

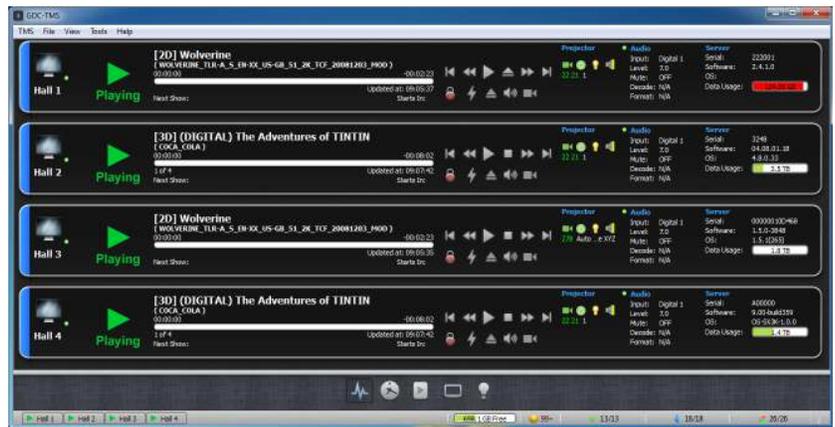


**User Manual for
Theatre Management System TMS-2000
Document Version 4.3.1.02**

Software Version: v4.3.14392

April 13th, 2022





Theatre Management System V4

A comprehensive solution for centralized cineplex management

GDC Technology's Theatre Management System (TMS) is a powerful tool that offers a centralized point of control for an entire cineplex. Optimization of your digital system is made easy with the TMS, which allows users to automate and streamline your entire cinema operation.

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Thank you for purchasing GDC Theatre Management System from GDC Technology Ltd.

To ensure proper operation and to maximize the TMS's value, please allot a few minutes to review this User manual. It will guide you through all the features and benefits of the TMS.

ABOUT THIS MANUAL

This TMS user manual is intended to provide the reader with an overview of the main features and benefits of the Theatre Management System (TMS). For more information, please refer to the GDC Technology website (www.gdc-tech.com) or contact one of our offices.

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1. INTRODUCTION

The Theatre Management System TMS-2000 is a state-of-the-art powerful tool for managing servers in cinema multiplex via network connection. The purpose of this document is to provide guidance on how to use the TMS.

1.1. Features

- Centrally controls servers inside theatre.
- Communicates with servers over local area network.
- Theatre-wide server, content, key and playlist information aggregation and management.
- Servers can be organized into categories for easy management.
- Transfers content and security keys to servers.
- Intelligent source location selection for content transfer.
- Scheduled content transfer.
- Content search by name.
- Supports single clip or whole package content transfer from one location to another.
- Supports live-play source management and playback control.
- Supports server initialization and server content transfer.
- Creates playlists and schedules shows to be played on the servers up to weeks and even longer time in advance.
- Automation cues can be specified and inserted into playlists.
- Schedules can be easily duplicated in other days, and cancelled etc.
- Supports different show play types.
- Timeline style show schedule display.
- POS data integration is supported and schedules can be created based on POS show time automatically.
- Semi-Automated show scheduling by TMS Template System.
- Real-time monitoring of screen playback status.
- Real-time monitoring of show schedule.
- Remotely control of playback.
- Retrieves real-time information on the playback status of the server.
- Retrieves playback logs from servers.
- Information such as software and OS version, available disk space, etc. can be viewed at a glance.
- Projector connected to the server via Ethernet can be remotely controlled.

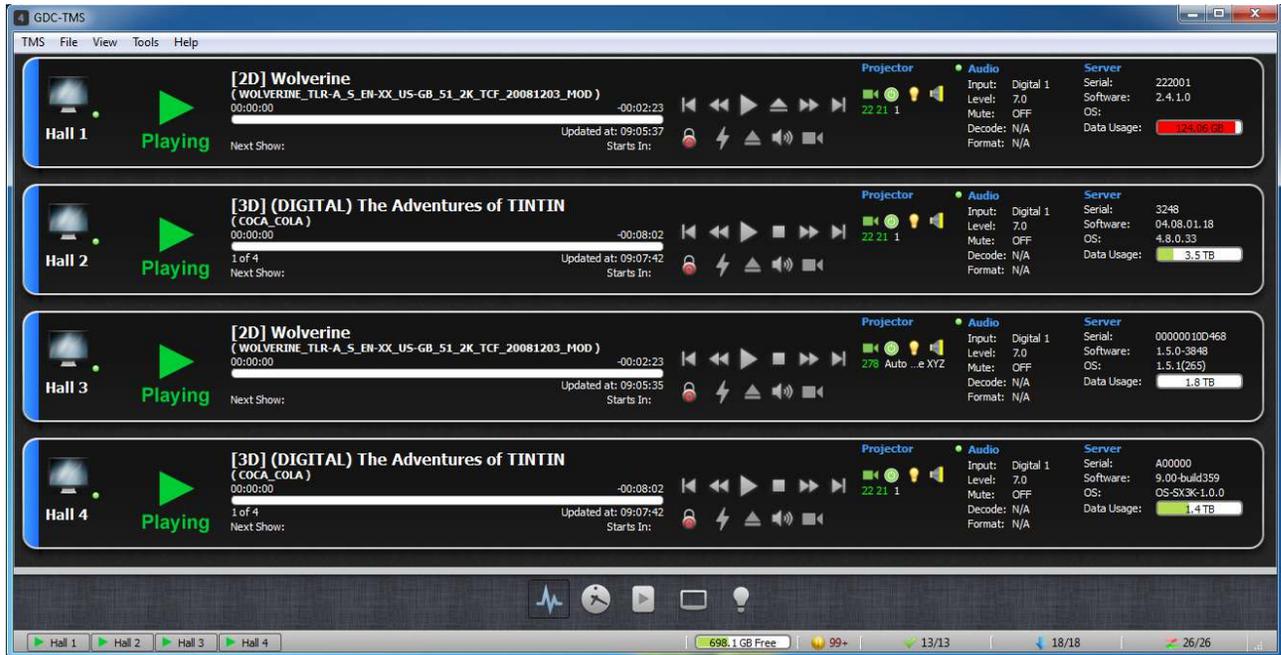
- Mainstream theatrical equipment management and control.
- Event notification by email.
- TMS system data backup and restoration.
- Reverse content transfer from storage in playback server.
- Multiple language GUI.
- Content Verifier.
- Emergency Cues.
- Automatic Detection of new Content through Content Watcher.
- Automatic ingestion of KDM from an email source.
- Support Comprehensive Automation Control with Auto-PMA and Auto-QMS.
- Monitor cinema operations remotely in real-time using TmsAware™ App.

1.2. Version

This document complies with GDC Theatre Management System version number [4.3.119841](#).

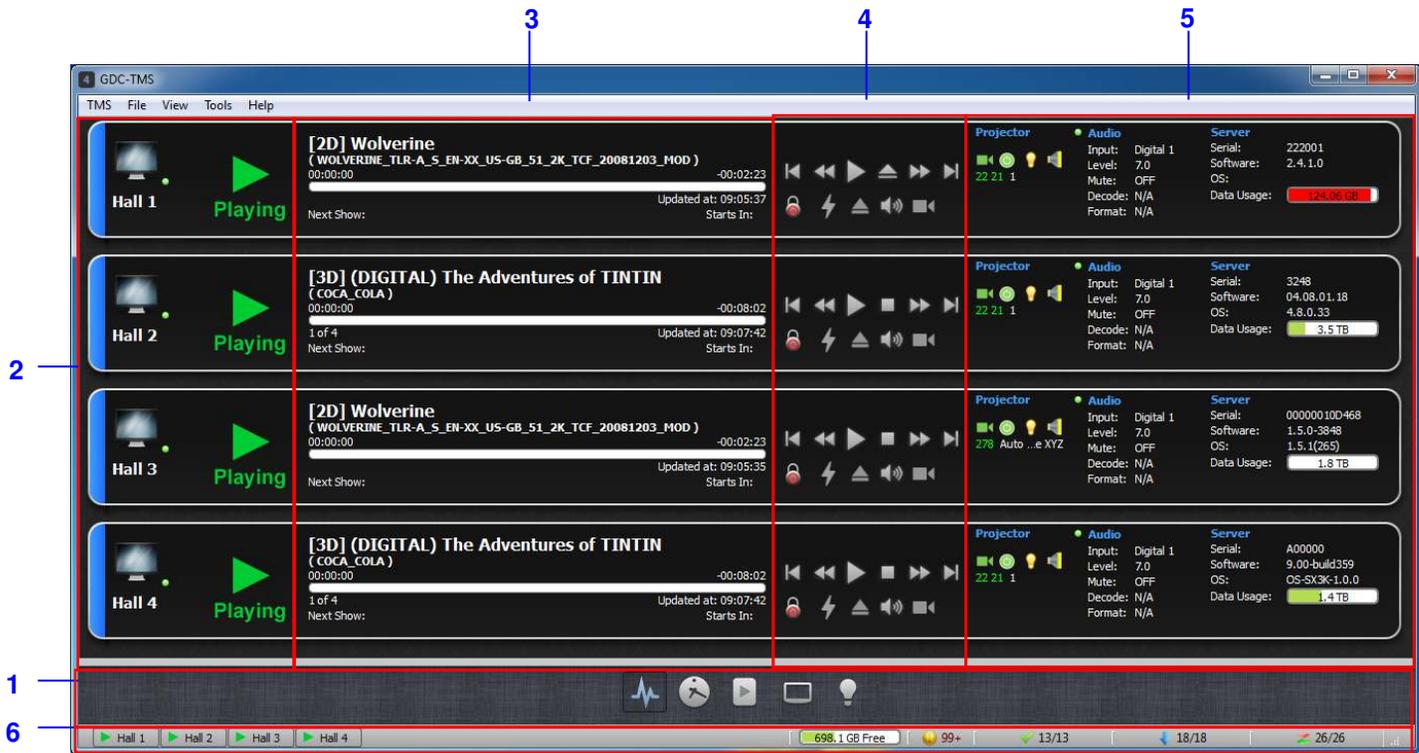
2. TMS GUI OVERVIEW

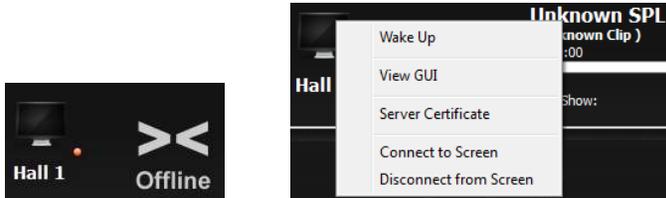
When launching and logging into the GDC TMS software, the TMS graphical user interface (GUI) will be loaded to the default tab which is the Monitoring tab (as shown below). This GUI consists of a series of menus, tabs and subtabs that allow access to the various functions of the TMS.



3. MONITORING TAB

By clicking the **MONITORING** tab, the monitoring interface will be loaded as below. This is the default tab/view when logging into the TMS software.



<p>1</p>	<p>This section shows the icons for Monitoring, Scheduler, Content and Screen tabs which contain different functions in the TMS. Click the icon to switch quickly to another tab.</p>  <p>MONITORING SCHEDULER CONTENT SCREEN</p>
<p>2</p>	<p>This section shows all of the managed screens and the status of their connection to the TMS server. The icon shows the connection status of the screen (Online: Blue icon; Offline: Dark icon.).</p> 

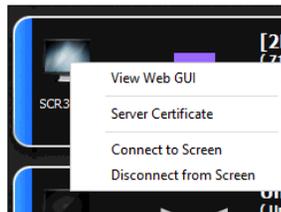
When the mouse cursor is on top of the screen icon, a pop-up window will remind the user to right-click to access more options. By right-clicking it, there are options to wake up the server, view the screen server GUI, download server certification, and connect/disconnect to the screen. Use the **[Wake Up]** button to power up a server. Check that the power plug and the network ports of the server are connected, do not power on the server, click **[Wake Up]** button to power up the server. Wake Up function is only available for certain GDC servers, the **[Wake Up]** button is not available if the server does not support this function.



The green spot indicates that the server has been powered up and is able to be ping from network.

When **[View GUI]** is selected, a VNC remote session to the server will be initiated and a pop-up dialog will prompt the user to input a password (please check with server operation manual for the password setting). After correct password is entered, the selected server UI will be displayed, allowing direct access to control that screen as if the user is at the server itself.

In case of GDC SR and SRC series of servers, the **[View GUI]** is replaced by **[View Web GUI]** as shown in the image below. When **[View Web GUI]** is selected, TMS will initiate a web-based remote session with the playback server by opening a web page of the default browser set on the TMS server and prompting the user to input the username and password. After the correct credentials are entered, the selected server's WebUI will be displayed, allowing the user to control the playback server.



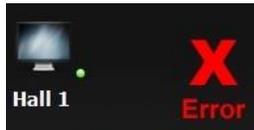
When **[Server Certificate]** is selected, TMS will download the server certificate of the selected screen to the TMS machine. User will be prompted to specify where to save the server certificate of the selected screen.

When **[Connect to Screen]** is selected, the connection between the TMS and the server will be established, allowing the TMS to interface with that server. This is also the default behavior when left clicking the screen icon directly.



When **[Disconnect from Screen]** is selected, the connection between the TMS and the server will be disconnected.

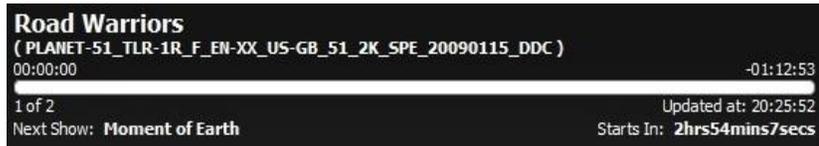
Other connection status include: Error, Playing, Stopped, Paused and Offline. In case of a playback error, the error message will be displayed according to server status when the mouse cursor is on **[Error]** icon as seen below.



Error Detail - Error communicating with Projector [CPL: Nat-Treasure-2_RTG-T1_F_EN-XX_US-GB_51_2K_D1_20070517_TDC]

Note: Connection establishment time varies depending on the amount of data in each individual server to be updated and the network status. The first time connection establishment will be longer as all the data need to be retrieved and synchronized from scratch.

3 This section provides the Server Playlist and content details. When a screen is connected to the TMS, this section will indicate the name of the currently loaded show playlist, the elapsed and remaining time during playback, the current clip title, current clip number, the total number of clips in the SPL and update time (playback server time). The next show and start time will also be shown at the column below.



4 TMS-2000 also has the option to display critical timecodes on the Monitoring page. The following critical timecode indicators are displayed:

- Start of Feature
- Intermission Start
- Intermission End
- Credits

The timecodes are marked on the playlist progress bar and are also displayed as a countdown to the next critical marker, as shown in the below picture.



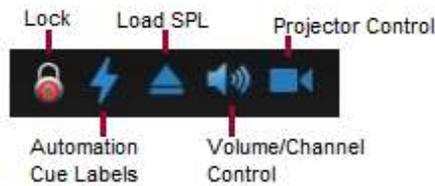
The timecode indicator feature can be enabled by checking the **[Enable Timecodes Indicator]** option from the **Tools → Preferences → POS → Auto-SPL**

- 5 For server remote control buttons, the keys are Play, Pause, Stop, Fast Forward (by 60 seconds for each click or to the end of current clip), Rewind (by 60 seconds for each click or to the beginning of the clip), Next (to next clip) and Previous (to previous clip).

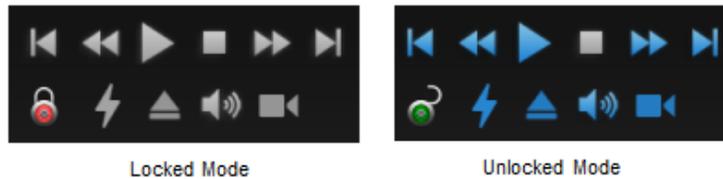


Note: To move forward or backward, the playback status must be **Paused** or **Stopped**.

Besides controlling the server playback functions, TMS can also control the automation cues in the server, load the SPL available in the server for playback, set the sound volume level and sound channel type in the sound processor and control the projector actions include open dowsers, close dowsers, on lamp, off lamp and macros switching.

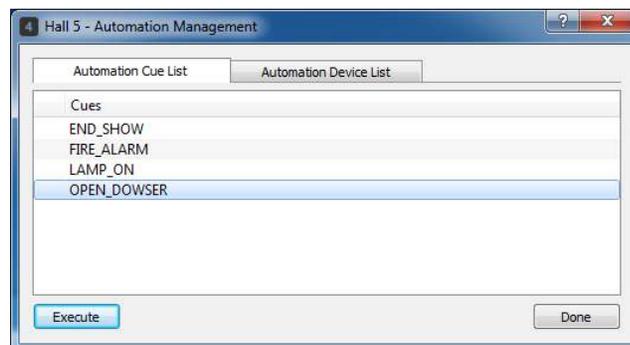


All the buttons are locked by default by the Lock icon. When the buttons are locked, they are greyed out and unable to click. It is to prevent user from accidentally pressing the control buttons, and when the Lock icon is pressed, the icon will be changed to unlocked mode for 10 seconds, and all the available buttons will be in blue color and user can click them for operations.

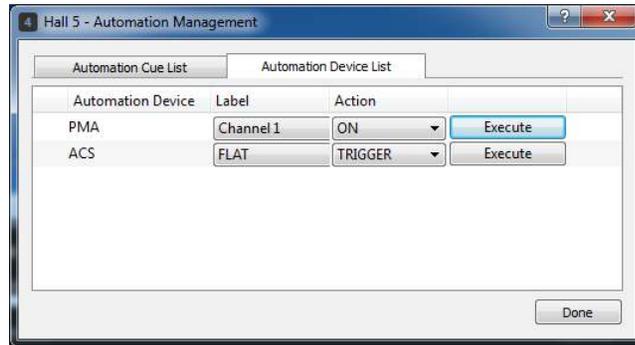


Click **[Execute Automation Labels]** icon  to load all the automation cues available in the server and automation device list.

For Automation Cue, the cues must first be setup and defined in the server. Select a cue from the Automation Cue list, then click **[Execute]** button to load the cue.

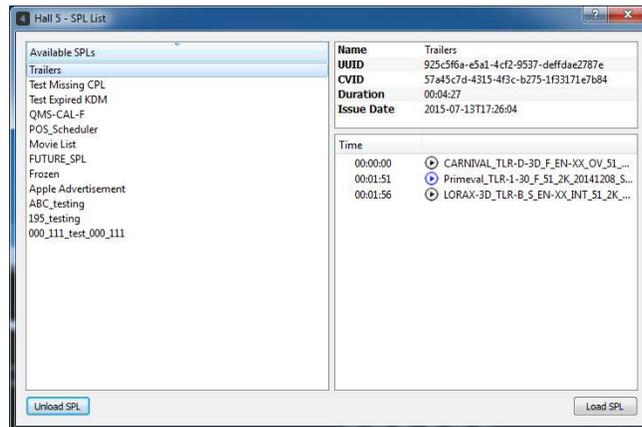


For Automation Device List, select a device from the Automation Device List, select label and action to its corresponding dropdown list, then click **[Execute]** button.



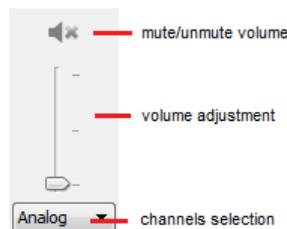
Click **[Load SPL]** icon  to select and load the SPL for playback in the server. The SPL details will be shown when user selects and highlights it. Click **[Load SPL]** button to load selected SPL.

User can also opt to unload currently loaded SPL in the playback server clicking **[Unload SPL]** button in the SPL List window.



For Sound Processor and Projector automation control, both devices must first be defined and mapped to screens in TMS, else the icons will be grey and the devices are unavailable for monitoring and control.

Click **[Sound Processor]** icon , user can mute/unmute, adjust the volume, and select the correct channels for sound output.



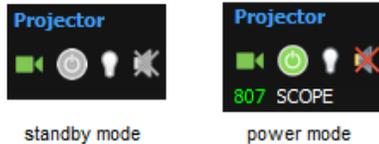
For Projector Control, click **[Projector]** icon  to control projector functions.



For Projector Selection, when there are more than one projectors in a hall, user can click **[Projector Selection]** icon to select the other projector for operation.



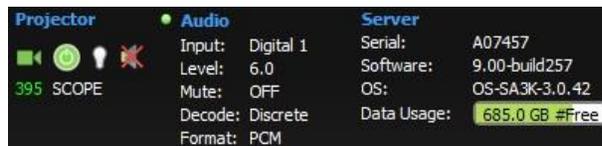
For Power/Standby Mode, this option is only available for Christie and NEC projectors. When the projectors are in standby mode, user can click the icon to change it from offline/standby mode  to power mode  and vice versa. From projector information on the right, user can check whether the projector is in standby or power mode.



For Lamp mode, user can click **[Lamp]** icon  to toggle the lamp to be on or off. When Lamp is on, the icon will turn to yellow .

For Dowser control, user can click the icon to open or close the dowser. When Dowser is open, the icon will change from  to .

6 Screen information on projector, audio and server can be viewed on monitoring tab. Information such as projector's online and connection status, lamp running hours, server serial number, software and OS version, percentage of used OS and data disk space, etc. can be viewed at a glance when a screen is connected.



When mouse cursor is on the projector icon, it will show projector information in text.

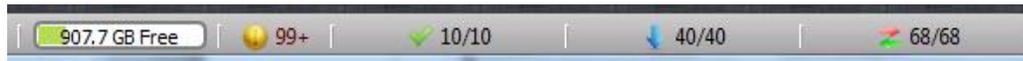
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03 Status:
Connection: Online
Power: projector ON
Lamp: Off
Dowser: Closed
Channel: SCOPE
Lamp Hours: 395
    
