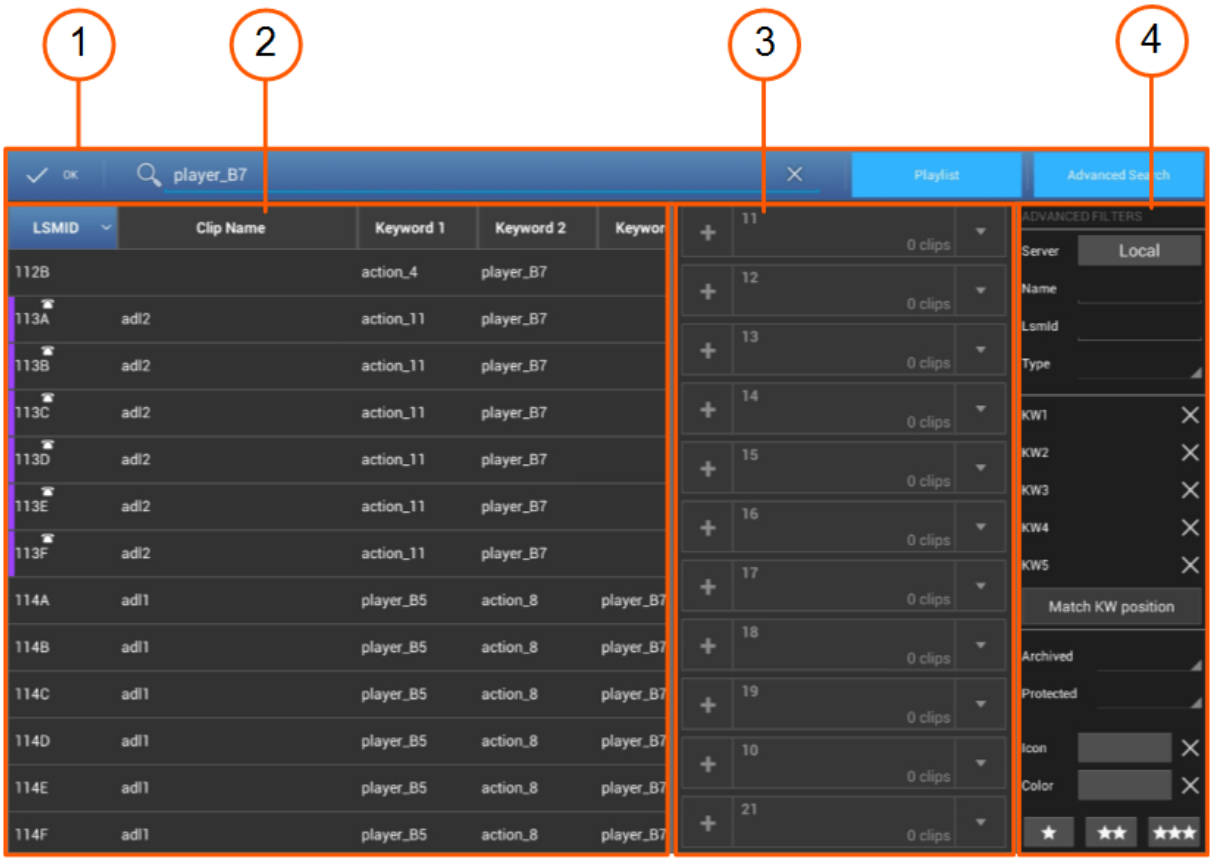
3.2.9. Search Clip Window

Introduction

In the Search Clip window, you can search for clips stored on the current and/or on distant EVS servers. See section "Searching for Clips" on page 52 for more information on searching for clips.

Tap or press F8 on the keyboard to open the Search Clip window.

By default, the Search Clip window has the following layout. The various areas are described in the section below:



Area Description

The table below presents the various areas of the Search Clip window:

#	Area	Description
1.	CAB	The contextual action bar (CAB) contains the following items from left to right: • **OK** button to close the **Search Clip** window • **Quick Search** field, free-text field to enter the text string to be searched for in all clip metadata. • **Playlist** button to hide or display the **Playlist** tab • **Advanced Search** button to hide or display the **Advanced Filters** tab.
2.	Search Result pane	This presents the search results in clip grid view. The results are dynamically updated as you enter a search criterion via the **Quick Search** field or the **Advanced Filters** pane.
3.	Playlist pane	This presents the list of available playlists. To hide or display this pane, tap the **Playlist** button in the CAB.
4.	Advanced Filters pane	This is similar to the **Clip** toolbar (See section "Clip Toolbar" on page 26) and allows you to select the metadata values on which the search will be performed. To hide or display this pane, tap the **Advanced Search** button in the CAB.

3.2.10. Deleting and Archiving Clips

Introduction

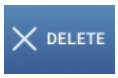
You can delete unprotected and protected clips on the EVS server from the LSM tablet, using the touchscreen or a physical keyboard.

Depending on the value defined in the **Confirm Clips/Playlists Deletion** setting in the Server Parameters section, you may have to confirm the deletion.

You can flag and unflag a clip for archiving from LSM Connect. This corresponds to the **Archive** command on the Remote Panel.

As flagging is a toggle command, if you select and flag several clips some of which are already flagged, the archiving flag will be reset (i.e. cleared) for all the clips.

How to Delete a Clip with the Touchscreen

1. In a clip tab, in grid or list view, tap the requested clip(s).
   See section "Selecting Items" on page 8 for multiple selection.
2. Tap 

in the CAB at the top of the screen.
3. If the clip is protected, a message is displayed. Tap **OK** to confirm the deletion.

The clip is deleted on the EVS server.

How to Delete a Clip with a Physical Keyboard

1. Highlight the clip tab with the **Tab** key.
2. In a clip tab, select the appropriate clip(s) with the arrow keys.
   See section "Selecting Items" on page 8 for multiple selection.
3. Press

.
4. If the clip is protected, a message is displayed. Tap **OK** to confirm the deletion.

The clip is deleted on the EVS server.

How to Flag a Clip for Archiving with the Touchscreen

1. In a clip tab, in grid or list view, tap the requested clip(s).
   See section "Selecting Items" on page 8 for multiple selection.
2. Tap

in the CAB at the top of the screen.

The clip is flagged for archiving on the EVS server.

The Archive button turns to

which allows you to unflag the clip.

How to Flag a Clip for Archiving with a Physical Keyboard

1. Highlight the clip tab with the **Tab** key.
2. In the clip tab, select the requested clip(s) with the Arrow keys.
   See section "Selecting Items" on page 8 for multi-selection.
3. Press

.

The clip is flagged for archiving on the EVS server.

If you want to unflag the clip, press the same keyboard shortcut again.

4. Playlist Management

4.1. User Interface

4.1.1. Playlist Tab

Introduction

To open a Playlist tab, tap the **Clip/Playlist** button at the top of the pane to highlight the lower corner of the button and activate the Playlist view:

The playlist tab is presented in two views:

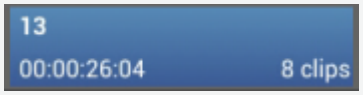
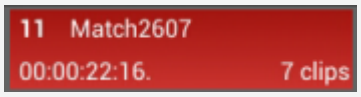
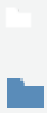
- It displays a set of selected playlists which you have defined as 'visible playlists'.

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

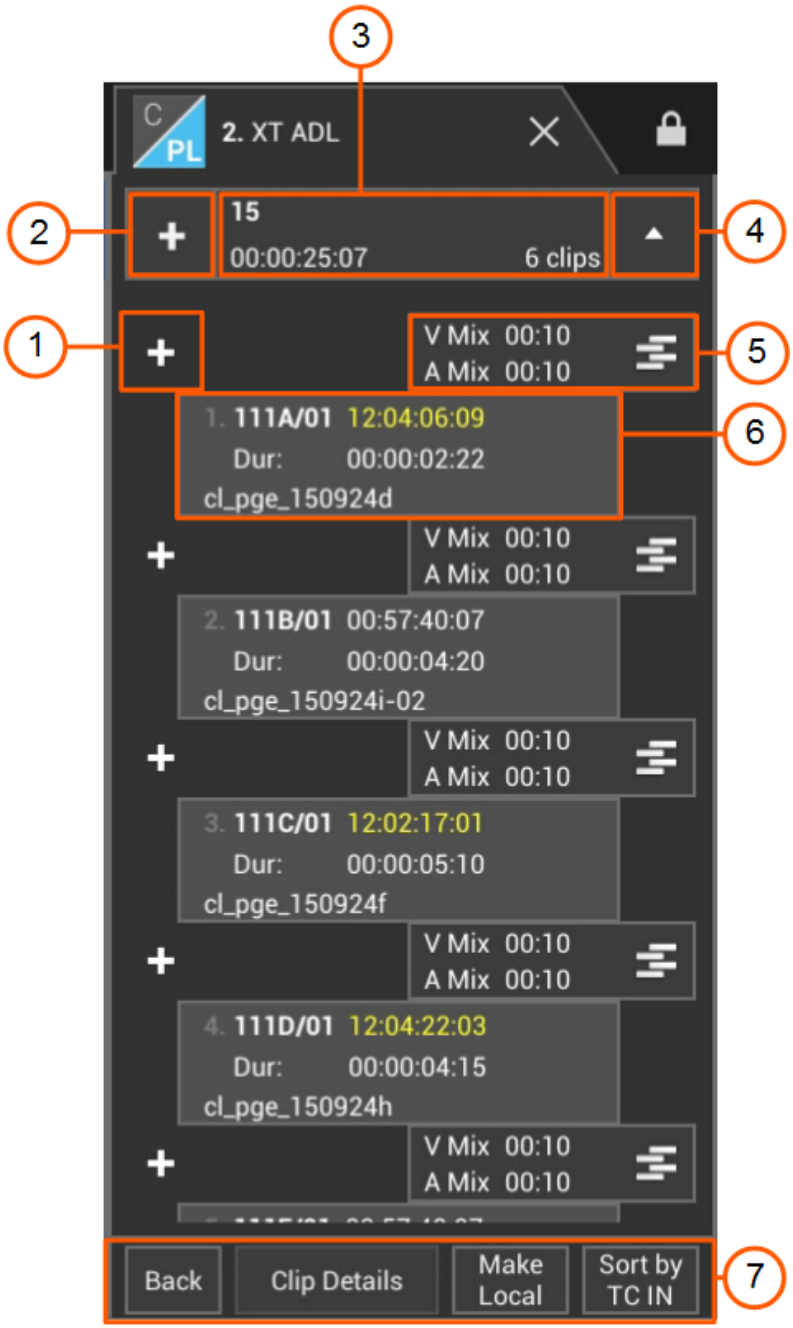
  This is called the Playlist Details view.