```

7 At the bottom of the monitoring tab, the status of each screen is displayed on the left of each screen.



On the right, it indicates the total size remaining in Theatre_Store data storage, the Notification viewer, Content verifier viewer, Ingest status viewer, and Transfer Display viewer.



Click **[Notification viewer]** icon and a pop-up window will show all the notifications received from the servers. System event alerts displayed in the Notifications can be configured in the server UI.



User can verify contents in Theatre_Store data storage in Content Tab. After verifying contents, click 9/9 to display the Content Verifier window to check verification status. The digit on the right shows the total number of tasks and the digit on the left shows the total number of complete tasks.

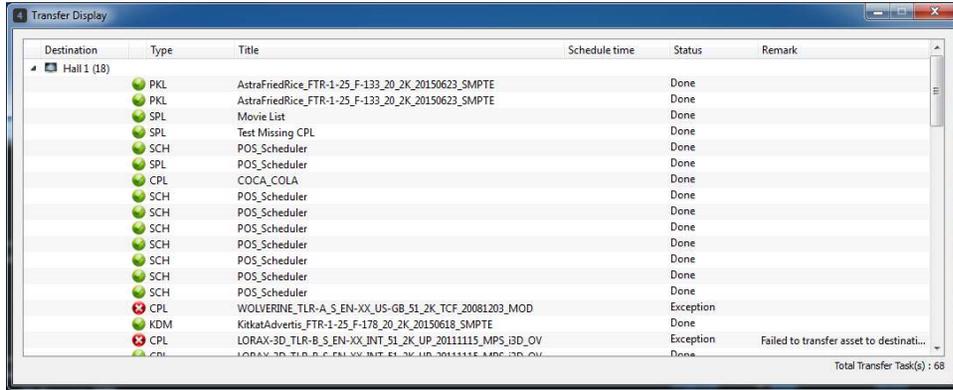
Kind	Mode	Content Name	Status
✓	CPL	FULL FLY-ME-MOON-3D_TRL-2_F_EN-XX_US-GB_51_2K_ISF_20080104_NWV_i3D...	Content is Valid
✗	CPL	FULL CARNIVAL_TLR-D-3D_F_EN-XX_OV_51_2K_PC_20111019_DLA_i3D_OV	Cancelled
✗	CPL	FULL AVATAR-3D_TRL2-3D_F_EN-XX_CA_51_2K_TCF_20091029_MOD_i3D-ngb...	Cancelled
✓	CPL	FULL LEGND-OF-GUARD_TLR-2-2D_S_EN-XX_CA_51-EN_2K_WB_20100309_FKI	Content is Valid
✗	CPL	FULL 3D-Black-10sec_POL_F_51_2K_20081016_TDC_i3D	Cannot read ASSETMAP
✓	CPL	FULL DOLBY-3DDC_POL_S_EN-XX_US_51_2K_20081010_DLB_i3D-NGB	Content is Valid
✗	CPL	FULL AVATAR-3D_TRL2-3D_F_EN-XX_CA_51_2K_TCF_20091029_MOD_i3D-ngb...	Cannot read ASSETMAP
✓	CPL	FULL CM13_061_ISUZU_Rhythm_Joy_45s_Scope	Content is Valid
✗	CPL	FULL LEGND-OF-GUARD_TLR-2-2D_S_EN-XX_CA_51-EN_2K_WB_20100309_FKI	Cannot read ASSETMAP

User can ingest contents into Theatre_Store by using File -> Ingest DCP/KDM. Once ingested, user can click icon to check the ingestion status. The digit on the right indicates the total number of ingestion and the digit on the left indicates the total number of completed ingestion.

Kind	Name	Status	Remark
✓	KDM 4bb96f2a-f296-4d16-afdc-b90d83b3dddc	FINISHED	
✓	KDM 1bb36930-d817-433f-a973-259b2407cdd1	FINISHED	
✓	KDM 577de663-e6e7-439c-92ad-2259e7442719	FINISHED	
✓	KDM 2531fb59-6c6d-4e53-a3c0-c5b10d845058	FINISHED	
✓	KDM c7535aa1-8490-4bc6-ac39-1bf46bbd7fa2	FINISHED	
✓	KDM 19b4177b-0242-466a-99c5-c668879c8b0a	FINISHED	
✓	KDM 05d23656-0c0b-4dc9-86cb-dddf7a0f542c	FINISHED	
✓	PKL WOLVERINE_TLR-A_S_EN-XX_US-GB_51_2K_TCF_20081203...	FINISHED	

Note: Completed ingest tasks older than 5 days will automatically be removed in the Import Display window.

User can transfer contents from one server to another server in the Contents tab. Once transfer is done, user can click the  icon to check the transfer status. The digit on the right indicates the total number of transfers and the digit on the left indicates the total number of complete transfer.



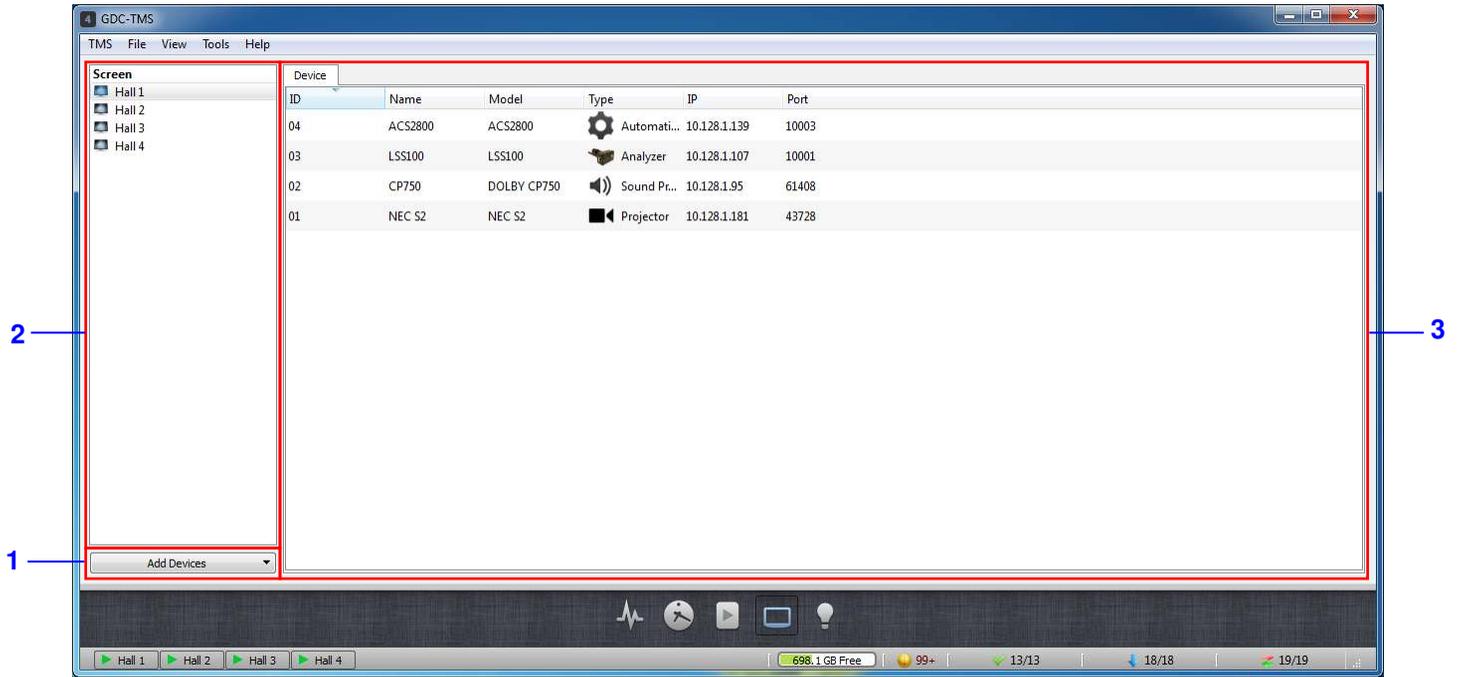
Destination	Type	Title	Schedule time	Status	Remark
Hall 1 (18)	PKL	AstraFriedRice_FTR-1-25_F-133_20_2K_20150623_SMPTE		Done	
	PKL	AstraFriedRice_FTR-1-25_F-133_20_2K_20150623_SMPTE		Done	
	SPL	Movie List		Done	
	SPL	Test Missing CPL		Done	
	SCH	POS_Scheduler		Done	
	SPL	POS_Scheduler		Done	
	CPL	COCA_COLA		Done	
	SCH	POS_Scheduler		Done	
	SCH	POS_Scheduler		Done	
	SCH	POS_Scheduler		Done	
	SCH	POS_Scheduler		Done	
	SCH	POS_Scheduler		Done	
	SCH	POS_Scheduler		Done	
	SCH	POS_Scheduler		Done	
	CPL	WOLVERINE_TLR-A_S_EN-XX_US-G8_51_2K_TCF_20081203_MOD		Exception	
	KDM	KitkatAdvertis_FTR-1-25_F-178_20_2K_20150618_SMPTE		Done	
	CPL	LORAX-3D_TLR-B_S_EN-XX_INT_51_2K_UP_20111115_MPS_3D_OV		Exception	Failed to transfer asset to destinati...
	CPL	LORAX-3D_TLR-B_S_EN-XX_INT_51_2K_UP_20111115_MPS_3D_OV		Done	

Total Transfer Task(s) : 68

Note: Completed transfer tasks older than 7 days will automatically be removed in the Transfer Display window.

4. SCREEN TAB

At **SCREEN** tab, user can add and map devices to Screen. Once a device has been added to Screen, user can check device information, monitor and control device at Monitoring Tab. By clicking **SCREEN** tab, user can see the Device tab at the top of the UI window.



- 1 Click **[Add Devices]** to add and map devices to Screen. Click **[Projector]**.



Enter the Projector Model, ID, Name, IP and define the lamp warranty hours and select the Screen to be linked to. When the lamp hour is set, if the total running hours exceed this value, TMS will send a notification to inform user.

4 Device

Type: Projector Model: BARCO

ID: 01 Name: 01

IP: 10.128.1.223 Port: 43728

UID: Password:

Warranty: 500 hrs

Link to: Hall 1

OK Cancel

After entering the details, click **[OK]**. In the left panel of Screen tab, select Hall 1 in the Screen list to check if Projector added has been mapped as device to Hall 1.

Screen	Device					
	ID	Name	Model	Type	IP	Port
Hall 1	01	01	BARCO S2	Projector	10.128.1.223	43728
Hall 2						
Hall 3						
Hall 4						
Hall 5						

To add Dolby CP750 sound processor, click **[Add Devices]**, followed by **[Sound Processor]**.

4 Device

Type: Sound Processor Model: DOLBY CP750

ID: 02 Name: 02

IP: 10.128.1.95 Port: 61408

UID: Password:

Link to: Hall 1

OK Cancel

4. SCREEN TAB

Click **[OK]**. In the left panel of Screen tab, select Hall 1 in the Screen list to check if Sound Processor added has been mapped as device to Hall 1.

Screen	Device					
	ID	Name	Model	Type	IP	Port
Hall 1	02	02	DOLBY CP750	Sound Pr..	10.128.1.95	61408
Hall 2	01	01	BARCO S2	Projector	10.128.1.223	43728
Hall 3						
Hall 4						
Hall 5						

Click monitoring tab to check that both Projector and Audio information are being shown.

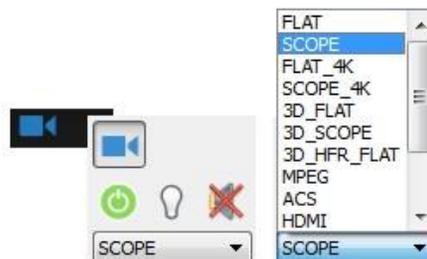


Besides monitoring both Projector and Audio devices, user can change the settings by clicking the Projector and Sound Processor icons.

Click the Sound Processor icon to change the volume and sound channel.



Click the Projector icon to on/off lamp, open/close dowsers and switch the macro type.



To add LSS100 analyzer, click **[Add Devices]**, followed by **[Analyzer]**.

Click **[OK]**. In the left panel of Screen tab, select Hall 1 in the Screen list to check if LSS100 added has been mapped as device to Hall 1.

Screen	Device					
	ID	Name	Model	Type	IP	Port
Hall 1	03	03	LSS100	Analyzer	10.128.1.107	10001
Hall 2	02	02	DOLBY CP750	Sound Pr...	10.128.1.95	61408
Hall 3	01	01	BARCO S2	Projector	10.128.1.223	43728
Hall 4						
Hall 5						

Click Quality tab to check that analyzer is added in the list.

Profile	Date	Screen	Luminance	Chromaticity	Sound	Status
Test	2D_F	Hall 1				

Luminance (fL)		Chromaticity (x y)	
20			
15			
10			
5			
0			

To add ACS-2800 automation device, click **[Add Devices]**, followed by **[Automation]**.

Channels available for ACS-2800 can be configured by clicking **[Manage Channel]** button. In the Manage Channel window, user can select which channels to enable, rename its labels, and configure the channel's action.

Enable	Label	Channel	Trigger Only
<input checked="" type="checkbox"/>	FLAT	1	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	SCOPE	2	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	DIMMER UP	3	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	DIMMER MIDDLE	4	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	DIMMER DOWN	5	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	LIGHTNING	6	<input type="checkbox"/>
<input checked="" type="checkbox"/>	AUX-A	7	<input type="checkbox"/>
<input checked="" type="checkbox"/>	AUX-B	8	<input type="checkbox"/>

Click **[OK]**. In the left panel of Screen tab, select Hall 1 in the Screen list to check if ACS-2800 has been mapped as device to Hall 1.

Click **MONITORING** tab then click Execute Automation Labels icon to check that automation device is added in the screen's Automation Device List.

Automation Device	Label	Action
04	FLAT	TRIGGER

To add PMA-2000 automation device, click **[Add Devices]**, followed by **[Automation]**.

The 'Device' configuration window shows the following details:

- Type: Automation
- Model: PMA1000
- ID: 05
- Name: 05
- IP: 10.128.1.200
- Port: 10003
- UID: (empty)
- Password: (empty)
- Link to: Hall 1

Channels available for PMA-2000 can be configured by clicking **[Manage Channel]** button. In the Manage Channel window, user can select which channels to enable and rename its labels by selecting a channel in the list, then click **[Rename]** button. Enter the desired new label for the channel then click **[Save]** button.

Enable	Label	Channel
<input checked="" type="checkbox"/>	Channel 1	1
<input checked="" type="checkbox"/>	Channel 2	2
<input checked="" type="checkbox"/>	Channel 3	3
<input checked="" type="checkbox"/>	Cha	

Click **[OK]** to save the configuration of the new automation device. In the left panel of Screen tab, select Hall 1 in the Screen list to check if PMA-2000 has been mapped as device to Hall 1.

Click **MONITORING** tab, then click **Execute Automation Labels** icon to check that Automation Management window will include PMA-2000 Controls tab.

4. SCREEN TAB



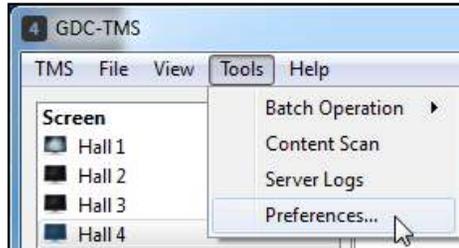
In the PMA-2000 Controls tab, toggle the channel by clicking the switch. Green switch will indicate that the channel is open while the red switch will indicate that it is close. The vertical line above each channel switch will indicate if there is a power coming in its designated channel or not.

Cinema Operating Times can be configured by clicking **[Tools]**, **[Preferences]**, **[General]** then changing the **[Start Time]** and **[End Time]** fields.

- 2 Devices can be added to both online and offline Screens.
- 3 After linking devices to Screen, it will be listed in the Device table of Screen tab.

4.1. Adding TMS Device Proxy [CP650]

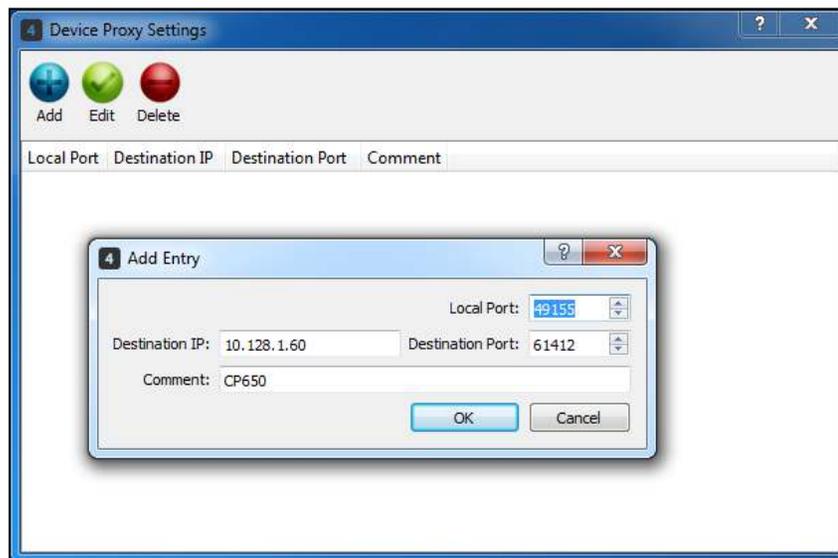
To add CP650 sound processor, user first has to add the CP650 settings into TMS Device Proxy. Click **[Tools]**, **[Preferences]**,



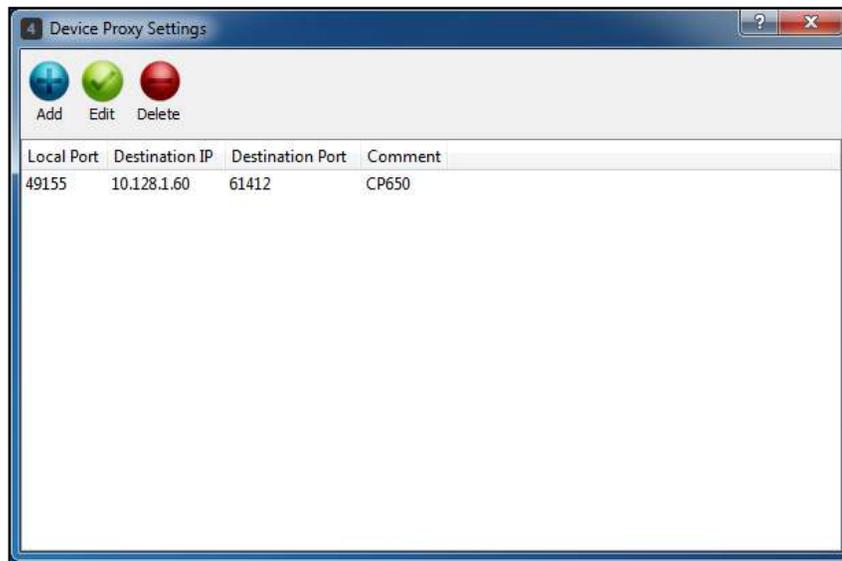
Click **[Device Proxy]** icon and click **[Add]**, from Add Entry pop-up window, input values for the following fields:

- **Destination IP** [IP address of the CP650 sound processor]
- **Local Port** [port for the device proxy of CP650 in TMS machine]
- **Destination Port** [port of the CP650 sound processor]
- **Comment**

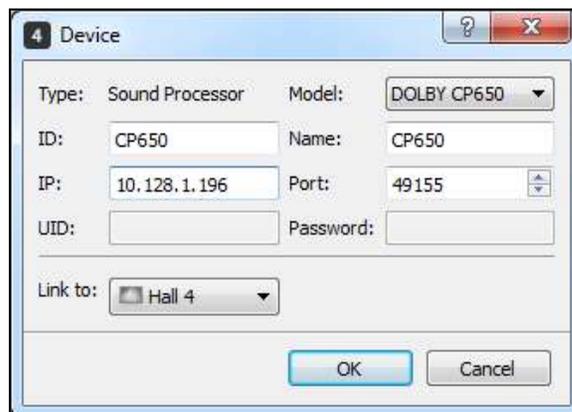
Click **[OK]** to save the entry.



The entry will be saved as shown below. Click the cross at top right corner to close the window.



At Screen tab, click **[Add Devices]**, **[Sound Processor]**. Input the **ID**, **Name**, **IP** [IP address of the CP650 sound processor] and the **Port** [the destination port entered above], select the Screen in the Link to dropdown menu and click **[OK]**.



5. CONTENT TAB

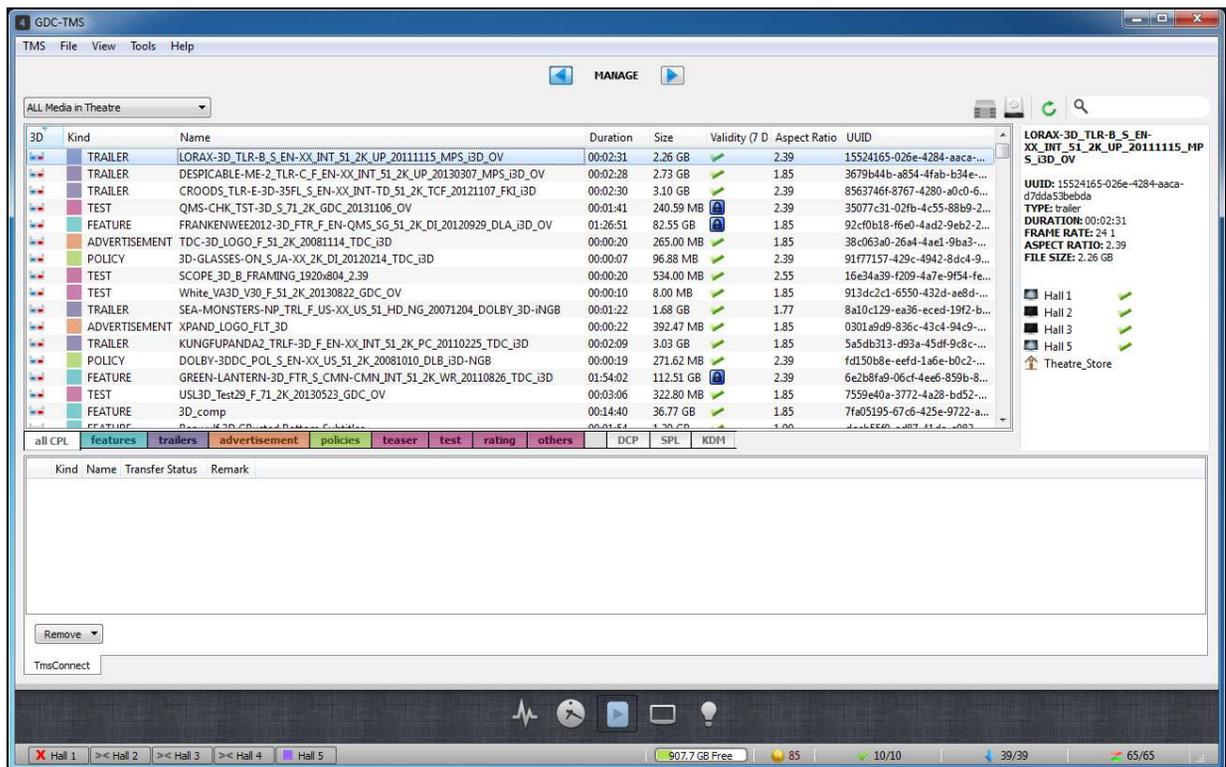
The **CONTENT** tab is designed to allow user to create a show playlist (SPL) in the sub-tab **CREATE** and manage content in the sub-tab **MANAGE**. User can browse aggregated content information such as name, duration, KDM status and storage location, etc. An alert will be highlighted in the user interface under the Validity column when the KDM expiration date falls within a preset threshold. User can build a theatre wide show playlist based on aggregated content from throughout the entire theater. Show playlists can be sent to any connected screens and the content will also be transferred even if it is not present on the screen, which the playlist is transferred to. User can use the **[Search]** button to search for contents. The other buttons are **Library, Backup Storage, Update**.



5.1. Manage Content

5.1.1. Aggregation and Display

To manage contents, click **[MANAGE]** to access the sub-tab as seen below.



Movie content and playlists available on the TMS and the screens in the theatre can be aggregated and managed in this area. They can be browsed by selecting location and category combinations. The location/view can be filtered further to only the TMS store or one individual screen, but defaults to All Media in Theatre. Contents are listed into the following categories: CPL, DCP, SPL, and KDM.

While its Composition Playlist (CPL) is filtered into the following types: features, trailers, advertisements, policies, teaser, test, rating, and others. The **[Update]** button  allows user to retrieve the latest data from connected screens, in case any recent changes were made at the server itself. The time required to perform an update increases as the amount of data being pulled increases.

When the **[all CPL]** sub-tab is selected, all types of CPLs will be displayed; Information includes the CPL name, duration, size, format, validity, etc. For more convenient browsing, CPLs are displayed in different categories based on the composition type.

The display area on the right side will show more detailed information about the selected CPL and where it is located.

LORAX-3D_TLR-B_5_EN-XX_INT_51_2K_UP_20111115_MP5_3D_OV

UUID: 15524165-026e-4284-aaca-d7dda53bebdb

TYPE: trailer

DURATION: 00:02:31

FRAME RATE: 24.1

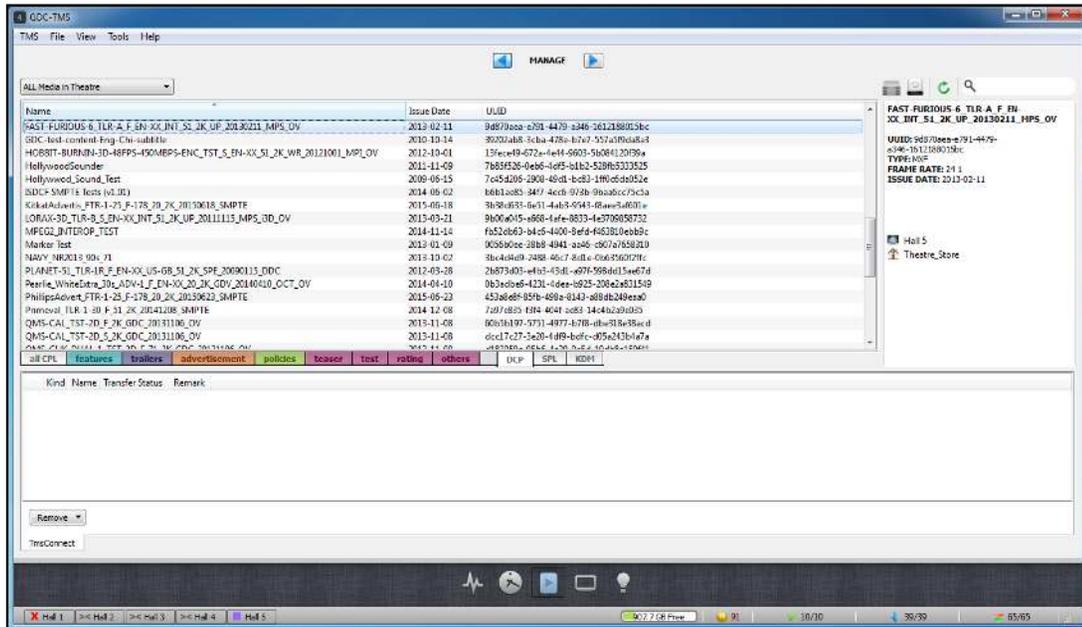
ASPECT RATIO: 2.39

FILE SIZE: 2.26 GB

- Hall 1
- Hall 2
- Hall 3
- Hall 5

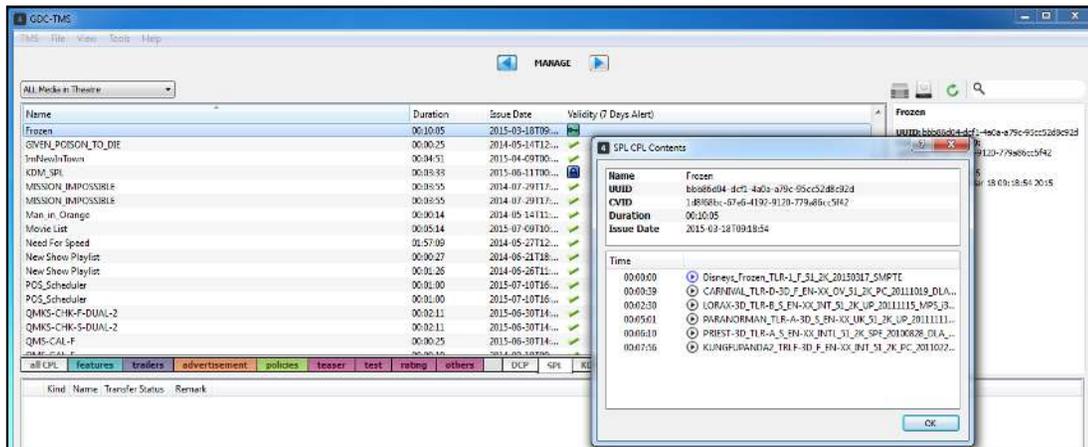
 Theatre_Store

The category tab **[DCP]** will show the user the DCP information, which includes name, UUID, issue date and storage location.



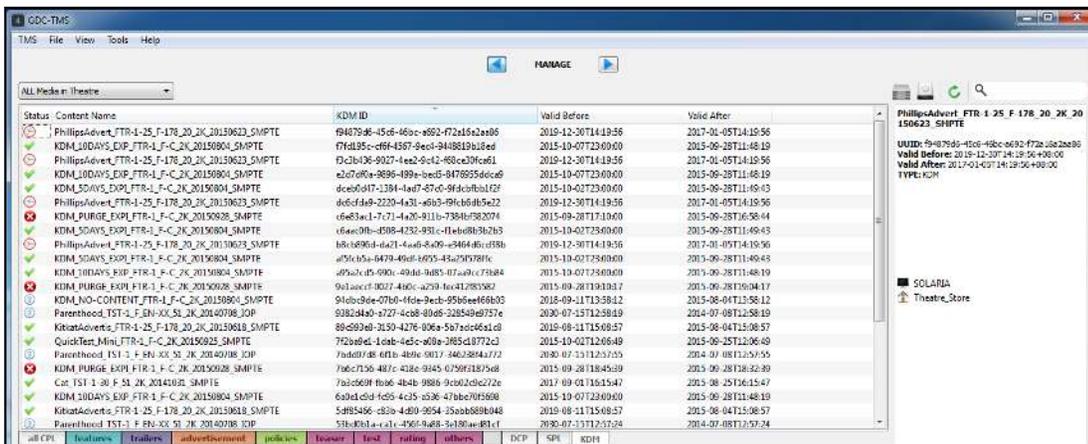
The category tab **[SPL]** contains show playlists across the theatre. The location and details of the selected SPL are displayed on the right side. By selecting the **[Detail...]** button, user can view the CPL and right-click the CPL, then select **[Display All Cue]** to show cue label items or intermission in the playlist.

By right-clicking any selected CPL, DCP and SPL, user can transfer or delete content. More detailed information on these features are available later in this chapter.

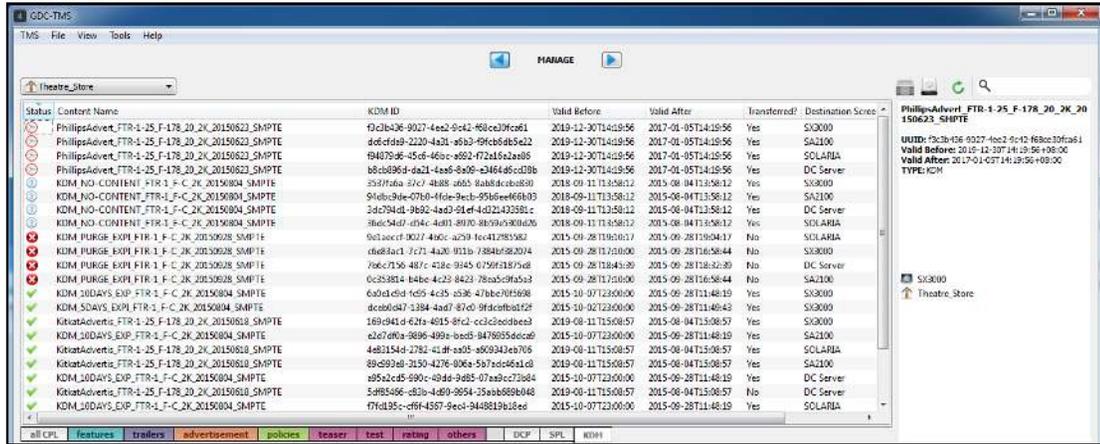


The category tab **[KDM]** contains a list of content security keys across the theatre. It provides information such as the KDM status, Content Name, KDM ID, Valid Before date, and Valid After date. The following icons indicate the KDM's status:

- - indicates that the KDM is valid
- - indicates that the KDM is expired
- - indicates that the KDM's validity is in future date
- - indicates that the KDM's content is not available in Theatre_Store or any of the servers registered in TMS when it was ingested.



More details such as KDM's destination screen and if it was transferred to its corresponding server can be viewed Theatre_Store.



5.1.2. Data and Transfer

Data and Transfer allows user to define the location where the content is being stored in TMS, select Content Transfer Source location and define the Transfer Source Settings.

Data and Transfer

Content Settings

Data Directory : D:\ Browse...

Autoverify Content Auto Content Transfer

Automatic KDM transfer after ingest Fix ASSETMAP when transferring to Qube

Custom Content Source Purge expired KDMs on Theatre Store

Stop transfer when the server has not enough free storage

Enable Automatic Theatre Store Cleanup

Trigger the cleanup once drive usage reaches: 90% (16.4 TB/18.2 TB)

During cleanup, delete unused contents by as much as: 5% (931.5 GB)

Do not delete contents ingested within: 6 days

Transfer Settings

Transfer Schedule Preferred Time: 00:00

Custom Transfer Source

Protocol: FTP

Source IP: 192.168.2.100

Prefix Path:

Username: ftuser

Password: *****

URL: ftp://192.168.2.100

Scheduled Content Transfer and Storage Management

Check schedules for needed content that are within: 48 hours

Delete unused content on server if used storage space reaches: 90 %

Do not delete content if used on shows scheduled within: 6 days

Active Time Range

Start Time: 01:00 End Time: 08:00

00:00 01:00 08:00 23:59

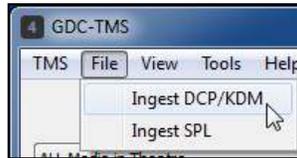
OK Cancel

For Data Directory, content location can be either on TMS PC itself or a network mapped folder. Default Theatre_Store directory is **C:\Program Files (x86)\GDC\TMS\data\data\repository.**

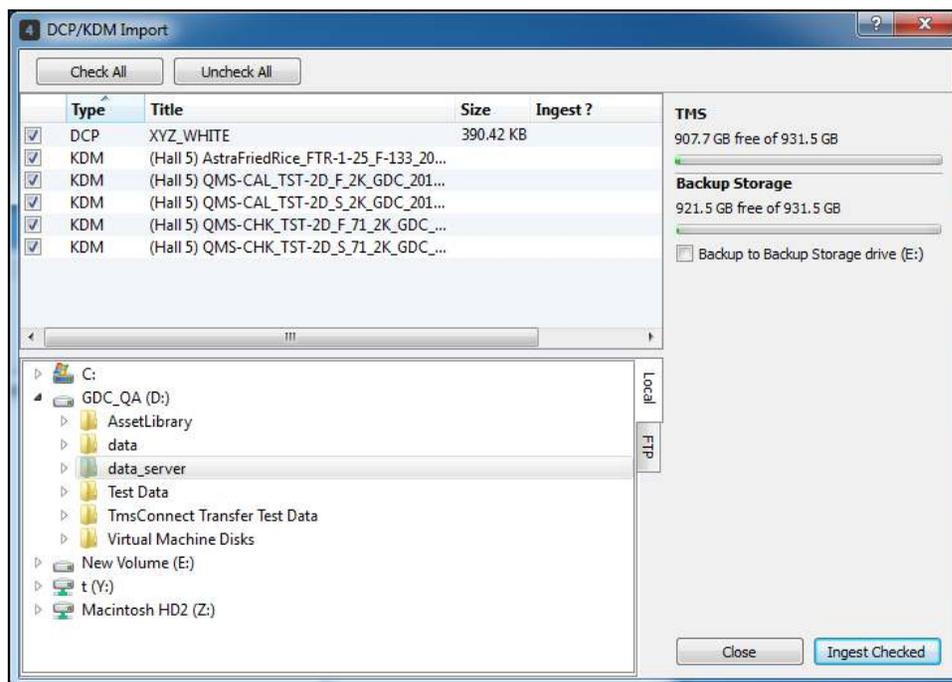
When **[Enable Auto Content Transfer]** checkbox is ticked, TMS will check every 2 hours the scheduled SPLs. If there are missing contents or KDMs that are included in the scheduled SPLs, TMS will do an automatic content transfer to its designated screens.

5.1.3. Ingest DCP/KDM through Local Machine

Click menu **[Tools]**, **[Ingest DCP/KDM]**, an user interface “DCP/KDM Import” window will pop up to import movie content or KDMs from one location on any attached drive to the TMS machine (It can be an external hard disk or mapped network drive network) into the TMS storage.



Select the individual drive and folder button, user can browse a hard disk drive directory and select the folder which contains content packages and KDMs to be imported into the TMS storage, Theatre_Store. When a content is already ingested, it will be greyed out and is unable to be selected for import.

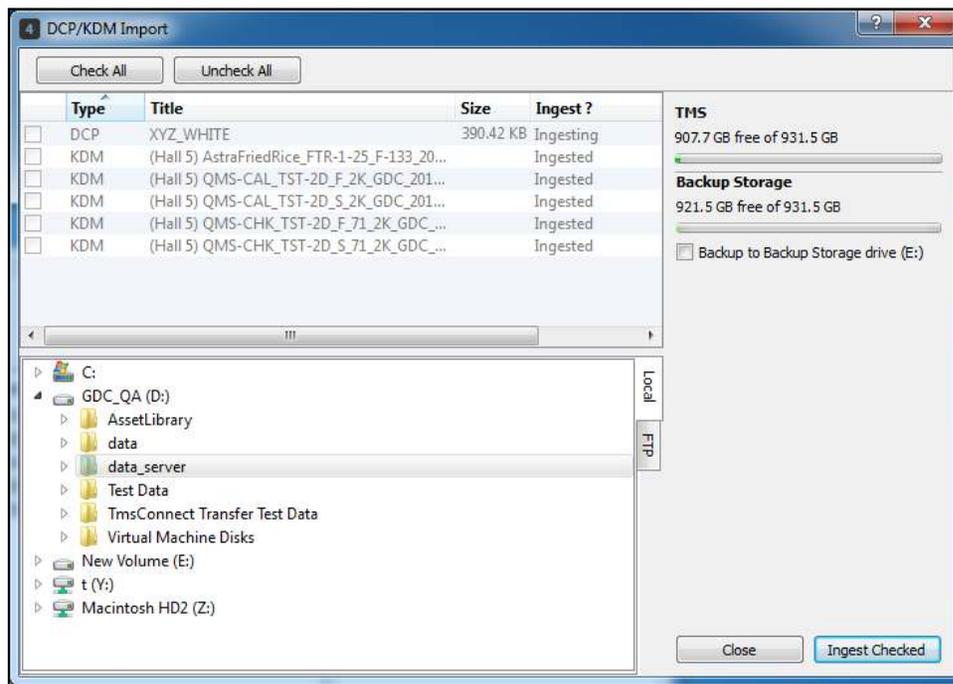


For Ingesting DCPs, the TMS will automatically detect the content package information in the selected folder. Composition clips of the DCP will be displayed and selected automatically for further import.

For Ingesting KDMs, the TMS will automatically detect which servers the KDMs belong to. Automatic transfer of KDM to its designated screens after successful ingestion to TMS Theatre_Store can be enabled in Preferences, click **[Tools]**, **[Preferences]**, **[Data and Transfer]**, tick **[Automatic KDM transfer after ingest]** checkbox, then restart TMS for changes to be effective.

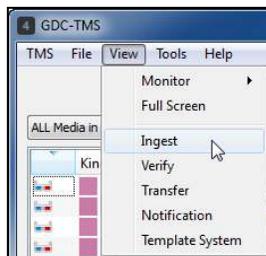


If a server is disconnected from TMS and KDM transfer after ingest is enabled, TMS will not send the KDM to the server until it is connected. Multiple KDM files can be selected at the same time.

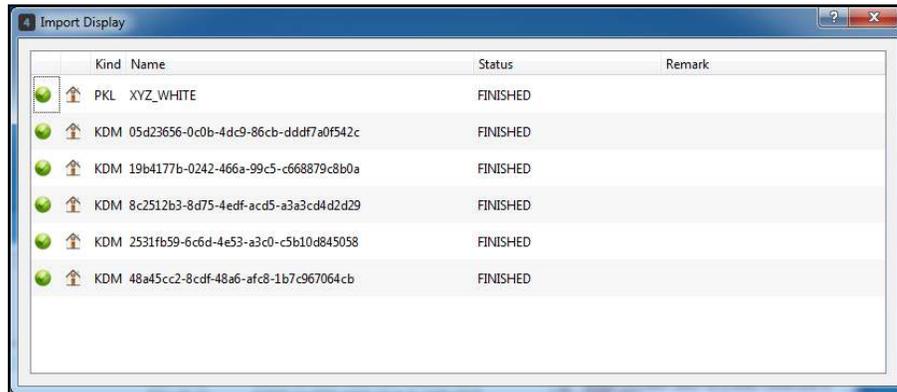


User can check the total space available in the TMS Theatre_Store data storage on the right of the window which indicates the free space before ingesting content into it. In the Packages list, select the clips to import to the TMS and click **[Ingest Checked]**. "Ingesting" will be shown below the Ingest column.

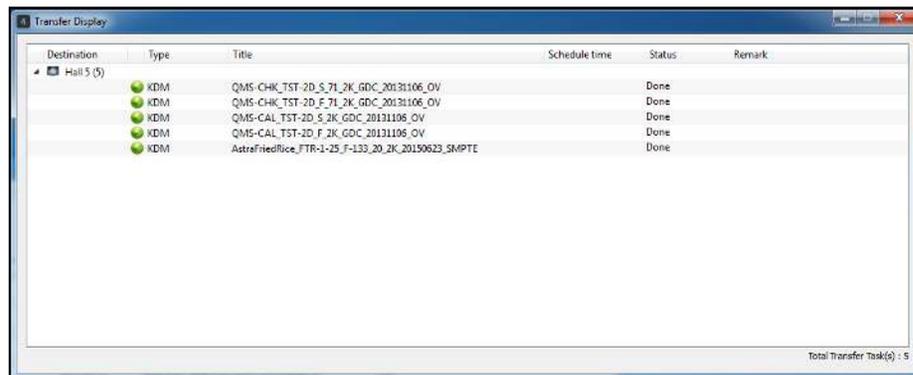
Select **[Close]** to close the ingest window. To check the ingest progress status, check on **[View]**, **[Ingest]**.



An Import Display window will pop up, it will show whether the content is successfully ingested. Alternatively, user can click the bottom right arrow  and the same Import Display window will pop up.

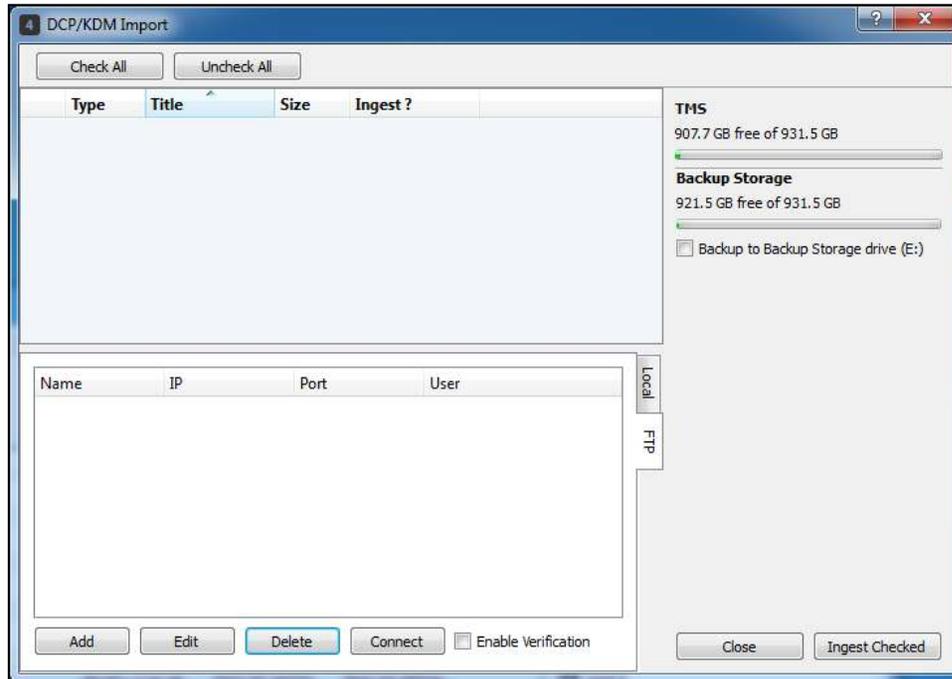


To check the transfer progress status of DCPs and KDMs, check on the menu **[View]**, **[Transfer]**. A transfer content window will pop up, it will show whether the content is successfully ingested. Alternatively, user can click the bottom right arrow  and the same Transfer Display window will pop up.

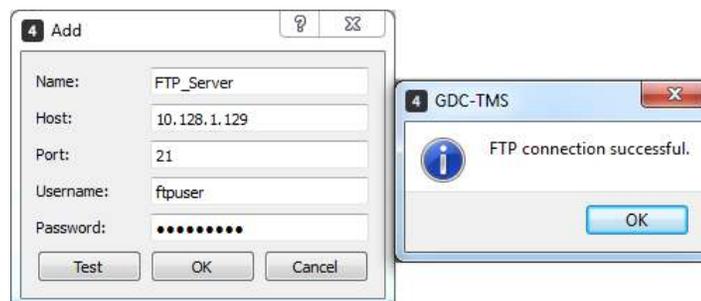


5.1.4. Ingest DCP/KDM through FTP

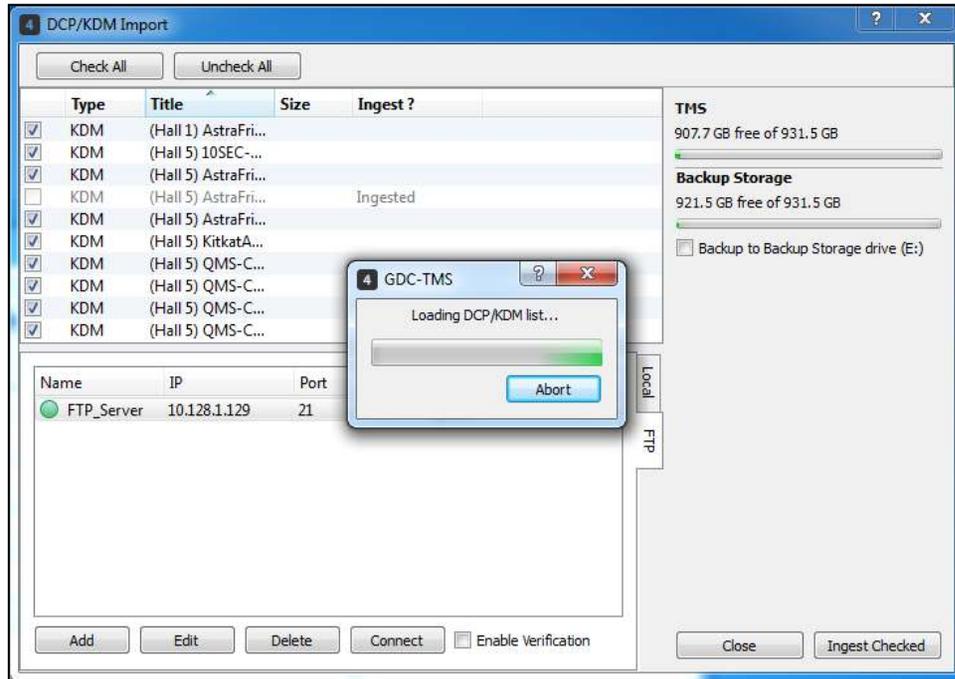
User can transfer contents from servers to TMS Theatre_Store by using the FTP ingest. To import content using FTP into Theatre_Store, click the FTP tab, click **[Add]** to add new FTP source.

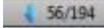


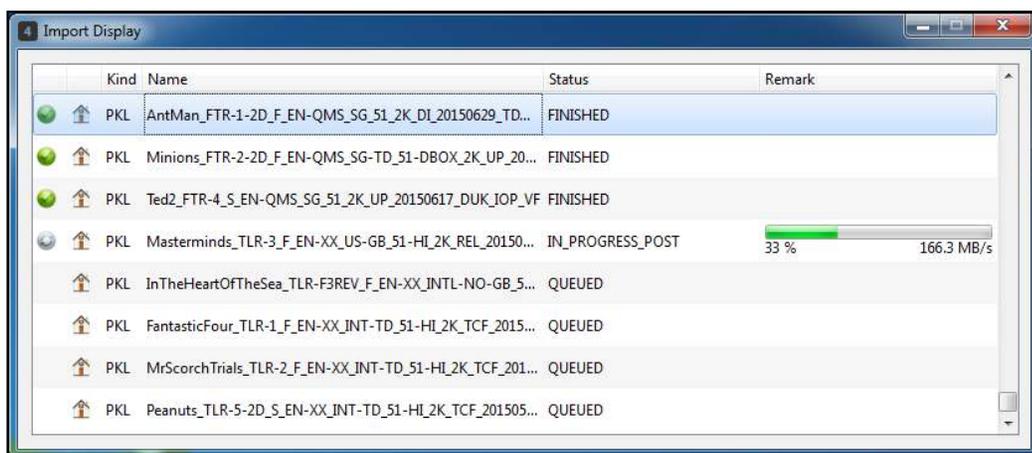
Enter the details of the FTP source, and click **[Test]** to check if the connection is successful, and click **[OK]**.



A new entry will be shown in the FTP column, click **[Connect]** to connect to Hall 1 using FTP. As Hall 1 is connected, TMS will load all DCP listed in the server. By ticking the **[Enable Verification]** checkbox beside the **[Connect]** button, TMS will verify whether the contents listed from the FTP server is valid or not. If the content is invalid, it will be grayed out and user will not be able to select the content from the list.

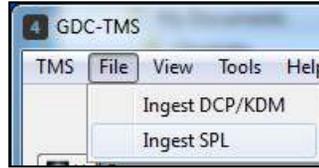


Click **[Ingest Checked]** to ingest all contents in Hall 1 to TMS Theatre_Store. At the bottom right of the TMS User Interface, there will be an icon that shows the ingestion progress , which means that TMS is currently processing the 56th tasks out of a total of 194 tasks. Double-click the arrow to check the ingestion progress.

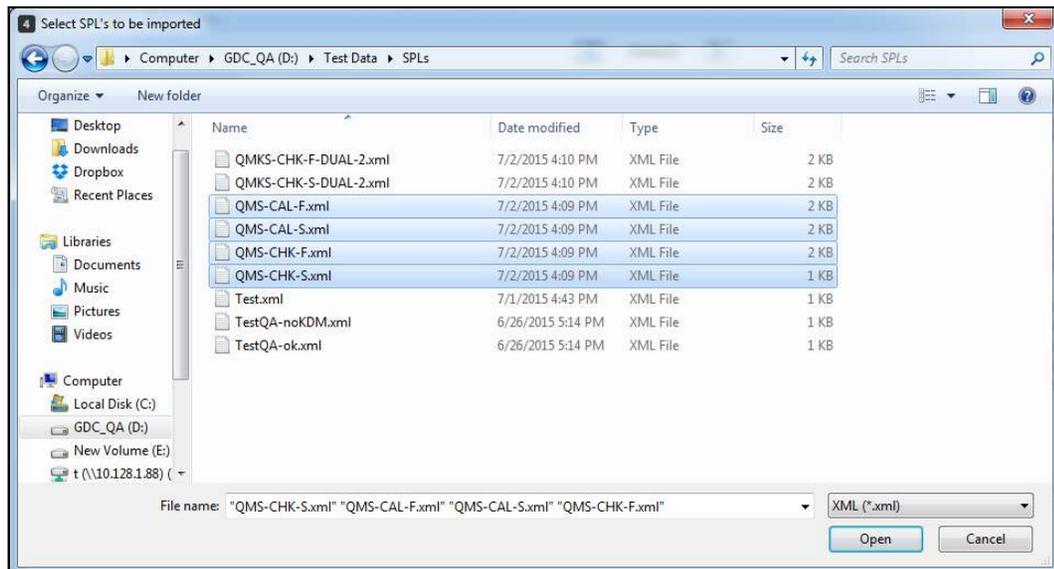


5.1.5. Ingest SPL

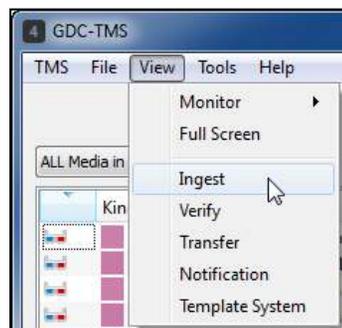
Click menu **[File]**, **[Ingest SPL]**.



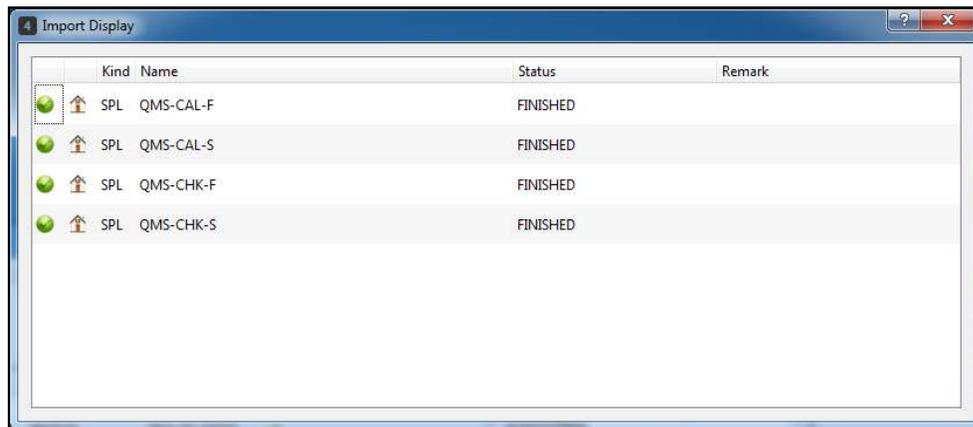
Locate the of SPL files in the disk drive. Select the SPL file and press **[Open]**. Multiple SPL files can be selected at the same time.



To check the ingest progress status of the SPL, check **[View]**, **[Ingest]**.

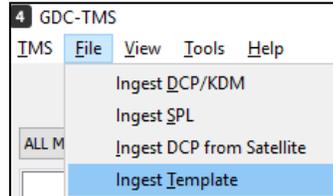


An Import Display window will pop up, it will show whether the content is successfully ingested. Alternatively, user can click the bottom right arrow  and the same Import Display window will pop up.

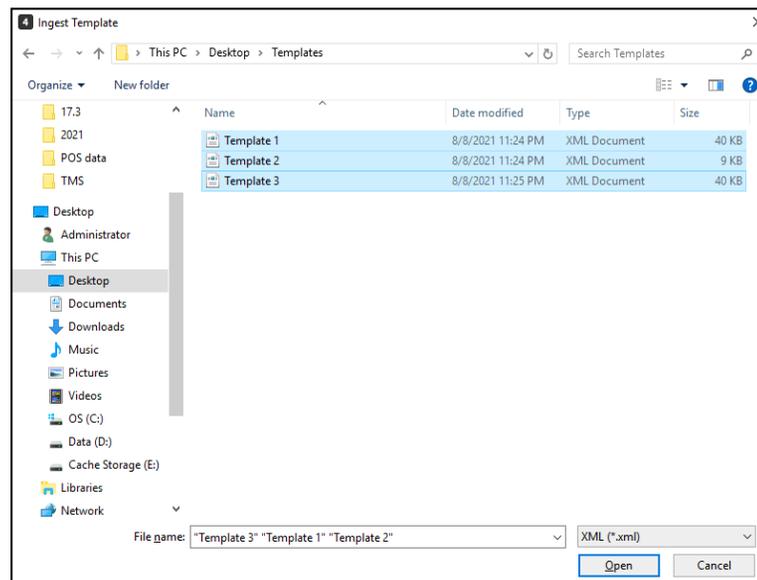


5.1.6. Ingest Template

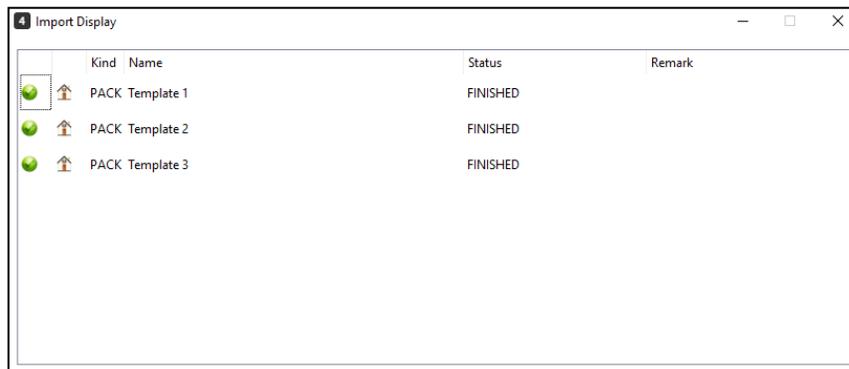
The [Ingest Template] option allows users to ingest Templates and Content Packs into the TMS. To do so, click menu **[File], [Ingest Template]**.



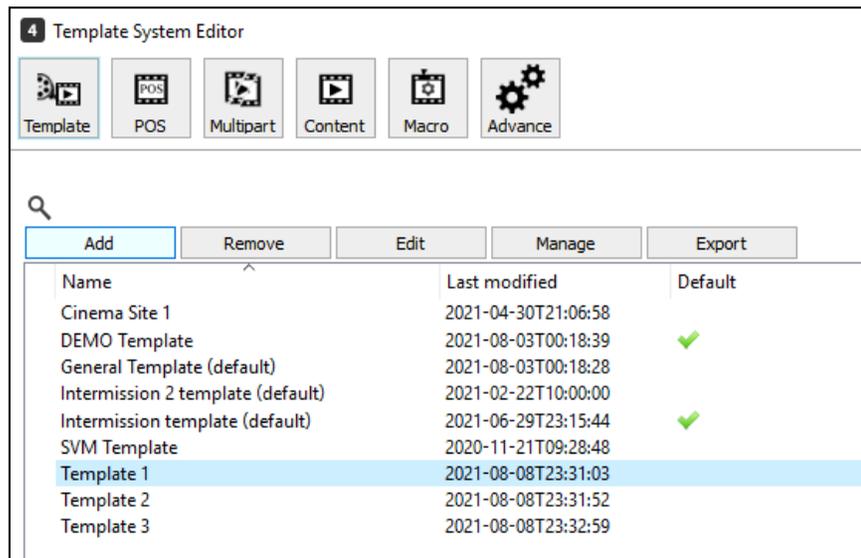
Locate the Template files in the disk drive. Select the Template file(s) to be ingested and press **[Open]**. Multiple Template files can be selected for ingestion at the same time.



An Import Display window will pop up and show whether the Templates were successfully ingested. Alternatively, user can click the bottom right arrow  and the same Import Display window will pop up.

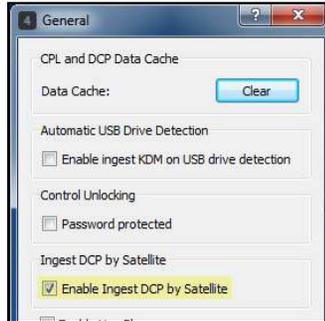


Once ingested successfully, the Templates will be available in the Template System Editor as seen in the image below.

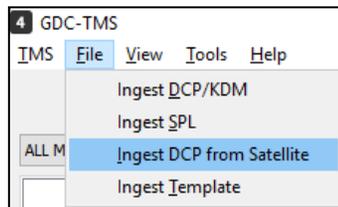


5.1.7. Ingest DCP from Satellite

Ingest DCP from Satellite can be enabled in Preferences, click **[Tools]**, **[Preferences]**, **[General]**, tick **[Enable Ingest DCP by Satellite]** checkbox, then click **[OK]** for changes to be effective.



Click menu **[File]**, **[Ingest DCP from Satellite]** option will be available to user.



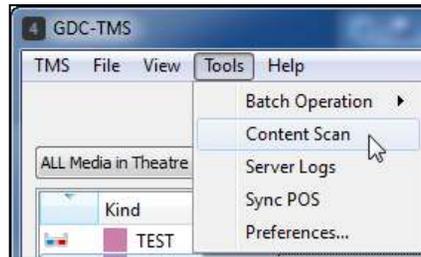
Enter the details of the satellite's DCP host, then click **[Connect]**. TMS will load all DCP available in the satellite.



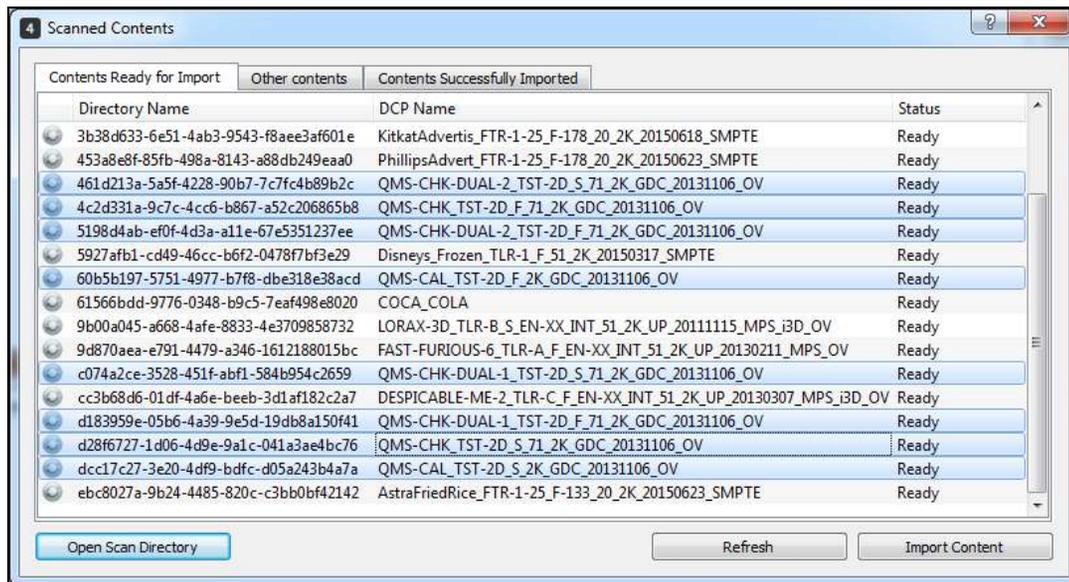
Click **[Ingest Checked]** to ingest all contents from satellite. Select **[Close]** to close the ingest window. To check the ingest progress status, check **[View]**, **[Ingest]**.

5.1.8. Content Scan

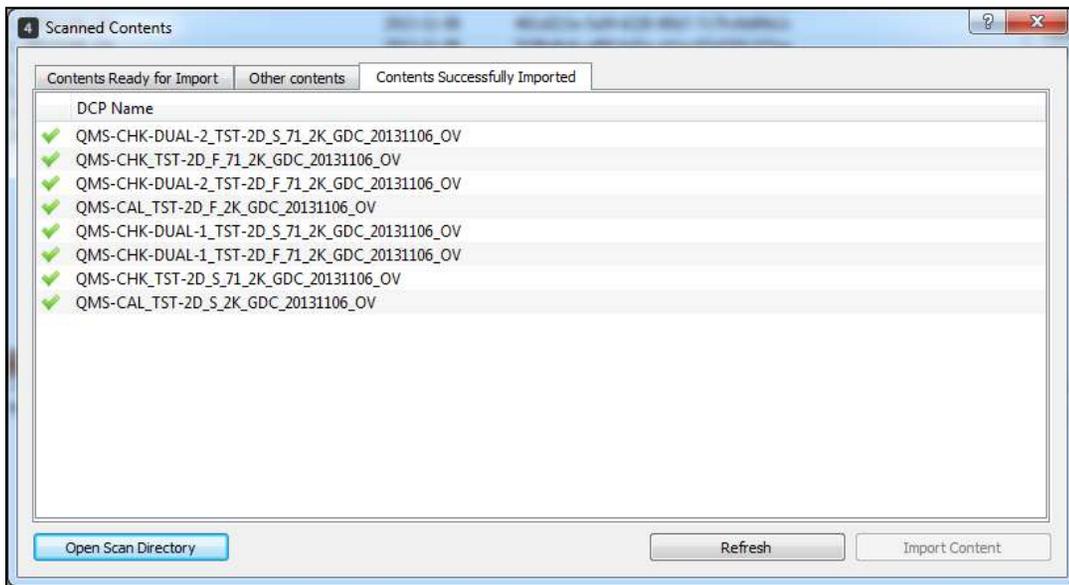
Content Scan allows user to do a batch import of contents to TMS without the need of ingesting the contents one by one. User can copy and paste all the contents in the Scan Directory (C:\Program Files (x86)\GDC\TMS\data\data\repository\scan). Check **[Tools], [Content Scan]**.



The Scanned Contents window will display the Contents Ready for Import tab with the list of the contents that are ready for import. Click **[Refresh]** button to update the information in the list.



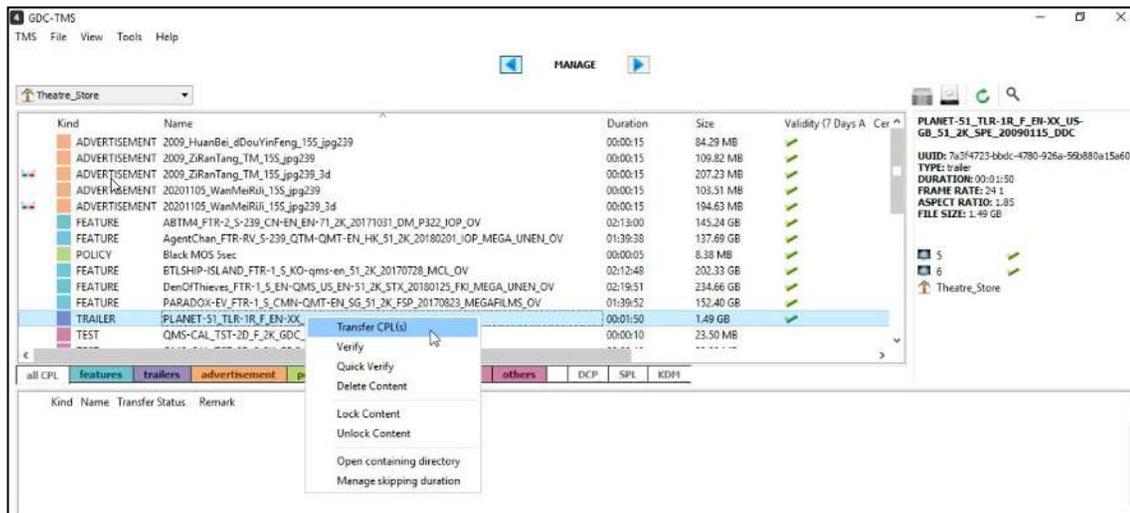
Select the contents you want to import, then click **[Import Content]** button. Scanned Contents window will display the Contents Successfully Imported tab with the list of the contents imported in TMS.



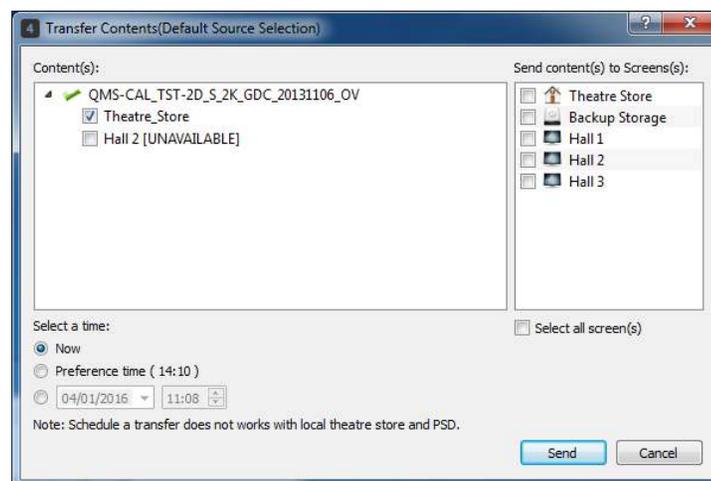
5.1.9. Content Transfer

The TMS can initialize the content transfer from the TMS to the screens, from the screens to the TMS and from one screen to another.

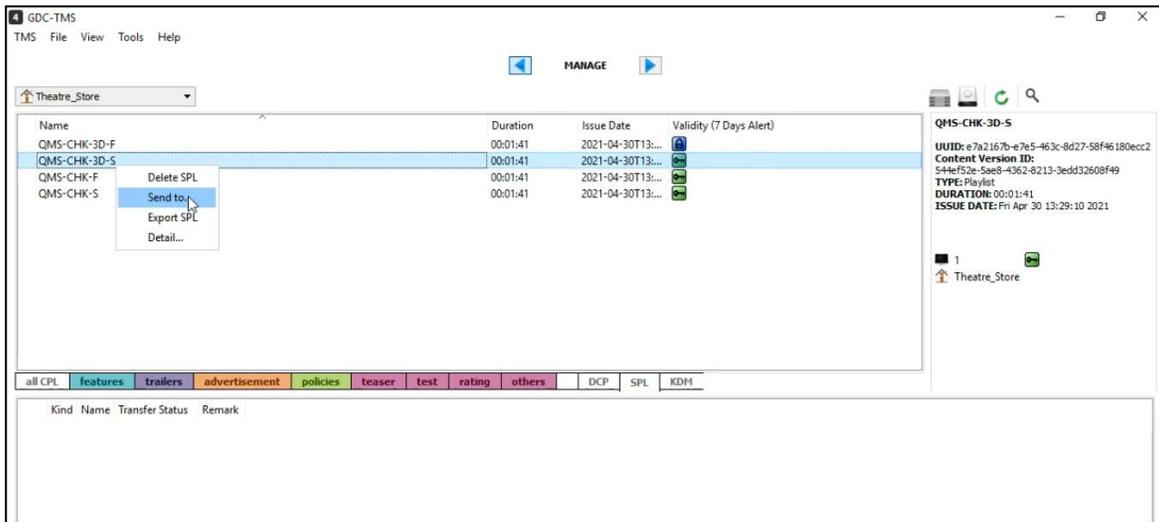
Note: To support content transfer between screens, make sure the data channel and file transfer service are ready for use.



For transferring CPLs and DCPs; select single or multiple items from the movie content list to transfer to single or multiple screens simultaneously. The source location can be the TMS or the screen storage. Right-click the content and choose **[Transfer CPL(s)]** (or **[Transfer DCP(s)]** for DCP), a window will pop up as seen below. The left side of the window displays the content to be transferred and the right side of the window lists the connected screens that user can send the content to. Select the screens to send the content to and then press **[OK]**. The TMS will begin transferring the content to all selected screens.

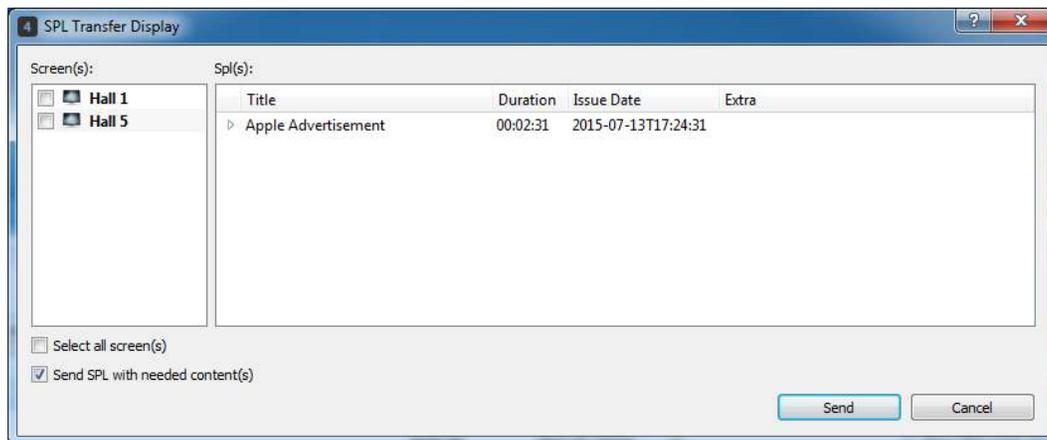


For transferring SPLs, click SPL tab to view the list of available SPLs.



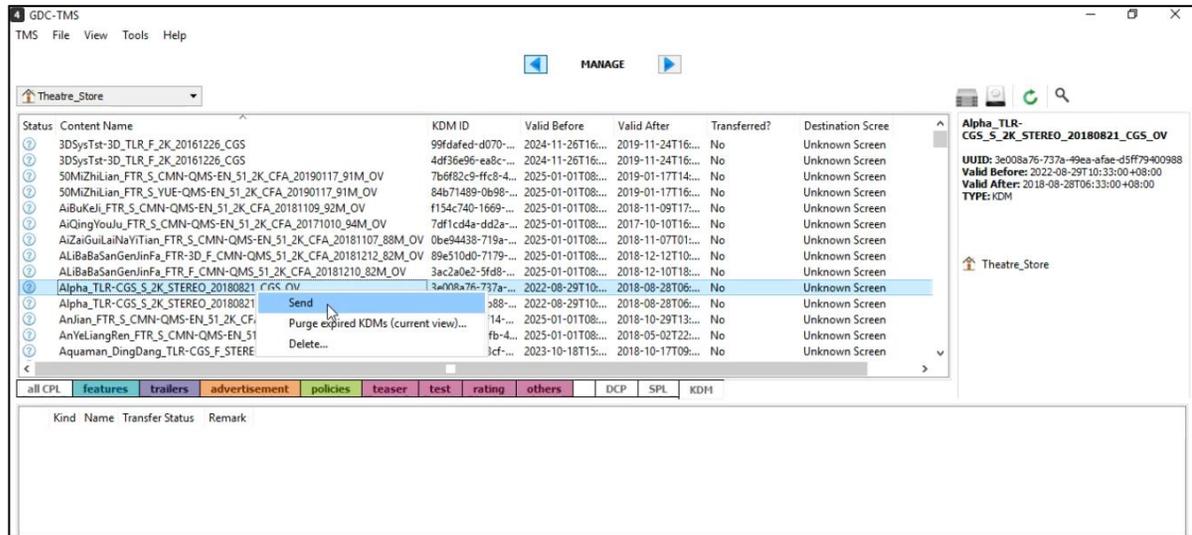
Right-click the show playlist and choose **[Send to...]**, a window will pop up as seen below. The left side of the window lists the connected screens which user can send the playlist to and the right side of the window displays the content and information of the SPL. When **[Send SPL with needed content(s)]** checkbox is ticked, TMS will locate all the contents in the SPL from all available sources and send them to the designated screens together with its SPL.

Select the screens to send the SPL to and then press **[Send]**. The TMS will begin transferring the SPL and its content to all selected screens.

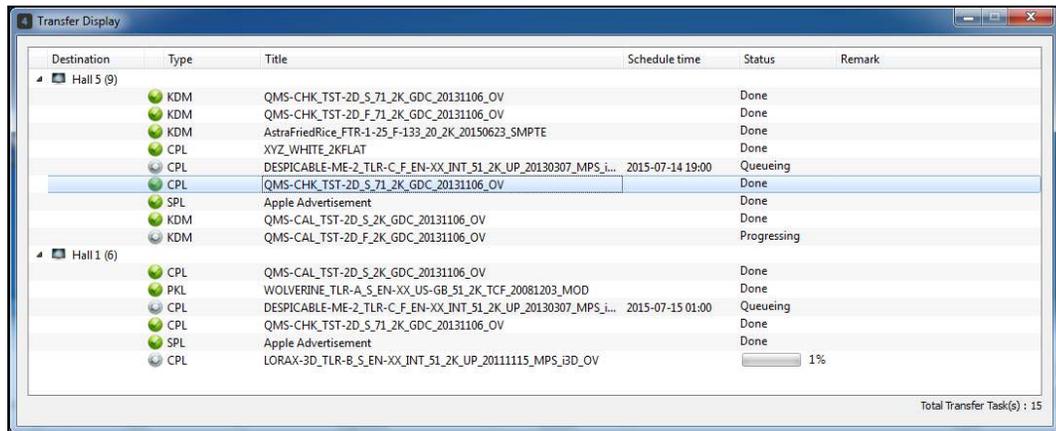


User can also opt to send the SPL only with its contents, untick **[Send SPL with needed content(s)]** checkbox option and then press **[Send]**. TMS will send only the SPL to all selected screens.

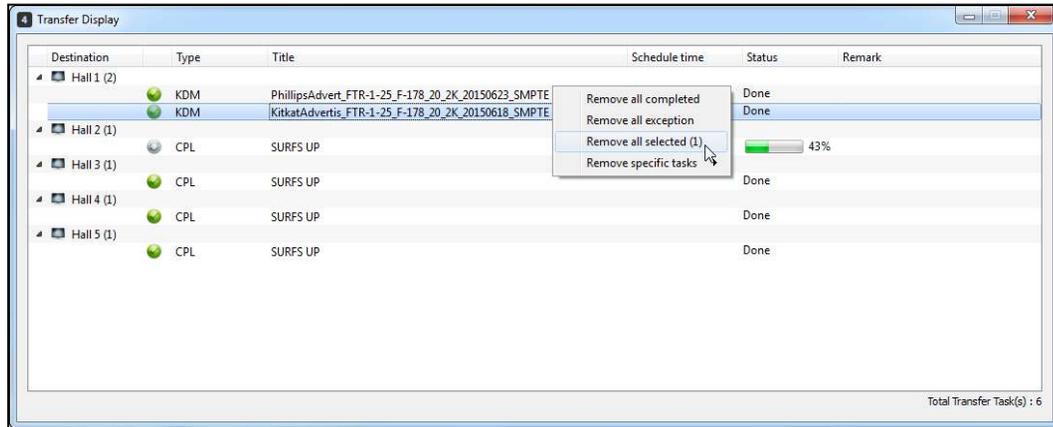
For KDMs not yet transferred to its destination server, go to KDM tab of Theatre_Store to view the list of KDMs available. Transferred? column will indicate whether the KDMs are transferred or not. Right-click a KDM where Transferred status is 'No' and choose [Send].



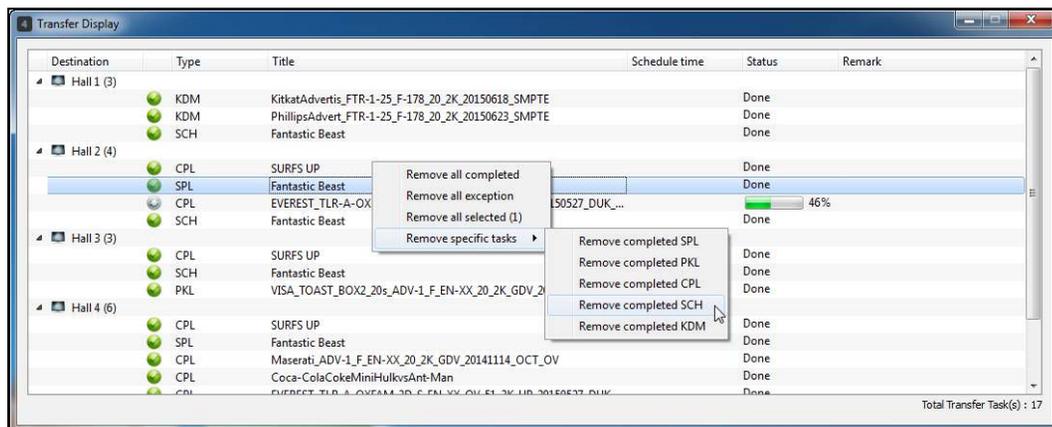
To view the transfer status, click the  button located at the right bottom corner of the user interface. Transfer tasks are grouped by their destination screen name. Destination, type, title, schedule time, status, and remarks will be displayed and updated regularly. The transfer status can be: **Queueing, Progressing, Done, Exception.** For transfers in progress, the percentage of transfer completion is shown. The system will periodically update the transfer progress.



If a transfer fails, reason for the failure will be displayed in the **Remark** column if available. To cancel an existing transfer or to remove a completed transfer, right-click the transfer in progress, then select **[Remove all selected]**.



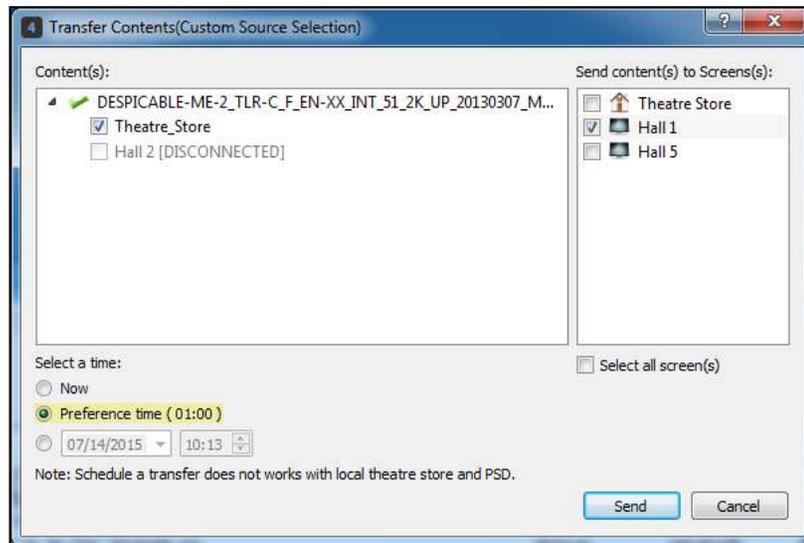
Completed transfer tasks can be removed by type such as SPL,PKL, CPL, SCH, and KDM. For example, user want to remove completed schedule tasks, right-click the transfer in progress, select **[Remove specific tasks]**, then click **[Remove completed SCH]** from the list.



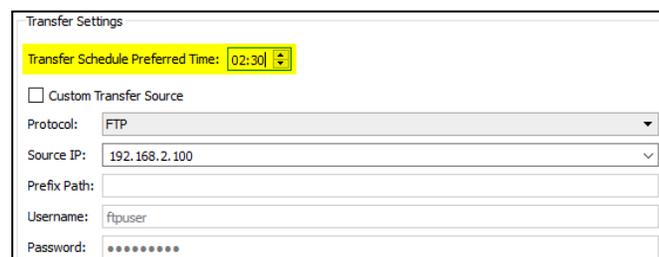
5.1.10. Scheduled Transfer

Scheduled Transfer allows contents transfer to be scheduled at a later designated time. It is useful when the server is in playback mode, and user can schedule the date and time for the transfer to take place after movie playback is complete or when the server is in idle status. Users have an option to schedule a transfer by Preference Time or by selecting a Date and Time of the schedule.

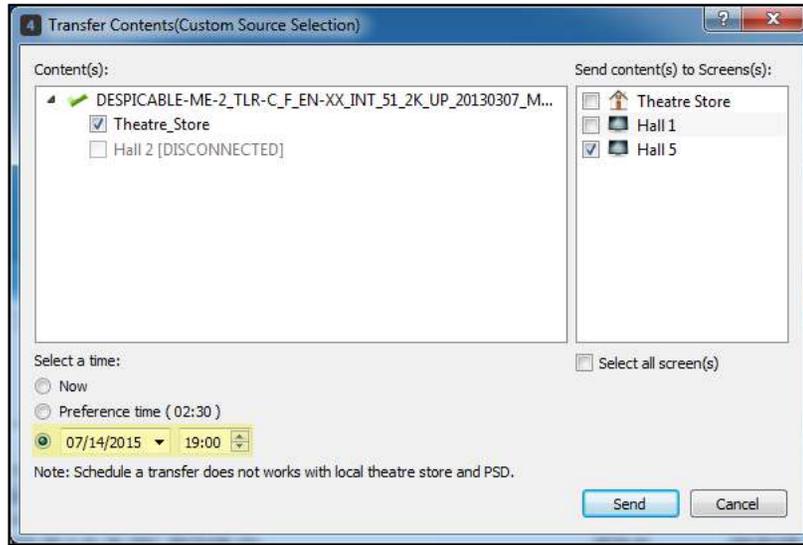
To schedule a transfer by Preference Time, select **[Preference time (HH:MM)]** radio button, and click **[OK]** button. In the screenshot below, transfers will be executed every day at 01:00.



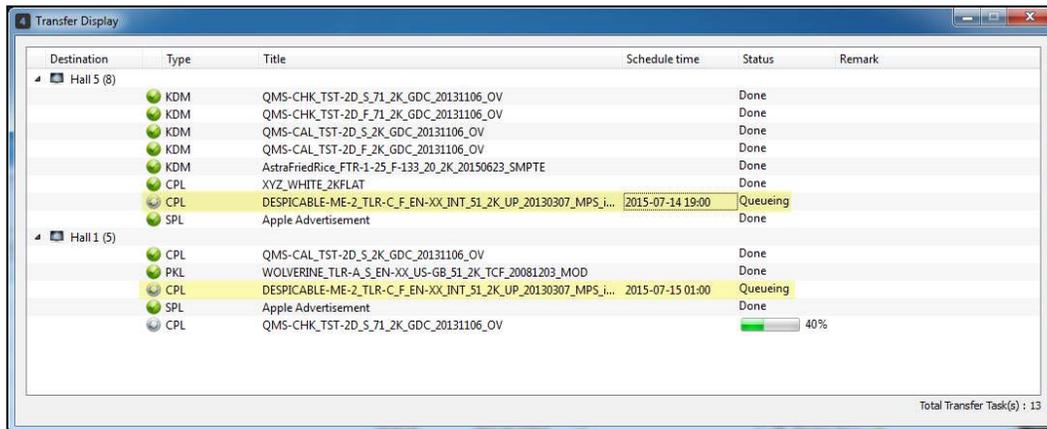
Preference time for schedule can be configured, click **[Tools]**, **[Preferences]**, **[Data and Transfer]**; enter the **[Transfer Schedule Preference Time]** under the Transfer Settings section, then click **[OK]** button. In the example below, preference time will change to 02:30 and scheduled transfer will be executed every day at 02:30.



Users can also schedule a transfer by selecting a Date and Time of the schedule; select **[Date/Time]** radio button to enable the date and time fields. Select the date in the calendar lookup and set time, and click **[OK]** button. Transfer will be executed on the date and time selected.

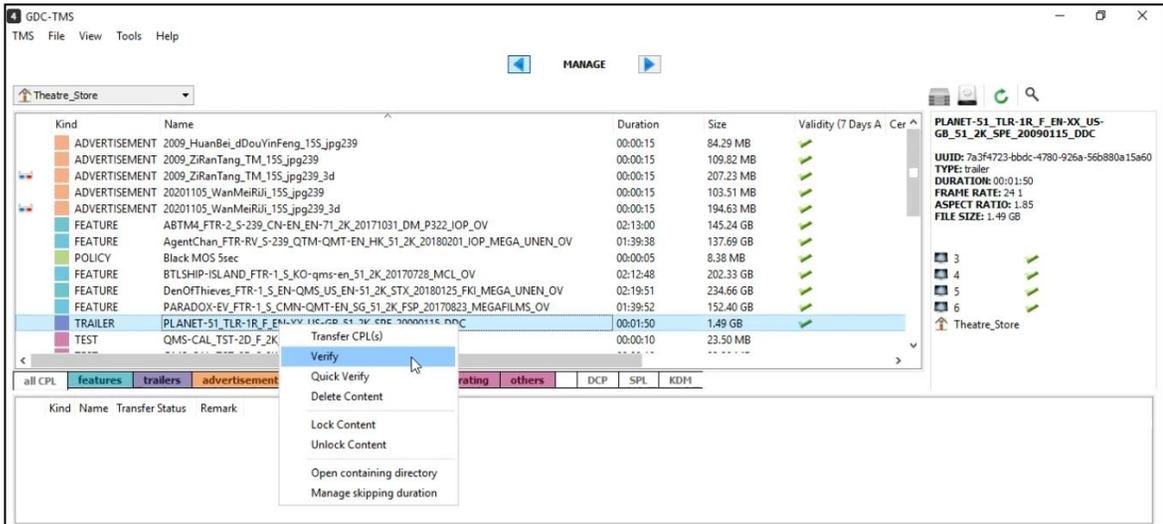


To view the transfer status, click the  button located at the right bottom corner of the user interface. Scheduled transfers will be queued in the list of its designated destination servers and the scheduled date and time of the transfer will also be displayed.

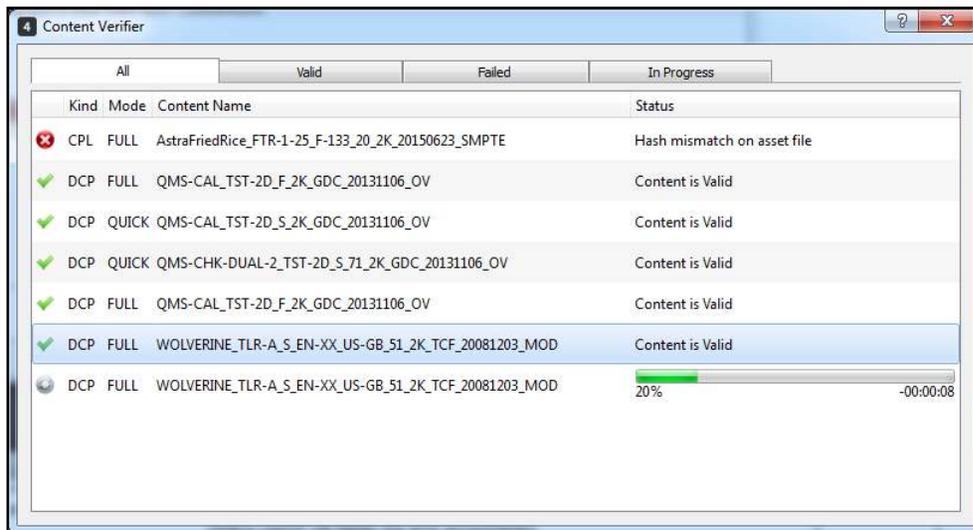


5.1.11. Content Verification

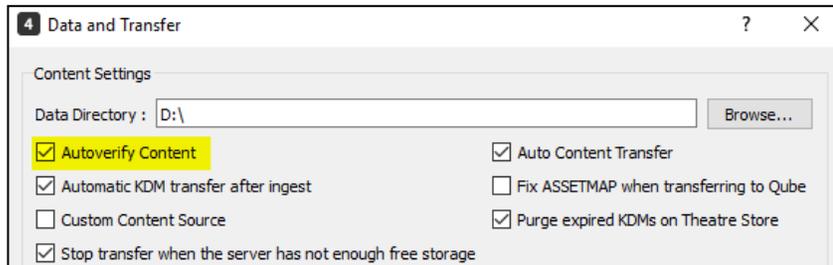
After complete ingestion of Contents into TMS data storage, Theatre_Store, user can do a Content Verification check to ensure that all the ingested files are not corrupted. Right-click the selected content, select **[Verify]** or **[Quick Verify]**. When user selects **[Quick Verify]**, it will only check that all required files are present. When **[Verify]** is selected, the data integrity of the files are also being checked.



When verification process is complete, a pop-up window will show the result.



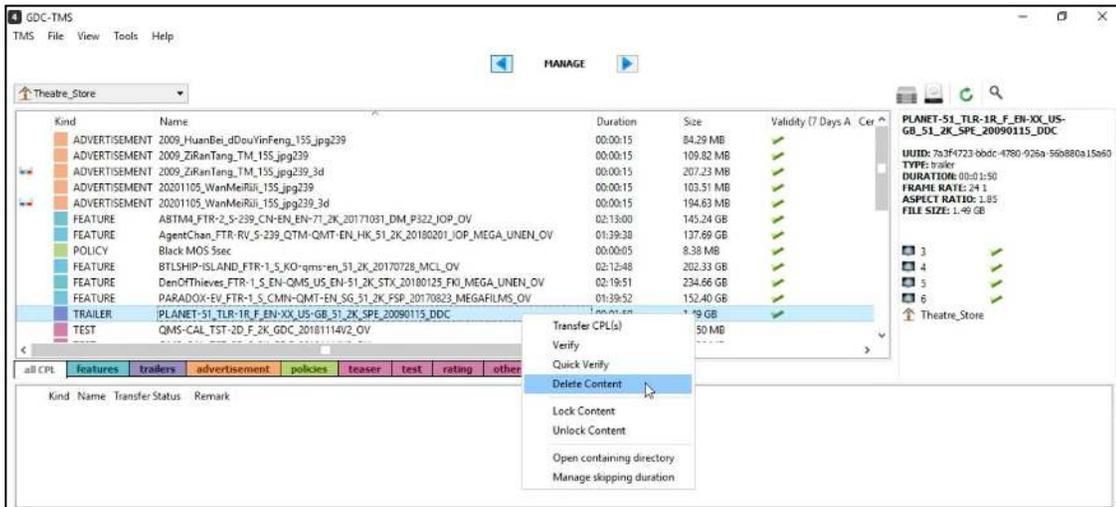
Automatic verification of contents after successful ingestion to TMS can be enabled in Preferences, click **[Tools]**, **[Preferences]**, **[Data and Transfer]**; tick **[Autoverify Content]** checkbox, then restart TMS for changes to be effective.



5.1.12. Delete CPLs, DCPs and KDMs

Contents and KDMs can be removed from both the TMS storage and from each individual screen.

To Delete CPLs/DCPs, right-click the item in the content list and choose **[Delete Content]**.



From the pop-up window, select the locations you would like to remove from the content and click **[OK]**.

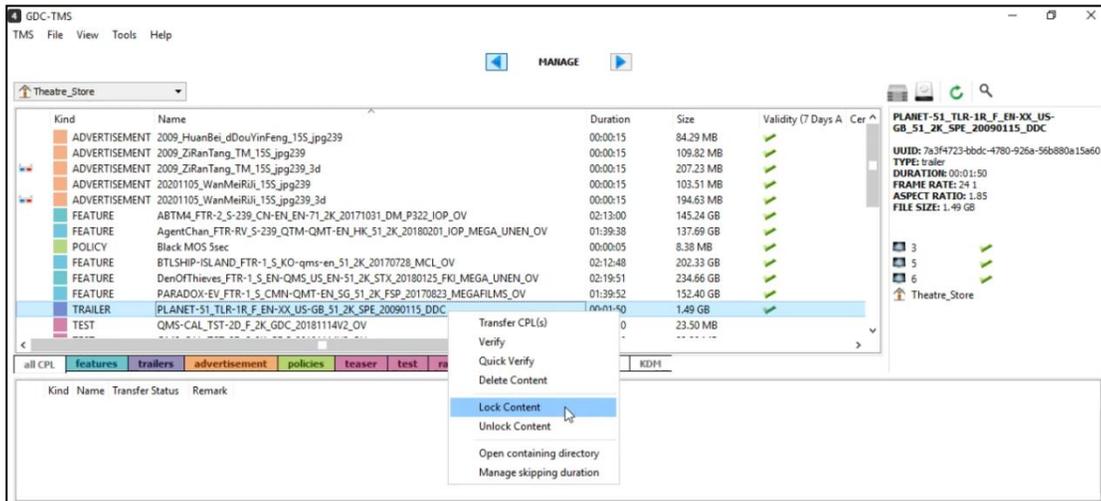


To Delete KDMs, click the KDM tab to view the list of KDMs available. Right-click the KDMs in the list and choose **[Delete...]**. The items will be removed from the selected screens.

5.1.13. Lock / Unlock Content

TMS also allows the user to lock content. The Lock Content feature allows the user to select certain CPLs which should not be considered for deletion, during the Auto-SPL housekeeping activity.

To lock a particular CPL, go to CPL tab to view the list of CPLs available. Right-click the CPL in the list and choose the **[Lock Content]**.



A pop-up window will be shown. Here, user can select the locations from which the selected CPL should not be purged, when housekeeping is carried out by the TMS.



Once done, click on the **[OK]** button. Notice that a lock icon  is now displayed against these cinema screens for the selected content, under the additional information section.

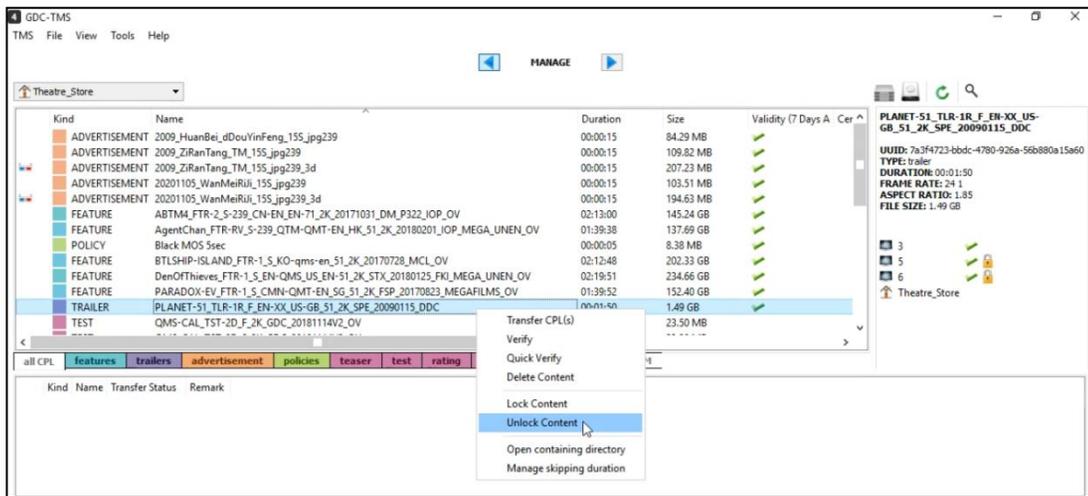


Additionally, user can also refer to the Lock status column to get an overview of locked content.

Kind	Name	Duration	Size	Lock Status	Validity (7 Days Al	Cen
TEST	13-GDC-TRAINING-ADMIN-PANEL-OVERVIEW_TST_F_EN-XX_20_2K_GDC_20120606_GDC_OV	00:02:50	789.36 MB			
TEST	10-GDC-TRAINING-INSTALLING-UPDATE-SCRIPTS_TST_F_EN-XX_20_2K_GDC_20120606_GD...	00:01:38	322.23 MB			
TEST	08-GDC-TRAINING-BUILDING-AN-AUTOMATION-EVENT_TST_F_EN-XX_20_2K_GDC_201206...	00:03:35	696.50 MB			
TEST	19-GDC-TRAINING-RECOVERY-CONSOLE_TST_F_EN-XX_20_2K_GDC_20120606_GDC_OV	00:01:51	259.22 MB			
TEST	18-GDC-TRAINING-NETWORK-CONFIGURATION_TST_F_EN-XX_20_2K_GDC_20120606_GDC...	00:01:54	463.17 MB			
TEST	14-GDC-TRAINING-IDENTIFYING-A-FAILED-RAID-DRIVE_TST_F_EN-XX_20_2K_GDC_2012060...	00:04:08	1.31 GB			

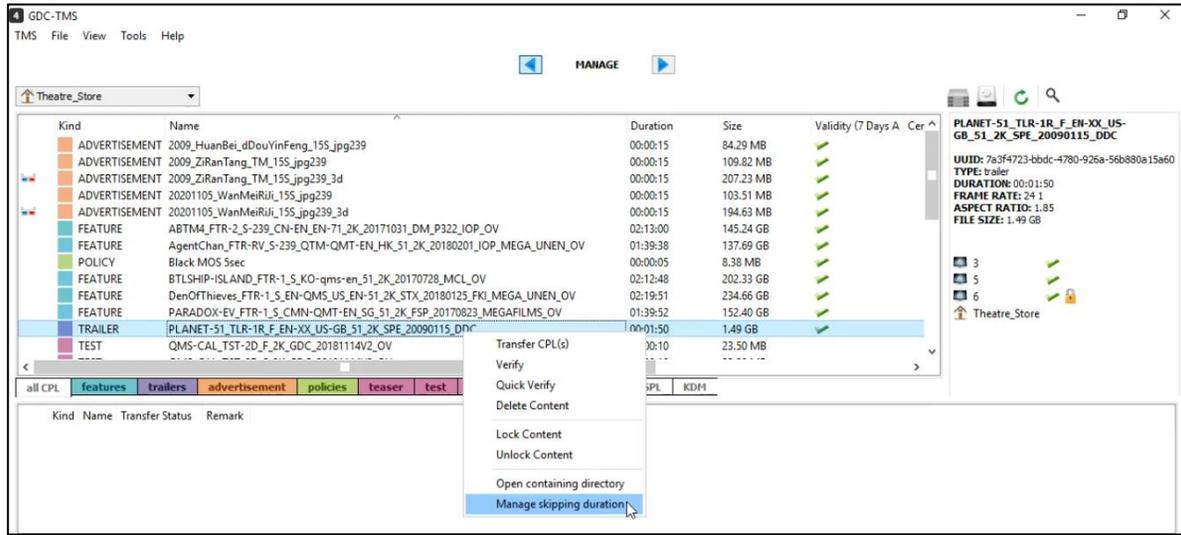
Similarly, user can unlock a particular locked CPL, by right-clicking on it and choosing the **[Unlock Content]** option.

5. CONTENT TAB

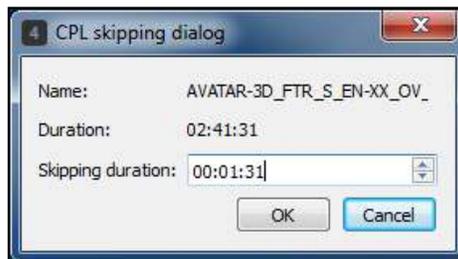


5.1.14. Manage CPL Skipping

Skipping duration from clip's start time can be configured on CPLs in the Content tab, this feature allows cinemas to skip unwanted parts of the featured CPL and directly play the actual movie of the CPL. To configure skipping duration, go to CPL tab to view the list of CPLs available. Right-click the CPLs in the list and choose **[Manage skipping duration]**.



CPL skipping dialog prompt is displayed, enter value in the Skipping duration field, then click **[OK]** button to configure the value of skipping of the CPL selected.



The scissors icon  will indicate that a CPL has a configured skipping duration time.

Kind	Name	Duration	Size	Validity	Remark
FEATURE	AVATAR-3D_FTR_S_EN-XX_OV_51_2K_TCF_20091201_MOD_I3D-ngb_OV	02:41:31	246.19 GB	2.39	7eff1a2d-a305-...

Note: CPL with skipping duration can only be used for servers that support this feature. The option to enable this feature is available at the time of adding a server in TMS. The CPL Skipping option will get enabled only if a particular server Type supports that feature.

The images below show two different server types, where one supports CPL Skipping and the other does not.

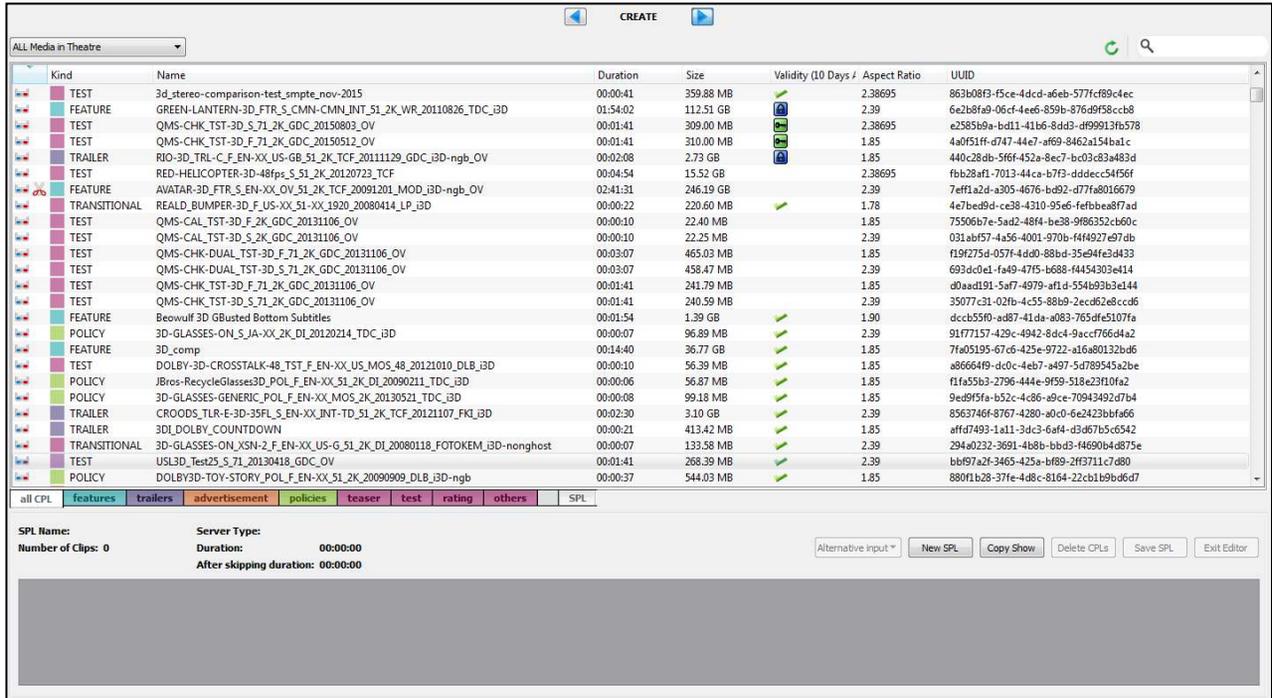
The screenshot shows a 'New Server' dialog box with the following fields and options:

- Name: [Text Input]
- IP: [Text Input]
- UID: [Text Input]
- Password: [Text Input]
- VNC Password: [Text Input]
- Use default VNC password
- Type: [Dropdown Menu] (SR-1000)
- Category: [Dropdown Menu] (gdc)
- Schedule Alignment:
- Is Slave Server:
- CPL Skipping: (highlighted in yellow)
- OK [Button]
- Cancel [Button]

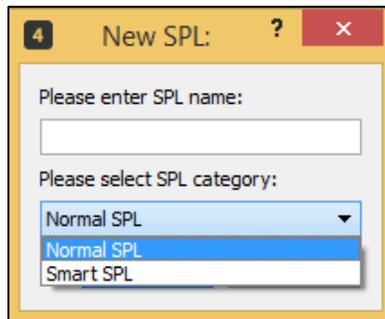
5.2. Show Playlist

5.2.1. Create Show Playlist

To create Show Playlist, click  and select on **CREATE** to enter this sub-tab as seen below.



Click **[New SPL]** in the menu button of the SPL Editor to create a show playlist (SPL).



Specify a name for the SPL.

Select the SPL category either 'Normal SPL' or 'Smart SPL'.

The main difference between a Normal SPL and a Smart SPL is, Smart SPLs allow users to add TMS Macros instead of adding macros from the playback servers while programming the SPL.

Before programming a Smart SPL, please ensure that the TMS Macros are mapped to the respective macros from the playback servers, as explained in section 8.24 ('Macro Mapping'). While transferring a Smart SPL to the target playback server, TMS will then convert the Smart SPL into a normal SPL (with the target server's macros).

Smart SPLs are displayed separately under the 'Smart SPL' tab of TMS's Content Manager, whereas all normal SPLs are displayed under the SPL tab.



New SPL information will be displayed in the SPL information area. Add a CPL into a SPL by selecting the CPL(s) from the list on the top by the "Drag & Drop" method in the UI. A CPL from any location can be added to the SPL. User can use the "Drag & Drop" buttons to adjust the order of content in the playlist. To remove a CPL from the list, highlight and click **[Delete CPLs]** button.

After the SPL is assembled, choose **[Save SPL]** and then **[Exit Editor]** from the menu button **[SPL Editor]**. The new SPL will appear in the sub-tab **SPL** in the media display area.



The duration column indicates the total duration of all the contents in the SPL and the KDM Status Column indicates that there are KDMs present in the contents in the SPL.

5.2.1.1. Create Show Playlist with Automation Cues

In the SPL Editor list, automation cues can be added to any CPL by right-clicking on the content and click **[Add Cues]**.

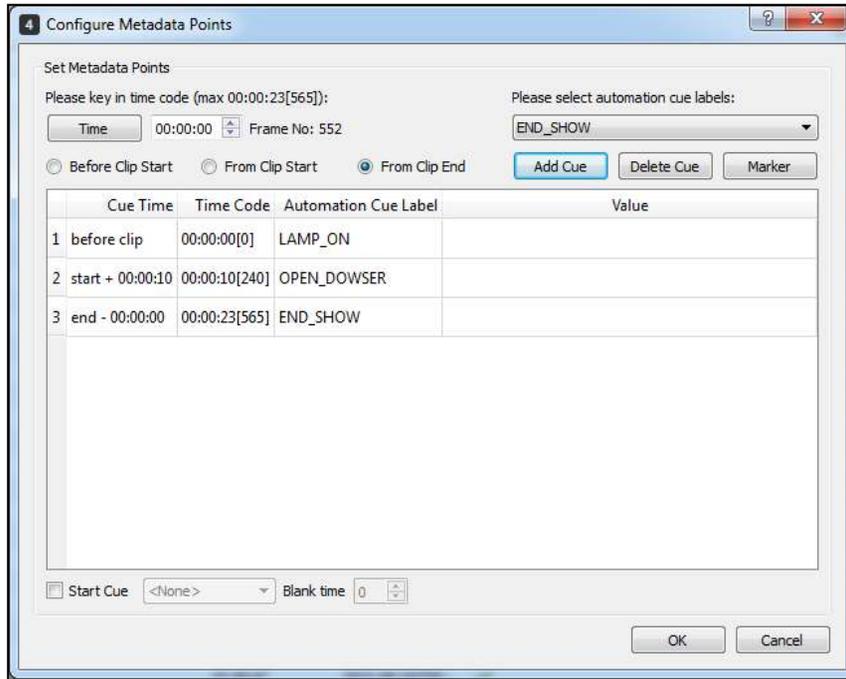


After clicking **[Add Cue]**, the **Retrieve MetaData** window will pop up for adding cue labels, select and click the checkbox for the available cue labels from any of the selected connected screens then click **[OK]**.

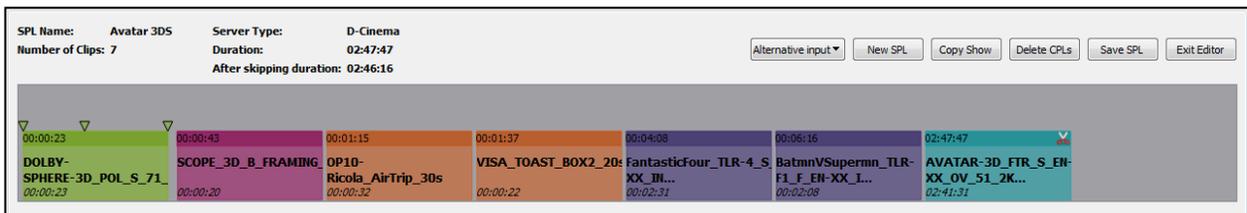


The **Configure Metadata Point** window will pop up. Cue labels are shown in the automation cue labels drop down menu. Add a cue label to a point in time based on the frame number or the time point value with the **[Add Cue]** button.

The **[Time]/[Frame]** button can be used for toggling between the time and frame entry modes. To remove cue label, select a cue in the list then click **[Delete Cue]** button.

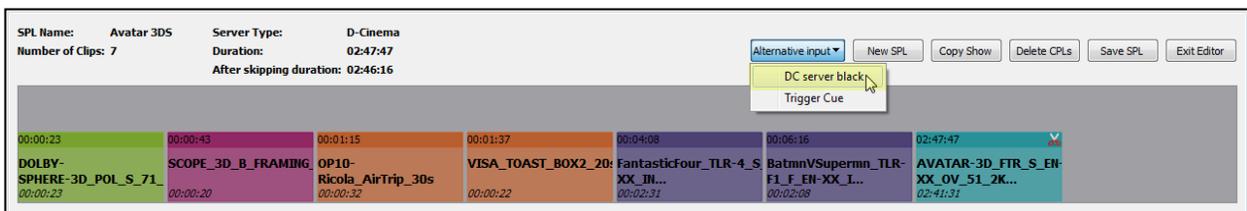


An arrow facing down will indicate that the content in the SPL editor list contains automation cues.

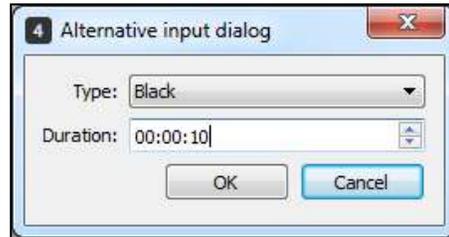


5.2.1.2. Create Show Playlist with 'Black'

To add DC server black content to a show playlist, click **[Alternative input]** in the menu button of the SPL Editor then select **[DC server black]**.



After selecting **[DC server black]**, the **Alternative input dialog** window will pop up.



Select a type of DC server black content in the Type drop down menu list. Types of DC server black content are as follows: Black, Black 3D, and Black 3D 48. Enter the duration of DC server black content then click **[OK]** to add DC server black content.



Note: Show playlists that contains DC server black content can be sent to 'DC Server' type of screens only.

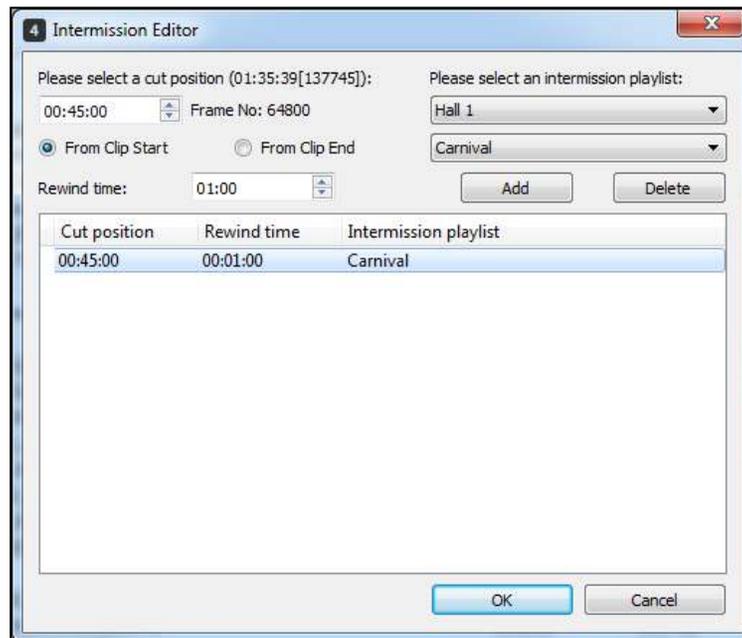
5.2.1.3. Create Show Playlist with Intermission