Playlist Headers View

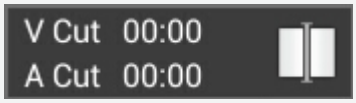
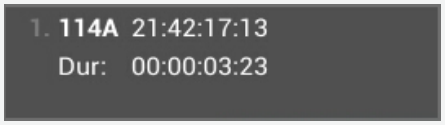
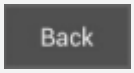
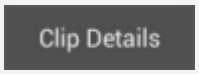
The table below presents the various areas or icons in the Playlist Headers view:

#	Area/Icon	Description
1.		EVS server where the displayed playlists are stored. Tap this field to be able to select another EVS server and see the playlists there.
2.		Adds the selected clips at the end of the corresponding playlist.
3.		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 to the left.
		Timeline position. You cannot add elements to a timeline in LSM Connect.
		A selected playlist is displayed with a blue background.
		A loaded playlist displayed with a red background.
4.		Opens the corresponding playlist in Playlist Details view.
5.		Opens the Select visible playlists window in which you can check the playlists you want to display in the Playlist Headers view.
6.		White folder if the playlist is tagged as "to be archived". Blue folder if the playlist has already been archived. Otherwise, no icon.

Playlist Details View



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

#	Area/Icon	Description
1.		**Add** button used to insert the selected clip(s) between the adjacent playlist elements.
2.		**Add** button used to insert the selected clip(s) at the end of the playlist.
3.		**Playlist** button that represents the open playlist, and the related information.
4.		**Arrow up** button used to close the Details view and return to the List view.
5.		**Transition** button that represents the playlist transition and displays related information: • Video effect type and duration • Audio effect type and duration • Icon that represents the effect type
6.		**Element** button that represents the playlist element and displays related information, from left to right: • position in the playlist • clip LSM ID • clip TC IN (LTC) • clip duration
7.		Returns to the List view. All changes previously made in the Details view are applied.
		Displays larger boxes for playlist elements, and the same clip metadata as in the Clip Grid view.
		Copies all distant clips locally. The local clip position is the first one available starting from the first page specified in the Playlist received page parameter (Operation tab, Clips settings in Multicam configuration).
		Used to sort the playlist elements by TC IN, but resets all transitions to the default settings.

Effect Icon

The following table presents the various icons which illustrate the transition effects that can be applied:

Icon	Meaning
	Cut effect
	Mix effect
	Wipe Left > Right
	Wipe Right > Left
	Fade from black
	Fade from white
	Fade from color
	Fade from undetermined
	Fade to black
	Fade to white
	Fade to color
	Fade to undetermined
	V-fade

4.1.2. Playlist Toolbar

Introduction

From the Playlist toolbar, you can define and edit the metadata of the playlist selected in the Playlist Headers view or the playlist opened in the Playlist Details view.

See section "Modifying Playlist Information" on page 75 for more details on how to modify playlist information.

Playlist Info Area

Name

The **Name** field displays the playlist name assigned in one of the Multicam user interfaces, or via the Remote Panel.

Clips

The **Clips** field displays the number of playlist elements included in the playlist.

Duration

The **Duration** field displays the total duration of the playlist.

AUX Clip

The Auxiliary Clip field displays the LSM ID of the auxiliary clip if it has been associated.

TC Regeneration Area

Regen.

The Regeneration field allows you to activate regeneration of the TC for the given playlist.

Cont. in

The Continuous In field specifies whether the TC should be continuous for the whole playlist or for each playlist element.

From

The **From** field specifies the initial TC value to be used for the timecode regeneration.

In

The **In** field specifies the TC type in which the timecode should be regenerated.

4.1.3. Contextual Action Bar in Playlist Tab

Introduction

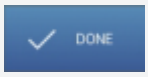
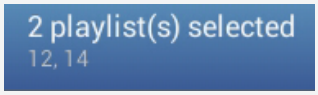
Besides editing playlist properties and adding/removing playlist elements, the actions you can perform on clips are available in a contextual action bar (CAB) once you have selected at least one item in the playlist tab.

The following screenshots show the CAB in Playlist Headers view:

The following screenshot shows the CAB in Playlist Details view:

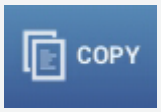
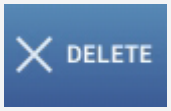
General Buttons and Information

The CAB contains the following buttons or information related to the selection itself:

GUI element	Description
	Allows you to confirm the executed action. This confirms the action and closes the CAB.
	Displays the number of selected playlists in the Playlist Headers view.
	Displays the number of selected playlist elements in the Playlist Details view.
	Allows you to activate the following selection types and see which selection type is active. By default, when this icon is displayed on a dark blue background, the single selection mode and the cam selection mode are active. See section "Selecting Items" on page 8.
	The multiple selection mode is active: This allows you to select multiple items.

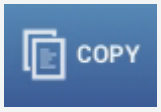
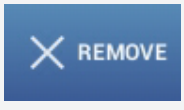
General Actions on Playlists

The table below briefly describes the playlist commands available in the CAB.

Action button	Description
	Allows you to cut a playlist and store it on the clipboard. It can then be pasted to an empty position. See section "Copying and Moving Playlists" on page 79
	Allows you to copy a playlist and store it on the clipboard. It can then be pasted to an empty position. See section "Copying and Moving Playlists" on page 79
	Allows you to delete the selected playlist.
	Allows you to merge together two playlists selected in Playlist Headers view. See section "Consolidating Playlists" on page 77
	Allows you to set selected playlists as 'to be archived': • When the playlists have been set as 'to be archived' but have not yet been archived, a white folder is displayed. • When the playlists have effectively been archived, a blue folder is displayed.
	Allows you to unflag the playlists. This button is only displayed when the selected playlists are set to be archived.

General Actions on Playlist Elements

The table below describes briefly the commands for playlist items available in the CAB.

Action button	Description
	Allows you to copy selected playlist items and store them on the clipboard. They can then be pasted to another position in the playlist or into another playlist. See section "Copying and Moving Playlist Elements" on page 84.
	Allows you to remove the selected playlist elements from the playlist.

4.2. Operation on Playlists

4.2.1. Accessing Playlists

Introduction

From the Playlist tab, in both Playlist Headers and Playlist Details views, you can access playlists on the local and distant EVS servers available on the network, and copy the distant playlists to the local EVS server.

NOTE

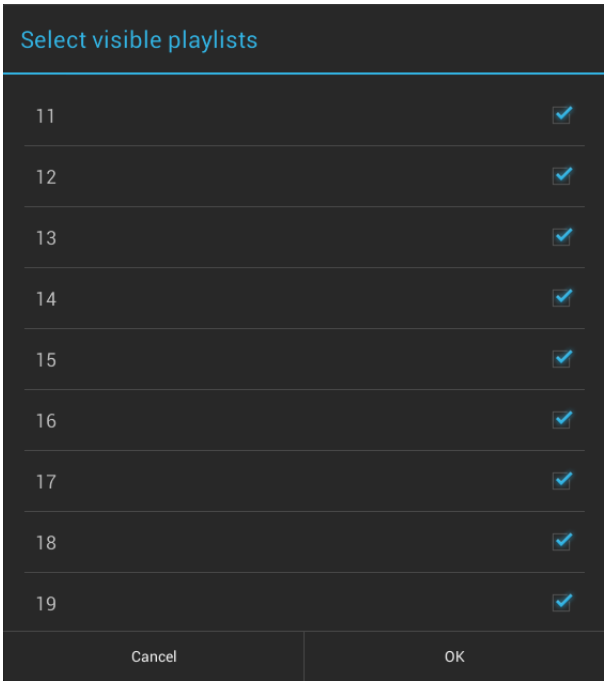
The shortcut keys used for network navigation in the clip tab, in grid view, can also be used in the playlist tab, in Playlist Headers view.
See section "Keyboard Shortcuts for Navigation" on page 34.

How to Access Local Playlists

To access a playlist on the EVS server connected to your Remote Panel, you need to make it visible as follows:

1. In the Playlist tab, tap the **Visible Playlists** button at the top of the Playlist tab.

   The Select visible playlists window opens, which displays all the local playlist positions:



2. Select the check boxes corresponding to the playlist positions you want to be visible in the Playlist Headers view, and deselect the ones you want to hide.
3. Click **OK**.

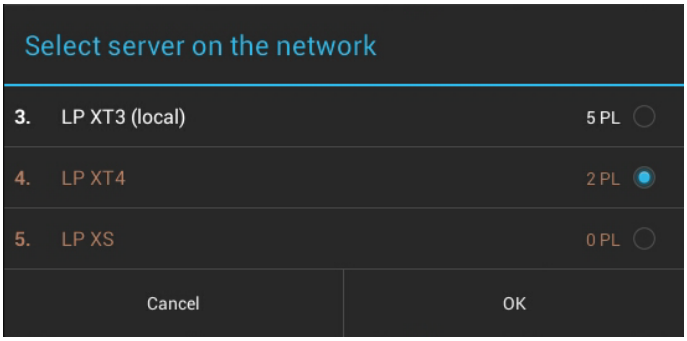
The requested local playlist positions are displayed in Playlist Headers view, whether a playlist is already stored on the position or not.

How to Access Distant Playlists

To access a playlist on a distant EVS server, proceed as follows:

1. In the Playlist tab, tap the **Server Name** at the top of the Playlist tab.

   The following box appears:



2. Select the radio button corresponding to the EVS server whose playlists you want to access.
3. Click **OK**.

The playlists of the distant server are displayed in Playlist Headers view, the server name and number are displayed on the top of the Playlist area.

4.2.2. Keyboard Shortcuts for Navigation

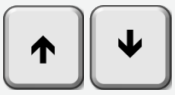
Introduction

You can use the keyboard shortcuts described in this section to navigate between pages, banks, and between local and distant servers in the playlist tab, in Playlist Headers view.

The procedures and keyboard shortcuts for selecting items are detailed in the general topic "Selecting Items" on page 8.

Shortcuts for Navigation and Selection in the Playlist Details View

The following shortcuts are valid in the playlist tab, in Playlist Details view:

To perform the following action ...	Use the keyboard shortcut ...
Jump to the other tab (playlist or clip tab) on the right or on the left	
Jump to a second pane showing a Playlist Details view. If there is only one or no pane showing a Playlist Details view, nothing happens.	
Go to the next or previous element in the playlist	
Go to the first playlist element	
Go to the last playlist element	
Select all playlist elements (max. 100)	

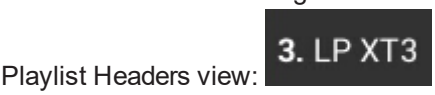
Shortcuts for Accessing Network Navigation Dialog Boxes

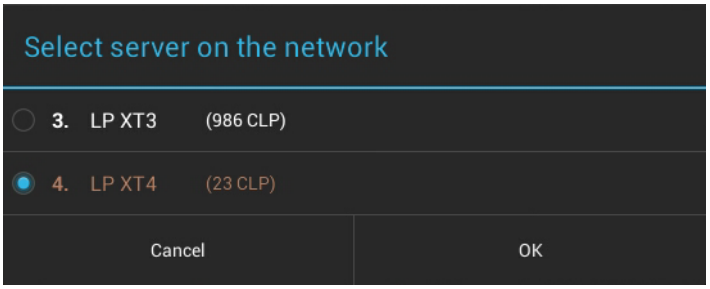
The general shortcut keys specified below are valid in the playlist tab, in Playlist Headers view.

To perform the following action ...	Use the keyboard shortcut ...
Opens the window for distant server selection	
Returns to the local server	

Shortcuts in Select Server Dialog Boxes

The following shortcuts are valid in the **Select server on the network** dialog box, where you can select a distant server.

You can access this dialog box via the **Playlist Name** field at the top of the Playlist tab, in Playlist Headers view: 



The following shortcuts are available in this dialog box:

To perform the following action ...	Use the keyboard shortcut ...
Highlight the next or previous item in the list.	↓ or ↑
Select the highlighted item	(Space)
Select the highlighted item and close the window.	Enter
Close the window without saving the changes	Esc

4.2.3. Recalling Local Playlists

Introduction

In most cases, whatever the channel control mode, the playlist is loaded in PGM+PRV.

When a single PGM is controlled and the conditional mode is active, the playlist is loaded on the controlled PGM.

Recalling a Playlist via the Playlist Tab

- To recall a playlist from the playlist tab in Playlist Headers view, double tap or click the playlist you want to recall:

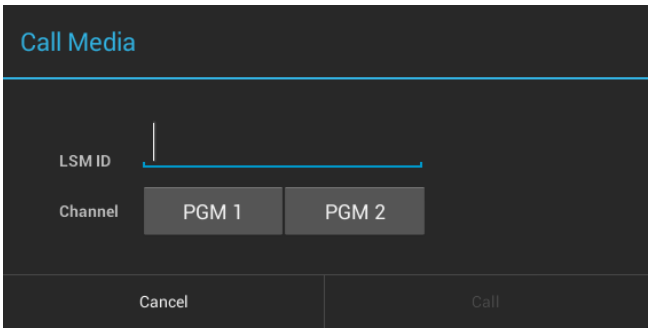
- To recall a playlist from the playlist tab in Playlist Details view, double tap or click the playlist header at the top of the tab:

Recalling a Playlist via the Call Media Window

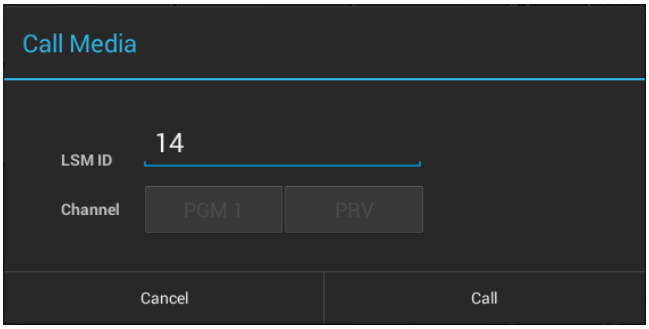
To recall a clip via the Call Media window, proceed as follows:

1. From the main LSM Connect window, press **F3** on the keyboard.

   The Call Media dialog box opens:



2. Type the 2-digit playlist LSM ID, for example 14.



3. Tap **Call** or press **Enter** on the keyboard to load the playlist.

   Tap **Cancel** or press **Esc** on the keyboard to cancel the action.

The Call Media dialog box closes, and the requested playlist is loaded on the server.

4.2.4. Modifying Playlist Information

Introduction

This section presents the actions you can perform on the playlist information:

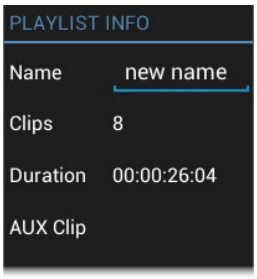
- How to modify a playlist name with the touchscreen
- How to modify a playlist name with the keyboard
- How to regenerate the timecode of a playlist

How to Assign or Modify a Playlist Name with the Touchscreen

To assign or modify the playlist name with the touchscreen, proceed as follows:

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

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



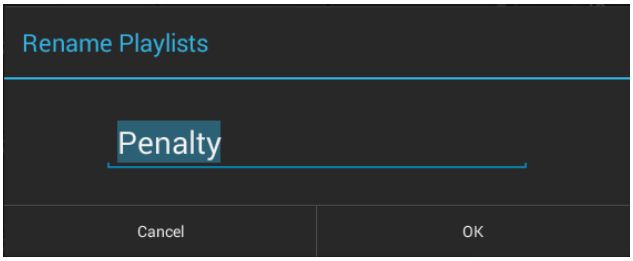
2. In the **Name** field, type or modify the playlist name.

How to Assign or Modify a Playlist Name with the Keyboard

To assign or modify the playlist name with the keyboard, proceed as follows:

1. In the playlist tab in Playlist Headers view, click or tap the playlist(s) whose name you want to assign or modify.
2. Press **F1**.

   The Rename Playlists dialog box displays with the last name used which is filled in and selected:



3. Do one of the following actions:
   - To keep the last used name, go directly to step 4.
   - To start from a blank field, press **Delete** and type a new name.
   - To type a name based on the displayed string, edit the name in the dialog box using the common shortcuts to move, select, cut and/or copy.
4. Press **Enter** to apply the new name.

   To cancel the action, press **Esc**.

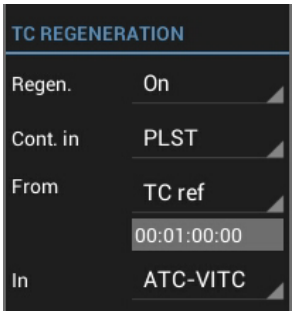
The name is applied to the selected playlist(s).

How to Regenerate the Timecode of a Playlist

To regenerate the timecode of a playlist, proceed as follows:

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

   The TC Regeneration area is displayed in the toolbar:



2. In the Playlist toolbar, tap the **Regen.** field, and select **On** to activate the timecode regeneration.
3. In the **Cont. in** field, select one of the following values:

- **PLST** to regenerate the timecode at the beginning of the playlist
- **CLIP** to regenerate the timecode for each playlist element

4. In the **From** field, specify the initial TC value to be used for the timecode regeneration.
5. In the **In** field, specify the TC type in which the timecode should be regenerated.

4.2.5. Consolidating Playlists

Introduction

You can perform the following actions from a local or distant playlist **to a local playlist**:

- Merging two playlists
- Inserting a playlist within another playlist

It is not possible however to merge or insert a local playlist into a distant one, or a distant playlist into a distant one.

How to Merge Two Playlists

When you merge two playlists, all playlist elements from the first selected playlist are added to the end of the second playlist.

To merge two playlists, proceed as follows:

1. Open two playlist panes next to each other, if necessary by changing the view into a playlist view

.
2. In the 1st playlist pane in Playlist Headers view, click the playlist you want to merge into another one.
3. In the 2nd playlist pane in Playlist Headers view, click the playlist in which the first selected playlist will be merged.
4. Tap

in the Contextual Action bar.

   A message is displayed to validate the merge action.
5. Tap **OK** to confirm the merge action.

TIP

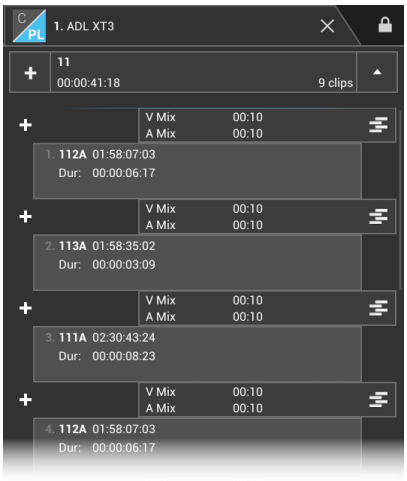
If you tap the button in front of the second playlist in the Headers view, instead of tapping the playlist number area, LSM Connect will directly prompt you to insert the first selected playlist into the second one. This has the same effect as a **Merge** action.

How to Insert a Playlist into Another Playlist

When you insert a playlist into another one, all playlist elements from the selected playlist are inserted at the requested position into the second playlist.

To insert a playlist into another playlist, proceed as follows:

1. Open the first playlist pane in Playlist Headers view.
2. Open a second playlist pane and open the destination playlist in Playlist Details view (playlist in which you want to insert another playlist):



3. In the Playlist Headers view, select the playlist you want to insert:

4. Then tap the + button in the destination playlist at the exact position where you want to insert the first playlist:

   A message is displayed to validate the insert action.

5. Tap **OK** to confirm the insert action.

The playlist elements from the first playlist are inserted into the selected position in the second playlist.

4.2.6. Copying and Moving Playlists

Introduction

This section presents the actions you can perform on playlists:

- How to move a playlist
- How to copy a local playlist to the local EVS server
- How to copy a distant playlist to the local EVS server

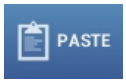
All actions described in this section are only possible on local playlists, except copying of a distant playlist to a local playlist position.

You cannot copy or move more than one playlist at a time.

How to Move a Playlist

To move a local playlist to a new playlist position, proceed as follows:

1. In the playlist tab in Playlist Headers view, select the playlist you want to move.
2. Tap

in the contextual action bar.
3. Select the playlist position you want your playlist to be moved to.
4. Tap 

in the contextual action bar.

The playlist is moved to the selected location.