In the SPL editor list, intermission can be added to any CPL by right-clicking on the content then click **[Add Intermission]**.



The **Intermission Editor** window will pop up, this will allow user to select a screen in the first drop down menu. Screens that will be listed in the first drop down menu are DC server type of screens only. The second drop down menu will then list down the available intermission playlists from the selected screen in the first drop down menu.

Enter the cut position and the Rewind time of the intermission then click **[Add]** button. To remove intermission playlist, select an intermission in the list then click **[Delete]** button.



An diamond shape will indicate that the content in the SPL editor list contains intermission.



5.2.1.4. Create Show Playlist with Trigger Cues

There are two types of trigger cues that can be added in a show playlist:

1. Global trigger cue, this trigger cue will be available for all elements of the show playlist.
2. CPL embedded trigger cue, this trigger will only be available for the selected element of the show playlist.

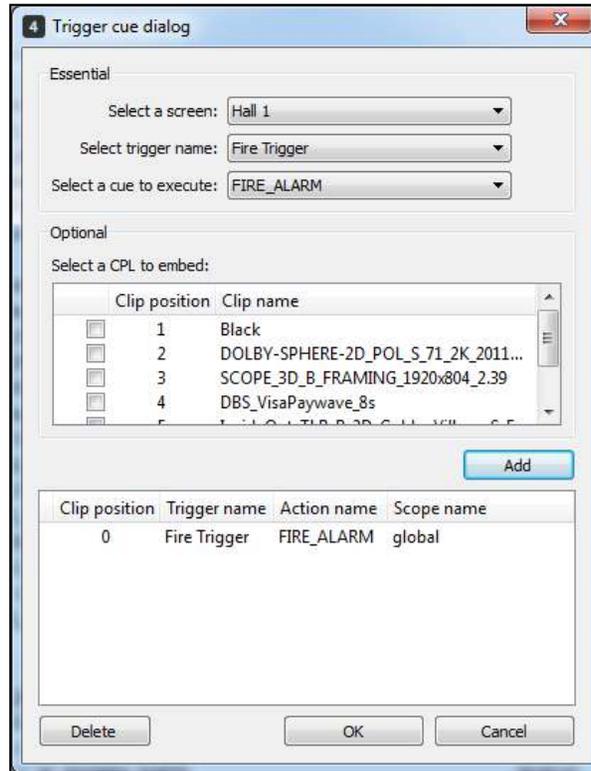
Note: Show playlists that contains trigger cues can be sent to 'DC Server' type of screens only.

5.2.1.4.1. Global Trigger Cue

To add global trigger cue to a show playlist, click **[Alternative input]** in the menu button of the SPL Editor then select **[Trigger Cue]**.



After selecting **[Trigger Cue]**, the **Trigger cue dialog** window will pop up. Select a screen in the screen drop down menu, screens that will be listed in this drop down menu are DC server type of screens only.



Select a trigger name and an automation cue in its corresponding drop down menus. Click **[Add]** button without ticking any checkbox in the CPL listed in the Optional section. Clip position of the trigger name will be '0' which means the trigger cue is set as a global trigger cue. To remove trigger cue, select trigger name in the list then click **[Delete]** button.



Details of the trigger cue will be displayed in the SPL information area of the SPL editor.

5.2.1.4.2. CPL Embedded Trigger Cue

There are two ways to add CPL embedded trigger cues in a show playlist:

First is in the SPL editor list, trigger cue can be added to any CPL by right-clicking on the content then clicking on **[Add Trigger Cue]**.



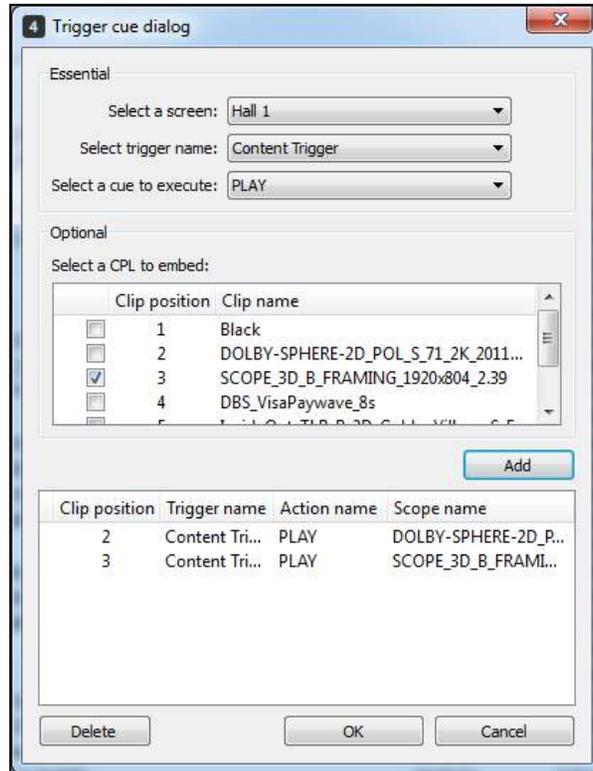
The **Trigger cue dialog** window will pop up. Select a screen in the screen drop down menu, screens that will be listed in this drop down menu are DC server type of screens only. Select a trigger name and an automation cue in its corresponding drop down menu then click **[OK]** button.



Another alternative to add CPL embedded trigger cue is by clicking on **[Alternative input]** in the menu button of the SPL Editor then select **[Trigger Cue]**.



After selecting on **[Trigger Cue]**, the **Trigger cue dialog** window will pop up. Select a screen in the screen drop down menu, screens that will be listed in this drop down menu are DC server type of screens only.



Select a trigger name and an automation cue in its corresponding drop down menus. In the Optional section, tick the checkbox of the Clip name where you want to embed the trigger cue then click **[Add]** button. To remove trigger cue, select trigger name in the list then click **[Delete]** button.



An square shape above the upper left part of the CPL will indicate that the content in the SPL editor list contains trigger cues.

5.2.2. Merge Show Playlist

To merge Show Playlist, drag another SPL into the SPL editor column to merge both SPL contents together.

Name	Duration	Issue Date	Validity (10 Days Alert)
Merge SPL	02:01:32	2016-03-21T14:...	🔒
Need For Speed	01:57:09	2014-05-27T12:...	✅
Wolverine	01:56:47	2016-03-21T14:...	✅
LORAX	01:55:46	2015-10-23T19:...	✅
(3D) Puss In Boots	01:55:34	2015-07-14T17:...	🔒
The Adventures of TINTIN	01:54:35	2015-08-11T18:...	✅
RemovePlaylist	01:54:02	2016-03-18T17:...	✅
Trailers	01:51:24	2015-08-04T20:...	✅
The Twilight Saga	01:51:24	2015-08-11T19:...	✅
Big Hero 6	01:19:29	2014-11-26T11:...	✅
Happy Feet 2	00:55:42	2015-08-05T14:...	✅
Head To Tail Show	00:52:30	2016-02-18T18:...	🔒
Frozen	00:50:25	2015-08-04T18:...	🔒
Carnival	00:50:07	2015-12-01T17:...	🔒
Overlapping Show	00:48:00	2016-02-18T18:...	🔒
Black Show	00:46:23	2016-03-24T09:...	🔒
The Wolves	00:45:27	2016-03-24T08:...	🔒
PRIEST-3D	00:44:20	2016-03-24T08:...	🔒

all CPL | features | trailers | advertisement | policies | teaser | test | rating | others | SPL

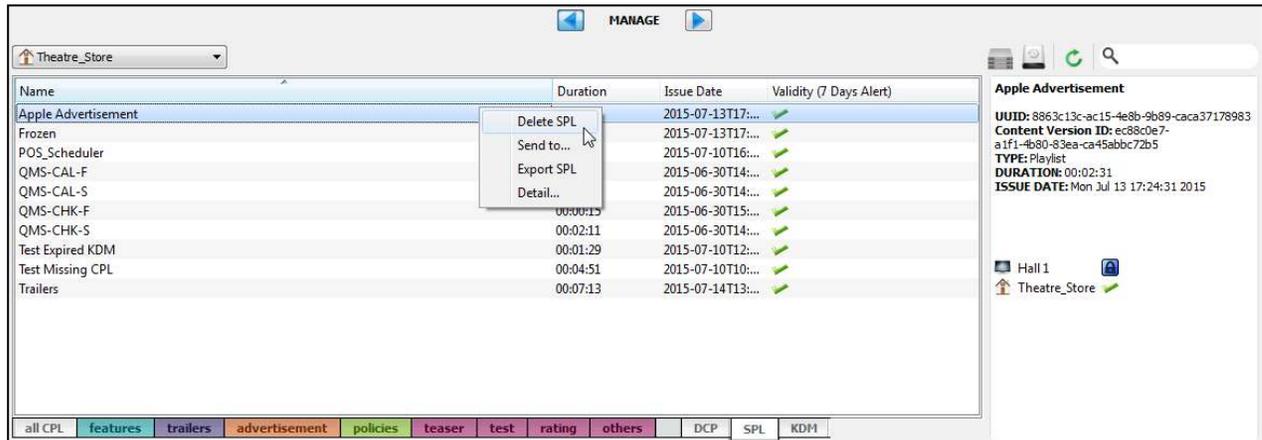
SPL Name: Avatar 3DS Server Type: D-Cinema
 Number of Clips: 10 Duration: 02:51:48
 After skipping duration: 02:50:17

Alternative input | New SPL | Copy Show | Delete CPLs | Save SPL | Exit Editor

00:02:00	00:03:51	00:04:01	00:04:24	00:04:44	00:05:16	00:05:38	00:08:09	00:08:09
SURFS UP	CARNIVAL_TLR-D-3D_F_EN-XX_OV_S...	Black	DOLBY-SPHERE-3D_POL_S_71_	SCOPE_3D_B_FRAMING	OP10-Ricola_AirTrip_30s	VISA_TOAST_BOX2_20:	FantasticFour_TLR-4_S...	Bat F1...
00:02:00	00:01:51	00:00:10	00:00:23	00:00:20	00:00:32	00:00:22	00:02:31	00:02:31

5.2.3. Delete Show Playlist

To delete SPLs, choose **[MANAGE]** in Content Tab, select SPL name in SPL Tab, right-click and select **[Delete SPL]**.



From the pop-up window, select the locations you would like to remove from the playlist and click **[OK]**.



5.2.4. Rename SPL

The Rename SPL option allows the user to change the SPL name for the SPL loaded in the editor.

To rename an existing SPL, select the SPL from the list of SPLs. Click on the "Rename SPL" button to give that SPL a new name.

Name	Duration	Issue Date	Validity (7 Days Alert)
CONTENTS_01	01:48:20	2021-02-04T10:...	✓
CONTENTS_02	01:25:38	2021-02-04T10:...	✓
CONTENTS_03	01:39:47	2021-02-04T11:...	✓
CONTENTS_04	01:47:03	2021-02-04T10:...	✓
FTR_test	02:17:14	2021-07-15T08:...	🔒
QMS-CHK-F	00:01:42	2021-07-07T21:...	✓
QMS-CHK-S	00:01:41	2021-06-26T10:...	✓
Screen1-TestPlaylist	00:47:50	2021-07-28T16:...	✓
SMT_pack	00:00:50	2021-07-02T10:...	✓
SPL_CMS	00:02:19	2021-01-14T00:...	✓
test	00:03:56	2021-07-20T12:...	✓
Test DCP	00:01:50	2021-05-27T00:...	✓
TMS 30062021	00:03:41	2021-06-30T03:...	✓
Y-Ad_0129-0204_ALL_AI	00:03:20	2021-01-26T05:...	✓

all CPL | features | trailers | advertisement | policies | teaser | test | rating | others | SPL

SPL Name: **GDC Training** Duration: **00:09:15** Alternative Input ▾ New SPL Rename SPL Copy Show Delete CPLs Save SPL Exit Editor

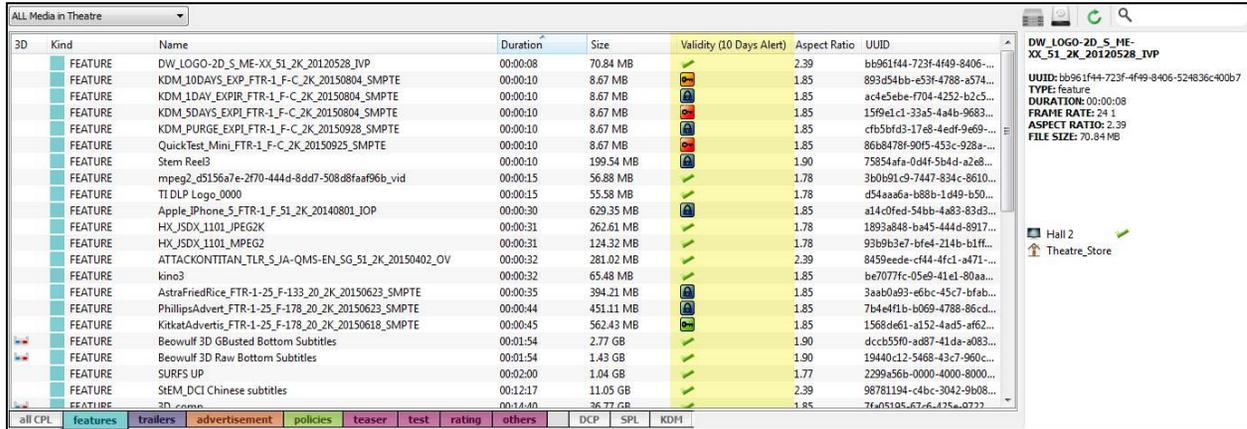
Number of Clips: **7** After skipping duration: **00:09:15**

00:01:46	00:02:16	00:02:17	00:06:25	00:06:26	00:07:37	00:09:15
03-GDC-TRAINING-SMS-OVERVIEW_T...	GDC-2D_TLR_EN-XX_2K_51_YU_2011...	Black MOS 1sec	14-GDC-TRAINING-IDENTIFYING-A...	Black MOS 1sec	11-GDC-TRAINING-CHANGING-AUDIT...	10-GDC-INSTALL
00:01:46	00:00:30	00:00:01	00:04:08	00:00:01	00:01:11	00:01:38

5.3. Content's KDM Validity

5.3.1. KDM Validity Status in CPL and SPL tabs

The KDM Validity status is displayed in the Validity column in all [CPL] sub-tabs and [SPL] sub-tab of **Content** tab.



The table below shows the different validity status for KDMs:

KDM Icon	KDM Validity Status
	<p>This icon indicates that the content does not need a key for playing.</p> <p>When the mouse cursor is on top of the KDM icon, it will display <i>The CPL does not need a key for playing.</i></p>
	<p>This icon indicates that the content need a key for playing and the key needed is available in its corresponding server. The KDM's validity date starts on current date onwards regardless of the time.</p> <p>When the mouse cursor is on top of the KDM icon, it will display <i>The CPL can be played normally.</i></p>
	<p>This icon indicates the following scenarios:</p> <ol style="list-style-type: none"> The content require KDM but it is not available in the server. The content requires KDM, the key needed is available in its corresponding server but it has expired. The content requires KDM, the key needed is available in its corresponding server but its validity is in future date. <p>When the mouse cursor is on top of the KDM icon, it will display <i>The CPL needs a key for playing.</i></p>

	<p>This icon indicates that the KDM of the content is about to expire and its validity date falls on the alert day that is set in the Preference's Alert Days configuration. Please refer on the Alert Days settings below. In the example, alert day is set to 10 days, this means that 10 days before the expiry date of the KDM, the icon of the KDM status will be changed to .</p> <p>When the mouse cursor is on top of the KDM icon, it will display <i>The key of the SPL expires in 10 days.</i></p>
	<p>This icon will be displayed if the content is about to expire and its validity date falls on the critical alert day that is set in the Preference's Alert Days configuration. Please refer on the Alert Days settings below. In the example, critical alert day is set to 5 days, this means that 5 days before the expiry date of the KDM, the icon of the KDM status will be changed to .</p> <p>When the mouse cursor is on top of the KDM icon, it will display <i>The key of the SPL expires in 5 days.</i></p>

In a scenario where there is a content having more than one KDM and these KDMs are having overlapping expiry dates, the KDM with later expiry date will be recognized by the system as the valid status.

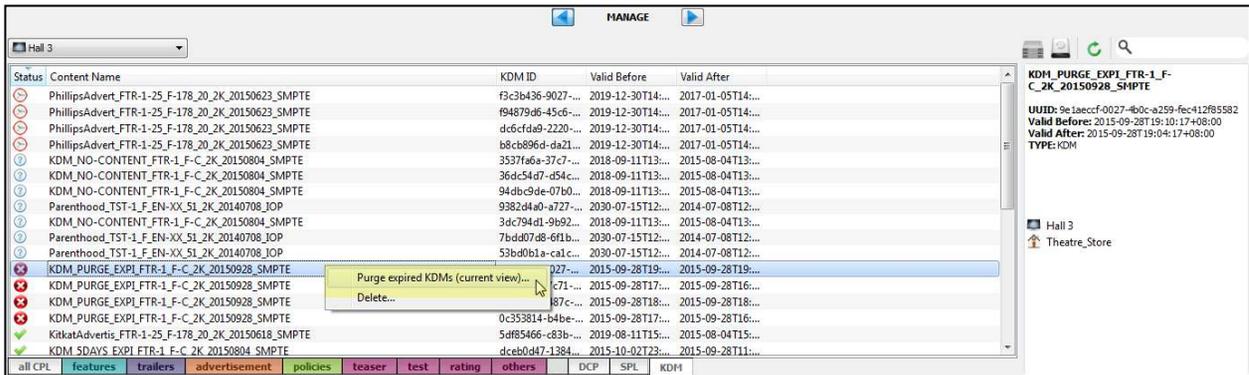
While in a case where there are two KDMs for a content, one of the KDM is about to expire and the other KDM has a future date, the system will recognize the KDM that is about to expire and will only change its validity status once the other KDM's future date validity is activated.

Alert Days and Critical Alert Days for expiring KDMs can be configured in Preferences, click **[Tools]**, **[Preferences]**, **[Alert Days]**; enter values for the fields then click **[OK]** button.

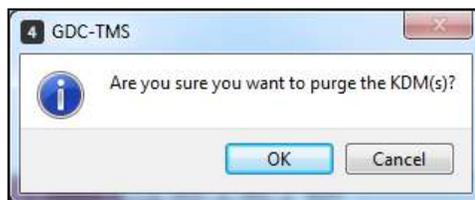


5.3.2. Purge Expired KDM

KDMs that are more than one day expired can be removed from the server through Purge Expired KDMs function. To Purge expired KDMs, go to KDM tab to view the list of KDMs available. Right click any of the content in the list and choose **[Purge expired KDMs (current view)...]**.



A window will pop up as seen below, click **[OK]** to proceed with the deletion of expired KDMs in the current view.

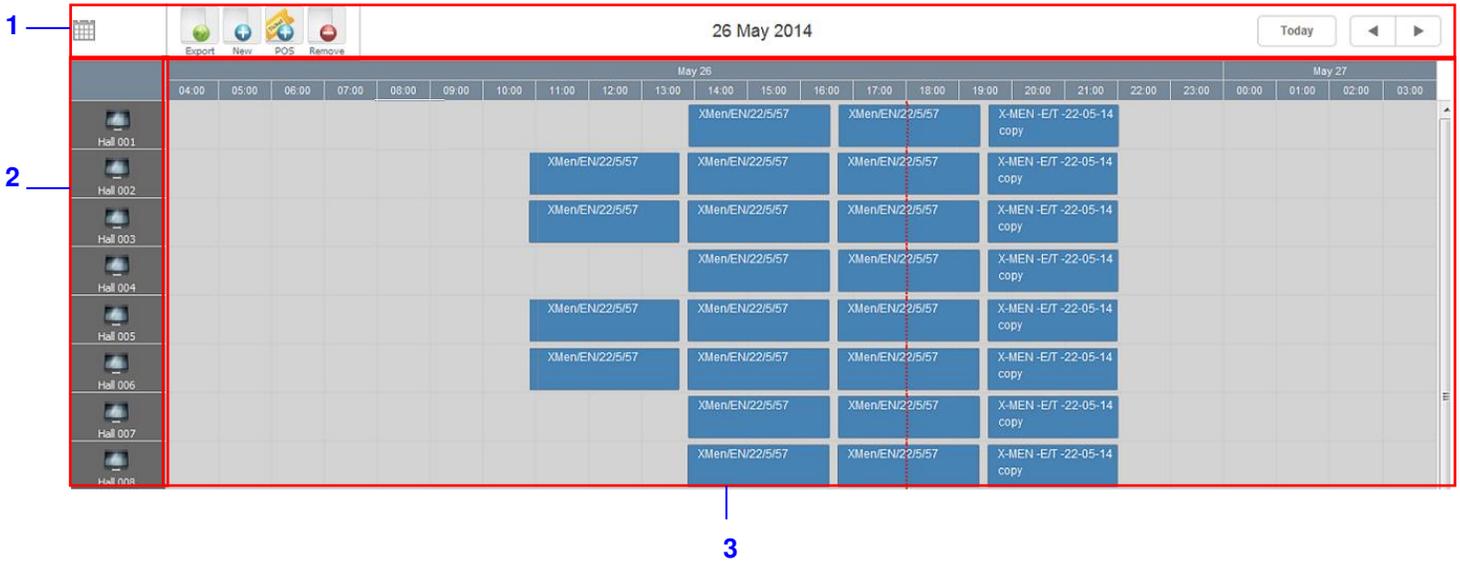


In the example above, all KDMs that are more than one day expired will be removed from Hall 3 server only.

Expired KDMs purged from servers will still be available in Theatre_Store. User need to select Theatre_Store in the Media List drop down menu then do purge expired KDMs to remove from the TMS Theatre_Store.

6. SCHEDULER TAB

By clicking the **SCHEDULER** tab, the interface will be shown as below.



The Scheduler tab window consists of three parts:

- 1) Schedules Setup: Users can setup schedules or view schedules.
- 2) All Screens: At the left side, it shows all the screens connected to TMS.
- 3) Show Schedule: On the right side, all scheduled shows are shown. A timeline which is red in color will keep moving according to current time.

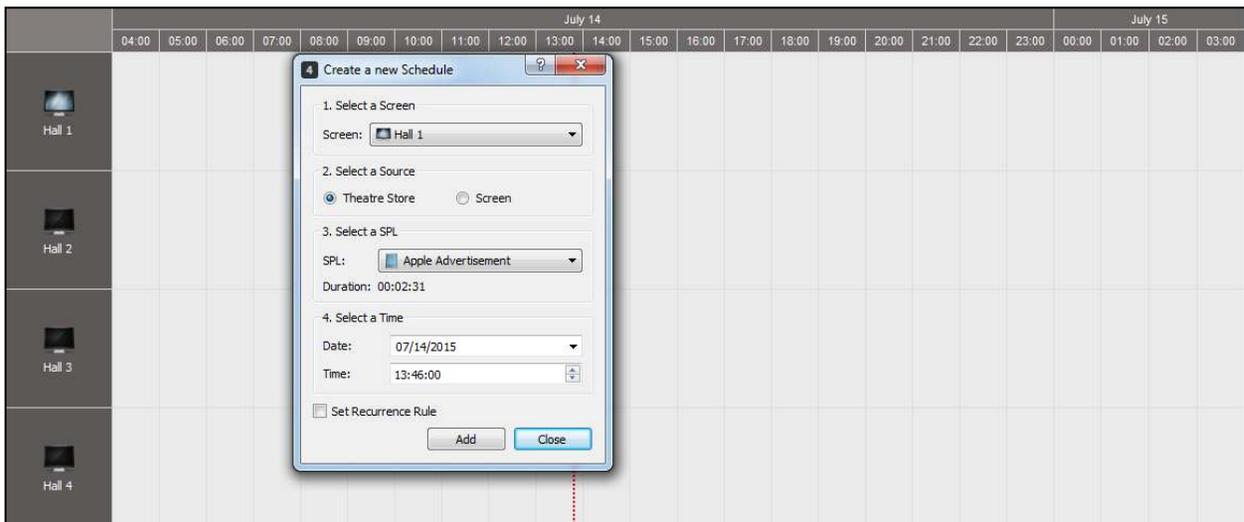
6.1. Show Scheduling

User can create new playback schedules by clicking **[New]** or **[POS]** button. For schedule deletion, user can use the **[Remove]** button. After creating schedules, user can choose to export the schedules into a html format file for reference.



6.1.1. Ad Hoc Scheduling

To create a new schedule, click **[New]** button. A window with options to select a show playlist and playback time will pop up. User can select the Screen, Source of the SPL, SPL name, Date and Time of show and click **[Add]**. A new schedule will be shown on the exact date and time created.



The show will be added to the calendar shown. The schedule information will be sent to the screen immediately if the screen is currently connected to the TMS or else it will encounter an exception in the Transfer Display window. If the schedules added are currently in queue in the Transfer Display window, it will be presented in dotted frame. The server will start the show automatically once the time is reached without requiring a projectionist to manually press play **[▶]** to start playback.

Note: The scheduler will not permit a schedule to be created with start-time in the past, based on the current system time.

To replicate the same show schedule on other days, select **[Set Recurrence Rule]**. A window will be popped up with more options.

1. Select a Screen
Screen: Hall 1

2. Select a Source
 Theatre Store Screen

3. Select a SPL
SPL: (3D) Puss In Boots
Duration: 01:26:14

4. Select a Time
Date: 01/19/2017
Time: 18:00:00

Set Recurrence Rule

Recurrence Rules:

Repeat once on 02/20/2017

Repeat on the next 1 consecutive Monday

Repeat on the next 1 consecutive day(s)

Schedule Recurrence Dates:
Monday, February 20, 2017

Add Close

Selecting the Required Recurrence option: repeat once on a selected day, repeat on the same week day in the next (up to 4) consecutive weeks, or repeat on next several consecutive days (up to two weeks). Only one option can be selected. Upon selection, all effective recurring dates will be listed in the Schedule recurrence dates column at the bottom.

Set Recurrence Rule

Recurrence Rules:

Repeat once on

Repeat on the next consecutive

Repeat on the next consecutive day(s)

Schedule Recurrence Dates:

Thursday, March 03, 2016

Friday, March 04, 2016

Saturday, March 05, 2016

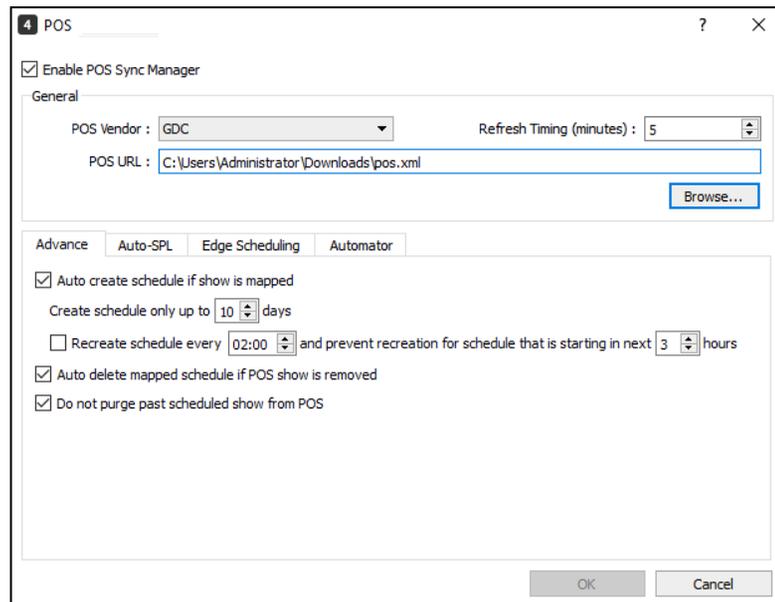
Sunday, March 06, 2016

Monday, March 07, 2016

Note: New schedules can be created for a disconnected screen and the non-synchronized schedule will be updated the next time the screen is connected to the TMS. Scheduled shows can be cancelled on the TMS from disconnected screens only when they have not yet been synchronized. Otherwise, TMS must be connected to a screen in order to cancel a schedule.

6.1.2. POS Scheduling

Schedules can be added to servers to match the show time in POS data files exported from ticketing systems. To achieve this, tick **[Enable POS Sync Manager]** checkbox and set **[POS URL]** in the Preference Menu. Once the POS is setup properly, the TMS will continue to periodically update the latest POS data file and make rescheduling changes as they occur in the POS. For more details, refer to the **Section 8.5.** that covers the POS data setup.



The screenshot shows a dialog box titled "POS" with a close button (X) and a help button (?). The dialog is divided into two main sections: "General" and "Advance".

General Section:

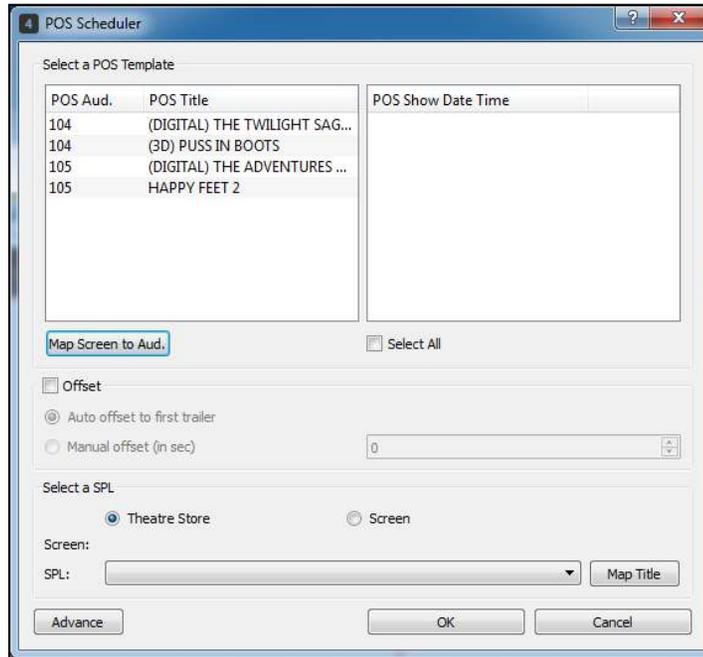
- Enable POS Sync Manager
- POS Vendor: GDC (dropdown menu)
- Refresh Timing (minutes): 5 (spin box)
- POS URL: C:\Users\Administrator\Downloads\pos.xml (text field with a "Browse..." button)

Advance Section:

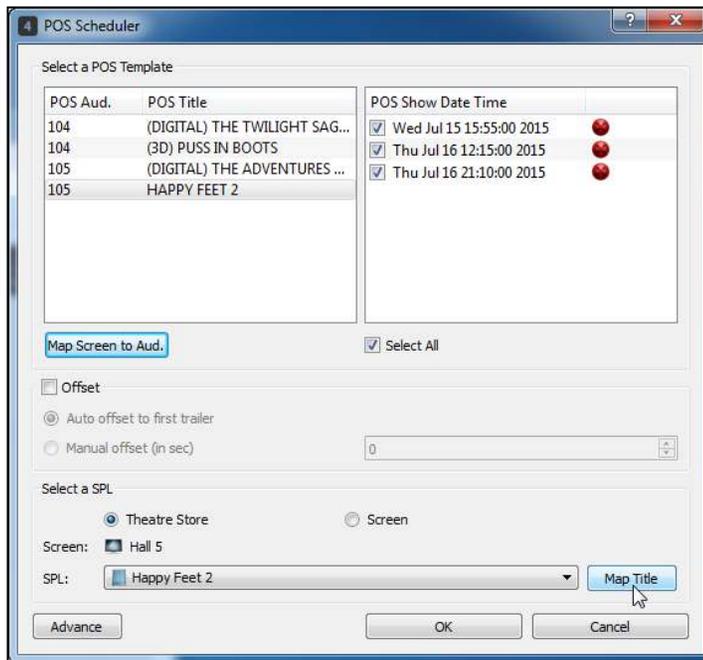
- Auto create schedule if show is mapped
- Create schedule only up to 10 (spin box) days
- Recreate schedule every 02:00 (spin box) and prevent recreation for schedule that is starting in next 3 (spin box) hours
- Auto delete mapped schedule if POS show is removed
- Do not purge past scheduled show from POS

At the bottom of the dialog are "OK" and "Cancel" buttons.

At SCHEDULER tab, click **[POS]** button, the POS Scheduler UI will pop up for POS schedule setup.



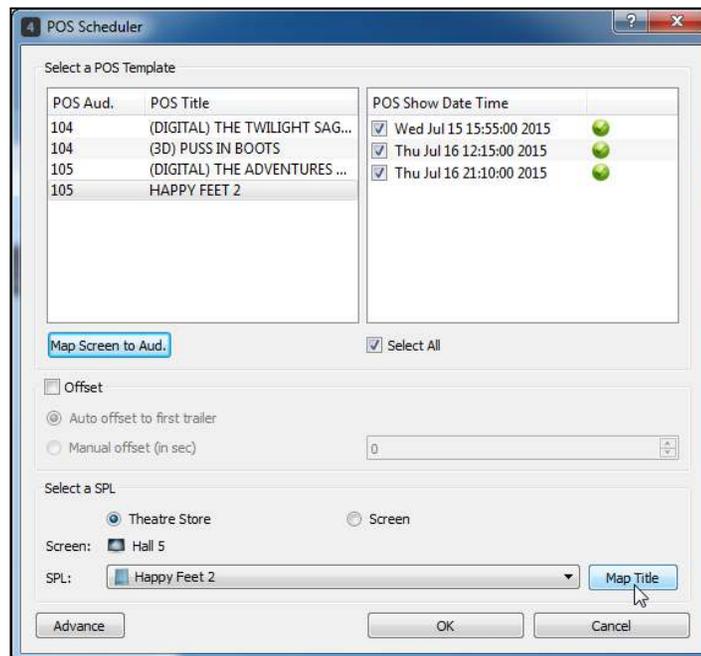
The POS data will provide movie titles, auditorium numbers and show times. Since the POS is a separate system from the TMS, map the auditorium number in POS to the appropriate screen on the TMS by clicking the **[Map Screen to Aud.]** button as seen below.



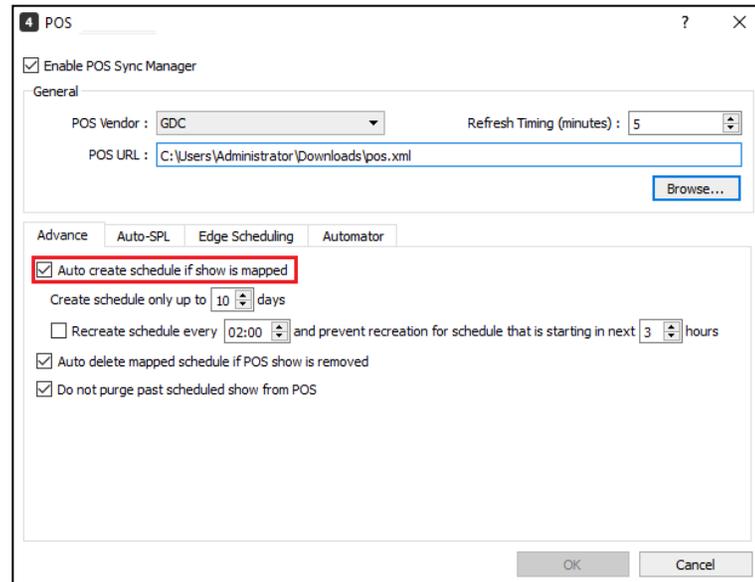
In the right hand column, select the numbers from the dropdown list in order to change the auditorium number for each screen. The mapping must be one-to-one.



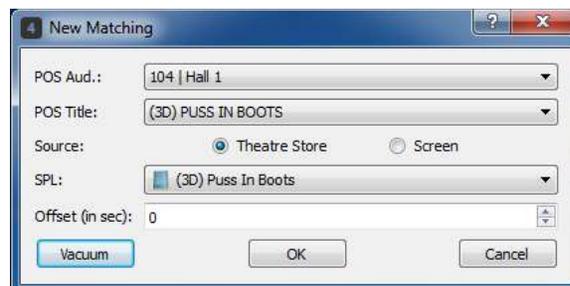
After both screen and auditorium are mapped to one another, choose the POS movie title in the left window in order to see the POS showtimes associated with that auditorium in the right window. Then the selected movie can be mapped to an SPL available on the appropriate screen by choosing the SPL from the pulldown list. By manually clicking the **[Map Title]** button, the selected SPL will be mapped to the server according to the schedules. Before mapping, the POS show icon is red while icon of mapped show is green 🟢. Once user removed the schedule, its corresponding POS show icon will turn back to red 🔴.



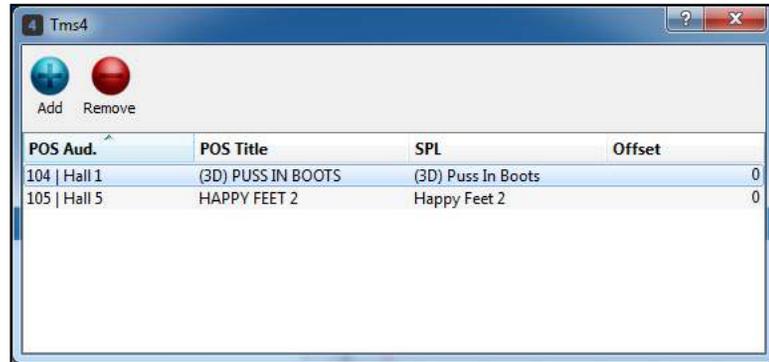
Auto-creation of scheduled shows in POS is supported by TMS can be enabled in Preferences, click **[Tools]**, **[Preferences]**, **[POS]**; tick **[Auto create schedule if show is mapped]** checkbox in the Advance section, then restart TMS for changes to be effective. Scheduled shows in POS should be mapped to TMS SPLs in order for TMS to auto create scheduled shows.



To map SPLs to the POS data which will then map to server automatically, click **[Advance]** button, select POS Aud, POS Title, Source of SPL, and SPL. TMS supports to offset to the first trailer or offset with given seconds of time. This offset setting allows user to adjust showing time for real show playlist. For example, if the selected SPL has multiple items inside and before first trailer there are several advertisement clips to play, the duration could be 10 minutes, then if POS show time is 20:10 and once user chose **[Auto offset to first trailer]**, the real showing time is 20:00. System will start to playback first trailer from 20:10, Offset time value will allow the show to start earlier or later than POS show time by assigned number of seconds. For example, if user chooses minus 900 seconds, that means the show will start 15 minutes earlier than its time in POS system.

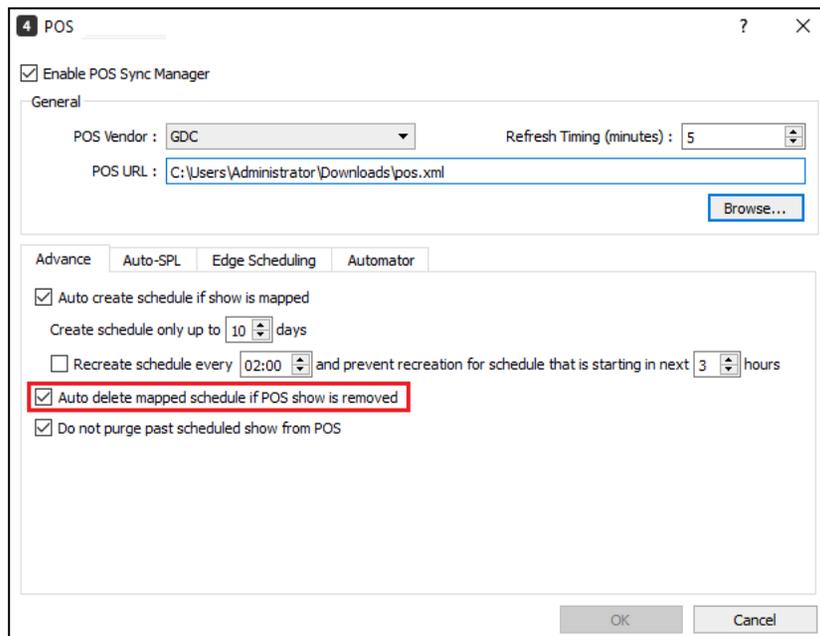


After mapped, the entries will be similar as shown below. Click **[X]** to close this window.



POS Aud.	POS Title	SPL	Offset
104 Hall 1	(3D) PUSS IN BOOTS	(3D) Puss In Boots	0
105 Hall 5	HAPPY FEET 2	Happy Feet 2	0

In case the show has been removed from POS, TMS can automatically delete related schedules if **[Auto delete mapped schedule if POS show is removed]** function is enabled in POS setting. Auto deletion of mapped scheduled shows from POS can be enabled in Preferences, click **[Tools], [Preferences], [POS]**; tick **[Auto delete mapped schedule if POS show is removed]** checkbox in the Advance section, then restart TMS for changes to be effective.



4 POS

Enable POS Sync Manager

General

POS Vendor : GDC Refresh Timing (minutes) : 5

POS URL : C:\Users\Administrator\Downloads\pos.xml Browse...

Advance Auto-SPL Edge Scheduling Automator

Auto create schedule if show is mapped

Create schedule only up to 10 days

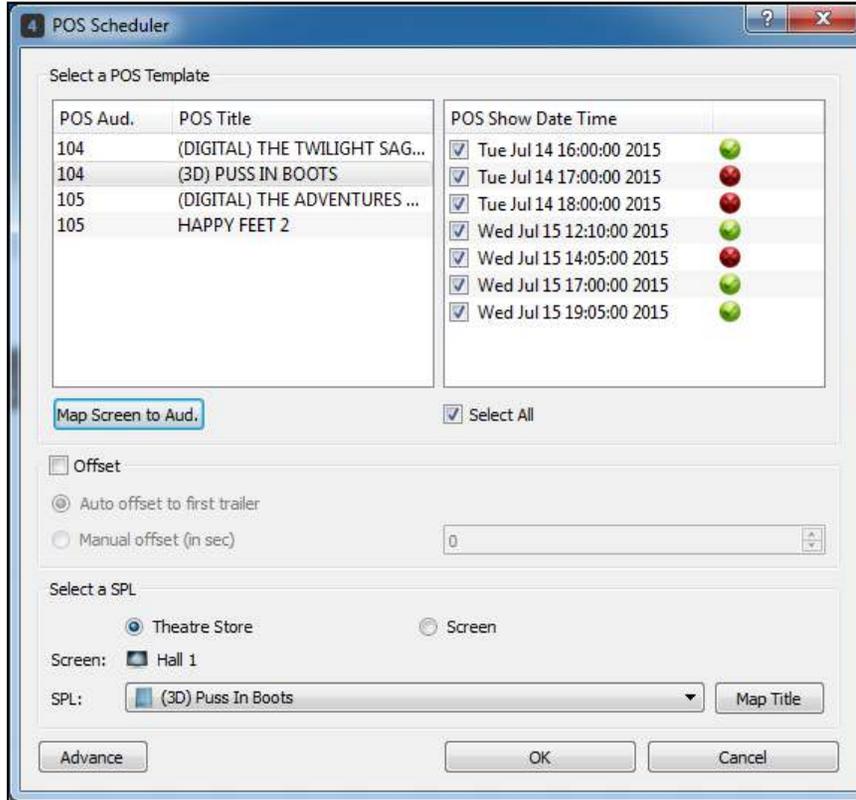
Recreate schedule every 02:00 and prevent recreation for schedule that is starting in next 3 hours

Auto delete mapped schedule if POS show is removed

Do not purge past scheduled show from POS

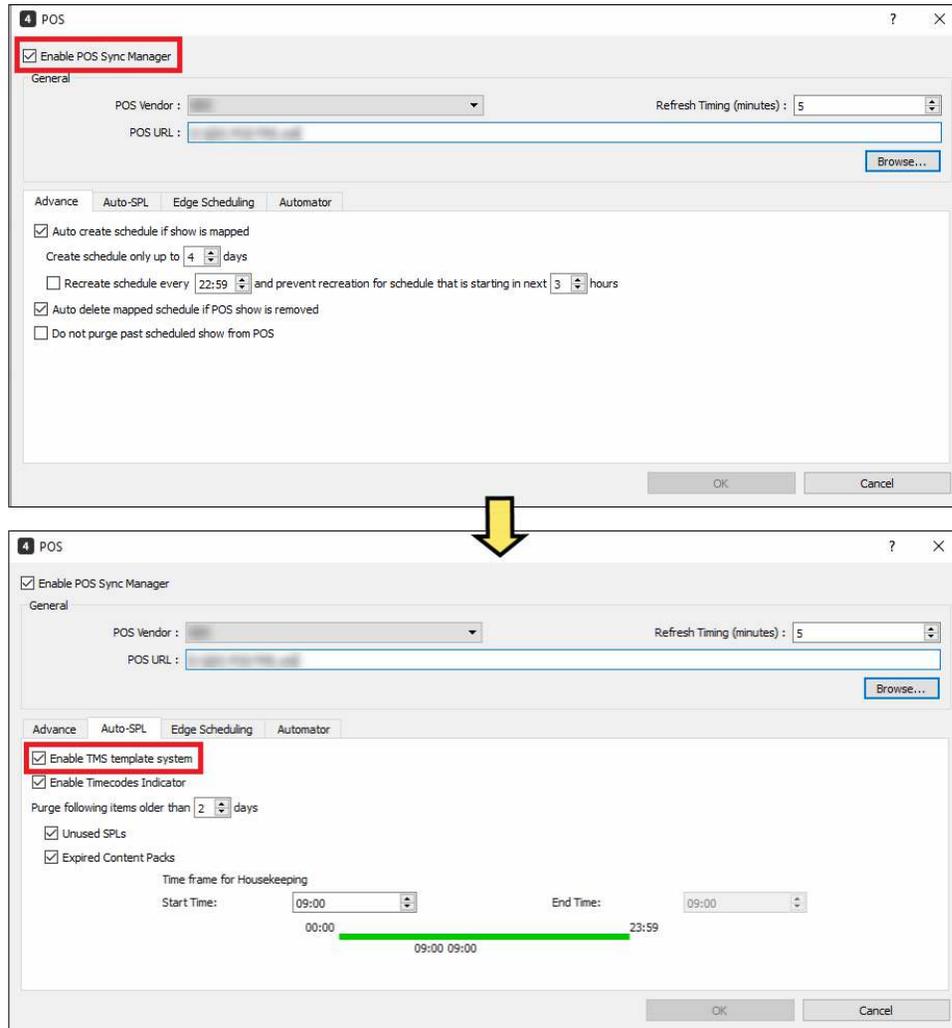
OK Cancel

Schedule creation may fail due to schedule conflicting with the existing one, user has to delete the old one manually and make mapping again.



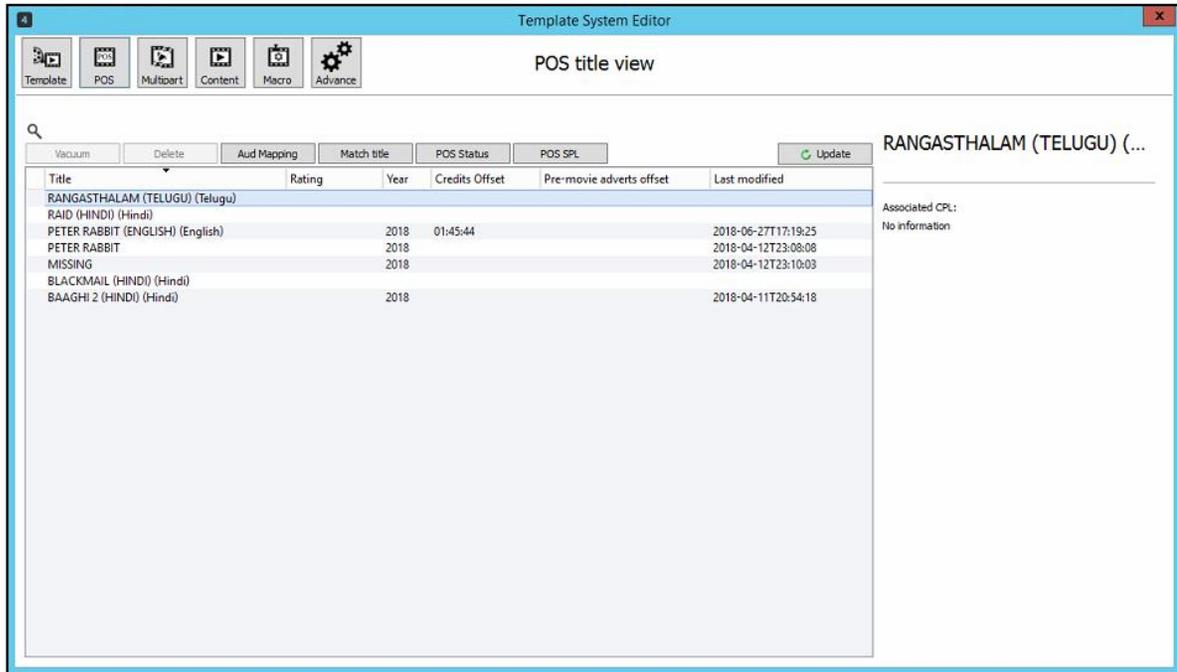
6.1.3. POS Scheduling with TMS Template System

POS scheduling with TMS Template System can speed up the scheduling process and reduce human intervention so to reduce human error. TMS Template System can be enabled in Preferences, click **[Tools]**, **[Preferences]**, **[POS]**; tick **[Enable TMS template system]** checkbox in the *Advance*>>*Auto-SPL* section, then restart TMS for changes to take effect.

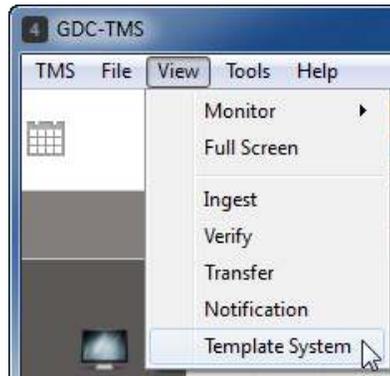


Once the template system is enabled, when users click **[POS]** in Scheduler tab, the TMS Template System graphical user interface (GUI) will pop up. The default tab is POS title view (as shown below). This GUI consists of a series of tabs and subtabs that allow access to the various functions of the TMS Template System.

6. SCHEDULER TAB



Alternatively, user can click the menu **[View]**, **[Template System]** and the TMS Template System graphical user interface (GUI) will pop up. Template view is the default tab that will display when TMS template system is accessed this way.



6.1.3.1. Template Editor Tab



By clicking the **[Template Editor]** icon, the Template view interface will be loaded as below. TMS Template System provides three built-in templates, which are General template , Intermission template, and SVM template respectively.

User should be able to **[Add]**, **[Remove]**, **[Edit]**, **[Manage]**, and **[Export]** templates available in the Template view. The following are the functionality of the buttons available in the Template view:

- **[Add]** button allows users to create user-defined templates.
- **[Remove]** button allows user to delete the user-defined template that is selected in the list.
- **[Edit]** button allows user to modify the template name only for user-defined templates that is selected in the list.
- **[Manage]** button allows user to configure the placeholders that will be used for the selected template. Both TMS built-in templates and user-defined templates can be configured by the user.
- **[Export]** button allows user to export the Templates in .xml format.

Note: Built-in templates of TMS cannot be removed and edited by the user.

Name	Creation date	Last modified	Active after	Active before
General Template (default)	2015-02-25T06:30:00	2015-02-25T06:30:00	2021-08-07T00:00	-
Intermission template (default)	2015-02-25T06:30:00	2015-02-25T06:30:00	-	-
SVM Template	2017-05-01T06:30:00	2017-05-01T06:30:00	-	-

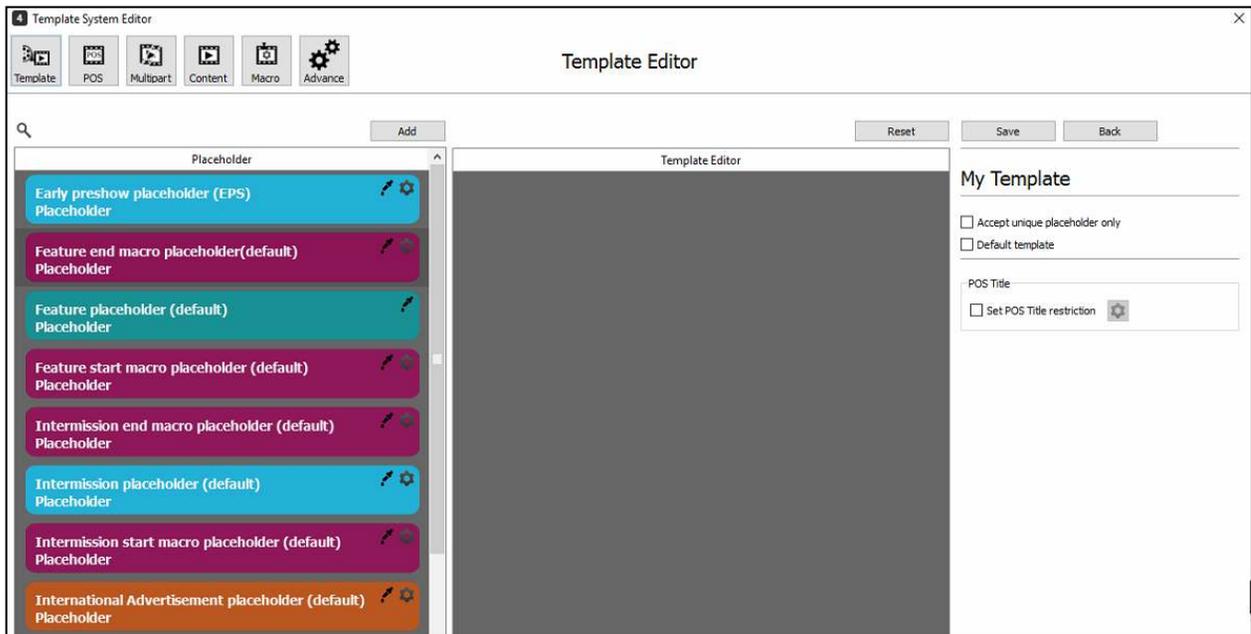
Pack restriction : Unknown
 Creation date : Unknown
 Last modified : Unknown
 Creator : Unknown
 Active after : Unknown
 Active before : Unknown

Associated placeholder:
 No information

To add new template, click **[Add]** button. A New Template window will pop up. Users need to enter a name for the template, then click **[Save]**.



A new template named My Template will be created and listed in Template view. To manage the new template created, double-click My Template record in the Template view list, Template editor interface will be shown.



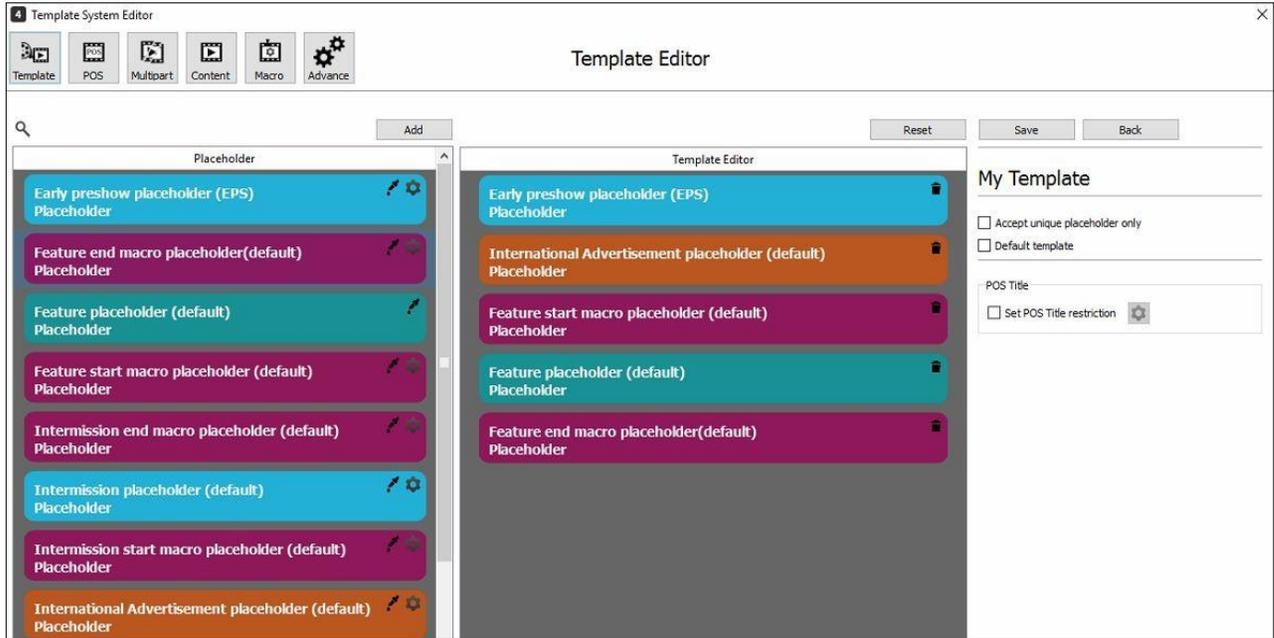
In the Placeholder panel, there is a list of placeholders provided by TMS Template System. Users can add more placeholders by clicking **[Add]** button. A New template placeholder window will pop up. After entering data in all the mandatory fields, assign the restriction (Content Pack or Macro Pack), then click **[Save]**. TMS Template System provides default template placeholders for content packs: Early preshow placeholder (EPS), Feature end macro placeholder, Feature placeholder, Feature start macro placeholder, Intermission end macro placeholder, Intermission placeholder, Intermission start macro placeholder, International Advertisement placeholder, Late preshow placeholder (LPS), Local Advertisement placeholder, Pre show macro placeholder, and Trailer placeholder.

The new placeholder will be created and appeared in Placeholder panel. Users can click  icon to edit the placeholder or  icon to delete the placeholder.

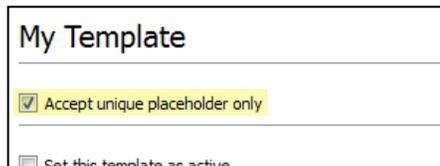
Note: Default placeholders cannot be deleted.



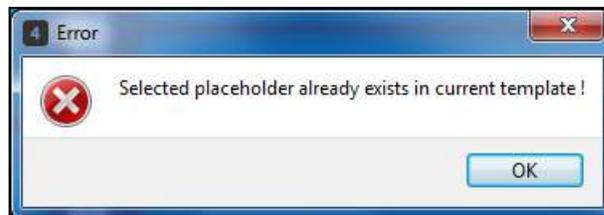
Drag the placeholder from Placeholder panel to Template Editor panel to add the desired placeholder to the template, then click **[Save]** to save the template.



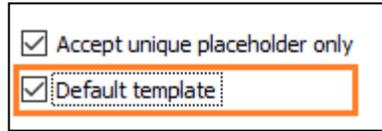
On the right side of Template editor, users can set the template to accept only unique placeholder by ticking **[Accept unique placeholder only]** checkbox. By enabling the unique placeholder, duplicate of the identical placeholder is prohibited.



A warning message box will pop up if there is an identical placeholder added in the template editor panel.

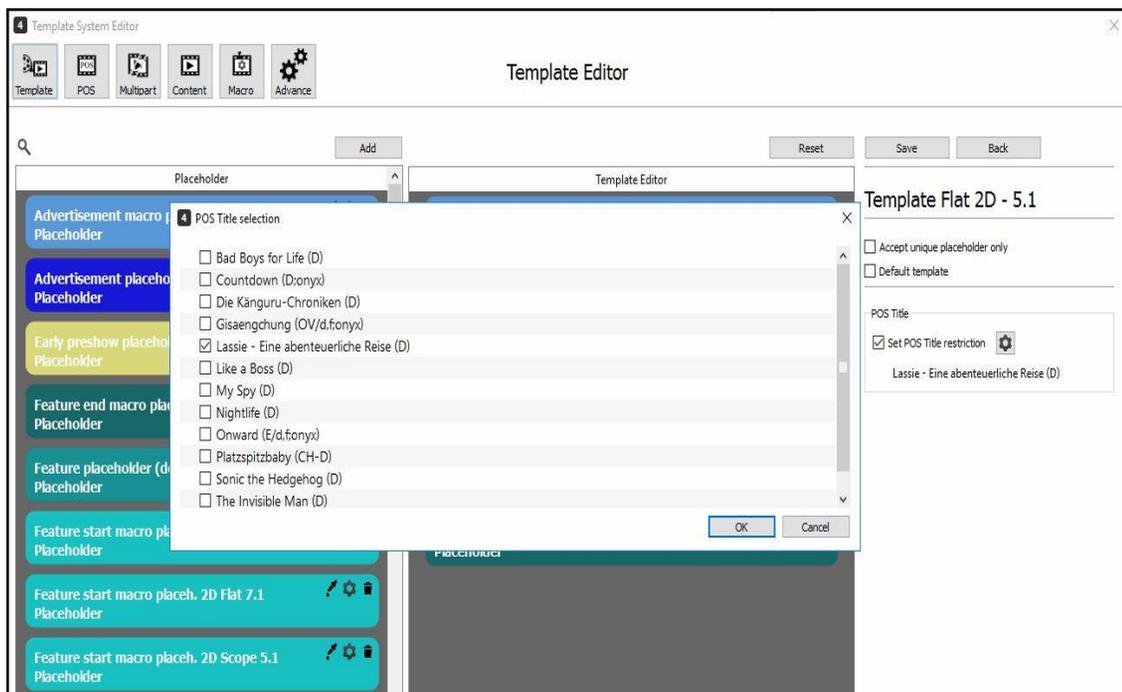


To allow the desired template to be selected by TMS Template System to generate the SPL automatically, users need to set the template as the default template by checking the Default template checkbox.

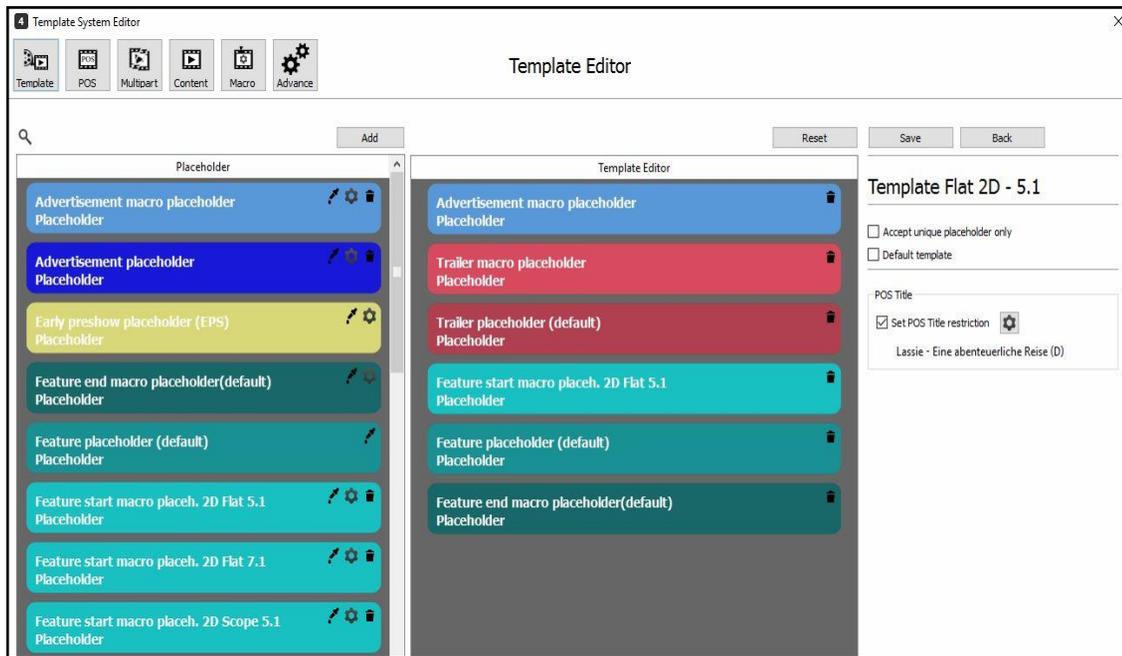


Please note that there can be only one default template at any given point of time.

The Template editor allows users to define multiple templates and set those templates as active by making use of POS Titles restrictions as shown in the figure below:



When POS title(s) restrictions are set for a particular template, the TMS will use the design of that particular template to generate the SPLs for the restricted POS titles. For all other POS titles, the template system will use the design of the Default template for SPL generation.



Click **[Reset]** to go back to the original phase of the template or click **[Back]** to exit Template editor without saving. A warning message box will pop up when **[Back]** button is pressed to notify users that all the unsaved data will be lost after quitting Template editor. Click **[Yes]** to quit, **[No]** to continue.



6.1.3.2. POS Title Editor Tab



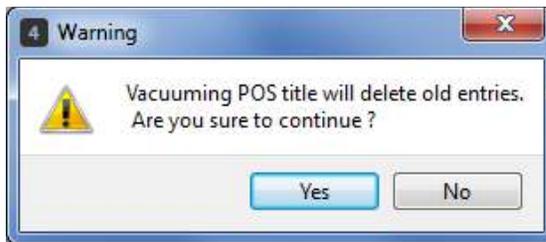
By clicking the **[POS Title Editor]** icon, the POS title view interface will be loaded as below. This will display information such as POS titles and its Rating that were retrieved from the POS File/URL.

Title	Rating	Year	Pre-show offset	Credits Offset	Last modified
DISNEYS BEAUTY AND THE BEAST	G		00:00:00		
DISNEYS BEAUTY AND THE BEAST (3D)	G	2022	00:00:00		2022-03-29T15:43:36
KONG SKULL ISLAND	PG-13/PG13/13		00:00:00		
LA LA LAND	PG-13/PG13/13		00:00:00		
LA LA LAND (3D)	PG-13/PG13/13	2022	00:00:00		2022-03-29T15:42:52
LA LA LAND (DTS:X)	PG-13/PG13/13		00:00:00		
LOGAN	M18		00:00:00		
LOGAN (2D)	M18		00:00:00		
Ready Player One	PG-13/PG13/13		00:00:00		
SPIDER-MAN	PG-13/PG13/13		00:00:00		
WONDER WOMAN	PG-13/PG13/13	2022	00:00:00		2022-04-11T20:50:10
ZOOPTOPIA	PG-13/PG13/13		00:00:00		
ZOOPTOPIA (3D)	PG-13/PG13/13	2022	00:00:00		2022-03-29T15:43:06
ZOOPTOPIA (DTS:X)	PG-13/PG13/13		00:00:00		

WONDER WOMAN
(PG-13/PG13/13)

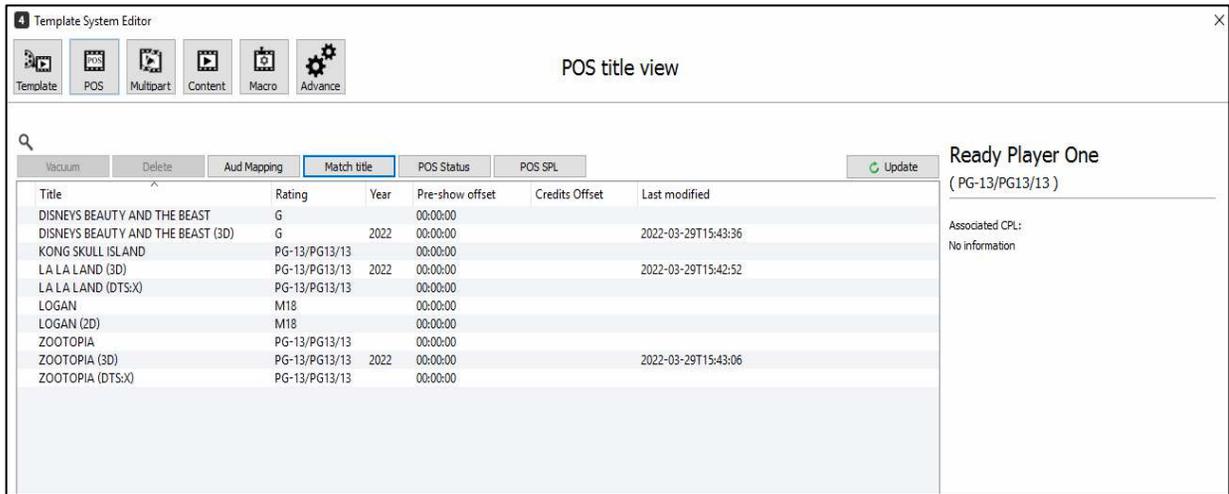
Associated CPL:
WonderWoman1984_FTR-2D_S_TEL_CC_51_2K_202012...

Click **[Vacuum]** to remove the list of titles that are no longer in the POS system. Confirmation message box will pop up, click **[Yes]** to continue, **[No]** to cancel.

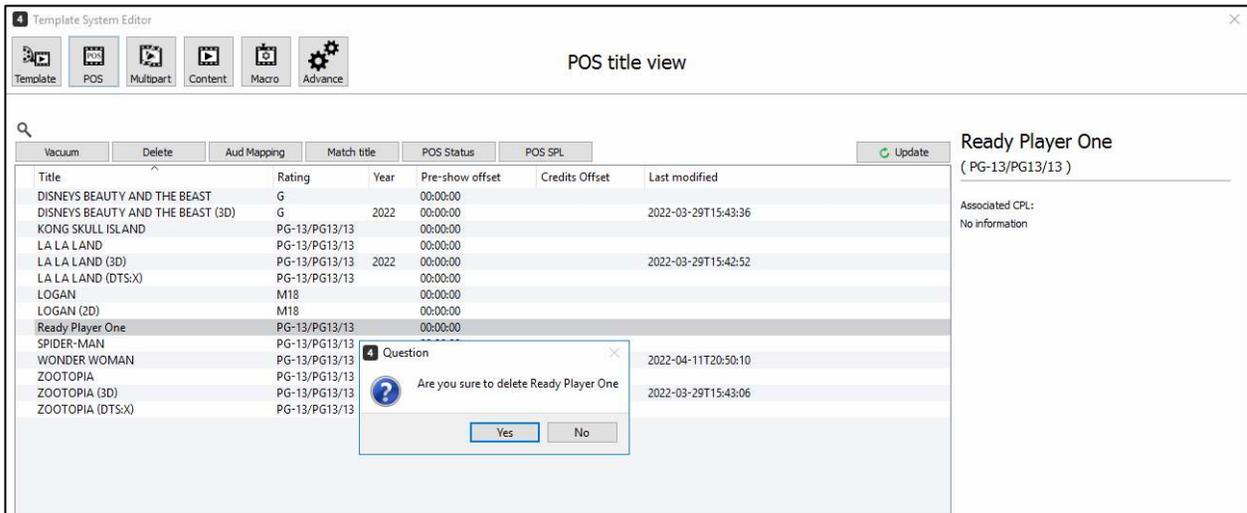


Only the existing POS titles will remain in the list and the **[Vacuum]** button will be disabled.

6. SCHEDULER TAB



Alternatively, user can also delete individual POS titles by selecting the particular POS title to be deleted and clicking the **[Delete]** button. Confirmation message box will pop up, click **[Yes]** to continue, **[No]** to cancel.

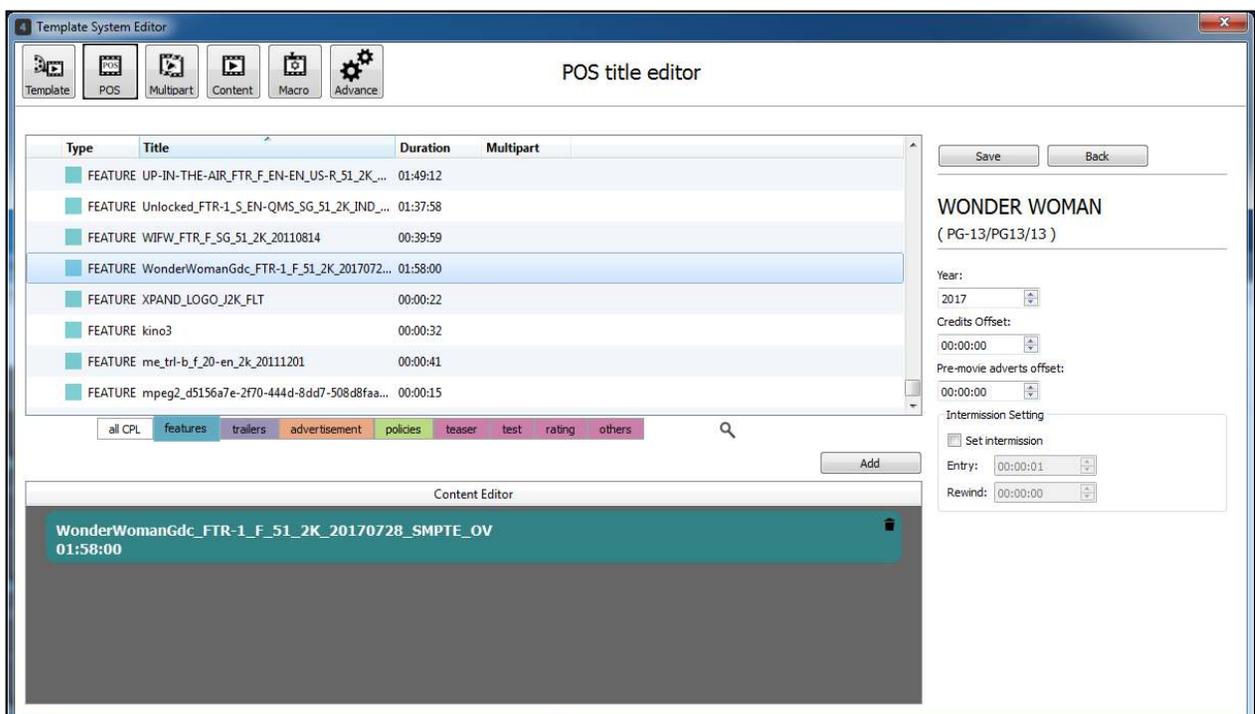


Click **[Aud Mapping]** to map the auditorium number in POS to appropriate screen on the TMS. Aud mapping dialog will pop up to allow users to map the auditoriums to TMS. On the right hand column, select the screen from the dropdown list to map the screen to the auditorium number, then click **[Save]**.



After both screen and auditorium are mapped to one another, double-click the CPL title to associate CPL or click the CPL title, then click **[Match title]**, POS title editor interface will be shown. Drag feature CPL from the list and drop on Content Editor, then click **[Save]**.

Click  icon to remove CPL from Content Editor.



User can configure the Credit Offset value for a POS title, this will indicate the cue time on when the Credit TMS macro will be executed when the show is finished. (Refer to **Section 7.23** for steps to map server macros with TMS macros, Credit TMS macro should be included in the pre-defined list of TMS macros.)

I Still Believe (*)
(PG)

Year: 2020

Credits Offset: 01:51:59

Pre-show offset: 00:00:00

Intermission Setting
 Set intermission

Entry: 00:00:01

Rewind: 00:00:00

TMS Macro	House 1	House 2	House 3	House 4	House 5	House 6	House 7	House 8	House 9
3D FLAT	✗	✗	✗	✗	✗	✗	✗	✗	✗
3D FLAT HFR	✗	✗	✗	✗	✗	✗	✗	✗	✗
3D SCOPE	✗	✗	✗	✗	✗	✗	✗	✗	✗
3D SCOPE ...	✗	✗	✗	✗	✗	✗	✗	✗	✗
4K JPEG FLAT	✗	✗	✗	✗	✗	✗	✗	✗	✗
4K JPEG SC...	✗	✗	✗	✗	✗	✗	✗	✗	✗
CREDITS	✔ Credits	✔ Credits	✔ Credits	✗	✗	✗	✗	✗	✗
Dolby 5.1	✗	✗	✗	✗	✗	✗	✗	✗	✗
Dolby 7.1	✗	✗	✗	✗	✗	✗	✗	✗	✗
Dolby ATM...	✗	✗	✗	✗	✗	✗	✗	✗	✗
DOWSER C...	✗	✗	✗	✗	✗	✗	✗	✗	✗
DOWSER O...	✗	✗	✗	✗	✗	✗	✗	✗	✗
DTS:X	✗	✗	✗	✗	✗	✗	✗	✗	✗
JPEG FLAT	✗	✗	✗	✗	✗	✗	✗	✗	✗
JPEG SCOPE	✗	✗	✗	✗	✗	✗	✗	✗	✗
MPEG FLAT	✗	✗	✗	✗	✗	✗	✗	✗	✗
MPEG SCOPE	✗	✗	✗	✗	✗	✗	✗	✗	✗
PAUSE	✗	✗	✗	✗	✗	✗	✗	✗	✗
PLAY	✗	✗	✗	✗	✗	✗	✗	✗	✗
PRE-SHOW	✗	✗	✗	✗	✗	✗	✗	✗	✗

Server	Server Macro	Parameter
House 1	✔ Credits	
House 2	✔ Credits	
House 3	✔ Credits	
House 4	<<Unselected>>	
House 5	<<Unselected>>	
House 6	<<Unselected>>	
House 7	<<Unselected>>	
House 8	<<Unselected>>	
House 9	<<Unselected>>	

Pre-show offset timing on POS titles can be configured by the user in the Pre-show offset field. This offset is used in instances wherein the feature content comes with pre-movie advertisements/trailers/short videos but the user still prefers to align the POS schedule time with the actual start time of the feature content. Once this offset is configured, template system should generate scheduled shows based on the defined pre-show offset value.

I Still Believe (*)
(PG)

Year: 2020

Credits Offset: 01:51:59

Pre-show offset: 00:00:00

Intermission Setting

Set intermission

Entry: 00:00:01

Rewind: 00:00:00

Intermission for a feature content can be set by ticking the **[Set intermission]** checkbox, this will enable the Entry and Rewind fields. User should be able to configure the Entry value for the intermission, this will indicate the cue time on when intermission for the feature content will start playing while the Rewind field will indicate the rewind duration for the feature content once the intermission is done playing.

Note: The Rewind feature only works with single-part feature content and not with multi-part feature content.

Like a Prince
(14)

Year: 2020

Credits Offset: 02:32:00

Pre-show offset: 00:00:00

Intermission Setting

Set intermission

Entry: 01:21:43

Rewind: 00:00:00

Click **[Back]** to exit Template editor without saving. A warning message box will pop up when **[Back]** button is pressed to notify users that all the unsaved data will be lost after quitting Template editor. Click **[Yes]** to quit, **[No]** to continue.

The Template System Editor will show POS title view UI when **[Back]** is pressed. Click **[Update]** to update the list of POS title shown. Before template system generates POS schedules and show playlists, the POS status icon is red 🛑 while icon of mapped show is green 🟢. Click **[Back]** to exit POS status view interface.

6.1.3.3. Multipart Content Editor Tab

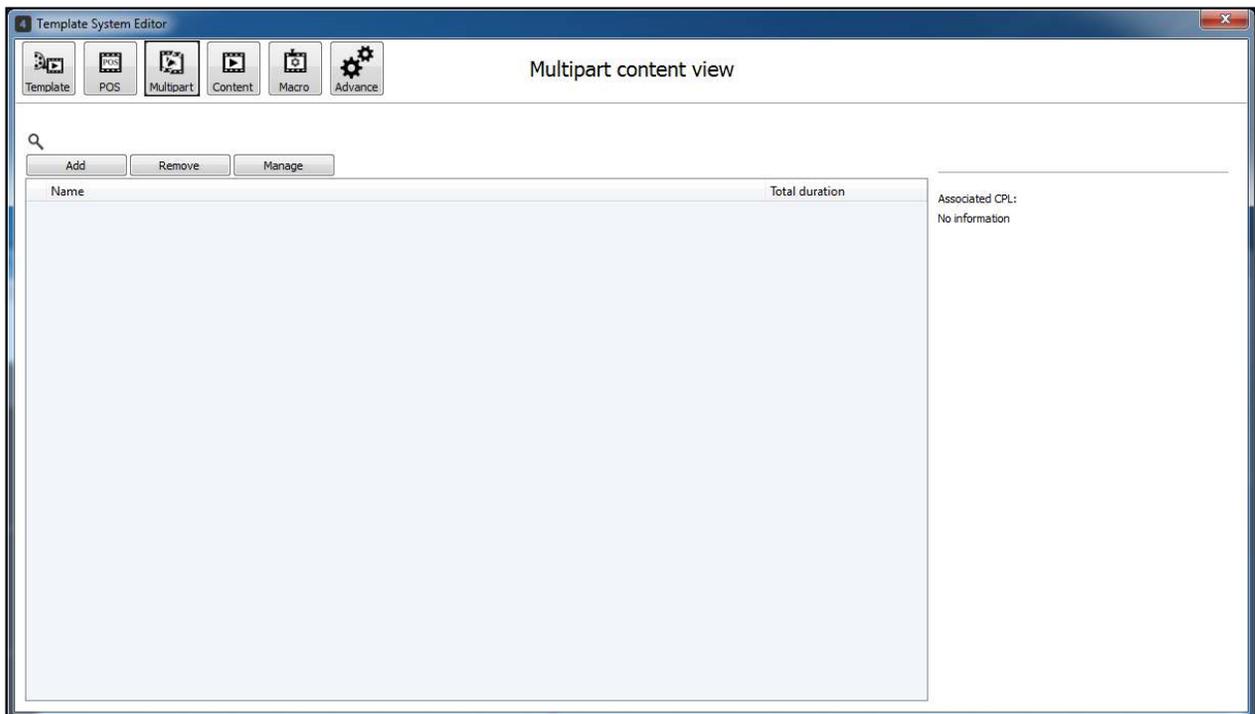


In many cases, the Feature content is received in multiple parts, for example Part 1 and Part 2. In such cases, the Multipart Content Editor tab should be used to first associate all such CPLs together by following the process mentioned below.

By clicking the **[Multipart Content Editor]** icon, the Multipart content view interface will be loaded as below.

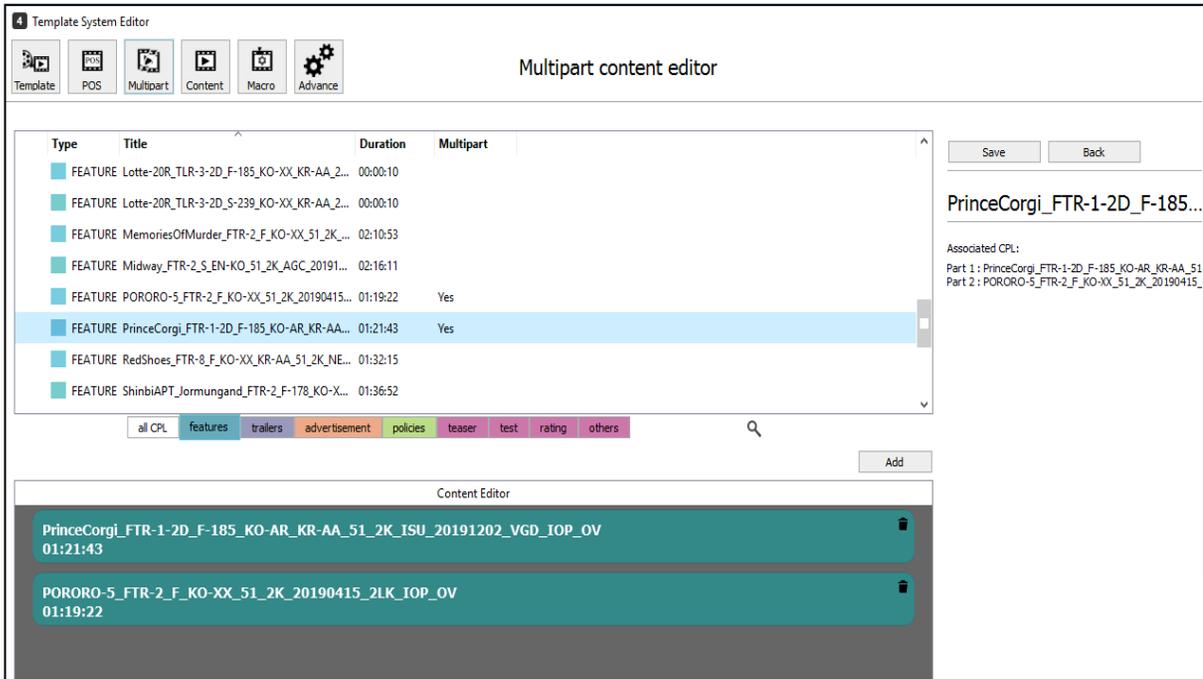
User should be able to **[Add]**, **[Remove]**, and **[Manage]** multipart contents available in the Multipart content view. The following are the functionality of the buttons available in the Multipart content view:

- **[Add]** button allows user to define new multipart contents from the CPL list.
- **[Remove]** button allows user to delete the selected CPL title in the multipart content list.
- **[Manage]** button allows user to modify existing multipart content available in the list.

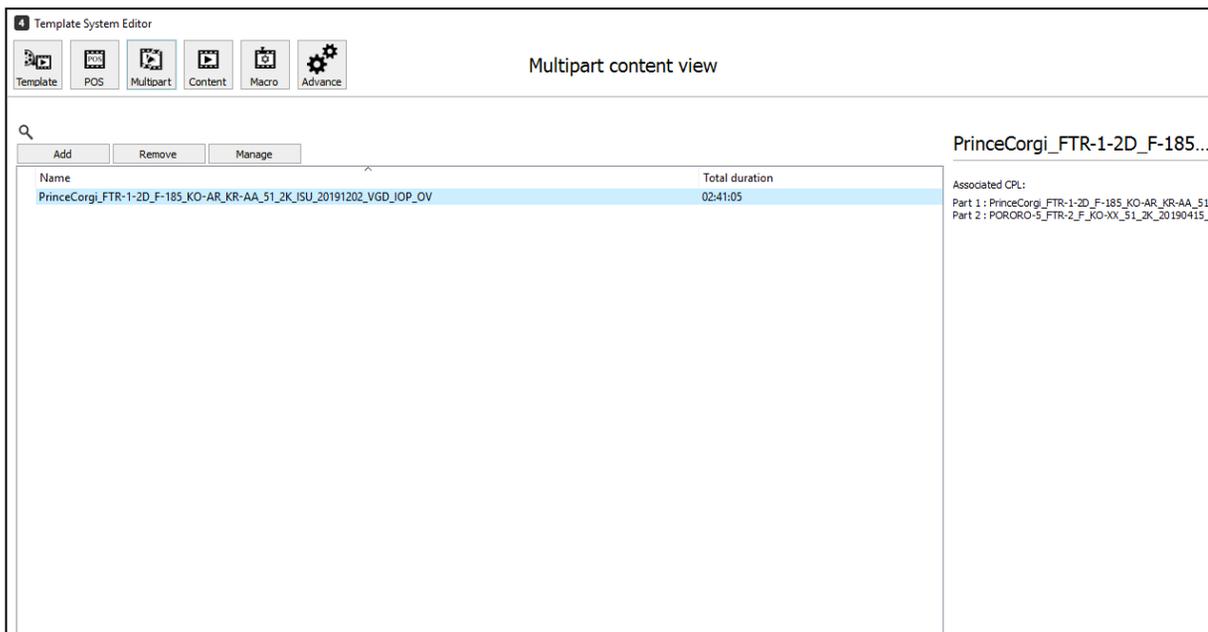


To add a new multipart content, click **[Add]** button. Multipart content editor interface will be shown. Drag multipart CPLs from the list and drop on Content Editor, then click **[Save]**.

Click  icon to remove CPL from Content Editor.

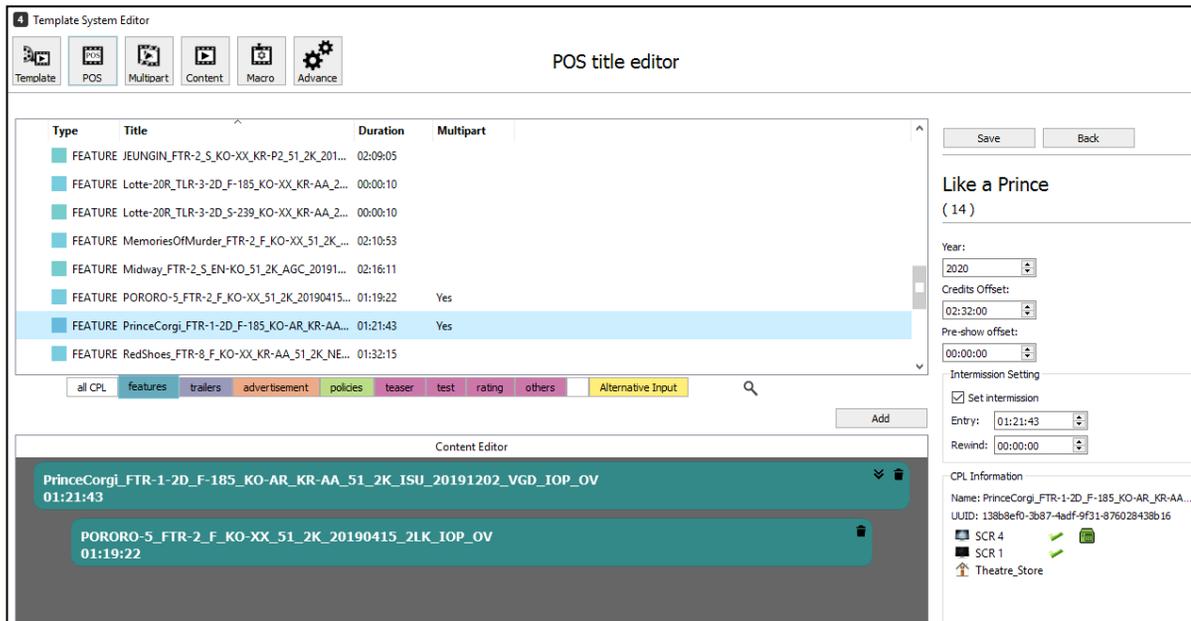


Click the created CPL title to check the associated CPLs at the right panel.



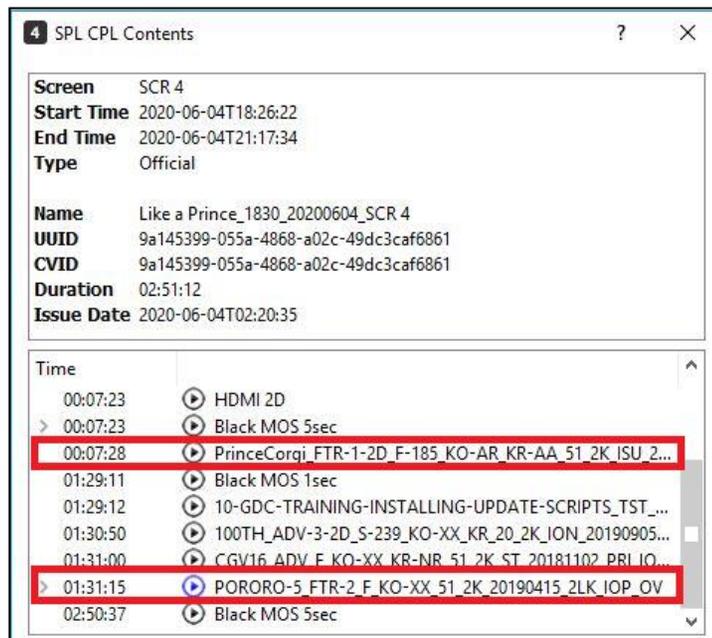
Once the Feature CPLs are associated in the Multipart Content tab, please follow the process to map the Feature CPLs with the POS Titles as explained in **Section 6.1.3.2**.

The following figure shows a POS title association with Multipart content.



In case, an intermission is programmed for a Feature with multipart content; then the intermission content is assembled in between the multipart content.

The following figure shows a typical SPL assembled with Multipart Feature content and an intermission.



6.1.3.4. Content Pack Editor Tab



By clicking **[Content Pack Editor]** icon, the Content pack view interface will be loaded as below.

User should be able to **[Add]**, **[Remove]**, **[Edit]**, **[Copy]**, **[Manage]**, and **[Export]** content packs available in the Content pack view. The following are the functionality of the buttons available in the Content pack view:

- **[Add]** button allows user to create user-defined content packs.
- **[Remove]** button allows user to delete the user-defined content pack that is selected in the list.
- **[Edit]** button allows user to modify the name of user-defined content pack that is selected in the list.
- **[Copy]** button allows user to copy existing content packs, copied content pack is expected to have exactly the same configuration with the selected content pack in the list.
- **[Manage]** button allows user to configure the contents, placeholder value and restriction settings of the content pack. Both TMS default content packs and user-defined content packs can be configured by the user.
- **[Export]** button allows user to export existing Content packs in XML format.

Note: TMS default content packs cannot be removed and edited by the user.

Name	Creation date	Last modified
Feature pack (default)	2015-02-25T06:30:00	2015-02-25T06:30:00
Intermission content pack (default)	2015-02-25T06:30:00	2015-02-25T06:30:00
International Advertisement pack (default)	2015-02-25T06:30:00	2015-02-25T06:30:00
Local Advertisement pack (default)	2015-02-25T06:30:00	2015-02-25T06:30:00
Trailer pack (default)	2015-02-25T06:30:00	2015-02-25T06:30:00

Trailer pack (default)

Pack type :	Content Pack
Creation date :	Wed Feb 25 06:30:00 2015
Last modified :	Wed Feb 25 06:30:00 2015
Creator :	Template System
Placeholder:	Trailer placeholder (default)
Associated CPL:	Total count: 0
No information	

TMS Template System provides five default content packs: Feature pack, Intermission content pack, International advertisement pack, Trailer pack and Local advertisement pack. Double-click the desired default pack or click the pack name, then click **[Manage]** to edit.

Click **[Add]** button to add new content pack. New content pack window will pop up. Users need to enter a name for the pack, then click **[Save]**.



The created content pack will appear in the list in Content pack view interface. The details of the content pack will be displayed at right panel.

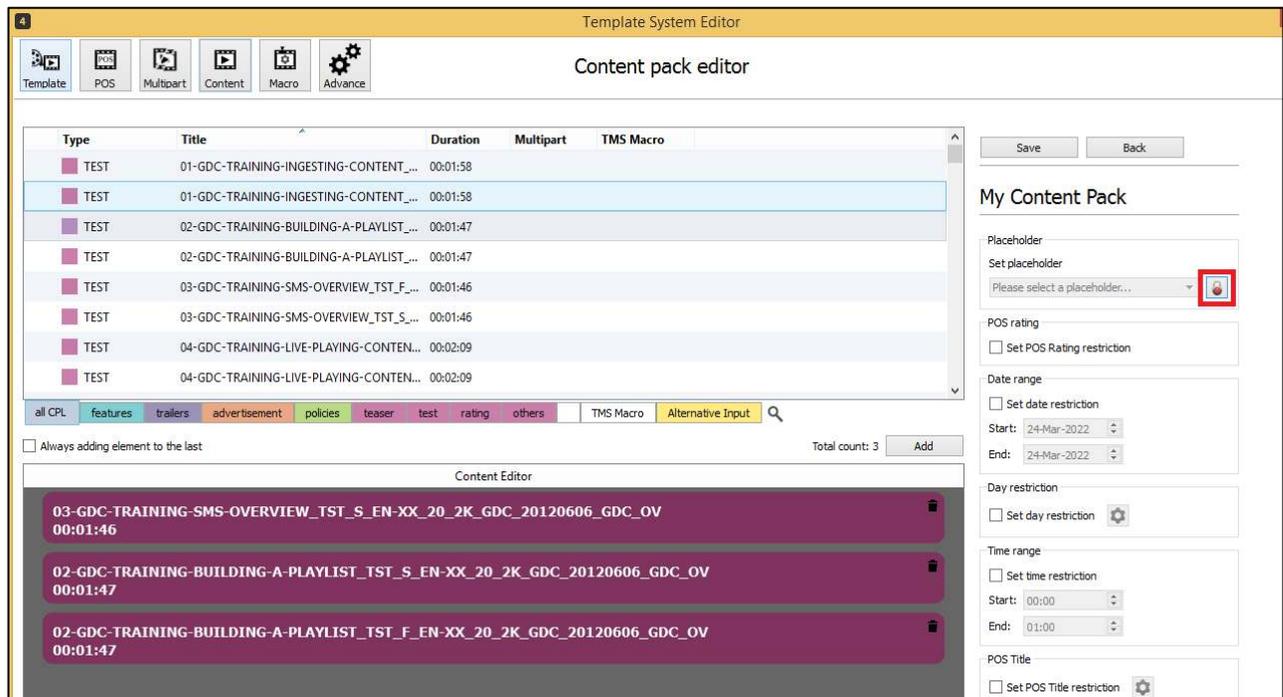
Name	Creation date	Last modified
Feature pack (default)	2015-02-25T06:30:00	2015-02-25T06:30:00
Intermission content pack (default)	2015-02-25T06:30:00	2015-02-25T06:30:00
International Advertisement pack (default)	2015-02-25T06:30:00	2015-02-25T06:30:00
Local Advertisement pack (default)	2015-02-25T06:30:00	2015-02-25T06:30:00
My Content Pack	2022-03-24T21:21:49	2022-03-24T21:22:01
Trailer pack (default)	2015-02-25T06:30:00	2015-02-25T06:30:00

My Content Pack

Pack type : Content Pack
 Creation date : Thu Mar 24 21:21:49 2022
 Last modified : Thu Mar 24 21:22:01 2022
 Creator : Template System
 Placeholder: Local Advertisement place...

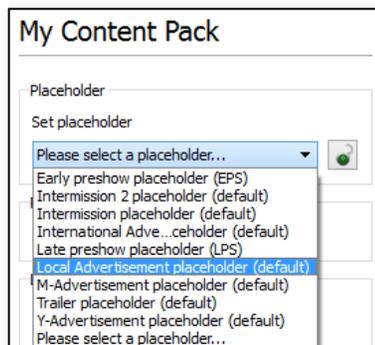
Associated CPL: Total count: 4
 02-GDC-TRAINING-BUILDING-A-PLAYLIST_TST_S_EN-XX_2
 02-GDC-TRAINING-BUILDING-A-PLAYLIST_TST_F_EN-XX_2
 01-GDC-TRAINING-INGESTING-CONTENT_TST_S_EN-XX_2
 01-GDC-TRAINING-INGESTING-CONTENT_TST_F_EN-XX_2

Double-click or select the desired content pack, then click **[Manage]** to edit. Content pack editor interface will be loaded. Drag and drop CPLs to Content Editor, then click **[Save]**.

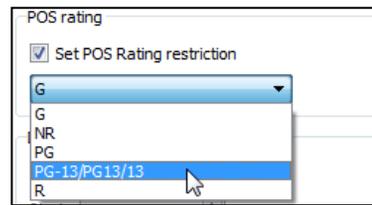


Users can also set some restrictions to the content pack.

The placeholder for the content pack can be set by choosing a placeholder from the set placeholder dropdown list. The set placeholder dropdown is locked by default. User need to click on the lock icon to unlock the dropdown and select the desired placeholder from the list of placeholders.