How to Copy a Local Playlist to the Local EVS Server

1. In the playlist tab in Playlist Headers view, tap the playlist you want to copy.
2. Tap **Copy** on the contextual action bar.
3. Select the playlist position where you want to store the playlist, and select **Paste** on the contextual action.

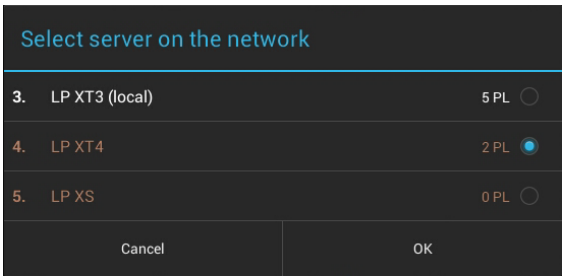
   The **Paste PL** box appears.
4. In the **Paste PL** box, select the copy button and tap **OK**.

The local playlist is copied to another playlist position on the same EVS server.

How to Copy a Distant Playlist to the Local EVS Server

1. In the playlist tab in Playlist Headers view, tap the server name at the top of the playlist tab.

   The following box appears:



2. Select the radio button corresponding to the EVS server where the requested distant playlist is stored and tap **OK**.

   The distant playlists are displayed in Playlist Headers view on a brown background.

3. Select the distant playlist you want to copy and tap **Copy** on the contextual action bar.
4. Tap the server name again and select the local EVS server.
5. Select the local playlist position where you want to store the playlist, and select **Paste** on the contextual action bar.

   The **Paste PL** box appears.

6. In the **Paste PL** box, select the copy button and tap **OK**

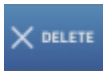
The distant playlist is copied to the local playlist position.

4.2.7. Deleting and Archiving Playlists

NOTE

Depending on the value defined in the **Confirm Clips/Playlists Deletion** setting in the Server Parameters section, you may have to confirm the playlist deletion.

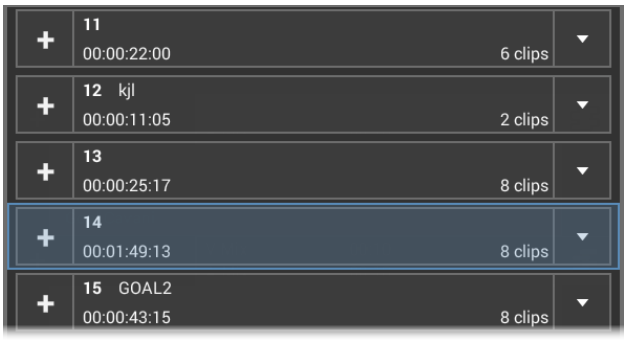
How to Delete a Playlist with the Touchscreen

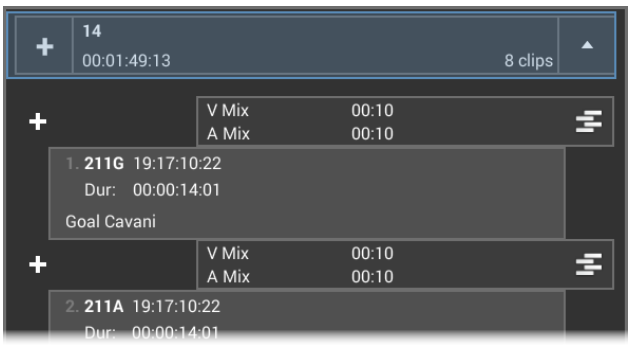
1. In the playlist tab in Playlist Headers view, select the playlist you want to delete.
2. Tap 

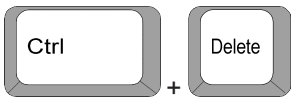
in the contextual action bar.
3. If requested, confirm the playlist deletion.

How to Delete a Playlist with the Keyboard

1. From the clip or playlist tab, press and the arrow keys until you highlight the playlist header you want to delete. You can select the playlist header in Playlist Headers or Playlist Details view.





2. Press  +
3. If requested, confirm the playlist deletion.

How to Flag a Playlist for Archiving

1. In the playlist tab, in Playlist Headers or Playlist Details view, tap the requested playlist(s).

   See section "Selecting Items" on page 8 for multiple selection.

2. Tap in the CAB at the top of the screen.

The playlist(s) is/are flagged for archiving on the EVS server.

The Archive button turns to , which allows you to unflag the playlist.

4.3. Operations on Playlist Elements

4.3.1. Adding and Removing Elements

Introduction

This section describes how to add elements to a playlist or remove them:

- How to add clips at the end of a playlist
- How to add selected clips into a playlist using the touchscreen
- How to add selected clips into a playlist using the keyboard
- How to add search results into a playlist
- How to remove elements inside a playlist

How to Add Clips at the End of a Playlist

In the playlist tab, you can work in either Playlist Headers view or Playlist Details view.

To add clips 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 8 for more information.

2. Do one of the following actions:

   - If the playlists are displayed in Playlist Headers 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 Playlist Details 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 Selected Clips into a Playlist Using the Touchscreen

In the playlist tab, the playlist where you want to add clips must be open in LSM Connect.

To add clips 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.

   See section "Selecting Items" on page 8 for more information.

2. In the playlist tab, tap the **Add** icon 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 requested position in the playlist.

How to Add Selected Clips into a Playlist Using the Keyboard

The playlist where you want to add clips must be loaded on the Remote Panel. It does not need to be loaded on a Playlist tab in LSM Connect.

To add clips 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.

   See section "Selecting Items" on page 8 for more information.

2. In the playlist tab or on the Remote Panel, load the playlist element before/after which you want to insert the selected clips.

   The insertion position (after/before) will depend on the **Insert in Playlist** parameter in the Operation page of Multicam Configuration module.

3. Press **INSERT** on the keyboard linked to LSM Connect.

The clips are added at the requested position in the playlist.

How to Add Search Results into a Playlist

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

To add search results into a playlist, proceed as follows:

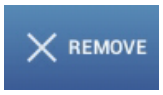
1. In the Search window, perform a search as described in the section "Searching for Clips" on page 52.
2. In the Playlist tab, double tap the playlist element after/before which you want to insert the search results.

   The insertion position (after/before) will depend on the **Insert in Playlist** parameter in the Operation page of Multicam Configuration module.
3. Press **SHIFT+INSERT**.

The clips retrieved in the search results are added at the current position in the loaded playlist.

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 Playlist Details view.
2. Select one or more (when multiple selection is active) playlist elements you want to remove.
3. Tap 

in the CAB.

4.3.2. Copying and Moving Playlist Elements

Introduction

This section presents the actions you can perform on playlists:

- How to Reorganize Elements Inside a Playlist
- How to Copy/Duplicate Elements Between/In Playlist(s)
- How to Locally Copy Distant Playlist Elements

How to Reorganize Elements Inside a Playlist

You can only move one 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 Playlist Details view.
2. Tap the playlist elements you want to move in your playlist to select them.
3. Press (**Add** button) at the appropriate position in the playlist.

The selected elements are moved to the new position in the playlist.

How to Copy/Duplicate Elements Between/In Playlist(s)

You can use the following procedure to copy clip elements from one playlist to another or to duplicate elements in a given playlist:

1. Open the source and destination playlists in two tabs in Playlist Details view.

   To duplicate elements within the same playlist, open only one playlist.
2. In the source playlist, tap the playlist elements you want to copy to select them.
3. Tap

to copy the playlist elements to the clipboard.
4. In the destination playlist, tap the **Add** button where you want to add the copied playlist elements.

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

NOTE

Instead of using the **Copy** button, you can also drag and drop the selected elements and release them when the **Add** icon turns green.

How to Locally Copy Distant Playlist Elements

NOTE

This function is available only if you are connected to a server running Multicam 12.5.14 or a more recent version.

To make local all distant clips of a local playlist, proceed as follows:

1. In the playlist tab in playlist headers view, select the local playlist whose clips you want to store locally.

   When the playlist contains at least one distant clip, the **Make Local** button appears at the bottom of the Playlist Headers view.

2. Tap

.

All distant clips of a playlist are copied locally to the first available position from the page specified in the **Playlist receive page** parameter in the Multicam Configuration module (Operation tab, Clips settings).

4.4. Operations on Playlist Transitions

4.4.1. Modifying Transition Effects

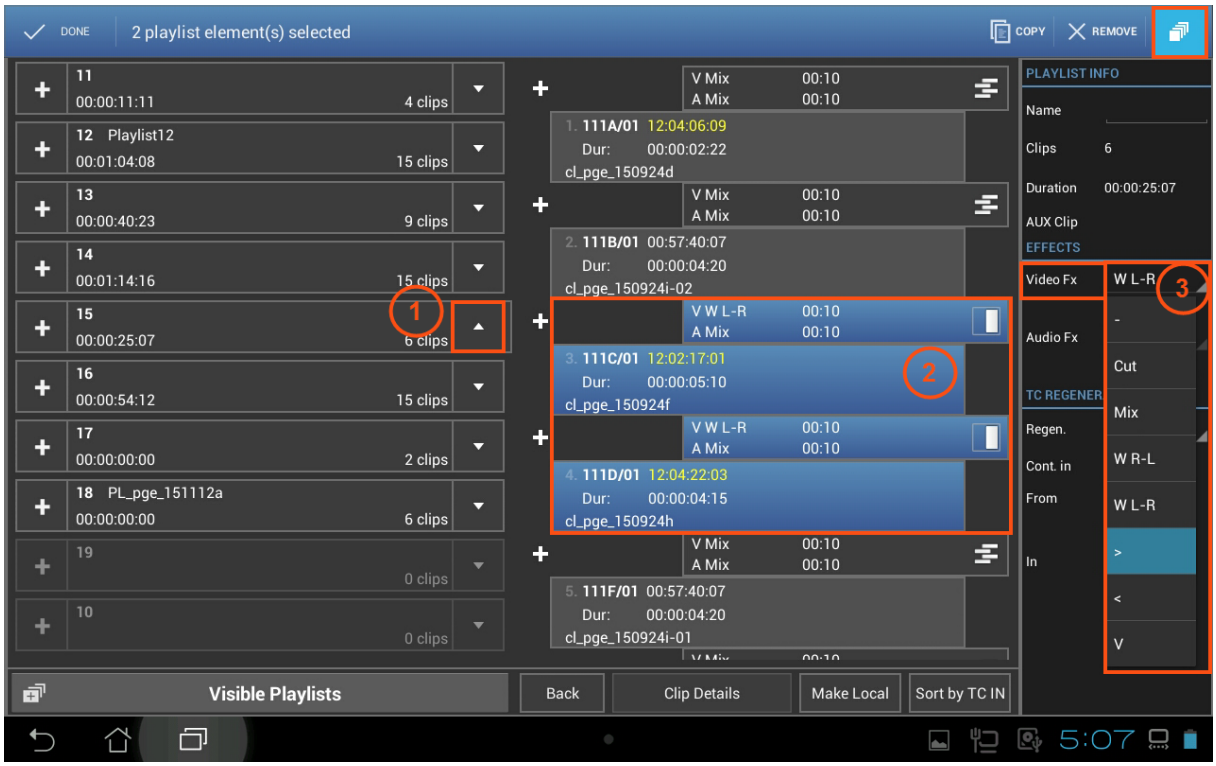
1. Open the playlist whose transitions you want to modify in Playlist Details view.