Tick on **[Set POS Rating restriction]** checkbox under POS rating section, a dropdown menu will display a list of the POS ratings that were retrieved from the POS File/URL. User will be able to select a POS rating in the dropdown then click **[Save]** button to save the restriction setting.



Users can set the active period of the content pack by ticking **[Set date restriction]** under Date range section or **[Set time restriction]** under Time range section. If **[Set date restriction]** is ticked, input the Start and End date for the content pack to be active. For example, if the Start date is set to 20-Jan-2017, and the End date is set to 28-Feb-2017, then the content pack will be active from 20-Jan-2017 00:00 until 28-Feb-2017 23:59.

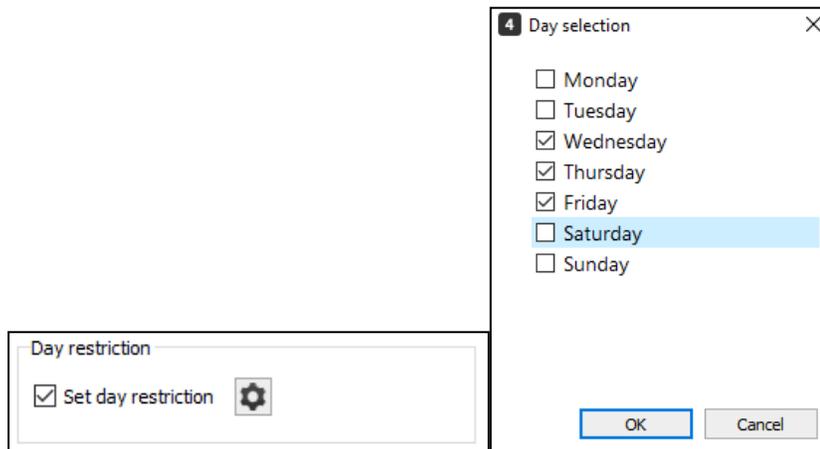
Meanwhile, users can also set the time range for the content pack to be active. If the Start time is set to 01:00:00 and End time is set to 15:00:00, this mean the content pack will be active from 01:00:00 until 15:00:00 everyday.

When both of the date restriction and time restriction are set, the content pack will only be active within the set period.

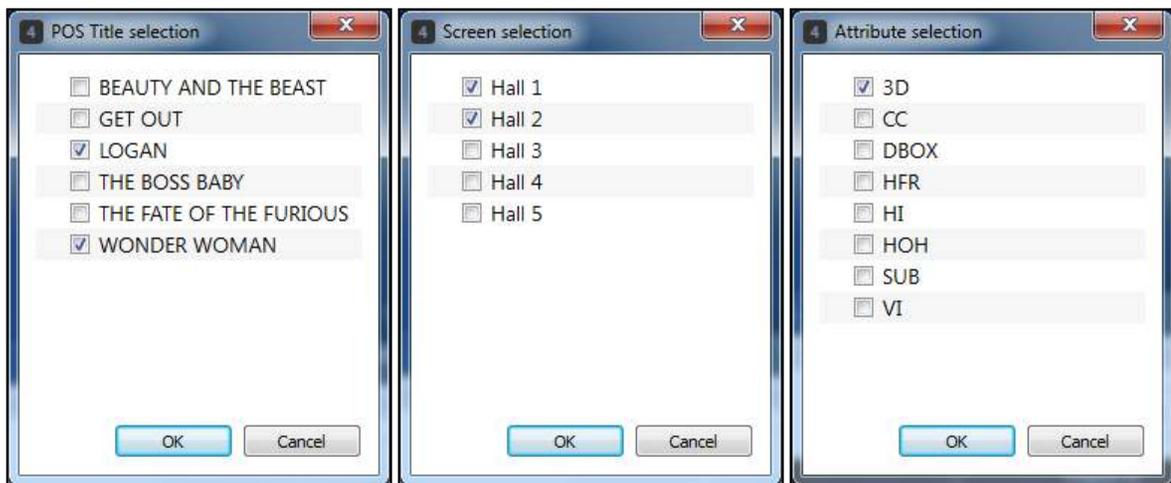
Note: The minimum gap for the date range is one day while the minimum gap for the time range is one hour.

Users can also set the content pack restrictions according to the Days of the week by setting the [Set day restriction]. This will be on top of the [Set Date restriction]

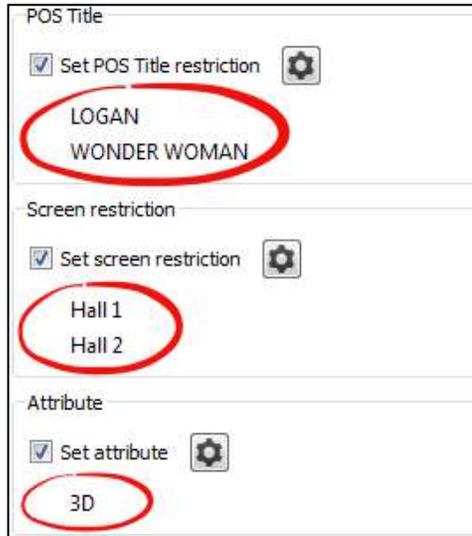
For e.g. If the date restriction of a content pack is set to start from 1-7-2021 and end at 31-7-2021 but the days restriction is set to Wednesday, Thursday and Friday, the pack will only take effect on the selected days of the week between 1-7-2021 to 31-7-2021.



Tick on **[Set POS Title]** checkbox under POS Title section to enable POS Title restriction. Click  icon, this will display the POS Title restriction window. It will allow users to select the POS title restriction by ticking at the checkbox, then click **[Save]** button to save the setting. Repeat the same steps if users wish to set Screen restriction or Attribute restriction for the content pack.



Configured restrictions for POS Title, Screen restriction, and Attribute restriction will be displayed as shown below.



Tick **[Set priority value]** checkbox to set the priority of the content pack. The higher the priority, the higher the chance of the content pack being selected by TMS Tempalate System during auto SPL generation.



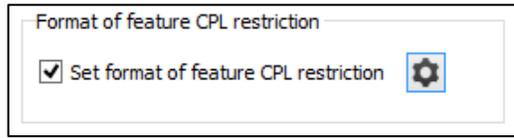
Note: The value for highest priority is 10 while the lowest priority value is 0.

Untick the checkbox to remove the setting set. A warning message box will pop up. Click **[Yes]** to continue while **[No]** to cancel.

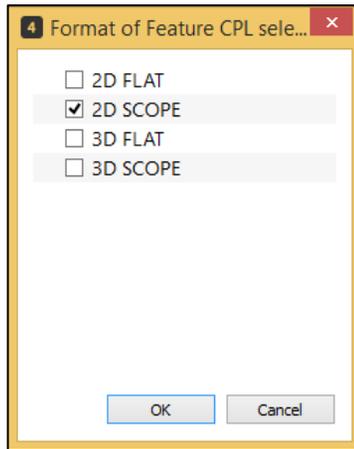


Restriction on content packs can also be set based on the format of the feature CPL.

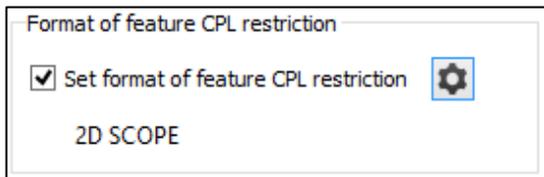
Tick the **[Set format of feature CPL restriction]** check box and click on the setting icon.



Select the feature formats for which the restriction should be set and click [OK].



The selection formats will be displayed below the 'Set format of feature CPL restriction' option.



6.1.3.5. Macro Pack Editor Tab

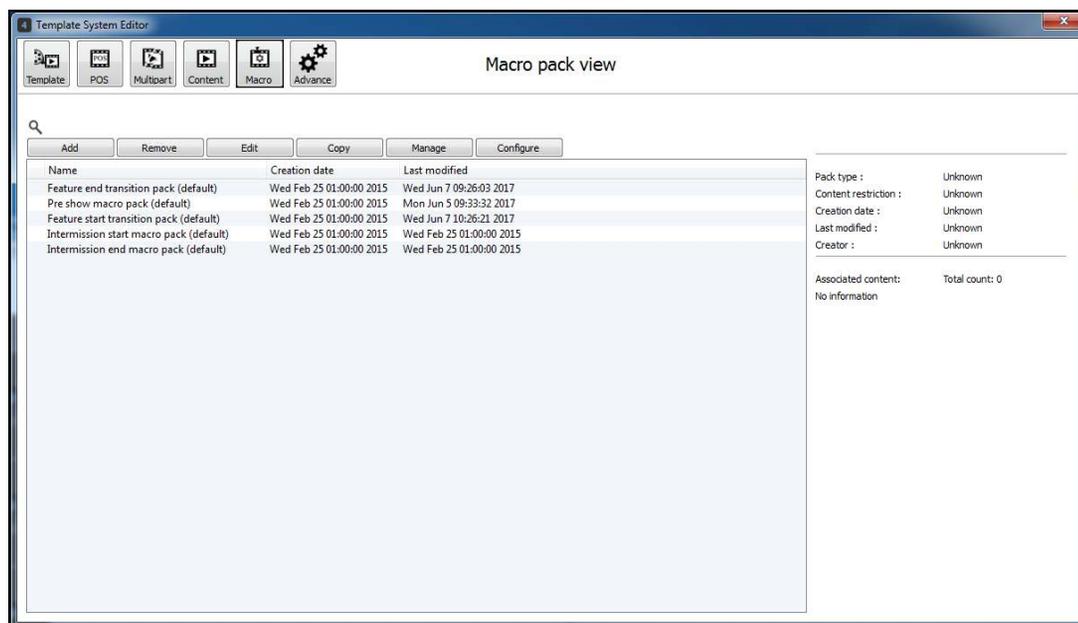


By clicking **[Macro Pack Editor]** icon, the Macro pack view interface will be loaded as below.

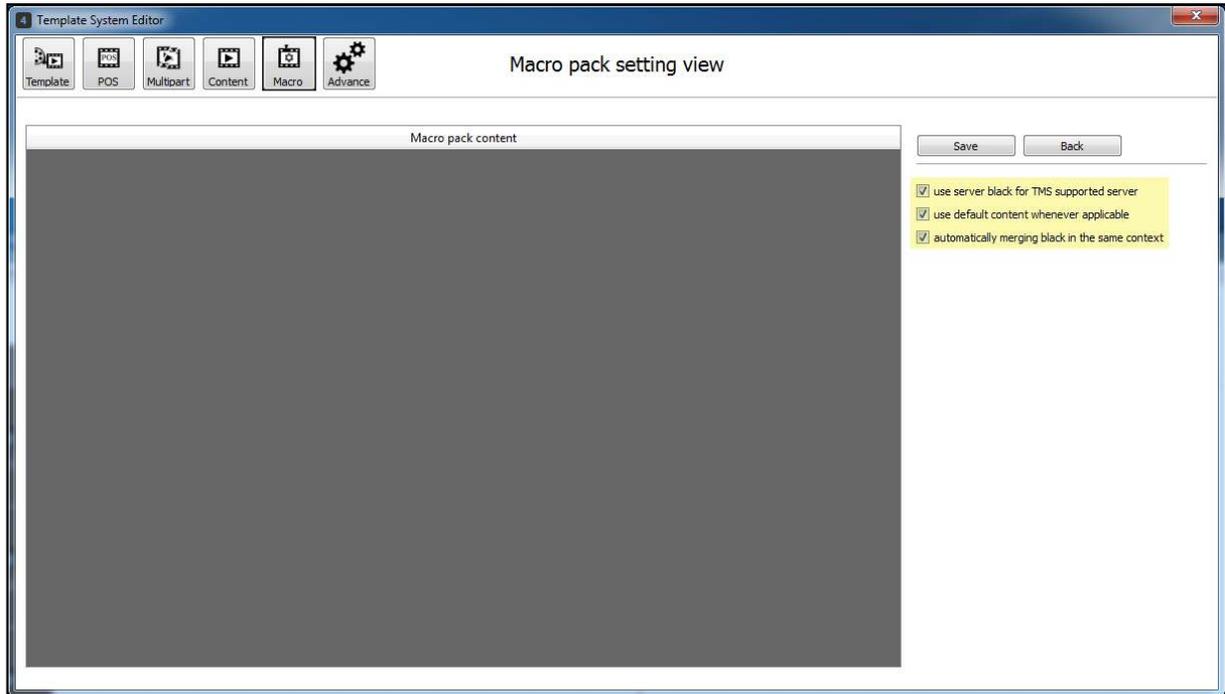
User should be able to **[Add]**, **[Remove]**, **[Edit]**, **[Copy]**, **[Manage]**, **[Configure]**, and **[Export]** macro packs available in the Macro pack view. The following are the functionality of the buttons available in the Macro pack view:

- **[Add]** button allows user to create user-defined macro packs.
- **[Remove]** button allows user to delete the user-defined macro pack that is selected in the list.
- **[Edit]** button allows user to modify the name of user-defined macro pack that is selected in the list.
- **[Copy]** button allows user to copy existing macro packs, copied macro pack is expected to have exactly the same configuration with the selected macro pack in the list.
- **[Manage]** button allows user to configure the contents, placeholder value and restriction settings of the macro pack. Both TMS default macro packs and user-defined macro packs can be configured by the user.
- **[Configure]** button allows user to configure options on how template system will utilize usage of Black-related contents.
- **[Export]** button allows user to export an existing macro pack in XML format.

Note: TMS default macro packs cannot be removed and edited by the user.

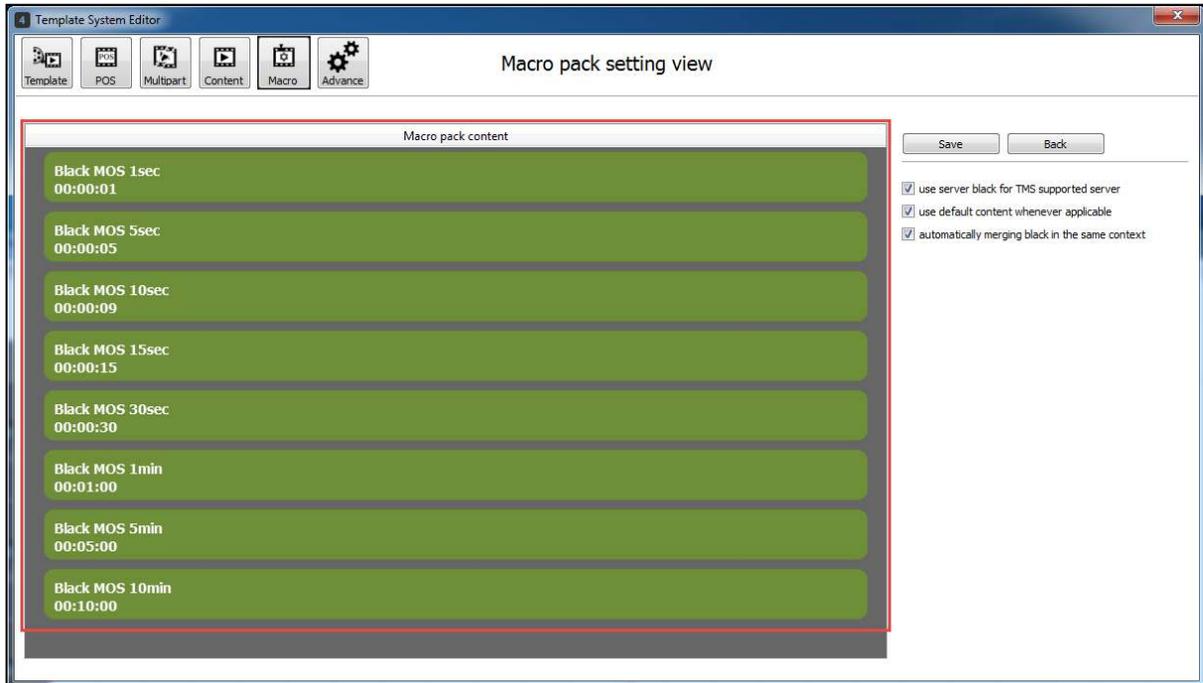


TMS Template System provides five default macro packs: Pre show macro pack, Feature start transition pack, Feature end transition pack, Intermission start macro pack, Intermission end macro pack. Double-click the desired macro pack or click the macro pack name, then click **[Configure]** to configure. Macro pack setting view UI will be loaded.



By default, all the three settings are ticked to optimize the Template System.

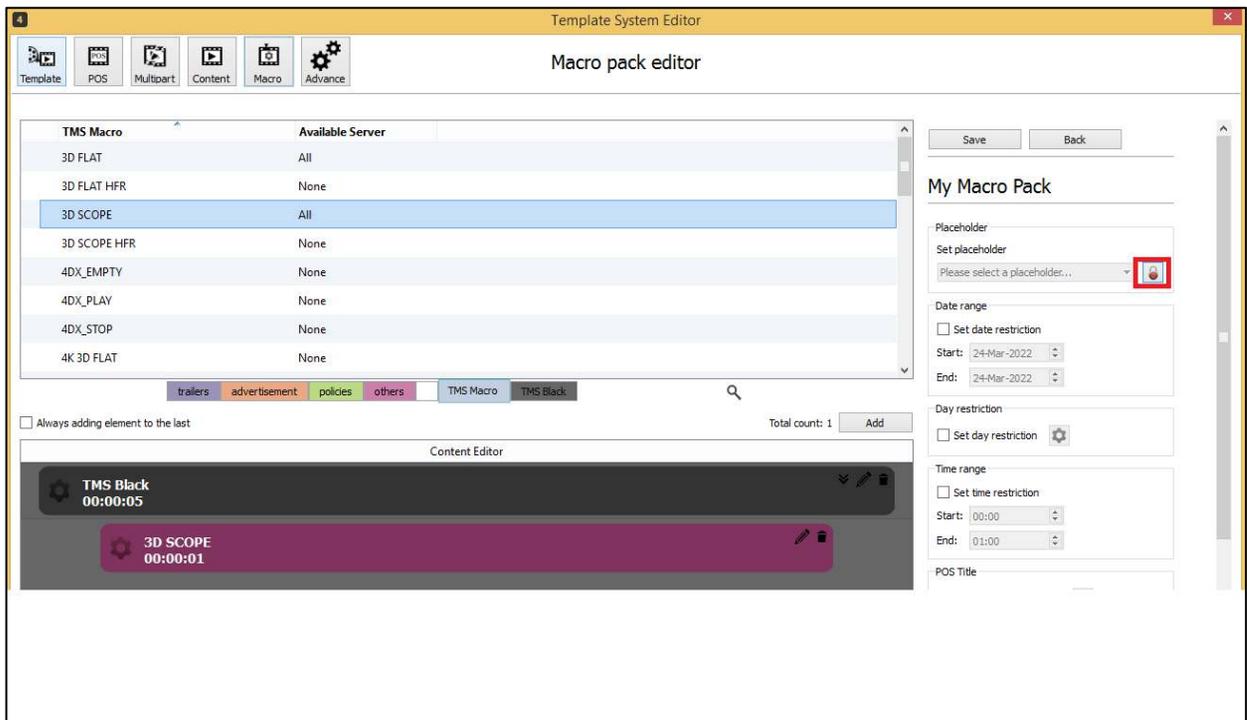
- **[use server black for TMS supported server]** is to enable Template System to pick server black from TMS supported server. For example, if **[use server black for TMS supported server]** is ticked, no CPL will be created in Doremi Server because Doremi Server has its own server black.
- **[use default content whenever applicable]** is to enable Template System to pick default content from the servers.
- **[automatically merging black in the same content]** is to enable Template System to merge all the TMS Blacks that associated with the macro pack together to become only one TMS Blacks. For example, users added three TMS Blacks, each with the duration of two seconds. Instead of using six Black MOS 1s to fit this case, the three TMS Blacks will be merged and become only one TMS Black with the duration of six seconds. Then only one Black MOS 5s and one Black MOS 1s will be added in the SPL.
- When **[use default content whenever applicable]** is ticked, a list of Black MOS content will show in Macro pack content panel.



Note: All Black MOS contents should be ingested into TMS before using TMS Template System. If no suitable Black MOS contents are found in any of the servers, the SPLs generated will not have any TMS Black and macro associated.

Click **[Save]** button to save the setting or **[Back]** button to exit Macro pack setting view without saving.

To manage macro packs, click the desired macro pack title, then click **[Manage]** button, else, double-click the desired macro pack title. Macro pack editor interface will be loaded as shown below. Drag and drop contents to Content Editor then click **[Save]**.

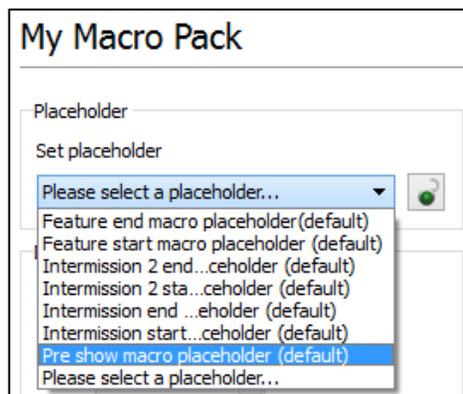


Note: Server macros need to be mapped with TMS macro before using the Template System. (Refer to **Section 8.24** for details regarding mapping of server macros with TMS macros).

Users can also set some restrictions to the macro pack.

The placeholder for the macro pack can be set by choosing the appropriate placeholder from the set placeholder dropdown list.

The set placeholder dropdown is locked by default. User need to click on the lock icon to unlock the dropdown and select the desired placeholder from the list of placeholders.



Users can set the active period of the macro pack by ticking **[Set date restriction]** under Date range section or **[Set time restriction]** under Time range section. If **[Set date restriction]** is ticked, input the Start and End date for the macro pack to be active. For example, if the Start date is set to 20-Jan-2017, and the End date is set to 28-Feb-2017, then the macro pack will be active 20-Jan-2017 00:00 until 28-Feb-2017 23:59.

Meanwhile, users can also set the time range for the macro pack to be active. If the Start time is set to 00:00 and End time is set to 15:00, this means the macro pack will be active from 00:00 until 15:00 everyday.

When both of the date restriction and time restriction are set, the macro pack will only be active within the set period.

The image shows two configuration panels. The top panel, titled 'Date range', has a checked checkbox for 'Set date restriction'. Below it are two date pickers: 'Start' is set to '20-Jan-2017' and 'End' is set to '28-Feb-2017'. The bottom panel, titled 'Time range', has a checked checkbox for 'Set time restriction'. Below it are two time pickers: 'Start' is set to '00:00' and 'End' is set to '15:00'.

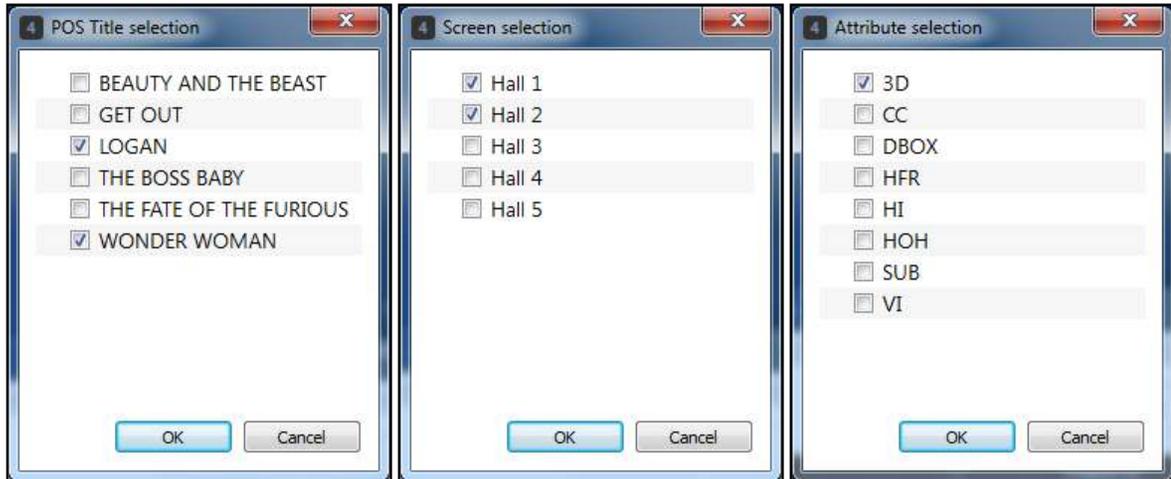
Note: The minimum gap for the date range is 1 day while the minimum gap for the time range is one hour.

Users can also set the macro pack restrictions according to the Days of the week by setting the [Set day restriction]. This will be on top of the [Set Date restriction]

For e.g. If the date restriction of a macro pack is set to start from 1-7-2021 and end at 31-7-2021 but the days restriction is set to Wednesday, Thursday and Friday, the macro pack will only take effect on the selected days of the week between 1-7-2021 to 31-7-2021.

The image shows two related UI elements. On the left is a 'Day restriction' panel with a checked checkbox for 'Set day restriction' and a gear icon. On the right is a 'Day selection' dialog box with a close button (X) in the top right corner. The dialog lists the days of the week with checkboxes: Monday (unchecked), Tuesday (unchecked), Wednesday (checked), Thursday (checked), Friday (checked), Saturday (unchecked and highlighted with a blue background), and Sunday (unchecked). At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Tick on **[Set POS Title]** checkbox under POS Title section to enable POS Title restriction. Click  icon, this will display the POS Title restriction window. It will allow users to select the POS title restriction by ticking at the checkbox, then click **[Save]** button to save the setting. Repeat the same steps if users wish to set Screen restriction or Attribute restriction for the content pack.



Configured restrictions for POS Title, Screen restriction, and Attribute restriction will be displayed as shown below.



Tick **[Set priority value]** checkbox to set the priority of the macro pack. The higher the priority, the higher the chance of the macro pack being selected by TMS Template System during auto SPL generation.



Priority

Set priority value

Priority: 2

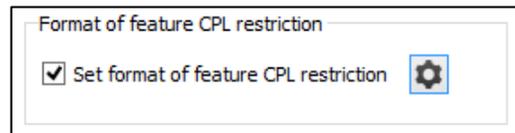
Note: The value for highest priority is 10 while the lowest priority value is 0.

Untick the checkbox to remove the setting set. A warning message box will pop up. Click **[Yes]** to continue while **[No]** to cancel.



Restriction on macro packs can also be set based on the format of the feature CPL.

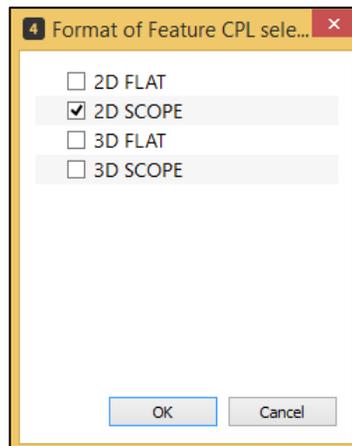
Tick the **[Set format of feature CPL restriction]** check box and click on the setting icon.



Format of feature CPL restriction

Set format of feature CPL restriction 

Select the feature formats for which the restriction should be set and click **[OK]**.



Format of Feature CPL sele...

2D FLAT

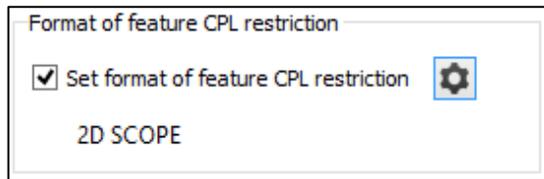
2D SCOPE

3D FLAT

3D SCOPE

OK Cancel

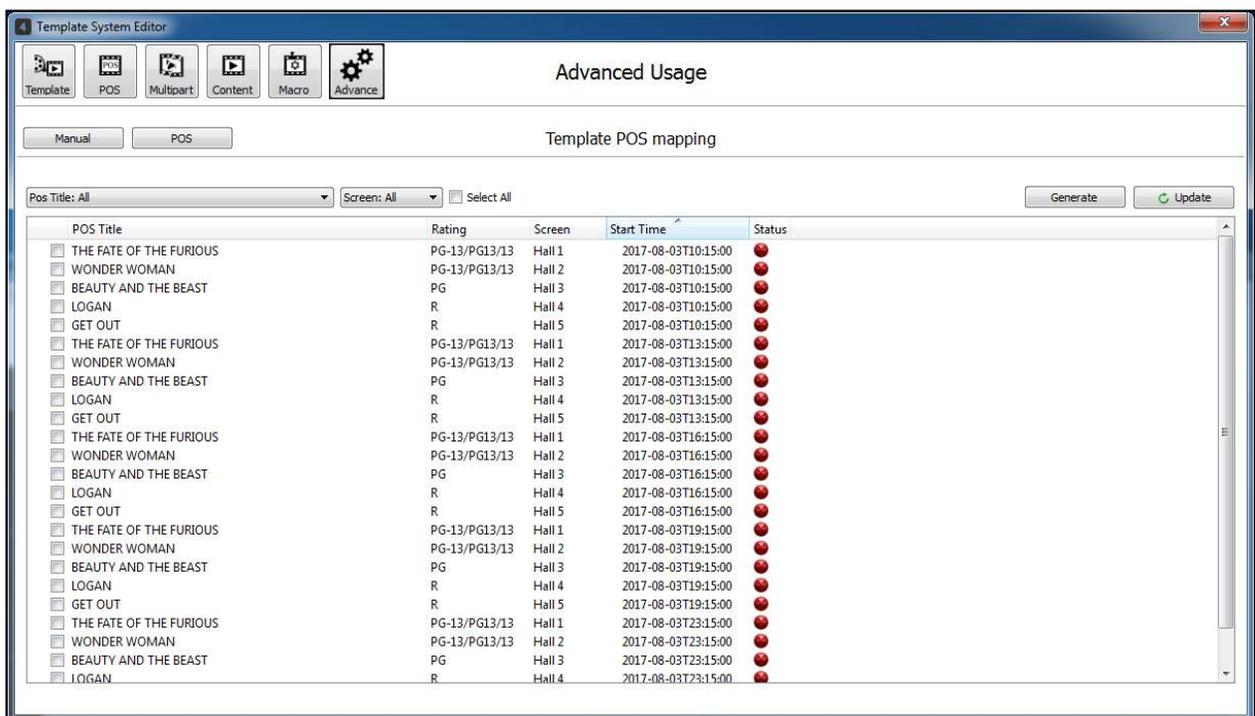
The selection formats will be displayed below the 'Set format of feature CPL restriction' option.



6.1.3.6. Advance Usage Tab



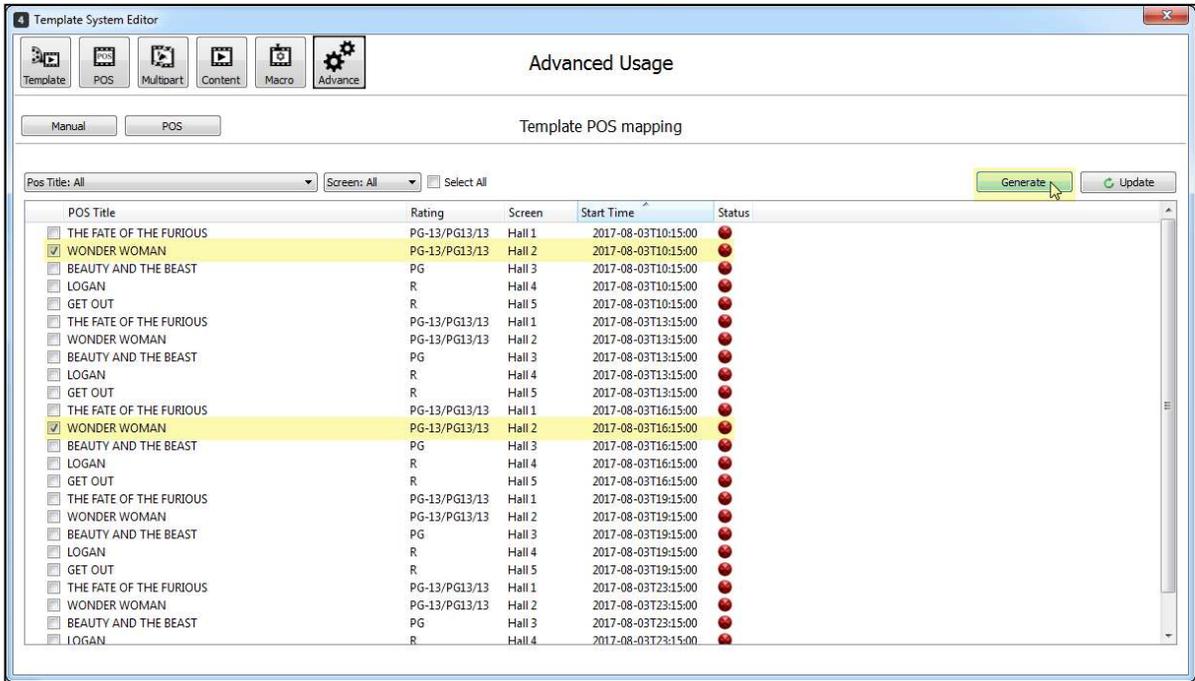
By clicking **[Advance usage]** icon, the Advance Usage interface will be loaded as below. The default interface for Advance Usage tab is Template POS mapping (as shown below). This interface allows user to do manual template POS mapping and configure settings for POS Offset and Screenvision Media (SVM) options.



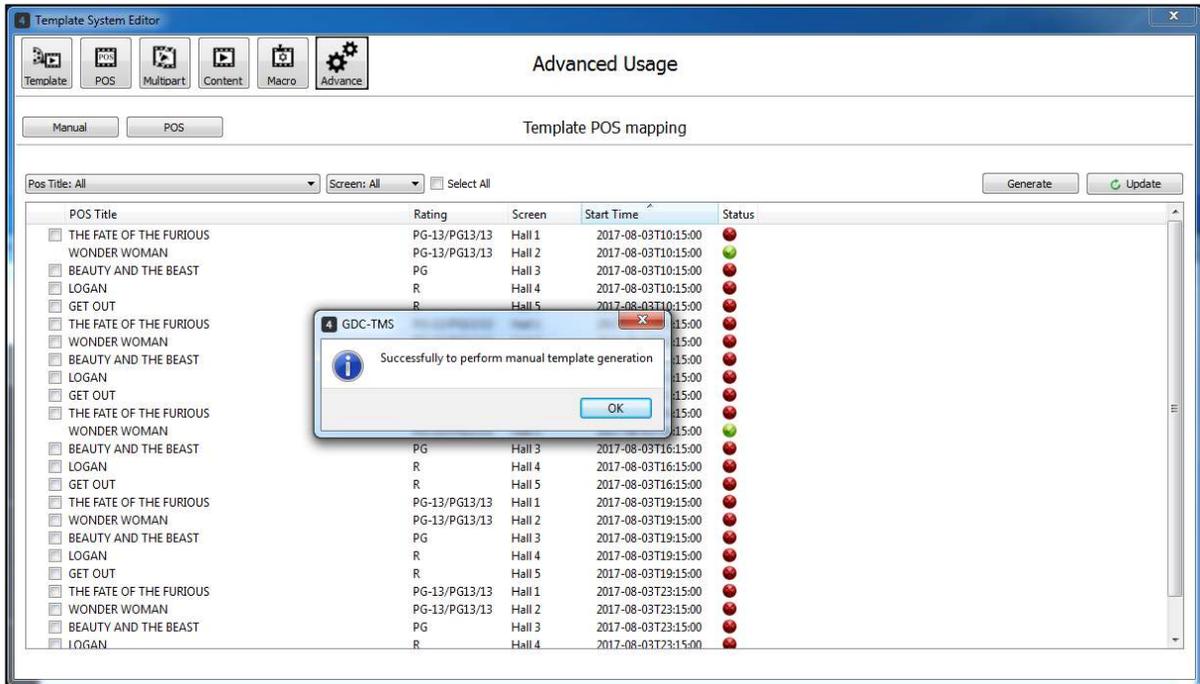
6.1.3.6.1. Manual Generation of Scheduled Show and Show Playlist

Advance Usage tab provides user an interface to let users manually generate template system tasks such as POS schedules and show playlist. User can manually generate template system task in few ways: per each show entry, per POS title, and per screen. To manually generate template system task, select a POS show entry in the list, then click **[Generate]** button.

6. SCHEDULER TAB



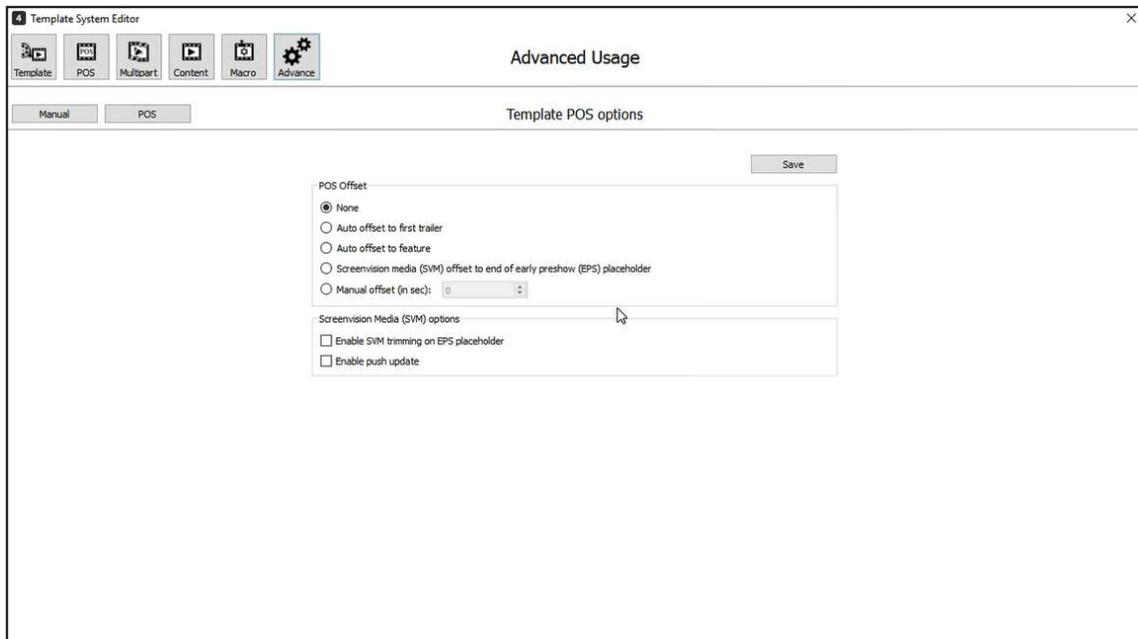
In the scenario above, POS Title “WONDER WOMAN” with Start Time “2017-08-03T10:15:00” and “2017-08-03T16:15:00” is selected, once the user clicks the **[Generate]** button, template system will generate its corresponding schedules and show playlist.



Checkbox for selection of POS Titles will only be available to the user if the POS Titles are not yet mapped. Before manually generating template POS schedules, the POS status icon is red 🟡 while icon of mapped show is green 🟢.

6.1.3.6.2. Template POS Options

To configure settings for POS Offset and Screenvision Media (SVM) options, click **[POS]** button in the Advanced Usage interface. Once POS offset is configured, template system should generate POS schedules based on the option that is selected by user.



Under POS Offset section, user can configure POS Offset settings by selecting one of the options provided. Default POS Offset configuration is set to None. The following are the offset options available for the user:

- **Option: “None”**
If this option is selected, no POS offset will take effect once POS schedules are created by template system
- **Option: “Auto offset to first trailer”**
If this option is selected, POS schedules that are created by template system will align according to the first trailer type of content in the show playlist.

- **Option:** “Auto offset to feature”

If this option is selected, POS schedules that are created by template system will align according to the feature content in the show playlist.

- **Option:** “Screenvision media (SVM) offset to end of early preshow (EPS) placeholder”

If this option is selected, POS schedules that are created by template system will align after the last content of the early preshow (EPS) placeholder in the show playlist.

- **Option:** “Manual offset (in sec)”, wherein user needs to define the offset.

POS Offset

None

Auto offset to first trailer

Auto offset to feature

Screenvision media (SVM) offset to end of early preshow (EPS) placeholder

Manual offset (in sec): 60

If this option is selected, POS schedules that are created by template system will align according to the predefined offset of the user in seconds. In the scenario above, POS offset is set to 60 seconds, this means POS schedules that are created by template system will be 60 seconds earlier than the POS schedule time retrieved from POS File/URL.

During the template system creation of POS schedules, TMS can trim advertisement contents in the early preshow placeholder to prevent schedule overlap. This is done by ticking the **[Enable SVM trimming on EPS placeholder]** checkbox in Screenvision Media (SVM) options section.

Screenvision Media (SVM) options

Enable SVM trimming on EPS placeholder

The ‘Enable push update’ setting allows the TMS Template system to automatically update any changes made by ScreenVision to the XML packs.

Screenvision Media (SVM) options

Enable SVM trimming on EPS placeholder

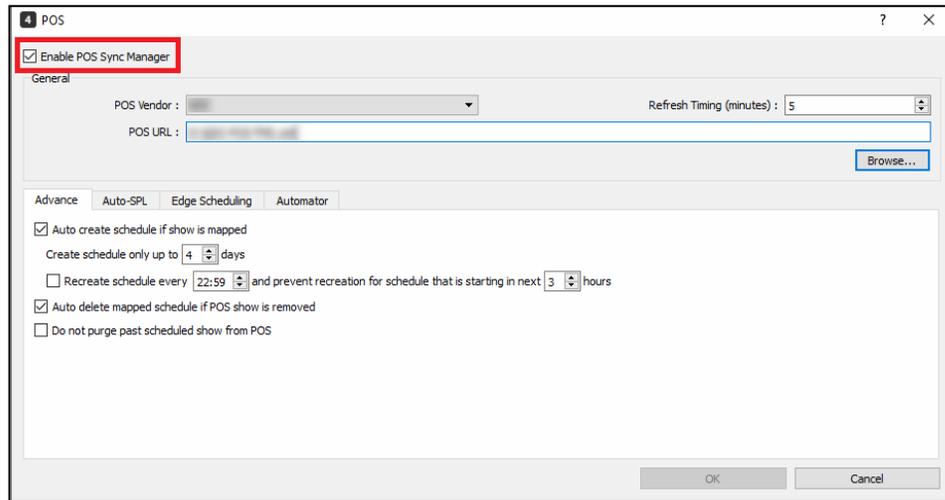
Enable push update

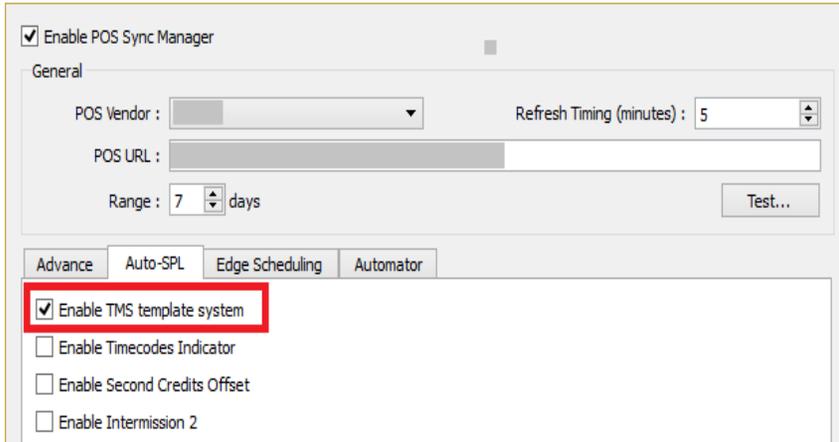
Click **[Save]** button to save the changes for POS Offset and Screenvision Media (SVM) options.

6.1.3.6.3. Typical Scenario/Example for POS Scheduling

6.1.3.6.3.1. Configure POS Settings

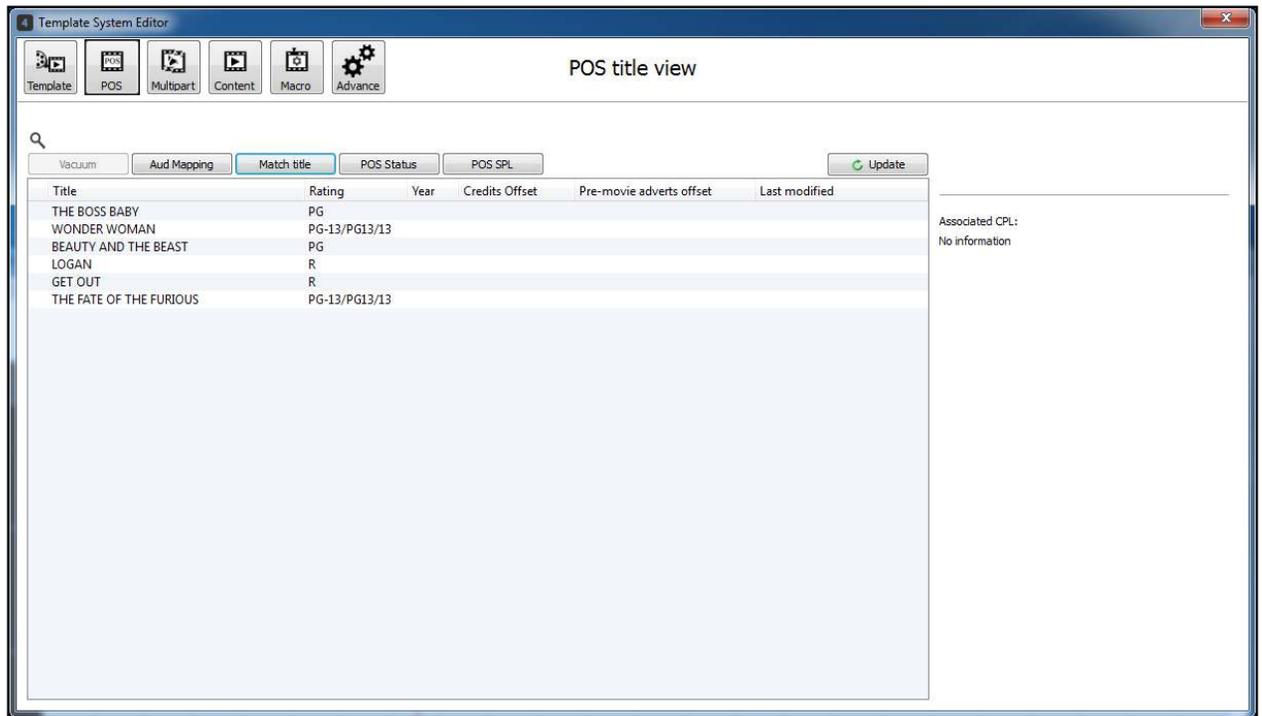
Click [Tools], [Preferences], [POS]. The POS window will pop up.

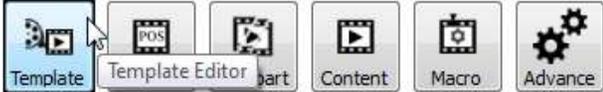
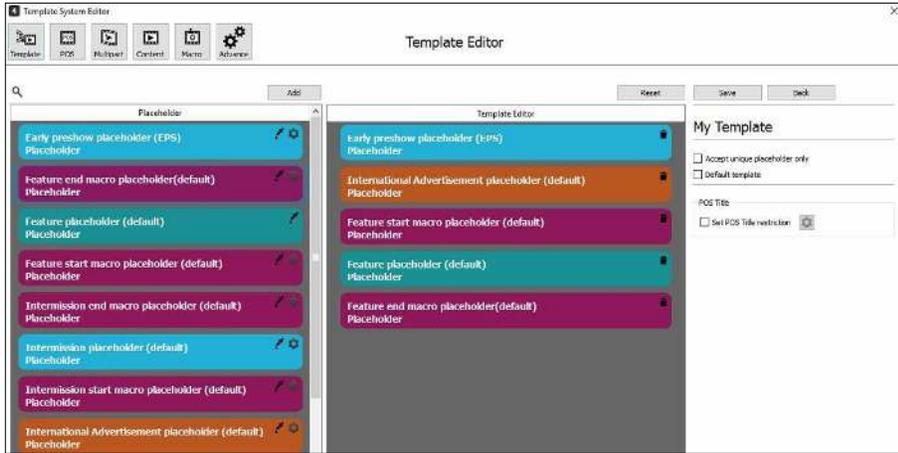


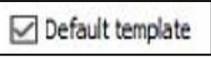
<p>Step 1:</p>	<p>Tick [Enable POS Sync Manager] checkbox to enable POS system and select a POS Vendor. In this case, the POS Vendor used is RADIANT – v1.5. Then enter the POS URL, set the refresh timing, authentication token, and range for TMS schedule syncing.</p>
<p>Step 2:</p>	<p>In the advance section, tick [Auto create schedule if show is mapped] checkbox.</p>
<p>Step 3:</p>	<p>In the advance section, tick [Enable TMS template system] checkbox.</p> 

6.1.3.6.3.2. Manage Template

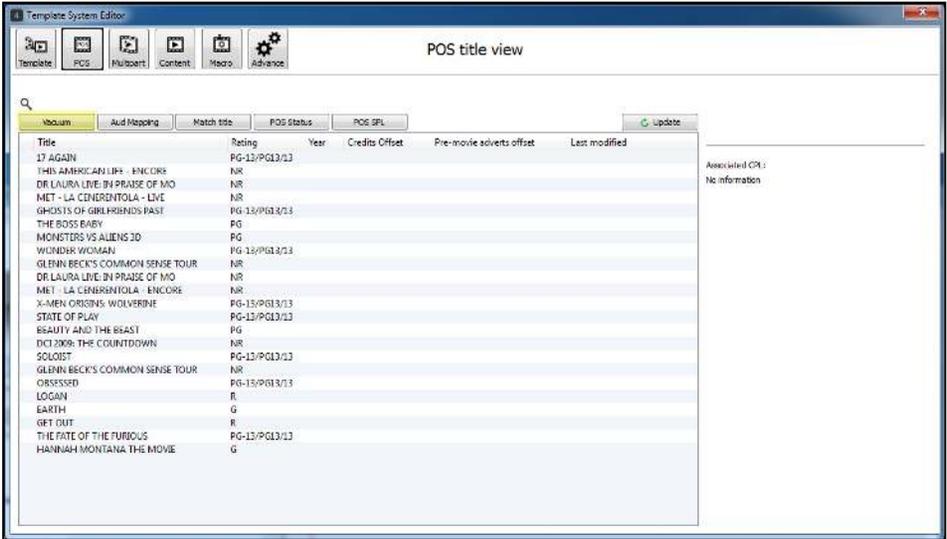
Go to Scheduler tab, click **[POS]**, the Template System Editor will pop up. POS title view is the default interface of Template System Editor.

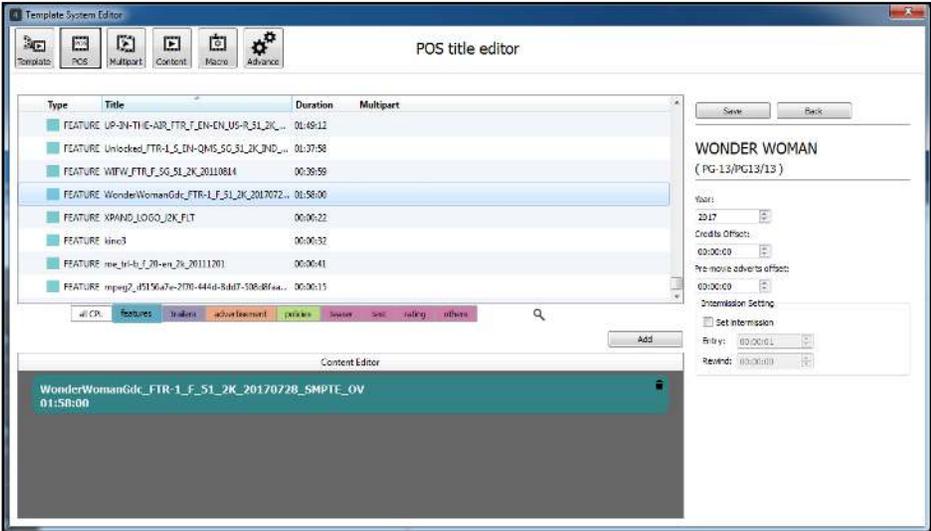


<p>Step 1:</p>	<p>Switch to Template view by clicking Template Editor tab.</p> 
<p>Step 2:</p>	<p>Double-click General Template (default) to manage. Template editor interface will be shown.</p> 

<p>Step 3:</p>	<p>Set the Default template by ticking Default Template checkbox.</p> <div style="text-align: center;">  </div> <p>Note: There can be only one Default Template at any given point of time.</p>
<p>Step 4:</p>	<p>Click [Save] to save the setting of the template.</p>

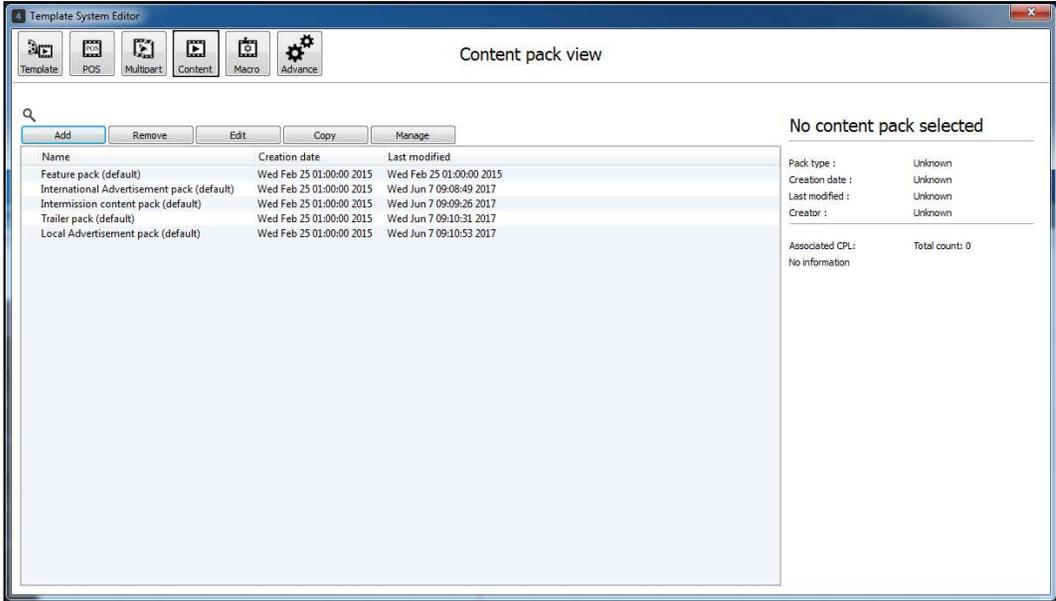
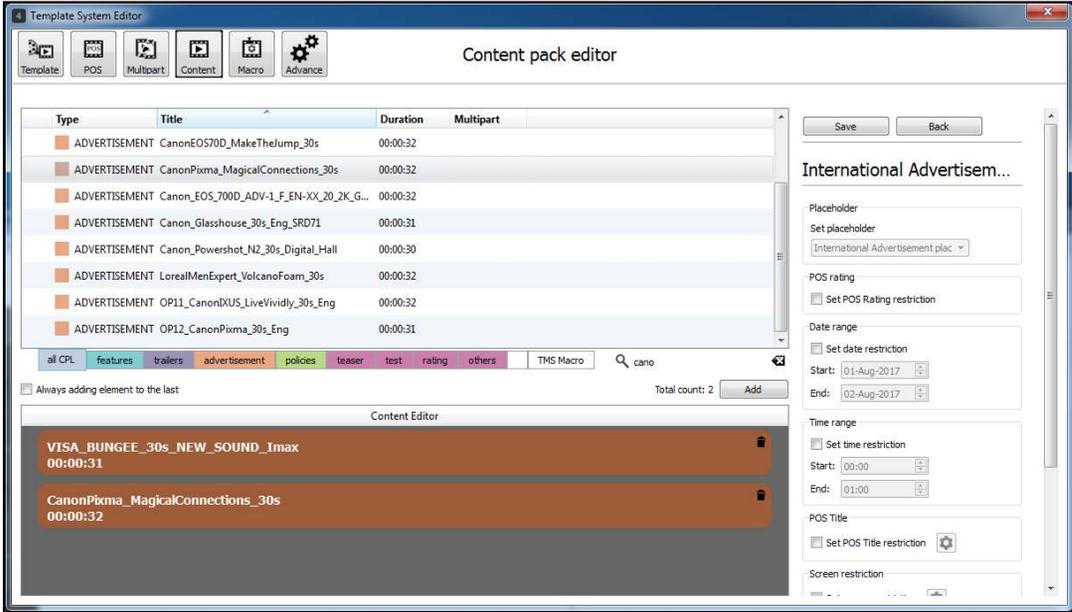
6.1.3.6.3.3. Manage POS Title

<p>Step 1:</p>	<p>Switch to POS title view by clicking POS Title Editor tab.</p> <div style="text-align: center;">  </div>
<p>Step 2:</p>	<p>A list of CPL title will be displayed in POS title view.</p> <p>Click the [Vacuum] button to remove the title that are no longer in POS system.</p> <div style="text-align: center;">  </div>
<p>Step 3:</p>	<p>Double-click the title to associate feature CPL to it.</p>
<p>Step 4:</p>	<p>Click [features] tab, a list of feature CPL will be shown.</p> <p>Drag and drop the CPL that needs to be associated to the CPL title to Content Editor panel.</p> <p>In this case, WonderWomanGdc_FTR-1_F_51_2K_20170728_SMPTE_OV is dropped to Content Editor.</p>

	
<p>Step 5:</p>	<p>Click [Save] to save the feature pack.</p>

6.1.3.6.3.4. Manage Content Pack

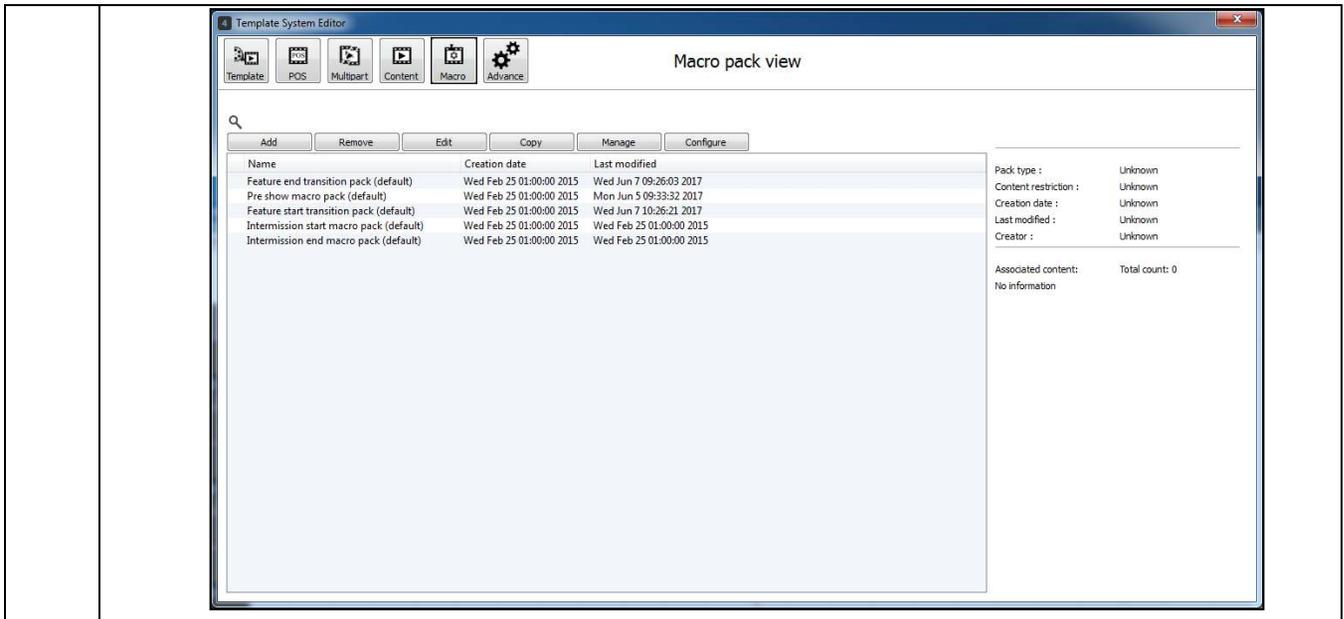
<p>Step 1:</p>	<p>Switch to Content pack view by clicking Content Pack Editor tab.</p> 
<p>Step 2:</p>	<p>A list of default content pack will be displayed in Content pack view.</p>

	
<p>Step 3:</p>	<p>Double-click each content pack to associate corresponding CPLs. (In this case, we demonstrate International Advertisement pack.)</p> <p>Drag and drop the following contents into the Content Editor:</p> <ul style="list-style-type: none"> - VISA_BUNGEE_30s_NEW_SOUND_Imax - CanonPixma_MagicalConnections_30s 