   If you open a single Playlist tab, you can tap the playlist in Playlist Headers view, and the playlist opens on the right side in Playlist Details view.

2. Select the playlist transitions you want to modify.

   For multiple selection, tap before selecting the requested transitions.

3. In the Playlist toolbar (right), tap the **Video FX** field, and select the requested transition type from the list:



The selected transition type is applied at the beginning of the selected playlist elements, and the transition icon is adapted in the Playlist Details view.

5. Keyword Management

5.1. Editing the Current Keyword Grid

Introduction

On the LSM Connect application, you can edit the keyword grid defined as the current keyword grid on the connected EVS server. You can access the edit keyword grid via the Keywords File Editor. The keyword grid of the EVS server assigned the 'Server' role on the SDTI network cannot be edited.

You can access the Keywords File Editor from the Maintenance menu or from the Clip tab, as explained below.

NOTE

Keywords are not supported on XTnano servers. This section is therefore not relevant for such video servers.

Prerequisite

If there is no current keyword grid assigned to the EVS server, you first need to do so in either of the following ways:

- In Multicam, select the keyword grid from the list in the **Keyword Files** field in the Multicam Configuration window, Operation page, Keyword section.
- In LSM Connect, import the keyword grid from the LSM tablet onto the EVS server. See section "Importing and Exporting the Current Keyword Grid" on page 90.

How to Edit the Current Keyword Grid from the Clip Tab

Editing the keyword grid from the Clip tab allows you to add or modify keywords as you assign keywords to a clip.

To edit the current keyword grid from the Clip tab, proceed as follows:

1. Select a clip in the clip grid or clip view.

   The keyword fields are displayed in the Clip toolbar.

2. In the Clip toolbar, tap a **Keyword** field.

   The Pick Keyword window opens.

3. Tap **Edit** in the upper right corner of the Pick Keyword window.

   The keyword grid opens in Edit view in the Keywords File Editor.

4. Do one of the following actions:
   - To edit a keyword, tap it (or double tap it to select the whole keyword) and type the modified keyword.
   - To add a keyword, tap an empty keyword field and type the keyword.
5. Repeat step 4 for all keywords to edit or add.
6. Tap **Apply** in the Keywords File Editor to validate the changes.
7. Perform one of the following actions:
   - To leave the keyword grid, tap outside the window.
   - To reopen the keyword grid in View mode and assign keywords to the clip, tap **View** in the upper right corner of the window.

The current keyword grid is updated on the EVS server.

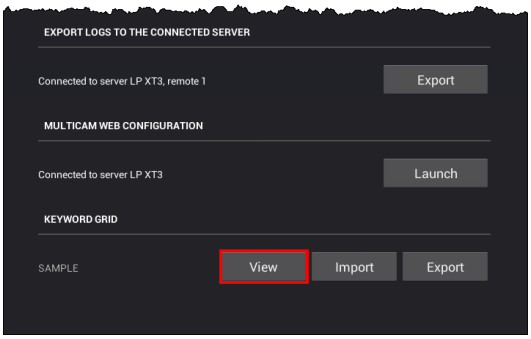
How to Edit the Current Keyword Grid from the Maintenance Menu

To edit the current keyword grid from the Maintenance menu, proceed as follows:

1. From the main window, tap the Settings icon in the upper right corner of the window.

   The LSM Connect Settings window opens.
2. In the LSM Connect Settings, select the Maintenance menu on the left of the window.

   The items of the Maintenance menu are displayed on the right of the window.
3. Swipe to the bottom of the Maintenance menu, and tap the **View** button in the Keyword Grid section.



   The Keyword File opens in View mode.
4. Tap **Edit** in the upper right corner of the Keyword File window.

   The keyword grid opens in Edit view in the Keywords File Editor.
5. Do one of the following actions:
   - To edit a keyword, tap it (or double tap it to select the whole keyword) and type the modified keyword.
   - To add a keyword, tap an empty keyword field and type the keyword.
6. Repeat step 5 for all keywords to edit or add.
7. Tap **Apply** in the Keywords File Editor to confirm the changes.

8. Tap outside the window to leave the keyword grid.

The current keyword grid has been updated on the EVS server.

5.2. Importing and Exporting the Current Keyword Grid

Introduction

From the LSM Connect application, you can import or export a keyword grid onto or from the EVS server.

You can import a keyword grid stored on the LSM tablet, or on a USB drive connected to the LSM tablet. The imported keyword grid will automatically be set as the current keyword grid on the associated EVS server. It will automatically replace the current keyword grid on the EVS server.

You can export the current keyword grid directly to the LSM tablet. This is a one-click operation.

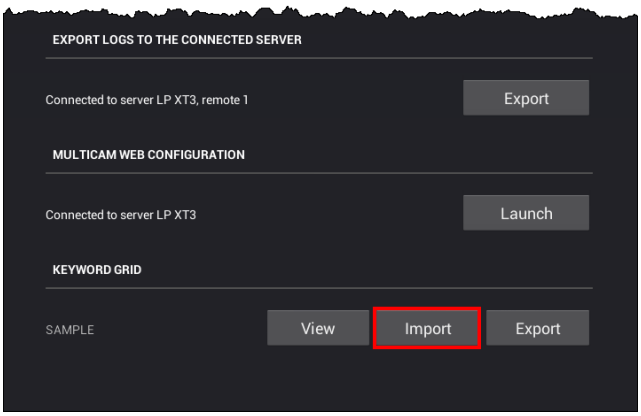
How to Import a Keyword Grid Stored on the LSM Tablet

To import a keyword grid stored on the LSM tablet, proceed as follows:

1. From the main window, tap the Settings icon in the upper right corner of the window.

   The LSM Connect Settings window opens.
2. In the LSM Connect Settings, select the Maintenance menu on the left of the window.

   The items of the Maintenance menu are displayed on the right of the window.
3. Swipe to the bottom of the Maintenance menu, and tap the **Import** button in the Keyword Grid section.



   The file explorer window opens.
4. From the file explorer window, select the keyword grid file (.kwd) you want to import and tap **OK**.

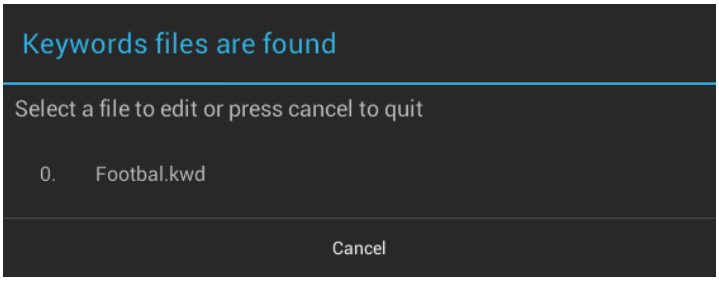
The keyword grid is imported into LSM Connect and set as the current keyword grid on the EVS server connected to the LSM Connect application. The keyword file opens in View mode in the LSM Connect application.

How to Import a Keyword Grid from a USB Key

To import a keyword grid from a USB key connected to the LSM tablet, proceed as follows:

1. Make sure the LSM Connect application is open on the LSM tablet and is connected to an EVS server.
2. Plug the USB key that contains the keyword file into the USB port of the LSM tablet.

   A dialog box opens with the keyword file(s) detected on the USB key:



3. Select the keyword file you want to import and set to current on the connected EVS server.

   The keyword file opens.
4. Tap **Apply** to import the keyword file.

The keyword grid is imported into LSM Connect, and set as the current keyword grid on the EVS server connected to the LSM Connect application. The keyword file opens in View mode in the LSM Connect application.

How to Export a Keyword Grid onto the LSM Tablet

To export the current keyword grid file onto the LSM tablet, proceed as follows:

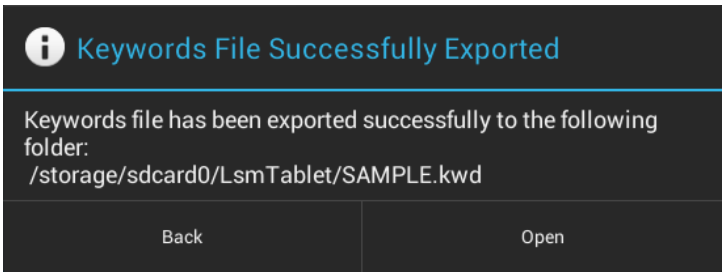
1. From the main window, tap the Settings icon in the upper right corner of the window.

   The LSM Connect Settings window opens.
2. In the LSM Connect Settings, select the Maintenance menu on the left of the window.

   The items in the Maintenance menu are displayed on the right of the window.
3. Swipe to the bottom of the Maintenance menu and tap the **Export** button in the Keyword Grid section.

The current keyword grid file is automatically exported to the LSM tablet and stored on the folder `/storage/sdcard0/LsmTablet`.