<p>Step 4:</p>	<p>Tick [Set screen restriction] checkbox, tick Hall 1 and Hall 2, then click [OK].</p>

	
<p>Step 5:</p>	<p>Click [Save] to save the content pack.</p>

6.1.3.6.3.5. Manage Macro Pack

<p>Step 1:</p>	<p>Switch to Macro pack view by clicking Macro Pack Editor tab.</p> 
<p>Step 2:</p>	<p>A list of default macro pack will be displayed in Macro pack view.</p>

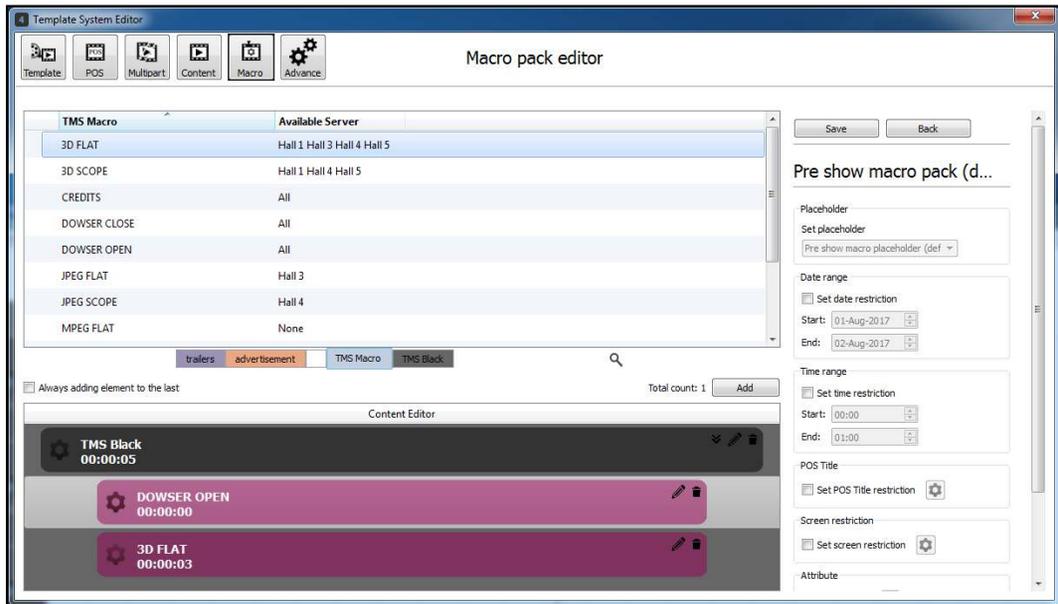


Step 3: Double-click each macro pack to associate corresponding CPLs.

(In this case, we demonstrate Feature start transition pack.)

Drag TMS Black (10 secs) from TMS Black tab and 3D FLAT from TMS Macro tab, then drop into Content Editor. Drag and drop the following contents into the Content Editor:

- **TMS Black (5 secs)** from TMS Black tab
- **OPEN DOWSER** from TMS Macro tab where cue point is set to 00:00:00
- **3D FLAT** from TMS Macro tab where cue point is set to 00:00:03



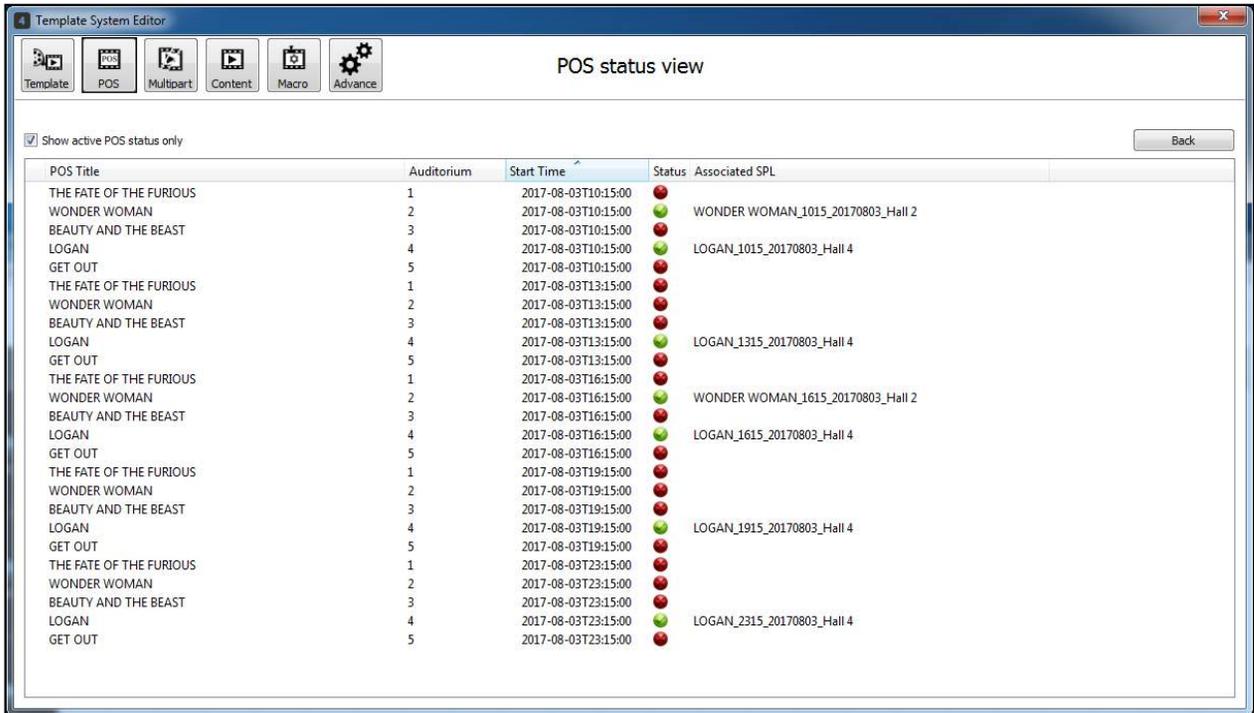
Step 4: Tick [Set screen restriction] checkbox, tick Hall 1 and Hall 2, then click [OK].

Step 5:	Click [Save] to save the macro pack.

6.1.3.6.3.6. POS status view

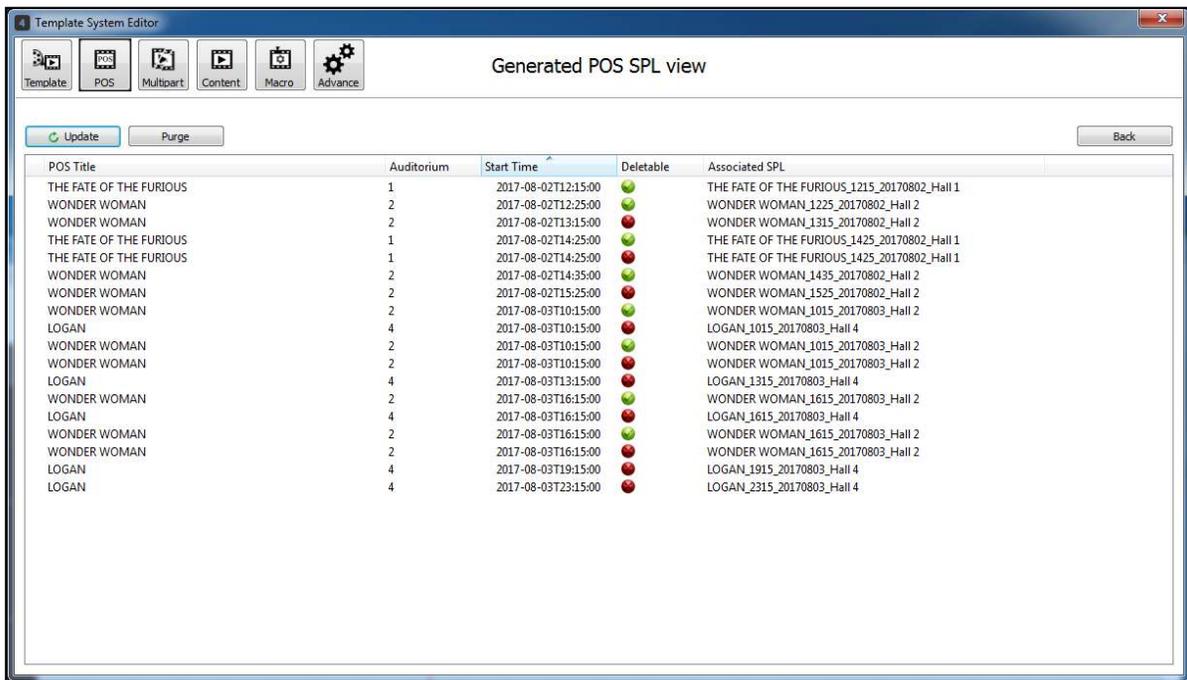
POS status view interface provides an overview of the POS Title status and its associated SPL/s generated by the template system. To access POS status view, click the **[POS Title Editor]** icon, then click **[POS Status]** button, POS status view interface will be loaded.

POS Status view table can be filtered by showing only the active POS status only by ticking **[Show active POS status only]** checkbox.



6.1.3.6.3.7. Generated POS SPL view

Generated POS SPL view provides a list of SPLs that were generated by template system. User can access the Generated POS SPL view by clicking the **[POS Title Editor]** icon then click **[POS SPL]** button, Generated POS SPL view interface will be loaded.



Purge function allows users to remove SPLs generated by the template system that is no longer mapped to any of the POS schedules. To purge unused SPLs for template system, click **[Purge]** button.



A pop-up dialog will prompt to the user, click **[OK]** to continue with the deletion of unused SPL in the list. Click **[Update]** to update the list of SPLs that were generated by template system.

Note: Purging of unused SPLs will not happen when the POS Sync is in progress.

6.1.3.6.3.8. Check on Scheduler Tab

Close Template System Editor, then switch to **Scheduler** Tab.



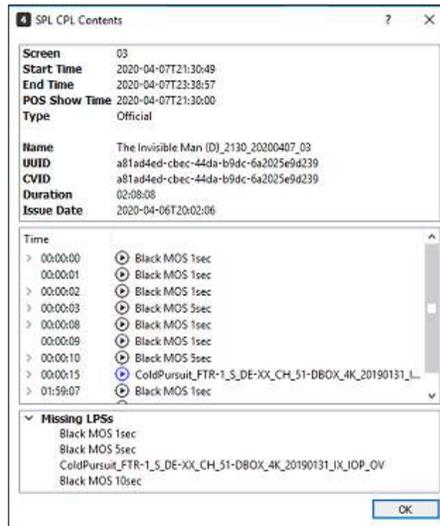
Wait for the next POS syncing cycle (in this case, POS syncing interval is 30 minutes). When POS sync done, notice that SPLs, CPLs, and SCHs are transferred to Hall 1 and Hall 2. Schedule shows also being generated automatically and displayed in the scheduler timeline. Refer to **Section 6.2.** for more details on schedules.

6.2. View Schedules

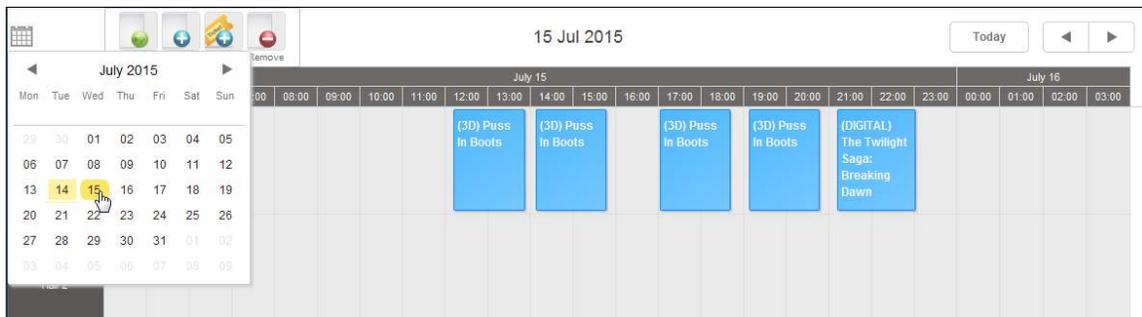
When the mouse cursor is on the scheduled show, a pop-up window will show the Start and End time of the SPL.



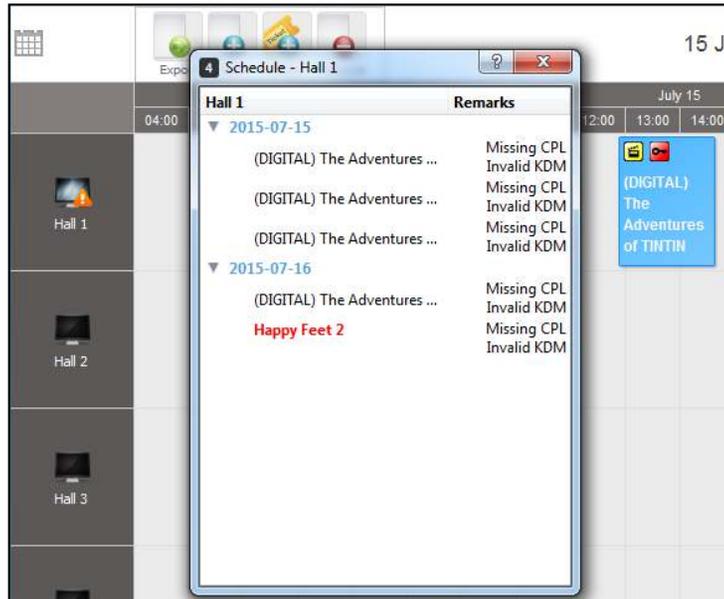
To see the full details of the SPL, user can double-click the scheduled show and a pop-up window will be shown as below.



Click **[calendar]** icon located on the top left corner or use the left and right arrows located on the top right corner to switch viewing schedules on other days.



When a warning icon  is shown beside the connected screen, it indicates error in the SPL, double-click the connected screen  to check the remarks column, which will indicate the type of errors. A yellow key means that the scheduled SPL has missing CPL and a red key means that the scheduled SPL has no valid KDMs available in the server.



To check the Schedules error, click the schedule icon. Detailed Server Playlist information will be shown and the type of errors will be indicated below it.



6. SCHEDULER TAB

Screen : Hall 1
Start Time : 2015-07-15T12:50:00 End Time : 2015-07-15T14:52:01
Duration : 2h 2m 1s Type : Official
SPL Name : (DIGITAL) The Adventures of TINTIN : (DIGITAL) The Adventures of TINTIN
SPL UUID : 22e20ec5-ed2c-462f-b185-948255d06bb4 : 50

Done

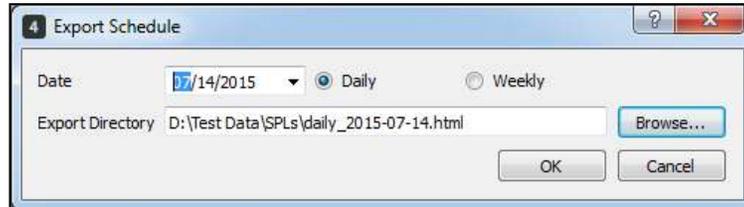
00:01:00 COCA_COLA 00:01:00	00:03:31 LORAX-3D_TLR- B_S_EN-XX_INT_51_... 00:02:31	00:05:59 DESPICABLE- ME-2_TLR-C_F_EN- 00:02:28	00:07:59 SURFS UP 00:02:00
--	---	---	---

< ||| >

- Missing CPLs (1):
DESPICABLE-ME-2_TLR-C_F_EN-XX_INT_51_2K_UP_20130307_MPS_i3D_OV
- CPLs with invalid KDMs (1):
GREEN-LANTERN-3D_FTR_S_CMN-CMN_INT_51_2K_WR_20110826_TDC_i3D

6.3. Export Schedules

To export the Server schedules, click **[Export Schedule]** button. Select and choose to export Daily or Weekly schedules and click **[OK]**. The file will be saved as html format.



After schedule is exported, the schedules can be viewed in a web browser.

Example of an exported Daily Schedule is shown as below.

Daily Schedule				
Date generated: Tuesday, May 27, 2014				
Cinema	Screening Date	SPL Name	SPL Duration	Remarks
Screen Hall 1	27-May	Need For Speed [3D] 15:59 18:01 20:15	01:57	
Screen Hall 2	27-May	Lone Survivor [2D] 17:24 20:00 22:30	02:05	
Screen Hall 3	27-May	The Art of The Steal [2D] 17:30 20:30 23:30	01:48	

6. SCHEDULER TAB

Example of an exported Weekly Schedule is shown as below.

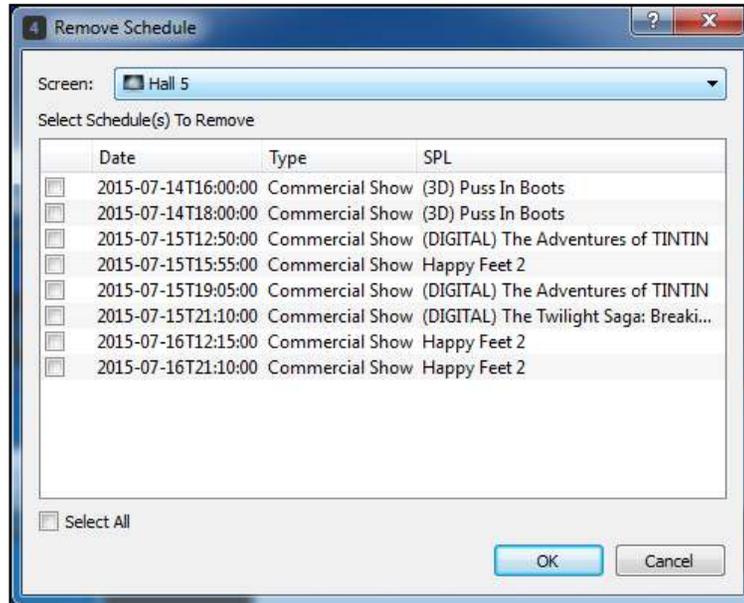
Weekly Schedule

date generated: Friday, March 07, 2014

Cinema			FRI 07-Mar	SAT 08-Mar	SUN 09-Mar	MON 10-Mar	TUE 11-Mar	WED 12-Mar	THU 13-Mar	Remarks	
Screen Hall 1	Need For Speed [2D]	01:57	19:00	19:00	19:00	19:00	19:00	19:00	19:00		
	300: RISE OF AN EMPIRE [2D]	01:12	16:00 17:30								
Screen Hall 3	Lone Survivor [3D]	02:07	01:25	01:25	01:25	01:25	01:25	01:25	01:25		
			19:25 22:25								
Screen Hall 7	The Art of the Steal [2D]	01:39	00:00	00:00	00:00	00:00	00:00	00:00	00:00		
			02:15	02:15	02:15	02:15	02:15	02:15	02:15	02:15	
			18:28	18:28	18:28	18:28	18:28	18:28	18:28	18:28	
			20:15 22:00								

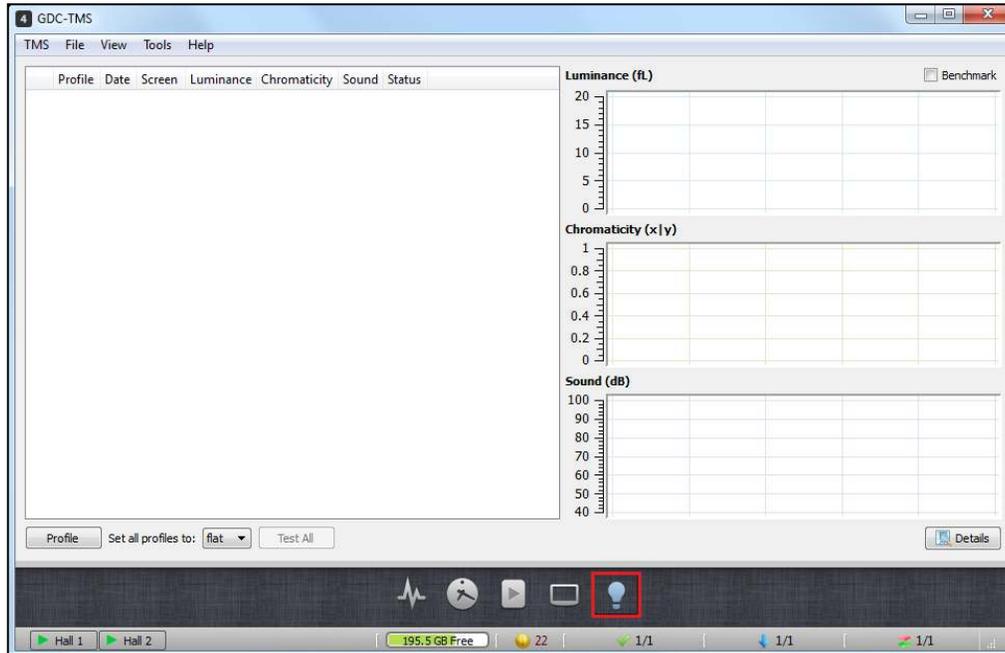
6.4. Remove Schedule

To remove schedule, first select a screen, then click **[Remove]** button. From the SPL dropdown box, select the schedule to be removed. After selection, click **[OK]** button. There is a **[Select All]** option to remove all schedules.



7. QUALITY TAB

TMS-2000 with QMS-1000 will have a **QUALITY** tab in the graphical user interface which allows cinema auditorium quality control.



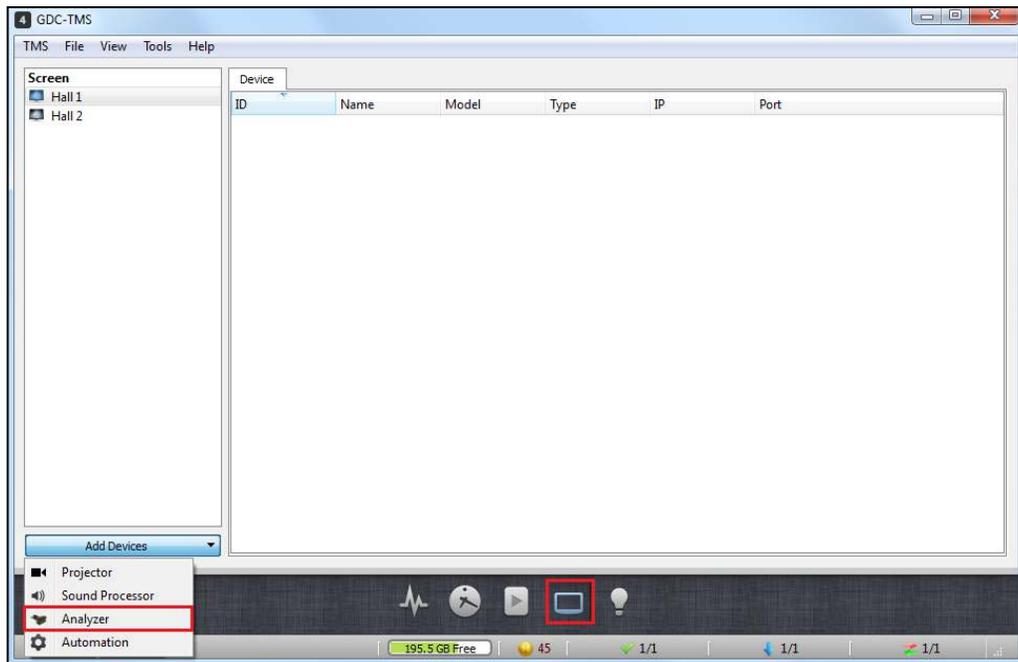
The supported tests and setup include:

Mode	Single Projector	Dual Projector
2D	Using 1 projector	Using 1 projector
2D		Using 2 projectors
3D	Using 1 projector	Using 2 projectors

The sensor device needs to be added to TMS Software. Additionally, test content needs to be ingested into playback Servers and correct naming SPLs must be created in the playback Servers as well.

7.1. Add Sensor device to TMS Software

For sensor device to work with the TMS-2000, it must be added as a device and linked to a screen. From TMS-2000 software, select **Screen** → **Add Devices** → **Analyzer**, as shown in the image below.



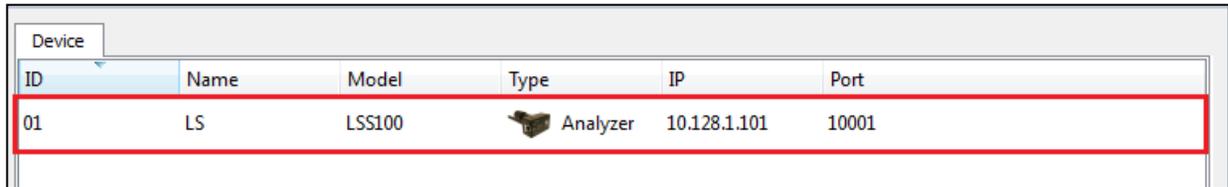
Select the *Device Model*, enter the *ID*, *Name*, *IP address* and *Port number*, and select the *Device* which is linked to the server, and click “**OK**”, as shown in the image below.

The 'Device' dialog box contains the following fields and options:

- Type: Analyzer
- Model: LSS100 (dropdown menu)
- ID: [Empty text box]
- Name: [Empty text box]
- IP: [Empty text box]
- Port: 10001 (spin box)
- UID: [Empty text box]
- Password: [Empty text box]
- Link to: Hall 1 (dropdown menu)

Buttons: OK, Cancel

An entry will be shown below that the Analyzer is successfully linked to selected screen, as shown in the image below:



The image shows a screenshot of a software interface with a tab labeled 'Device'. Below the tab is a table with the following columns: ID, Name, Model, Type, IP, and Port. The first row of data is highlighted with a red border. The data in this row is: ID: 01, Name: LS, Model: LSS100, Type: Analyzer (with a small icon of a device), IP: 10.128.1.101, and Port: 10001.

ID	Name	Model	Type	IP	Port
01	LS	LSS100	 Analyzer	10.128.1.101	10001

7.2. Import and Distribution of Test Content and KDM

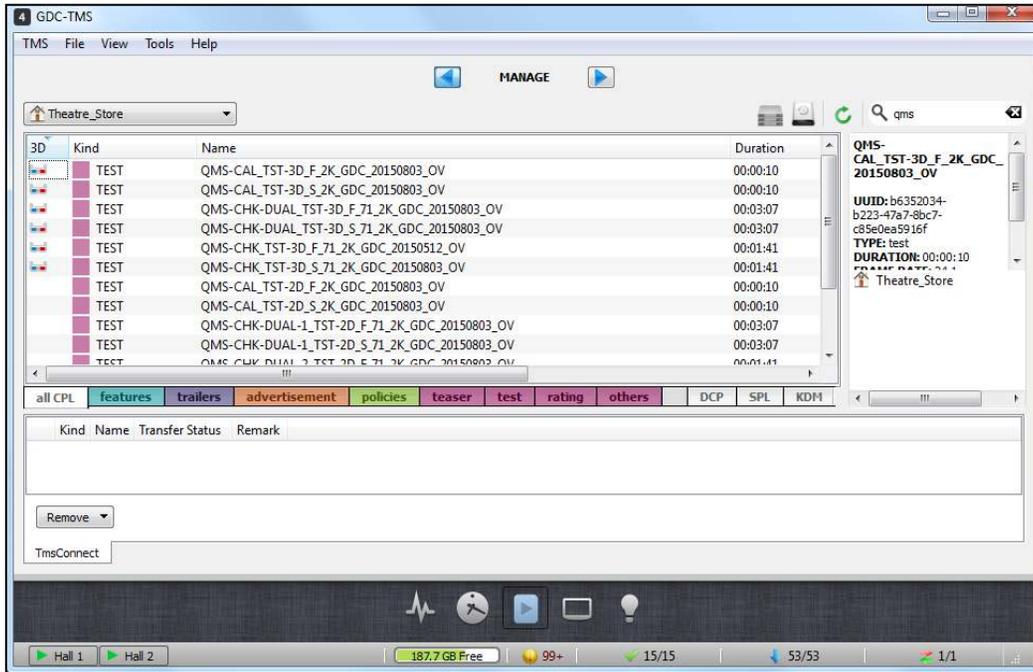
The table below shows all the test content* needed in the server. Connect the external hard disk drive with content and ingest all content into the server.

Sr. No	Content Name
1	QMS-CAL_TST-2D_F_2K_GDC_20150803_OV
2	QMS-CAL_TST-2D_S_2K_GDC_20150803_OV
3	QMS-CAL_TST-3D_F_2K_GDC_20150803_OV
4	QMS-CAL_TST-3D_S_2K_GDC_20150803_OV
5	QMS-CHK_TST-2D_F_71_2K_GDC_20150803_OV
6	QMS-CHK_TST-2D_S_71_2K_GDC_20150803_OV
7	QMS-CHK_TST-3D_F_71_2K_GDC_20150803_OV
8	QMS-CHK_TST-3D_S_71_2K_GDC_20150803_OV
9	QMS-CHK-DUAL_TST-3D_F_71_2K_GDC_20150803_OV
10	QMS-CHK-DUAL_TST-3D_S_71_2K_GDC_20150803_OV
11	QMS-CHK-DUAL-1_TST-2D_F_71_2K_GDC_20150803_OV
12	QMS-CHK-DUAL-1_TST-2D_S_71_2K_GDC_20150803_OV
13	QMS-CHK-DUAL-2_TST-2D_F_71_2K_GDC_20150803_OV
14	QMS-CHK-DUAL-2_TST-2D_S_71_2K_GDC_20150803_OV

** Kindly check with GDC for the latest QMS test content & corresponding KDMs.

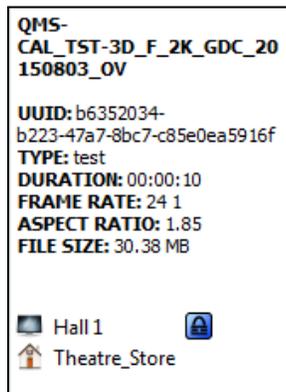
Import test content into TMS-2000 using external Hard Disk Drive or through FTP. Please refer to **Section 5.1.3.** (Ingest DCP/KDM through Local Machine) and **Section 5.1.4.** (Ingest DCP/KDM through FTP) for details on how to ingest content into the TMS-2000.

Once the ingestion is completed, the content will be added to the TMS theatre store as shown in the image below.



From *Theatre_Store*, transfer all the test content to the playback Server that will run the test. Refer to **Section 5.1.9**. (Content Transfer) for details on how to transfer content from TMS's theatre store to the playback servers.

Once the transfer is completed, the content will be stored in both *Theatre_Store* as well as the selected server, as shown below.



The content will not be able to playback without valid KDMs. The  icon in the below image indicates that the needed KDM is not yet available in the testing server.

3D	Kind	Name	Duration
	TEST	QMS-CAL_TST-3D_F_2K_GDC_20150803_OV	00:00:10
	TEST	QMS-CAL_TST-3D_S_2K_GDC_20150803_OV	00:00:10
	TEST	QMS-CHK-DUAL_TST-3D_F_71_2K_GDC_20150803_OV	00:03:07
	TEST	QMS-CHK-DUAL_TST-3D_S_71_2K_GDC_20150803_OV	00:03:07
	TEST	QMS-CHK_TST-3D_F_71_2K_GDC_20150512_OV	00:01:41
	TEST	QMS-CHK_TST-3D_S_71_2K_GDC_20150803_OV	00:01:41
	TEST	QMS-CAL_TST-2D_F_2K_GDC_20150803_OV	00:00:10
	TEST	QMS-CAL_TST-2D_S_2K_GDC_20150803_OV	00:00:10
	TEST	QMS-CHK-DUAL-1_TST-2D_F_71_2K_GDC_20150803_OV	00:03:07
	TEST	QMS-CHK-DUAL-1_TST-2D_S_71_2K_GDC_20150803_OV	00:03:07
	TEST	QMS-CHK-DUAL-2_TST-2D_F_71_2K_GDC_20150803_OV	00:01:41
	TEST	QMS-CHK-DUAL-2_TST-2D_S_71_2K_GDC_20150803_OV	00:01:41
	TEST	QMS-CHK_TST-2D_F_71_2K_GDC_20150512_OV	00:01:41
	TEST	QMS-CHK_TST-2D_S_71_2K_GDC_20150512_OV	00:01:41

QMS-CAL_TST-3D_F_2K_GDC_20150803_OV

UUID: b6352034-b223-47a7-8bc7-c85e0ea5916f

TYPE: test

DURATION: 00:00:10

FRAME RATE: 24.1

ASPECT RATIO: 1.85

FILE SIZE: 30.38 MB

Hall 1

Theatre_Store

Go to Theatre_Store, the “No” status under Transferred? column indicates that the KDMs in the Theatre_Store are yet to transfer to their corresponding servers.

Status	Content Name	KDM ID	Valid Before	Valid After	Transferred?
✓	QMS-CHK-DUAL-2_TST-2D_S_71_2K_GDC_20150803_OV	3f3230b7-9f43-...	2020-08-04T12:...	2015-08-03T12:...	No
✓	QMS-CHK-DUAL-1_TST-2D_S_71_2K_GDC_20150803_OV	af60eba6-960d-...	2025-01-01T08:...	2015-08-03T11:...	No
✓	QMS-CHK-DUAL-1_TST-2D_F_71_2K_GDC_20150803_OV	9ee278ae-8294-...	2020-08-04T11:...	2015-08-03T11:...	No
✓	QMS-CAL_TST-3D_S_2K_GDC_20150803_OV	1d2ef06f-6837-4...	2020-08-04T11:...	2015-08-03T11:...	No
✓	QMS-CAL_TST-3D_F_2K_GDC_20150803_OV	45b84787-367a-...	2020-08-04T15:...	2015-08-03T15:...	No
✓	QMS-CAL_TST-2D_F_2K_GDC_20150803_OV	41173a47-d604-...	2020-08-04T12:...	2015-08-03T12:...	No
✓	QMS-CHK_TST-3D_F_71_2K_GDC_20150512_OV	65ecce40-9998-...	2025-01-01T08:...	2015-05-13T16:...	No
✓	QMS-CHK-DUAL_TST-3D_F_71_2K_GDC_20150803_OV	5945e6c4-5e94-...	2020-08-04T12:...	2015-08-03T12:...	No
✓	QMS-CHK-DUAL-2_TST-2D_F_71_2K_GDC_20150803_OV	c863b865-c6ae-...	2020-08-04T12:...	2015-08-03T12:...	No
✓	QMS-CHK-DUAL-1_TST-2D_F_71_2K_GDC_20150803_OV	4a250337-c344-...	2020-08-04T11:...	2015-08-03T11:...	No
✓	QMS-CAL_TST-2D_S_2K_GDC_20150803_OV	5ab03d03-66ff-...	2020-08-04T11:...	2015-08-03T11:...	No
✓	QMS-CHK-DUAL_TST-3D_S_71_2K_GDC_20150803_OV	8aa79b85-c150-...	2020-08-04T12:...	2015-08-03T12:...	No
✓	QMS-CHK-DUAL-1_TST-2D_S_71_2K_GDC_20150803_OV	15ff7e70-d082-...	2020-08-04T11:...	2015-08-03T11:...	No
✓	QMS-CHK-DUAL-2_TST-2D_S_71_2K_GDC_20150803_OV	17762dd0-c6fc-...	2020-08-04T12:...	2015-08-03T12:...	No
✓	QMS-CAL_TST-3D_F_2K_GDC_20150803_OV	a5abd69e-4f13-...	2025-01-01T08:...	2015-08-03T15:...	No

Under the **KDM** tab, select the content that are needed to be sent to the testing server & right-click at the selected content. Click “Send” button to send

Theatre_Store

Status	Content Name	KDM ID	Valid Before	Valid After
✓	QMS-CAL_TST-2D_S_2K_GDC_20150803_OV	c0bbfd3c-a961-...	2020-08-04T11:...	2015-08-03T11:...
✓	QMS-CHK-DUAL_TST-3D_F_71_2K_GDC_20150803_OV	8aa79b85-c150-...	2020-08-04T12:...	2015-08-03T12:...
✓	QMS-CHK-DUAL-1_TST-2D_S_71_2K_GDC_20150803_OV	15ff7e70-d082-...	2020-08-04T11:...	2015-08-03T11:...
✓	QMS-CAL_TST-2D_S_2K_GDC_20150803_OV	5ab03d03-66ff-...	2020-08-04T11:...	2015-08-03T11:...
✓	QMS-CHK-DUAL_TST-3D_S_71_2K_GDC_20150803_OV	8aa79b85-c150-...	2020-08-04T12:...	2015-08-03T12:...
✓	QMS-CAL_TST-3D_F_2K_GDC_20150803_OV	3efab5a5-9b9b-...	2020-08-04T15:...	2015-08-03T15:...
✓	QMS-CHK-DUAL_TST-3D_F_71_2K_GDC_20150803_OV	a4a33fae-44a8-...	2020-08-04T12:...	2015-08-03T12:...
✓	QMS-CAL_TST-2D_F_2K_GDC_20150803_OV	41173a47-d604-...	2020-08-04T12:...	2015-08-03T12:...
✓	QMS-CHK-DUAL-1_TST-2D_S_71_2K_GDC_20150803_OV	4d37fa80-c7c1-...	2020-08-04T11:...	2015-08-03T11:...

Send

Purge expired KDMs (current view)...

Delete...

features trailers advertisement policies teaser test rating others DCP SPL KDM

Additionally, refer to the **Section 8.1**. for setting up TMS to automatically transfer KDMs to playback servers after ingestion into the Theatre store.

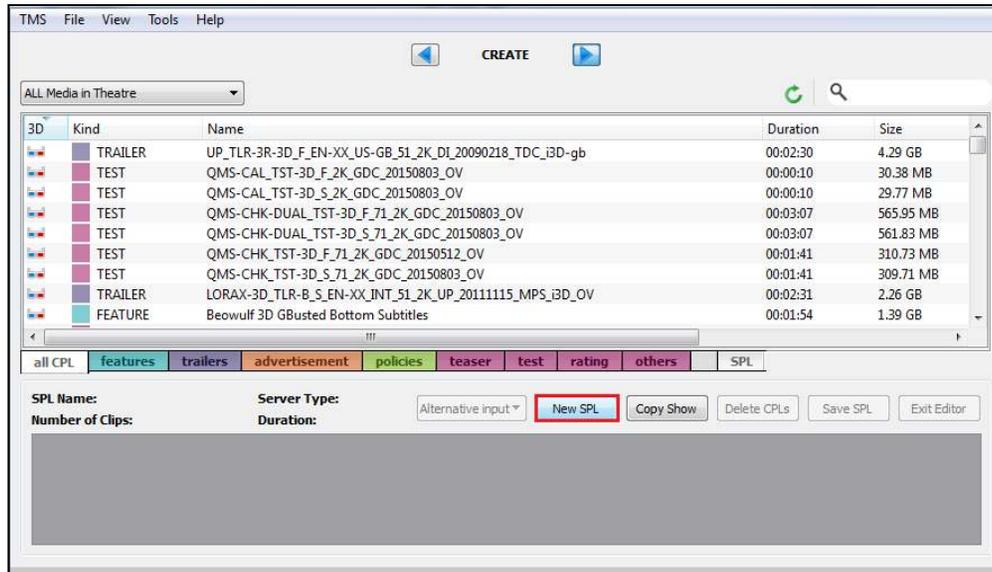
7.3. Server Playlist Creation and Transfer

After ingesting content**, Server Play Lists (SPLs) will be needed to be created and transferred to the server. There are 14 SPLs that need to be created on the playback server.

Sr. No	Server Play List Name (SPL)	Content Name
1	QMS-CHK-S	QMS-CHK_TST-2D_S_71_2K_GDC_20150803_OV
2	QMS-CHK-F	QMS-CHK_TST-2D_F_71_2K_GDC_20150803_OV
3	QMS-CHK-3D-S	QMS-CHK_TST-3D_S_71_2K_GDC_20150803_OV
4	QMS-CHK-3D-F	QMS-CHK_TST-3D_F_71_2K_GDC_20150803_OV
5	QMS-CHK-S-DUAL-1	QMS-CHK-DUAL-1_TST-2D_S_71_2K_GDC_20150803_OV
6	QMS-CHK-F-DUAL-1	QMS-CHK-DUAL-1_TST-2D_F_71_2K_GDC_20150803_OV
7	QMKS-CHK-S-DUAL-2	QMS-CHK-DUAL-2_TST-2D_S_71_2K_GDC_20150803_OV
8	QMKS-CHK-F-DUAL-2	QMS-CHK-DUAL-2_TST-2D_F_71_2K_GDC_20150803_OV
9	QMS-CHK-3D-S-DUAL	QMS-CHK-DUAL_TST-3D_S_71_2K_GDC_20150803_OV
10	QMS-CHK-3D-F-DUAL	QMS-CHK-DUAL_TST-3D_F_71_2K_GDC_20150803_OV
11	QMS-CAL-S	QMS-CAL_TST-2D_S_2K_GDC_20150803_OV
12	QMS-CAL-F	QMS-CAL_TST-2D_F_2K_GDC_20150803_OV
13	QMS-CAL-3D-S	QMS-CAL_TST-3D_S_2K_GDC_20150803_OV
14	QMS-CAL-3D-F	QMS-CAL_TST-3D_F_2K_GDC_20150803_OV

****Kindly check with GDC for the latest QMS test content & corresponding KDMs.**

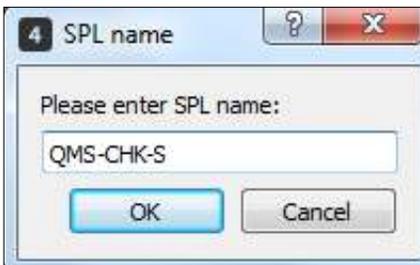
At Content Tab, select **Create**, and click "New SPL".



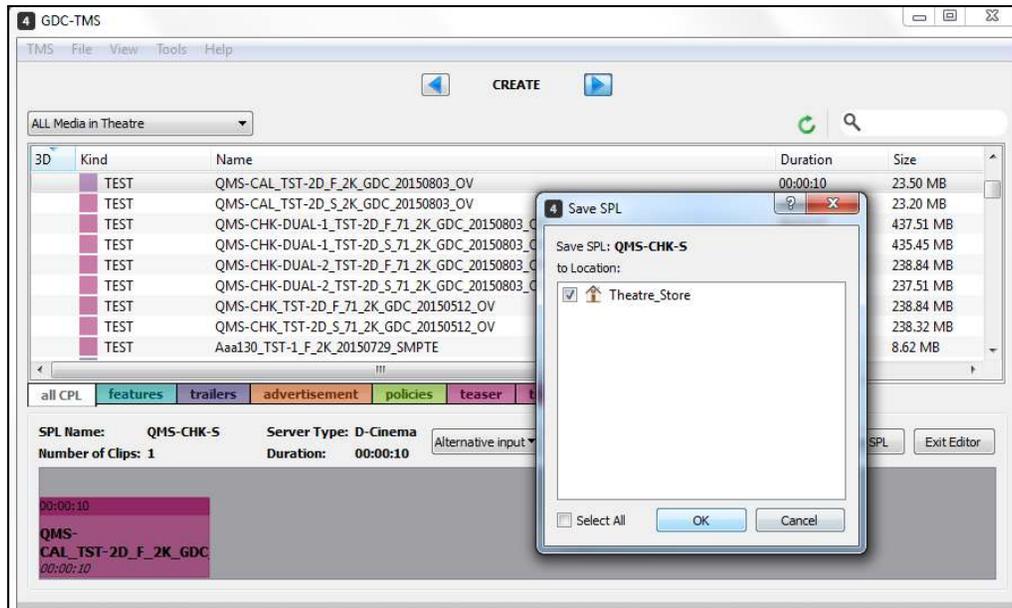
Server Type window will pop up. Click the drop-down menu and select **D-Cinema**, then click "OK" button.



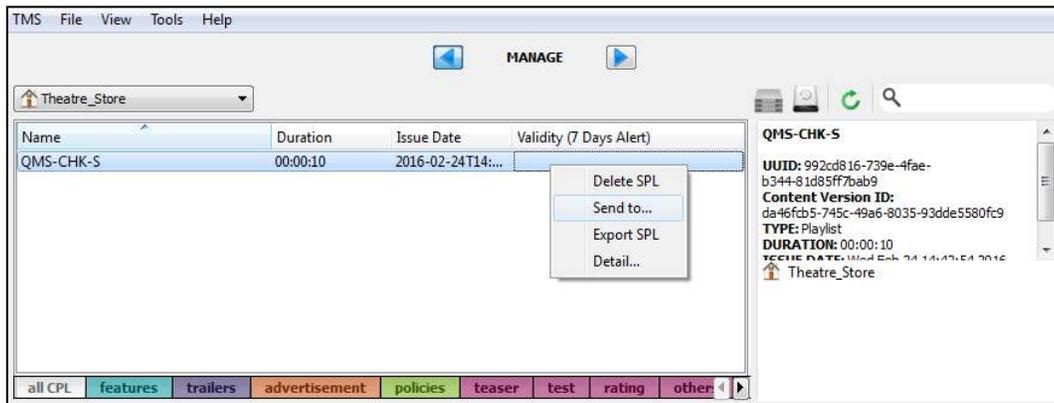
SPL name window will pop up. Enter the corresponding SPL name in the text box, then click "OK" button.



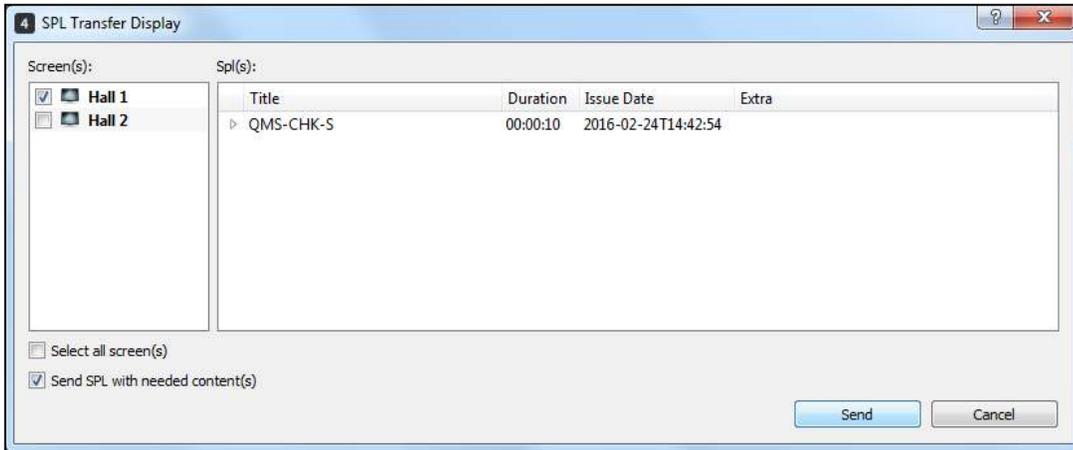
Select content [QMS-CHK_TST-2D_F_71_2K_GDC_20150803_OV] and drag into empty column below SPL Name, then click "Save SPL" button. Save SPL window will pop up. Check on Theatre_Store as the location and click "OK" button to save. The created SPL will be saved into Theatre_Store.



Go to **Content** Tab, manage, locate "QMS-CHK-S" SPL, right-click and select "Send to..."



SPL Transfer Display window will pop up. Check "Send SPL with needed content(s)". Then, check the destination server, then click "Send" button.

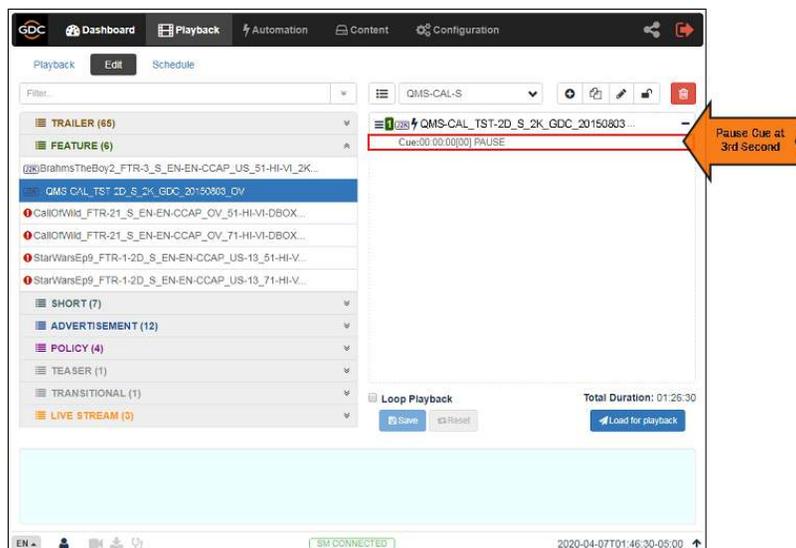


Click the Transfer  icon to check if the SPL is being transferred successfully.



Note: For the remaining 13 SPLs and contents, follow the same method of creating the first SPL used.

After all SPLs are created, a Pause automation cue at the 3rd second has to be added to both SPLs: 'QMS-CAL' and 'QMS-CAL-3D'. This Pause cue is needed, so that the projector can adjust its brightness.

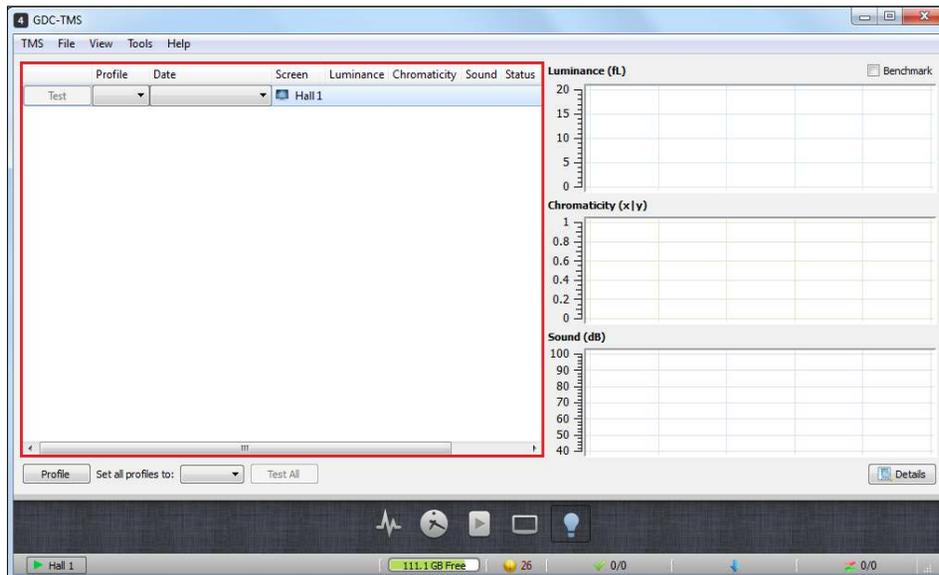


7.4. Profile Setup

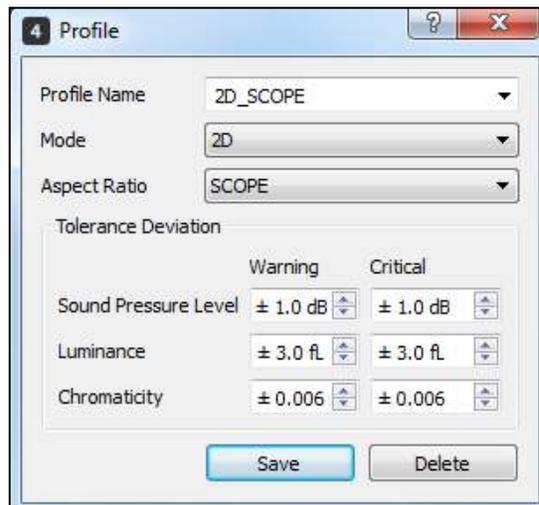
A new profile has to be created before running a test. There are 4 profiles to be setup.

Sr. No	Profile Name	Mode	Aspect Ratio
1	2D_Scope	2D	Scope
2	2D_Flat	2D	Flat
3	3D_Scope	3D	Scope
4	3D_Flat	3D	Flat

Go to **Quality** tab, click "Profile" which is located at the bottom left of TMS-2000 software.



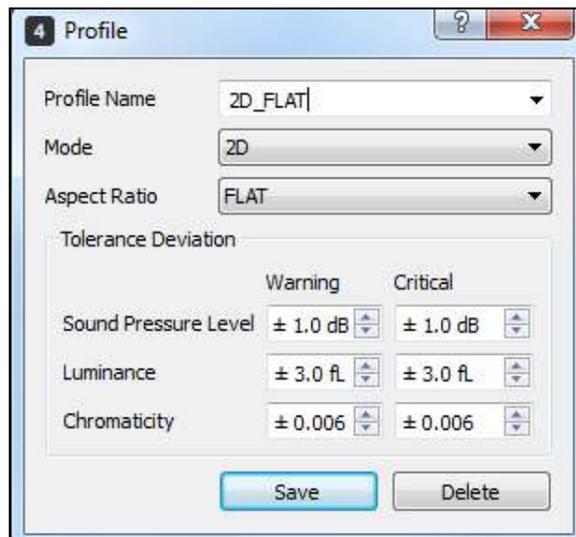
For 2D Scope profile, enter the Profile Name as 2D_SCOPE, select Mode as 2D, Aspect Ratio as SCOPE, enter the Warning and Critical values for Sound Pressure Level, Luminance and Chromaticity, or else user may also use the default values. Click "Save" button to save the settings.



The screenshot shows a dialog box titled "4 Profile" with a question mark icon and a close button. It contains the following fields and controls:

- Profile Name: 2D_SCOPE
- Mode: 2D
- Aspect Ratio: SCOPE
- Tolerance Deviation section:
 - Warning: Sound Pressure Level ± 1.0 dB, Luminance ± 3.0 fL, Chromaticity ± 0.006
 - Critical: Sound Pressure Level ± 1.0 dB, Luminance ± 3.0 fL, Chromaticity ± 0.006
- Buttons: Save, Delete

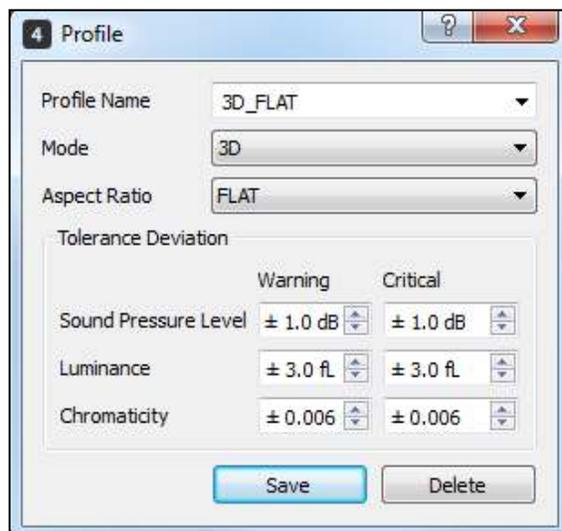
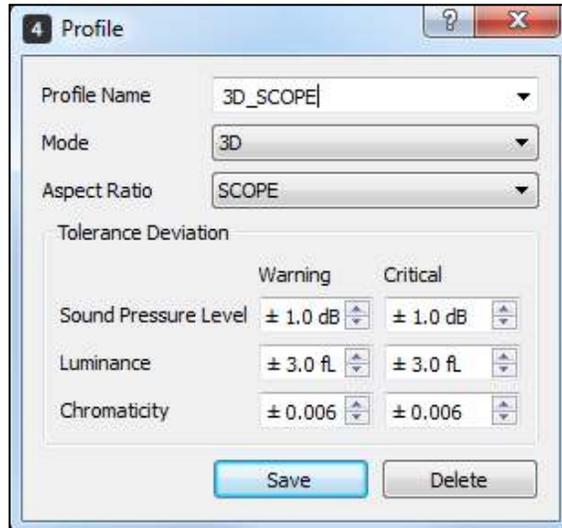
For 2D Flat profile, enter the Profile Name as 2D_FLAT, select Mode as 2D, Aspect Ratio as FLAT, enter the warning and Critical values for Sound Pressure Level, Luminance and Chromaticity, or else user may also use the default values. Click “Save” button to save the settings.



The screenshot shows a dialog box titled "4 Profile" with a question mark icon and a close button. It contains the following fields and controls:

- Profile Name: 2D_FLAT
- Mode: 2D