The following message box is displayed when the file is available on the LSM tablet:


Keywords File Successfully Exported
Keywords file has been exported successfully to the following folder:
/storage/sdcard0/LsmTablet/SAMPLE.kwd
Back
Open

6. Settings

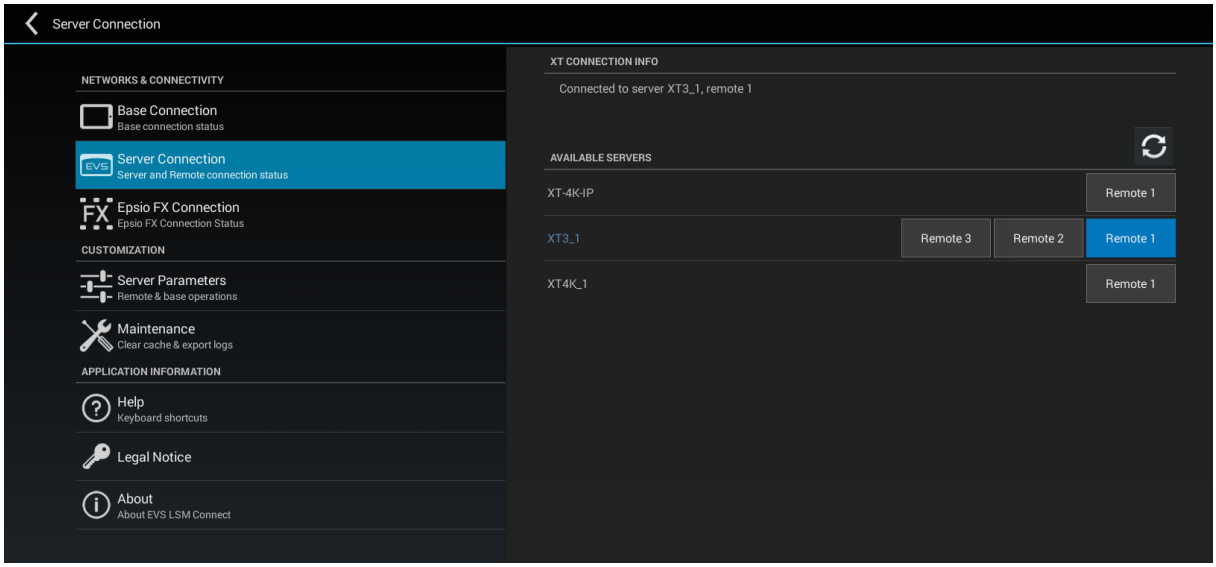
6.1. LSM Connect Settings

6.1.1. Overview of LSM Connect Settings

Introduction

The Settings include three sections, each containing several menus:

- Network and Connectivity
- Customization
- Application Information



Network and Connectivity

The **Network and Connectivity** section includes the menus and parameters to configure the connection of all hardware elements required in an LSM Connect setup.

See section "Network and Connectivity Settings" on page 95 for a more detailed description of these menus.

Menu	Description
Base Connection	Includes parameters related to the LSM Connect Base or Tablet.
Server Connection	Includes parameters related to the connection with the EVS server.
Epsio FX Connection	Includes parameters related to the connection with the Epsio FX server.

Customization

The **Customization** section mainly includes the menus and parameters to set up operational parameters specific to the EVS server, Epsio FX, and to perform maintenance operations.

See section "Customization Settings" on page 99 for a more detailed description of these menus.

Menu	Description
Server Parameters	Opens the EVS server specific parameters that have an impact on the way the LSM Connect Base or Tablet is operated.
Epsio FX Parameters	Opens the Epsio FX parameters. It is only displayed when the Epsio FX is properly connected and set up via the Epsio Connection menu.
Maintenance	Opens the maintenance tasks, such as clearing cache memory, or exporting logs.

Application Information

The **Application Information** section includes general information on the application.

Menu	Description
Help	Displays all shortcut keys available in the various LSM Connect windows, tabs or panes.
Legal Notice	Provides a link to the software license agreement covering the use of LSM Connect.
About	Features the version and build number of the LSM Connect application.

6.1.2. Network and Connectivity Settings

Introduction

The **Network and Connectivity** section includes the menus and parameters to set up the connection of all hardware elements required in an LSM Connect setup.

This topic provides a detailed description of the following menus included in the Network Connectivity section:

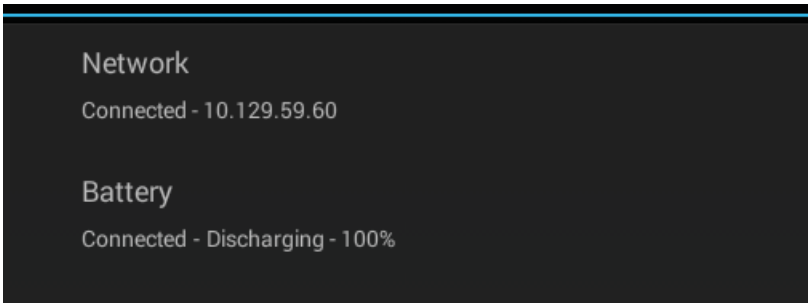
- Base Connection
- Server Connection
- Epsio FX Connection

NOTE

The Epsio FX Parameters menu is only displayed when the Epsio FX server is properly connected to the LSM Connect via the Epsio FX Connection menu.
Refer to the Epsio FX user manual for a detailed description of the Epsio FX Parameters menu.

Base Connection

The Base Connection menu items appear on the right of the Settings screen when you select the Base Connection menu on the left:



Network

This parameter specifies the following information:

- LSM Connect connection status to the network
- Ethernet IP address assigned to the LSM Connect

If you need to change the IP address, tap then select the Ethernet menu in the Wireless & Networks section, then the **IP address** parameter in the Network Settings area on the right.

Battery

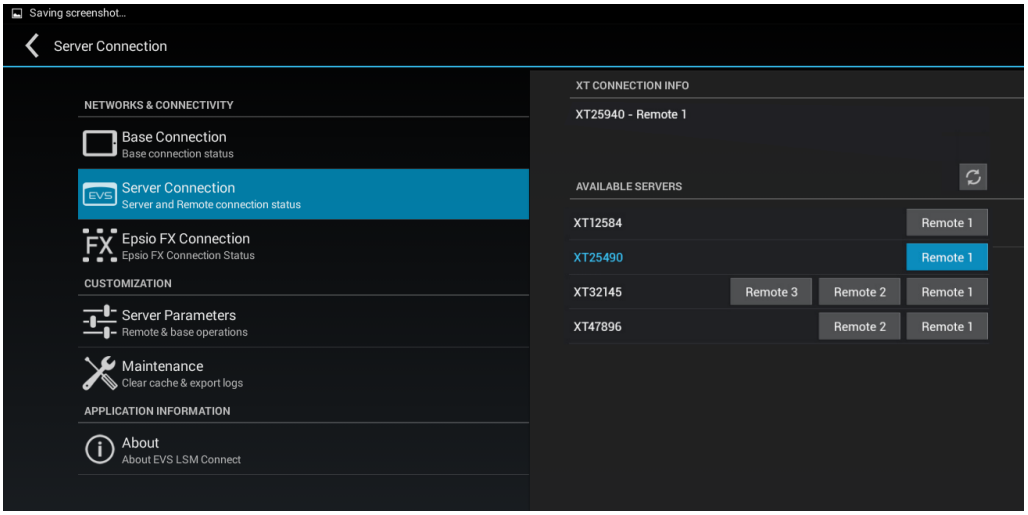
This parameter specifies the following information:

- connection status to the power supply
- battery charging status (*)
- battery autonomy percentage (*)

(*) This status is relevant only for the LSM Connect Tablet, it does not apply to the LSM Connect Base, which has no battery.

Server Connection

The Server Connection menu items appear on the right of the Settings screen when you select the Server Connection menu on the left:



XT Connection Info

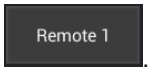
This parameter specifies the EVS server (serial number) and the Remote Panel connected to the LSM Connect.

The LSM Connect can only be connected to one EVS server and one Remote Panel at any time.

Available Servers

Description

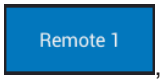
This area displays the list of EVS servers found on the Ethernet network.

The Remote Panels connected to a server are represented as buttons with a grey background: 

. The Remote Panel connected to the RS422 connector with the smallest number is Remote 1, and so on.

You can perform the following actions in the Available Servers area:

- To repeat the search process, tap the **Refresh** button .
- To associate a given Remote Panel to the LSM Connect, tap the relevant **Remote** button.

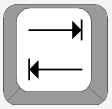
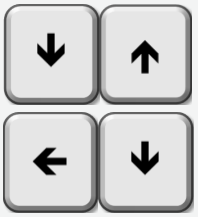
When a Remote Panel is associated, its button turns blue: 

, and the associated server name is displayed in blue.

See section "Starting and Connecting to the EVS Server" on page 4 for a complete guide on how to connect to EVS servers.

Shortcuts in Available Servers Area

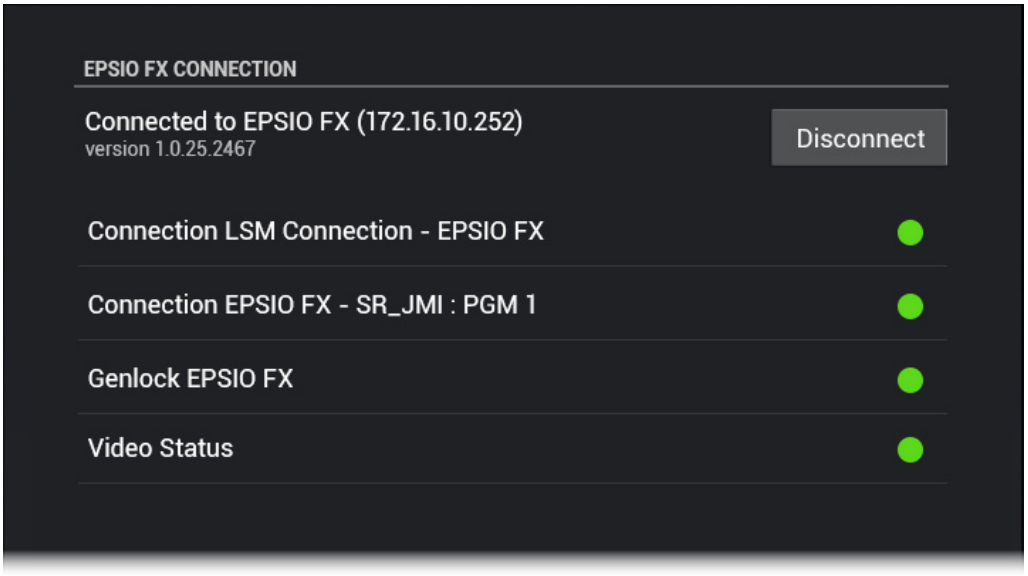
The following keyboard shortcuts allow you to associate a Remote Panel to the LSM Connect using only shortcut keys:

#	To perform the following action ...	Use the keyboard shortcut ...
1a.	From anywhere in the application: Open the Server Connection settings and highlight the Available Servers area	
1b.	From the Settings window: Highlight the Available Servers area	
2.	Browse to select the requested **Remote** button	
3a.	Launch the association process of LSM Connect with the selected Remote Panel	
3b	Quit the window without changing the association settings and return to the main window.	

Epsio FX Connection

The Epsio FX Connection menu items appear on the right of the Settings screen when you select the Server Connection menu on the left.

Refer to the Epsio FX user manual for more information about the Epsio FX Connection settings and statuses.



6.1.3. Customization Settings

Introduction

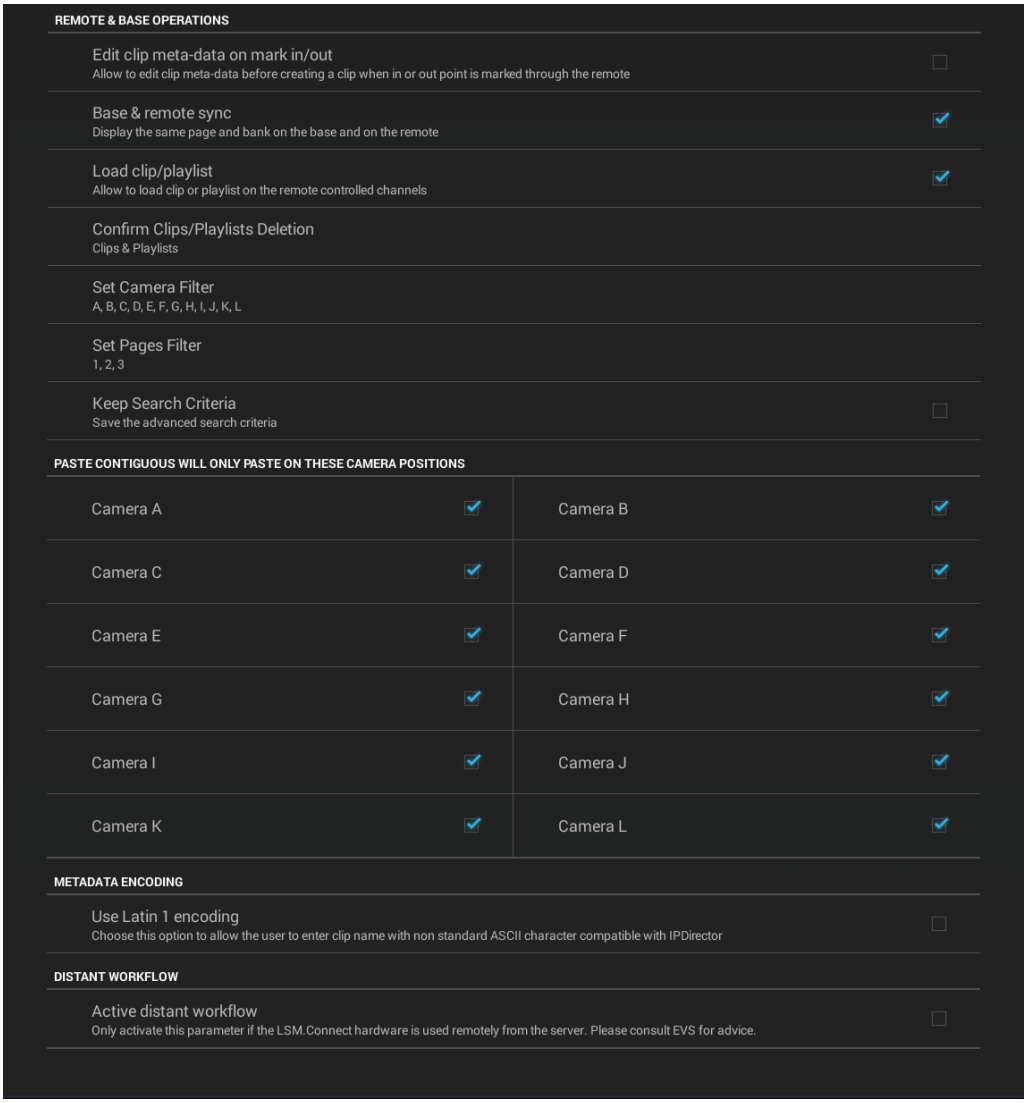
The **Customization** section includes the menus and parameters to set up operational parameters specific to the EVS server, Epsio FX, and to perform maintenance operations.

This section provides a description of the following menus included in the Customization section:

- Server Parameters
- Maintenance Parameters

Server Parameters

The Server Parameters menu items appear on the right of the Settings screen when you select the Server Parameters menu on the left:

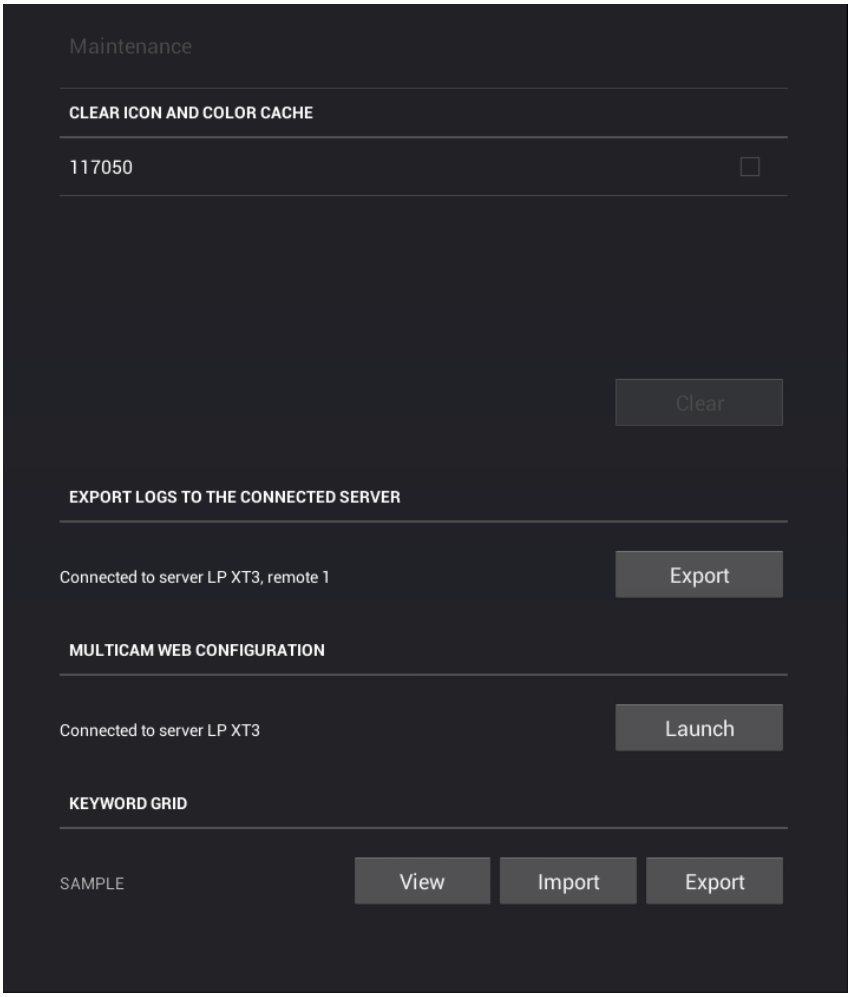


The table below describes the parameters of the Server Parameters menu:

Name	Description
Edit clip metadata on mark in/out	This option allows you to enter 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.
Base and remote sync	This option enables the automatic page and bank synchronization between the Remote Panel and the clip tab in grid view. The automatic synchronization is applied if the Clip Grid View is opened as a left tab on the monitor.
Load clip/playlist	This option allows you to load a clip or a playlist on PGM1 using a double tap or keyboard shortcut on the requested clip or playlist in LSM Connect.
Confirm Clips/Playlist Deletion	This option activates a confirmation request in LSM Connect before deleting either clips or playlists, or for both.
Set Camera Filter	This setting enables you to select which camera angles are displayed in the grid view on the local EVS server when the camera filter is active in the toolbar. This filter can be deactivated and reactivated with the **Camera Filter** button .
Set Page Filter	This setting enables you to hide pages in the Clip Grid view on the local EVS server. This feature is especially useful when two operators work in DualLSM mode. This filter can be disabled and enabled again with the **Page Filter** button .
Keep Search Criteria	This setting allows you to save your search criteria so that when you start a new search, the same criteria are reused by default (see "Searching for Clips" on page 52).
Paste Contiguous will ...	This setting allows you to select the camera positions (from A to L) that will be filled in when using the **Paste Contiguous** command.
Metadata Encoding	When enabled, this setting allows you to use special characters in European languages using the ASCII extended set of characters. Clip names can have up to 24 characters. When disabled, the LSM Connect shifts to Unicode if you use special characters. This limits clip names to 12 characters. If the clips are named in IPDirector, the names will appear correctly (up to 24 characters) in LSM Connect in all cases.
Distant Workflow	Enable this setting when you use LSM Connect remotely from the EVS server in a setup with latency. This will adapt the timeout setting values to a remote workflow.

Maintenance Menu

The Maintenance menu items appear on the right of the Settings screen when you select the Maintenance menu on the left:



The table below describes the commands available in the Maintenance menu:

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 whose cache information you want to clear 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**.

Name	Description
Multicam Web Configuration	To launch the Multicam Web Configuration module on the tablet, tap **Launch**.
Keyword Grid	From this menu, you can perform the following actions: • View and edit the current keyword grid defined on the EVS server • Import a new keyword grid and make it current on the EVS server • Export the current keyword grid from the EVS server to the LSM Connect. See section "Keyword Management" on page 88 for more information on how to manage the current keyword grid.

6.2. Hardware Settings

6.2.1. How to Access the General Settings

This section refers to some general settings you should check on the LSM Connect Base or Tablet to ensure a proper use of the LSM Connect application.

Quick Procedure

If the **Settings** icon is available on one of the home screens, tapping the **Settings** icon or directly opens the **Settings** screen.

Long Procedure

If no Settings icon is available on one of the home screens, proceed as follows to enter the Settings screen:

1. Tap the **Notification** area on the bottom right corner of the screen.

   The **Quick Setting** panel opens on the bottom right.

2. Tap the Settings icon in the **Quick Setting** pane.

   Another panel opens.

3. Tap the Settings icon again in this panel.

   The Settings window opens.

6.2.2. IP Settings

If you do not have DHCP and want to use a static IP address for each LSM Connect Base or Tablet, you should specify this in the unit settings.

To assign a static IP address, proceed as follows:

1. In the Settings screen, select the **Ethernet** menu in the Wireless and Networks section.
2. Select IP Settings among the menu items on the right.

   The IP Settings dialog box opens.
3. Tap the **Static IP** radio button.
4. Select **IP Address** among the menu items on the right.

   The IP Address dialog box opens.
5. Type the IP address you want to assign and tap **OK**.
6. Tap the **Connect** button to set up the Ethernet connection.

6.2.3. Keyboard Settings

How to Configure the Keyboard

The default keyboard should be set to **Android keyboard English (US)** to ensure that all keyboard shortcuts will work properly if you connect and use a physical keyboard.

To set the default keyboard parameter as requested, proceed as follows:

1. In the **Settings** screen, select the **Language & Input** menu in the Personal section.
2. Select the **Default** parameter in the Keyboard & Input Methods section in the menu items on the right.

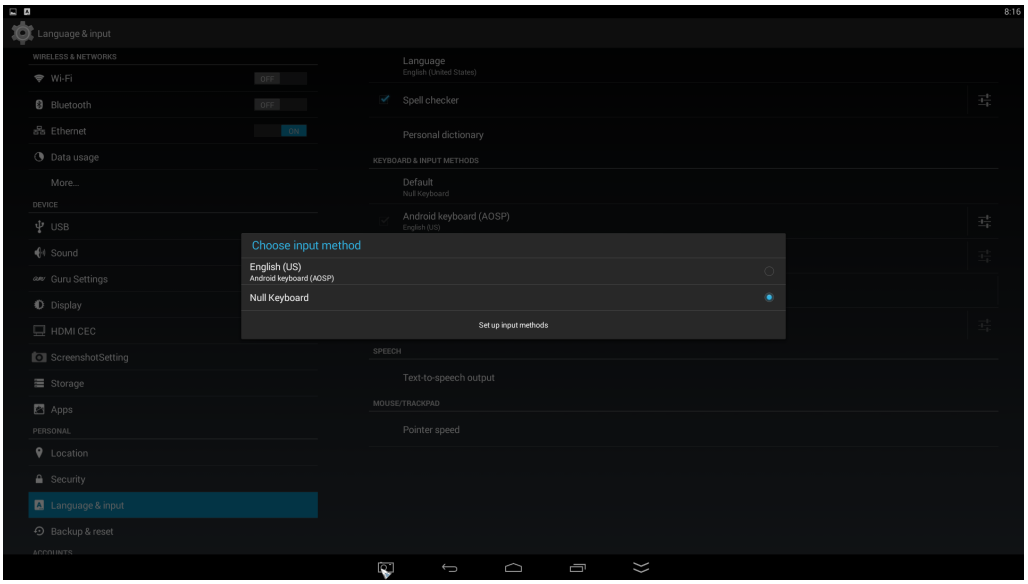
   The **Choose input method** dialog box opens.
3. Tap **ON** in the Hardware field to active the use of the physical keyboard.
4. Tap the **English (US) Android keyboard** radio button to set up the keyboard.

The keyboard is properly set up.

How to Use an External Keyboard

When using an external keyboard, you should hide the virtual on-screen keyboard as follows:

1. In the **Settings** screen, select the **Language & Input** menu in the Personal section.
2. Select the **Null keyboard** parameter in the Keyboard & Input Methods section in the menu items on the right.
3. In the Attention pop-up window that opens, tap **OK**.
4. Tap **Default**.



5. In the Choose input method pop-up window that opens, tap **Null keyboard**.

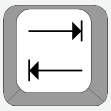
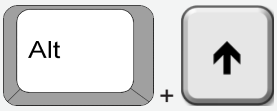
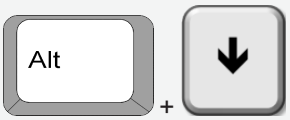
The changes are automatically saved and the on-screen keyboard is no longer displayed.

Appendix 1: Keyboard Shortcuts

This appendix provides a summary of the keyboard shortcuts applicable in the Clip Grid, Clip List, Playlist Headers and Playlist Details views, as described in the relevant sections of the user manual.

Shortcuts available in other panes/windows are documented in the relevant tables below.

Navigation and Miscellaneous

Keyboard shortcut	Action	Clip Grid	Clip List	Playlist Headers	Playlist Details
	Jump to the next tab (playlist or clip tab) on the right or on the left	X	X	X	X
	Go to the upper bank on the current page	X	-	-	-
	Go to the lower bank on the current page	X	-	-	-
NEW ! **number key in alphanumeric keyboard**	Go to the corresponding page	X	-	-	-
NEW ! **number key in alphanumeric keyboard**	Go to the corresponding bank	X	-	-	-
	Go to bank 1 of the current page	X	-	-	-
	Go to bank 9 of the current page	X	-	-	-

Keyboard shortcut	Action	Clip Grid	Clip List	Playlist Headers	Playlist Details
Page Up or Alt + →	Go to the next page	X	-	-	-
Page Down or Alt + ←	Go to the previous page	X	-	-	-
Alt + L	Go back to the local EVS server	X	-	X	-
Alt + T	Open the Set TC window for the highlighted clip	X	X	-	-
Alt + Z	Flag or unflag the highlighted or selected clip for archiving	X	X	-	-
← → ↑ ↓	Go to the contiguous elements in a grid	X	-	-	-
↑ ↓	Go to the next or previous element in a list	-	X	X	X
Ctrl + End	Go to the last playlist element	-	-	-	X

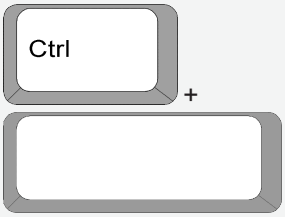
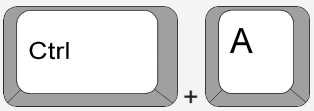
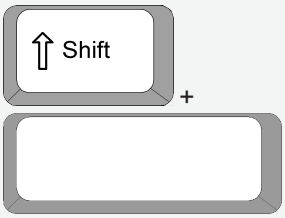
Keyboard shortcut	Action	Clip Grid	Clip List	Playlist Headers	Playlist Details
Ctrl + Home	Go to the first playlist element	-	-	-	X
Enter	• Load highlighted clip/playlist • Validate the action and close the window	X	X	X	X

Call Windows or Functions

Keyboard shortcuts	Action	Clip Grid	Clip List	Playlist Headers	Playlist Details
F1	Open the Rename Clip window to rename the selected clip/playlist	X	X	X	X
F2	Toggle between **Cam** and **Clip** selection mode	X	X	-	-
F3	Open the Call Clip window + F1 to F6 to select channel where clip/train is loaded.	X	X	X	X
F8	Open the Search Clip window	X	X	X	X

Keyboard shortcuts	Action	Clip Grid	Clip List	Playlist Headers	Playlist Details
F9	Open the window for distant server selection (SDTI List)	X	X	X	-
F10	Jump from a pane with Playlist Details view to a second pane with Playlist Details view. It only works if two panes with Playlist Details view are displayed.	-	-	-	X
Ctrl + F	Toggle between **All Cam** and **Selected Cam** Display	X	X	-	-
NEW ! Ctrl + M	Toggle between **Single** versus **Multiple** selection mode.	X	X	-	-

Selection

Keyboard shortcut	Action	Clip Grid	Clip List	Playlist Headers	Playlist Details
	Select the highlighted item/clip	X	X	X	X
	Select multiple non-contiguous items	X	X	-	-
	Select: • all elements in the current bank • all elements in the current playlist	X	-	-	X
	Select contiguous highlighted elements	X	X	-	-

Copy and Move Operations

Keyboard shortcut	Action	Clip Grid	Clip List	Playlist Headers	Playlist Details
Ctrl + X	Cut selected clips/elements, and store them on the clipboard.	X	-	-	-
Ctrl + C	Copy selected clips/elements, and store them on the clipboard.	X	-	-	-
Ctrl + V	Paste a single clip in the selected position	X	-	-	-
Ctrl + V	Paste several clips in **Full Copy** mode in **Paste Same Position**	X	-	-	-
Ctrl + ⇧ Shift + V	Paste several clips in **Short Copy** mode in **Paste Same Position**	X	-	-	-
Alt + V	Paste several clips in **Full Copy** mode in **Paste Contiguous**	X	-	-	-

Keyboard shortcut	Action	Clip Grid	Clip List	Playlist Headers	Playlist Details
Alt + ⇧ Shift + V	Paste several clips in **Short Copy** mode in **Paste Contiguous**	X	-	-	-
Insert	Add selected element(s) in the current playlist at the current position	-	-	-	X
⇧ Shift + Insert	Add all search results in the current playlist at the current position	-	-	-	X

Other Actions on Clips, Playlists or Playlist Items

NOTE

These shortcuts are only available if you are connected to a server running Multicam 14.1 or a more recent version.

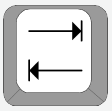
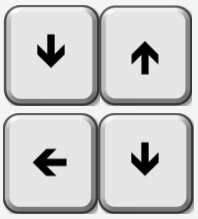
Keyboard shortcut	Action	Clip Grid	Clip List	Playlist Headers	Playlist Details
Alt + P	Play/Pause loaded item	X	X	-	X
Alt + R	Recue loaded item	X	X	-	X

Keyboard shortcut	Action	Clip Grid	Clip List	Playlist Headers	Playlist Details
Alt + Y	Loop loaded item	X	X	-	X
Alt + Z	Archive selected clips *(available from Multicam 14.2)*	X	X	-	-
Ctrl + Delete	• Delete selected clips/items • Delete the higlighted playlist	X	X	X	X

Shortcuts in Select Server Dialog Boxes

To perform the following action ...	Use the keyboard shortcut ...
Highlight the next or previous item in the list.	↓ or ↑
Select the highlighted item	(Space)
Select the highlighted item and close the window.	Enter
Close the window without saving the changes	Esc

Shortcuts to Associate a Remote Panel to LSM Connect

#	To perform the following action ...	Use the keyboard shortcut ...
1a.	From anywhere in the application: Open the Server Connection settings and highlight the Available Servers area	
1b.	From the Settings window: Highlight the Available Servers area	
2.	Browse to select the requested **Remote** button	
3a.	Launch the association process of LSM Connect with the selected Remote Panel	
3b	Quit the window without changing the association settings and return to the main window.	

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