- Aspect Ratio: FLAT
- Tolerance Deviation section:
 - Warning: Sound Pressure Level ± 1.0 dB, Luminance ± 3.0 fL, Chromaticity ± 0.006
 - Critical: Sound Pressure Level ± 1.0 dB, Luminance ± 3.0 fL, Chromaticity ± 0.006
- Buttons: Save, Delete

For 3D profiles, user needs to create both Scope and Flat profiles. Select Mode 3D, Aspect Ratio, enter the profile name, input the tolerance values for sound pressure level, luminance and chromaticity, then click “Save” button to save.



When all four profiles, 2D_SCOPE, 2D_FLAT, 3D_SCOPE and 3D_FLAT have been created, click Profile to check on it.

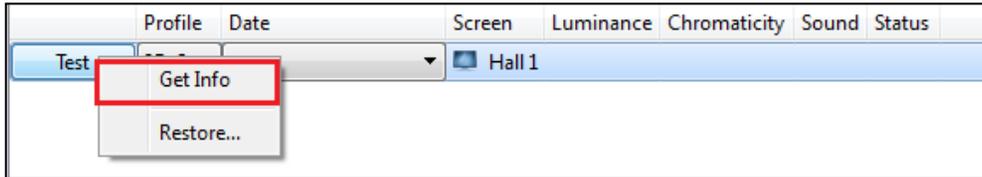
Test	Profile	Date	Screen	Luminance	Chromaticity	Sound
	2D_S		Hall 1			
	2D...PE					
	2D...AT					
	3D...PE					
	3D...AT					

Note:

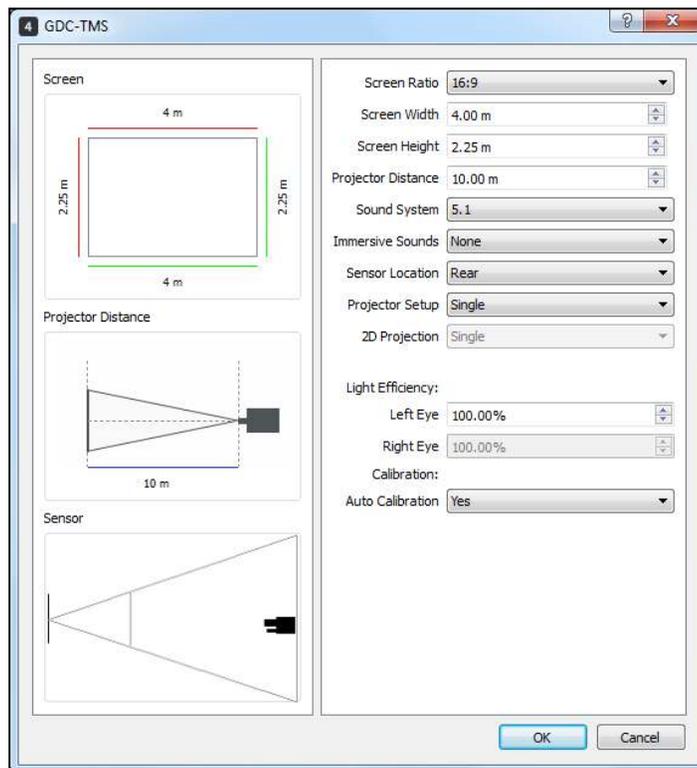
Recommended Warning Values	Recommended Critical Values
Sound Pressure Level: <u>0.5dB</u> Luminance: <u>1.5FL</u> Chromaticity: <u>0.003</u>	Sound Pressure Level: <u>1.0 dB</u> Luminance: <u>3.0FL</u> Chromaticity: <u>0.006</u>

7.5. Screen Information

Information of screen, projector and sensor device are needed to be entered in each cinema hall 2D/3D profile. Right-click Test and click "Get Info"



The auditorium data information window will be loaded.



Enter the Hall Screen information, Projector Distance, select Sound System type, Sensor Location and Projector Setup type.

<p>Screen</p> <p>4 m</p> <p>2.25 m</p> <p>2.25 m</p> <p>4 m</p>	Screen Ratio	16:9
	Screen Width	4.00 m
	Screen Height	2.25 m
	Projector Distance	10.00 m
	Sound System	5.1
	Immersive Sounds	Dolby Atmos
	Sensor Location	Rear

User should select Sensor installed location, it should be either Center or Rear location depending on initial sensor device physical installations.

Sensor Location

- Rear
- Center
- Rear

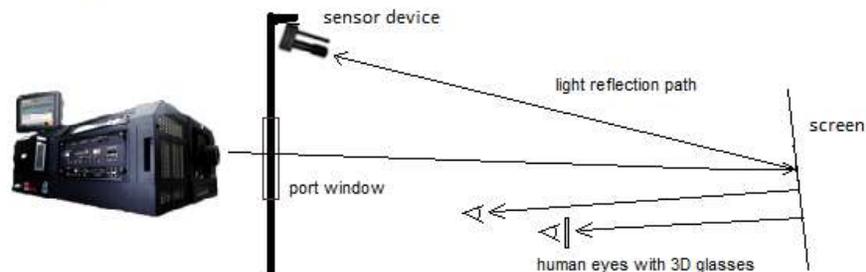
User should select the Single or Dual Projector used.

Projector Setup

- Single
- Single
- Dual

For Light Efficiency, as the sensor device is mounted in the hall, there is no light efficiency factor for 2D. For 3D, user needs to measure the 3D light efficiency value and input into the column for better measurement accuracy.

Light Efficiency Factor for 2D and 3D

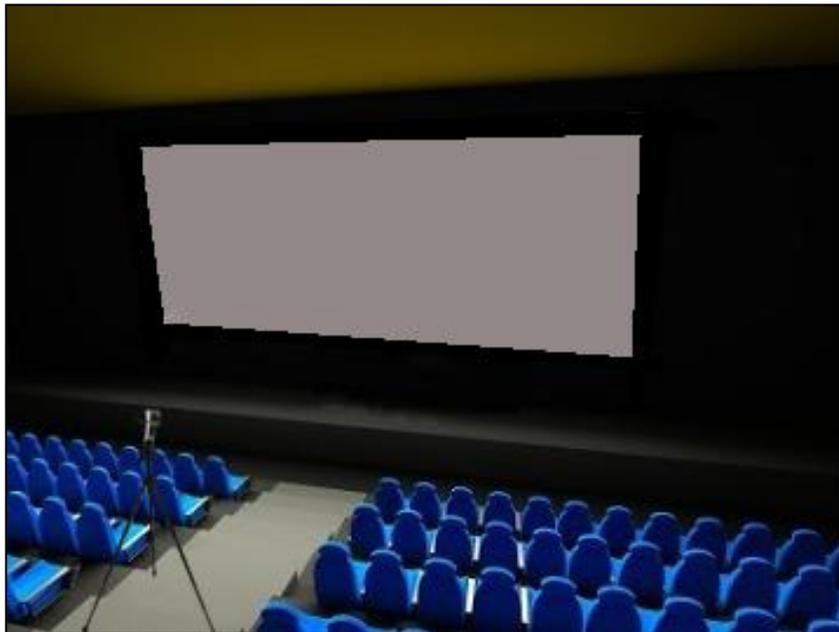


For 2D, the human eyes have a clear view to the screen without any external interference. For 3D, there is less light reflected to the human eyes due to the 3D glasses, and this light efficiency value can be calculated.

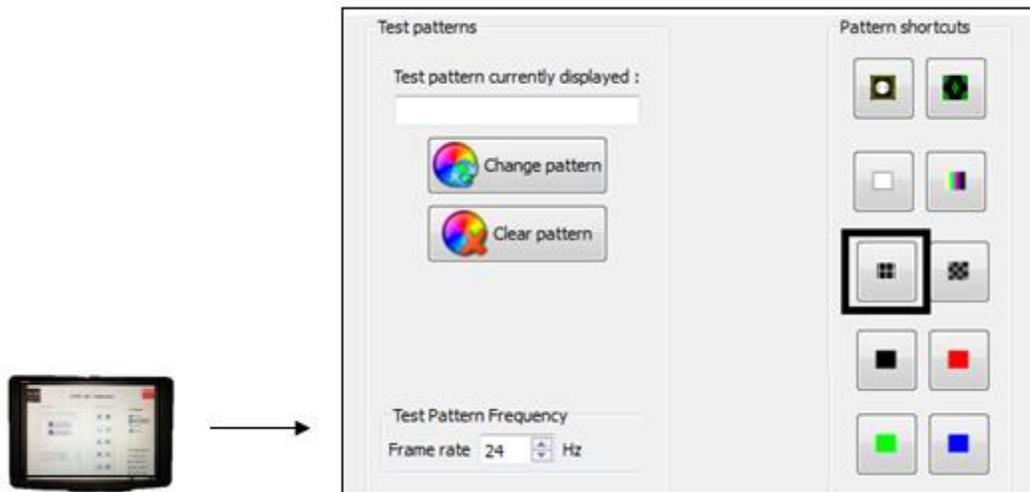
Connect Chroma meter to the mounting stand kit.



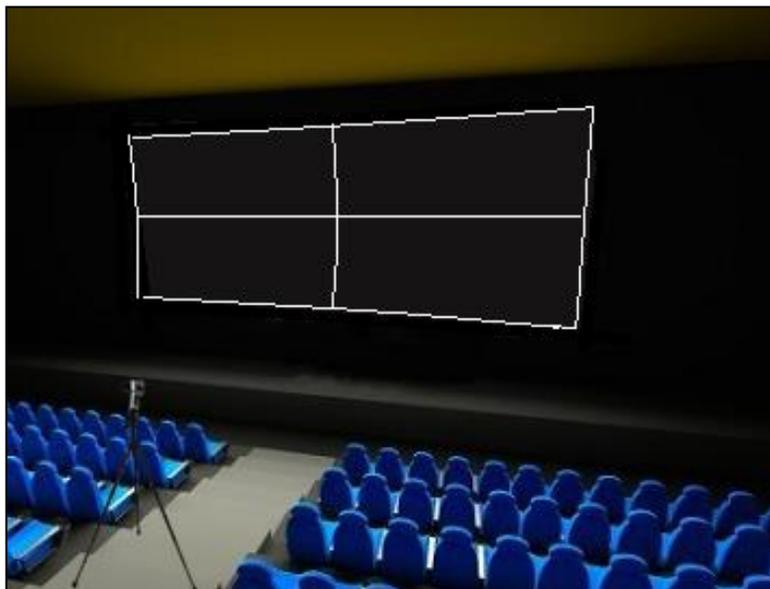
Put the Chroma meter to the center of the Auditorium, set the height of it to be around 1.5 meters.



From the Barco Projector, select Alignment Test Pattern as shown below, and click the icon to activate it.



Using the projected Test Pattern, look through the Chroma Meter and ensure that it is shooting to the centre of the it. Once it is aligned properly to the center, lock and secure the Chroma meter to the mounting stand.



Playback Full White Test Pattern from the server and measure the value of the brightness using the Chroma meter, record this value and it will be known as A.



Using the same setup, use a pair of 3D glasses and put it in front of the lens of the Chroma Meter, measure the value of the brightness, record this value and it will be known as B.



To get the 3D Light Efficiency value, it will be B/A. Once calculated, enter this value into the Light Efficiency Column for single projector Setup. Click OK, and it is completed.

Light Efficiency:

Left Eye

Right Eye

Note: If the setup is using a 3D Dual Projector, select "Dual" projector, use the same method as above to measure the values of the 2D and 3D setup of both the Left (Up) Projector and Right (Lower) Projector, input the values into the Light Efficiency columns

7.6. Running Tests

7.6.1. 2D Profile - Optimal Projection Benchmark Values

After both 2D and 3D profiles setup are completed and the screen information entered, user can select a profile and click on [Test] button to run a test. For Optimal Projection Values Test, check and ensure that the physical sensor device is mounted on the rear wall in the auditorium, for projector information, the sensor device location must be selected Rear.

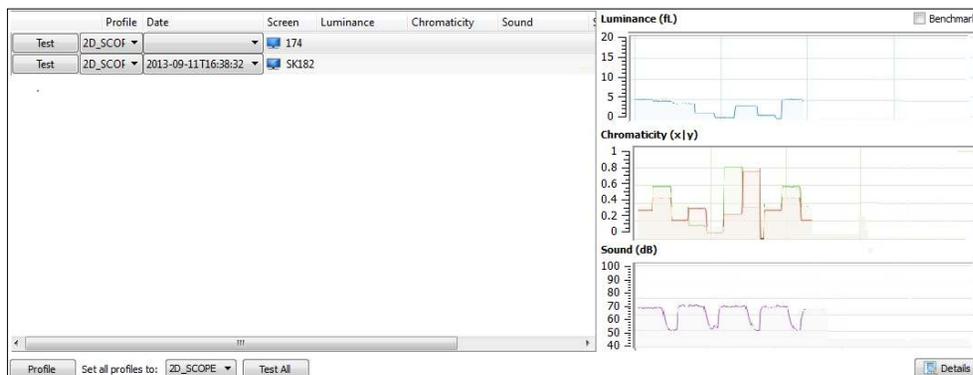
Sound System 5.1
 Sensor Location **Rear**
 Projector Setup Dual

Select on 2D_SCOPE profile, click on "Test" button to start the test.

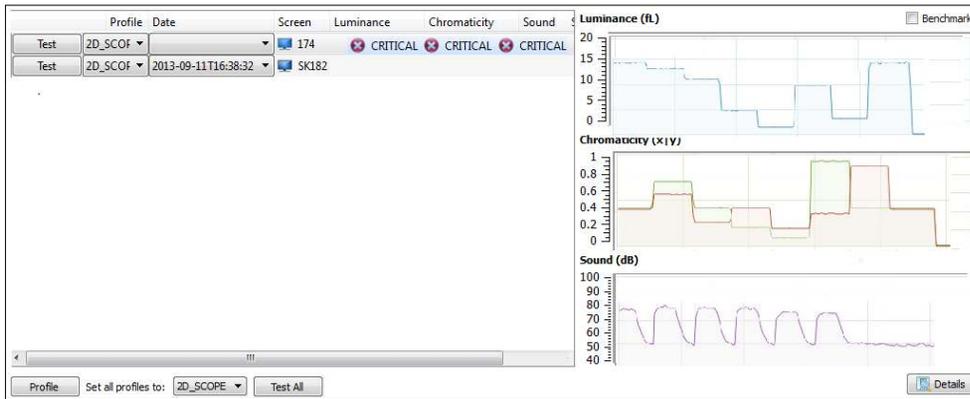
Profile	Date	Screen	Luminance	Chromaticity	Sound	Status
Test	2D_SCOPE	174				

Profile Set all profiles to: 2D_SCOPE Test All

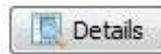
When the test is in progress, the results will be updated in real time on the right graph.



When the test is completed, the results graph will be formed on the right.



Click on the "Details" button on the bottom right to toggle the results to display in numerical mode.



The results will be displaced in numerical mode.

Profile	Date	Screen	Luminance	Chromaticity	Sound	Status
Test	2D_SCOPE	174				
Test	2D_SCOPE	2013-09-11T16:38:32	SK182	BENCHMARK	BENCHMARK	BENCHMARK

Checking Item	Value	Benchmark
Luminance	31.9 fL	31.9 fL
Pattern 1	0.321 0.369	0.321 0.369
Pattern 2	0.413 0.554	0.413 0.554
Pattern 3	0.272 0.344	0.272 0.344
Pattern 4	0.301 0.238	0.301 0.238
Pattern 5	0.203 0.134	0.203 0.134
Pattern 6	0.356 0.598	0.356 0.598
Pattern 7	0.517 0.480	0.517 0.480
Channel 1	62.1 dB	62.1 dB
Channel 2	62.3 dB	62.3 dB
Channel 3	62.3 dB	62.3 dB
Channel 4	62.7 dB	62.7 dB
Channel 5	62.6 dB	62.6 dB
Channel 6	62.1 dB	62.1 dB
Channel 7	62.1 dB	62.1 dB
Channel 8	62.2 dB	62.2 dB

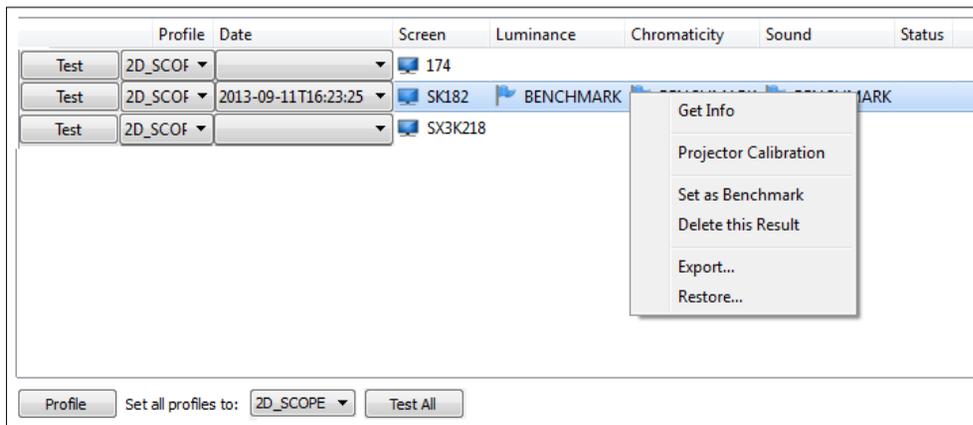
Once the test is completed, the test will check on the tolerance deviations initially configured in the profile and indicates that the test is "pass", "warning" or "critical" under their columns.

Profile	Date	Screen	Luminance	Chromaticity	Sound	Status
Test	2D_SCOPE	174	✓ PASS	✓ PASS	✓ PASS	
Test	2D_SCOPE	2013-09-11T16:23:25	✗ CRITICAL	✗ CRITICAL	✗ CRITICAL	
Test	2D_SCOPE	SX3K218	⚠ WARNING	⚠ WARNING	⚠ WARNING	

On the right graph, user can check the test results in more details.

	Checking Item	Value	Benchmark
✓	Luminance	31.7 fL	31.7 fL
✓	Pattern 1	0.319 0.367	0.319 0.367
✓	Pattern 2	0.411 0.555	0.411 0.555
✓	Pattern 3	0.271 0.342	0.271 0.342
✓	Pattern 4	0.298 0.236	0.298 0.236
✓	Pattern 5	0.201 0.133	0.201 0.133
✓	Pattern 6	0.354 0.598	0.354 0.598
✓	Pattern 7	0.515 0.481	0.515 0.481
✓	Channel 1	62.4 dB	62.4 dB
✓	Channel 2	62.7 dB	62.7 dB
✓	Channel 3	62.2 dB	62.2 dB
✓	Channel 4	62.4 dB	62.4 dB
✓	Channel 5	62.8 dB	62.8 dB
✓	Channel 6	63.0 dB	63.0 dB
✓	Channel 7	62.6 dB	62.6 dB
✓	Channel 8	62.1 dB	62.1 dB

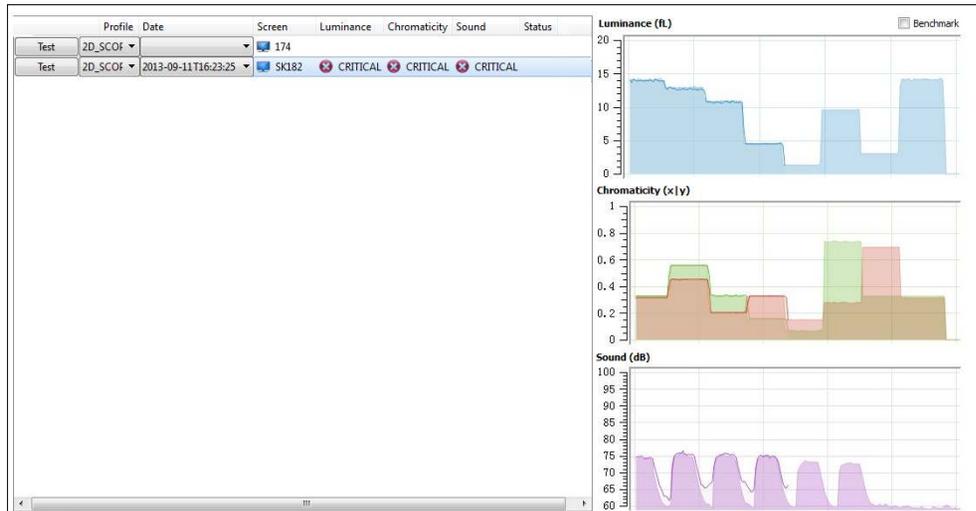
Right-click on entry and click "Set as Benchmark" to set current values as Benchmark values.



Click on "OK" to save result as benchmark values.



As initial benchmark values had already been saved, click on "Test" button again to check current values against it. The graph now shows both benchmark values and real time results.



Note: For more details on running test for the remaining 2D & 3D profiles which have been set up on the TMS-2000 Software, refer to the [QMS-1000 User Manual](#). Please contact GDC in case of any queries

8. PREFERENCES

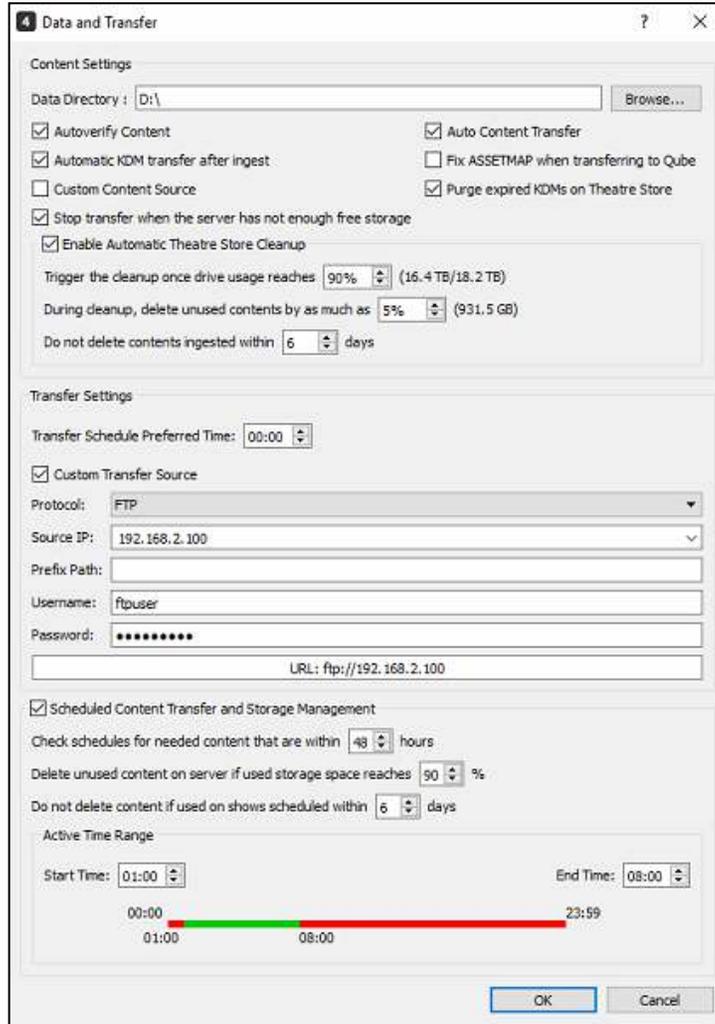
Click [Tools], [Preferences] to list the system information and change system settings.

The settings available are **Alert Days, Auto Connection, Auto-PMA, Backup Storage, Content Email, Content Watcher, Data and Transfer, Device Proxy, Emergency, General, , Language, Library, Logs Export, Macro Mapping, Notification, Notification Log, POS, Quality, Restrict Ingest, Server Attribute, Server Management, Show Attribute, Server Buffer Time, Smart Restore, Theatre Information, TMS Backup, TMS Labs, TmsConnect Transfer, GDC TmsRemote (“TmsRemote”), Unmapped Devices, User Log and User Manager.**

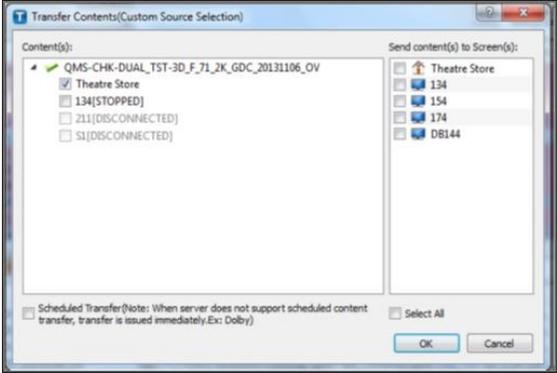
Note: Only Admin and Superuser accounts can access this tab and modify system settings.

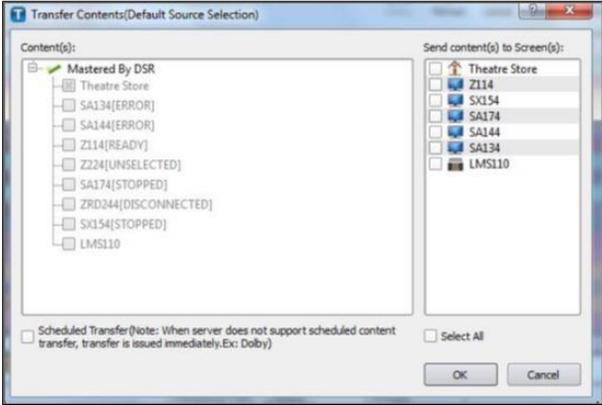


8.1. Data and Transfer



1	Auto Verify content	<p>When this option is checked, TMS will automatically verify every content after it is ingested successfully.</p> <div style="text-align: center; border: 1px solid black; padding: 2px; display: inline-block;"> <input checked="" type="checkbox"/> Autoverify Content </div> <p>Please refer to Section 5.1.11. for more details on how content verification functions on TMS.</p>
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<p>2</p>	<p>Auto Content Transfer</p>	<div style="text-align: center;"> <input checked="" type="checkbox"/> Auto Content Transfer </div> <p>When the 'Auto Content Transfer' option is checked, TMS will check the scheduled SPLs every <u>two hours</u>. If there are any missing content or KDMs that are included in those scheduled SPLs, then TMS will do an automatic content transfer to the designated screens.</p> <p>It is highly recommended that all content is ingested directly into the TMS theatre store.</p> <p>If the content is available in the Playback Server(s) but not in TMS's theatre store, TMS will then try to transfer the content from a Playback Server which is currently not in playback mode.</p>
<p>3</p>	<p>Automatic KDM transfer after ingest</p>	<div style="text-align: center;"> <input checked="" type="checkbox"/> Automatic KDM transfer after ingest </div> <p>When this option is enabled, TMS will automatically transfer KDMs to their designated screens once the KDMs are successfully ingested into the TMS's Theatre Store.</p>
<p>4</p>	<p>Custom content source</p>	<p>Content Source Selection allows user to set the source location for transfers. to be in either [Default] or [Custom] mode.</p> <div style="text-align: center;"> <input type="checkbox"/> Custom Content Source </div> <p>If the [Custom Content Source] option is checked, then user can select the source location at the time of content transfer.</p> 

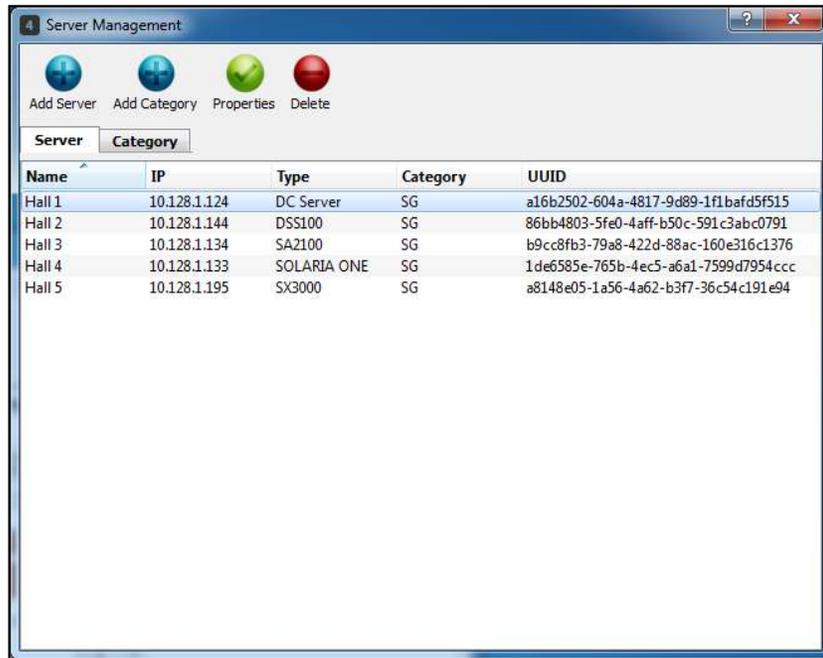
		<p>When this option is unchecked,, user will not be able to select the source for transfers as the selection of source locations will be disabled and TMS will select the first screen, followed by the second screen, and so on, in an orderly manner as it works on a load sharing principle.</p>  <p>But if a screen is in error mode, TMS will not select it but in custom mode, user can select the source on this screen</p>
5	<p>Fix ASSETMAP when transferring to Qube</p>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <input type="checkbox"/> Fix ASSETMAP when transferring to Qube </div> <p>Note: This option is only supported for Qube Cinema Servers.</p> <p>When this option is enabled, TMS will fix the ASSETMAP of DCPs where the annotation text doesn't conform to SMPTE XSD standards, before sending it to Qube servers.</p>
6	<p>Purge Expired KDMs in theatre store</p>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <input checked="" type="checkbox"/> Purge expired KDMs on Theatre Store </div> <p>This option when enabled will automatically purge expired KDMs from the TMS Theatre store.</p> <p>Please refer to Section 5.3.2. for details on how expired KDMs are purged from TMS.</p>
7	<p>Stop transfer when the server does not have enough free space</p>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <input type="checkbox"/> Stop transfer when the server has not enough free storage </div> <p>This option is applicable only when the Centralized Playback Feature is enabled.</p>

		<p>When this option is enabled, the Streaming Content Library (SCL) software will stop trying to send backup content to the playback server if the server's local storage do not have enough free space for next day shows.</p>
<p>8</p>	<p>Enable Automatic Theatre Store cleanup</p>	<div data-bbox="634 459 1409 620" style="border: 1px solid black; padding: 5px;"> <input checked="" type="checkbox"/> Enable Automatic Theatre Store Cleanup Trigger the cleanup once drive usage reaches <input type="text" value="90%"/> (16.4 TB/18.2 TB) During cleanup, delete unused contents by as much as <input type="text" value="5%"/> (931.5 GB) Do not delete contents ingested within <input type="text" value="6"/> days </div> <p>When this option is checked, and TMS detects that there is not enough free space in the data repository for incoming DCPs, it will automatically delete unused DCPs in the data repository based on the thresholds defined.</p>
<p>9</p>	<p>Transfer settings</p>	<p>The Transfer settings are used for transferring content from the TMS Theatre store to the playback servers.</p> <div data-bbox="625 911 1414 1256" style="border: 1px solid black; padding: 5px;"> <p>Transfer Settings</p> <p>Transfer Schedule Preferred Time: <input type="text" value="00:00"/></p> <p><input type="checkbox"/> Custom Transfer Source</p> <p>Protocol: <input type="text" value="FTP"/></p> <p>Source IP: <input type="text" value="192.168.2.100"/></p> <p>Prefix Path: <input type="text"/></p> <p>Username: <input type="text" value="ftpuser"/></p> <p>Password: <input type="password" value="*****"/></p> <p style="text-align: right;">URL: ftp://192.168.2.100</p> </div> <p>By default, TMS uses predefined credentials for content transfers to the playback servers.</p> <p>Users can also enable the Custom Transfer Source option and set their own credentials. In cases where custom credentials are being set, please ensure that the credentials of the corresponding FTP account in the File Zilla Server Interface are also modified accordingly.</p> <p>Kindly refer to the TMS-2000 Installation Manual for detailed information on setting up DATA TRANSFER SETTINGS on TMS.</p>

10	Schedule Content transfer and Storage Management	<div data-bbox="602 303 1414 627" style="border: 1px solid black; padding: 5px;"> <input checked="" type="checkbox"/> Scheduled Content Transfer and Storage Management Check schedules for needed content that are within <input type="text" value="48"/> hours Delete unused content on server if used storage space reaches <input type="text" value="90"/> % Do not delete content if used on shows scheduled within <input type="text" value="6"/> days Active Time Range Start Time: <input type="text" value="01:00"/> End Time: <input type="text" value="08:00"/>  </div> <p data-bbox="597 692 1425 851">When this option is enabled, the housekeeping Logic that deletes old DCPs available in the playback server, deletion is based on the ingested datetime of the CPL in the playback server. This will only work with GDC SX-3000 (9.0-build447 or above). It does not support servers that have been set up for Centralized playback.</p>
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8.2. Server Management

Before using TMS to manage servers, users should register servers to TMS. By clicking **[Server Management]** icon, a window will pop up and a Server Management window (as below) will allow user to add new categories and servers to the TMS software.



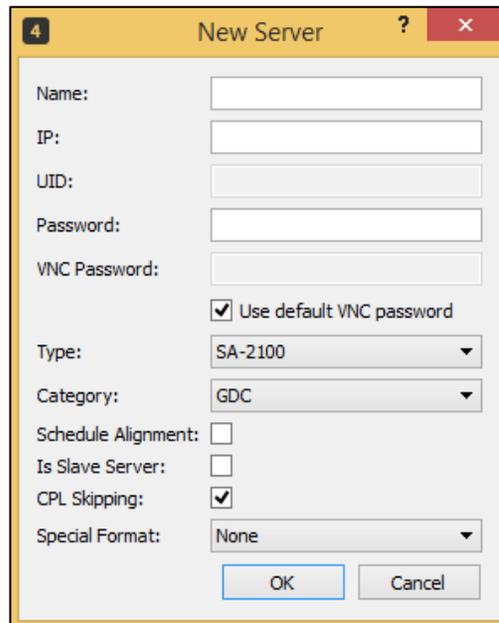
8.2.1. Add Category

Click **[Category]** Subtab and **[Add Category]** icon to add a new category. A new category must be created before adding server.



8.2.2. Add Server

Click **[Add Server]** icon to add server to that category. Enter the name, IP and password of the server. The IP address of the server should be correct, else it will not be able to connect with TMS later.

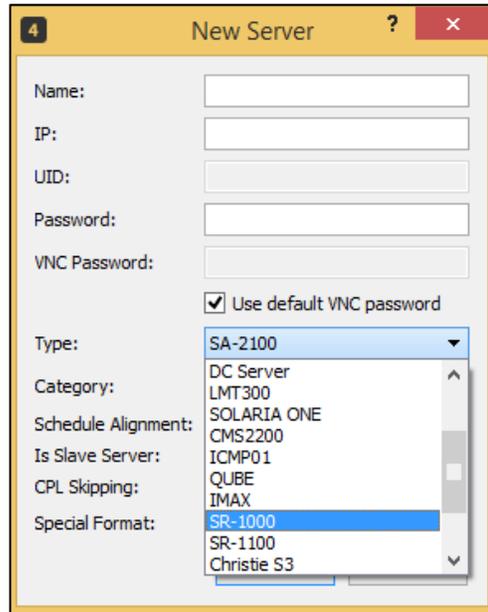


The screenshot shows a dialog box titled "New Server" with a yellow header bar containing a question mark icon and a close button. The dialog contains the following fields and options:

- Name: [Text Input]
- IP: [Text Input]
- UID: [Text Input]
- Password: [Text Input]
- VNC Password: [Text Input]
- Use default VNC password
- Type: [Dropdown Menu] (SA-2100)
- Category: [Dropdown Menu] (GDC)
- Schedule Alignment:
- Is Slave Server:
- CPL Skipping:
- Special Format: [Dropdown Menu] (None)

At the bottom of the dialog are two buttons: "OK" and "Cancel".

Click **[Type]** to change the Server Type. Select the correct Category and click **[OK]**.



The supported server types for TMS are listed in the table below:

Sr. No.	Server Type
1	SA-2100
2	SX-3000
3	RD2000
4	China Giant Screen
5	DSS100
6	DC Server
7	LMT300
8	Solaria One
9	CMS2200

10	ICMP01
11	QUBE
12	IMAX
13	SR-1000
14	SR-1100
15	Christie S3
16	SONY XCT-M10
17	SONY XCT-S10
18	Dolby Cinema
19	SX-4000

After adding category and server, the information provided is added in its corresponding list. To edit the changes on server, click **[Server]** tab, select a server in the list and click **[Properties]** icon. To delete the Category and Server records, click **[Delete]** icon. There must be no servers in a Category before it can be deleted.

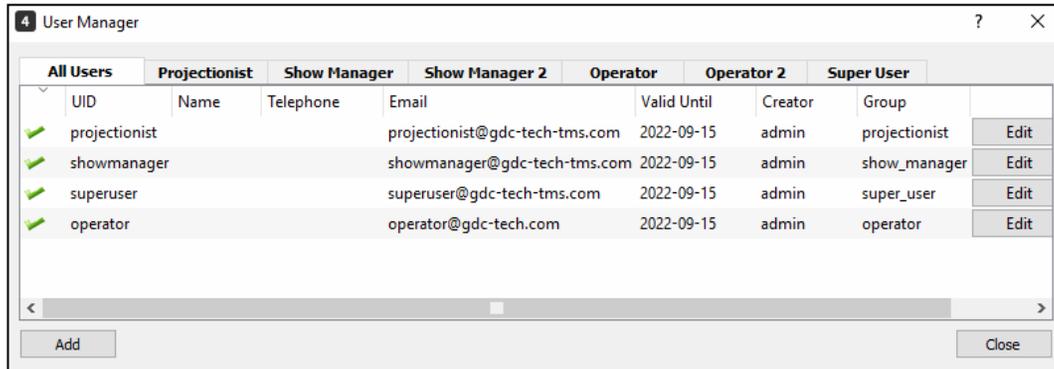
Server		Category		
Name	IP	Type	Category	UUID
Hall 1	10.128.1.124	DC Server	SG	a16b2502-604a-4817-9d89-1f1bafd5f515
Hall 2	10.128.1.144	DSS100	SG	86bb4803-5fe0-4aff-b50c-591c3abc0791
Hall 3	10.128.1.134	SA2100	SG	b9cc8fb3-79a8-422d-88ac-160e316c1376
Hall 4	10.128.1.133	SOLARIA ONE	SG	1de6585e-765b-4ec5-a6a1-7599d7954ccc
Hall 5	10.128.1.195	SX3000	SG	a8148e05-1a56-4a62-b3f7-36c54c191e94

- **Schedule Alignment:** Schedules created by TMS should align with the playback server's time for accurate show scheduling.
- **Is Slave Server:** The 'Is Slave Server' option should be used if the server that is being setup is a Slave server in a Dual IMB Setup. The corresponding Master server should be selected from the Master Server dropdown list to link the Master and Slave servers.

- **CPL Skipping:** This feature allows cinemas to skip unwanted parts of the featured CPL and directly play the actual movie of the CPL.
- **Special Format:** The special format option is an indicator to the Auto-SPL for automation of 4DX and ScreenX formats based on the TMS Macros defined for 4DX and ScreenX screens.

8.3. User Manager

By clicking **User Manager** icon, the user management window will pop up.



In the user management UI, the top column shows the categories of the user level, followed by the user groups and user information below.

There are six user roles with different levels of access rights:

1. **Super User**
2. **Show Manager**
3. **Show Manager 2**
4. **Projectionist**
5. **Operator**
6. **Operator 2.**

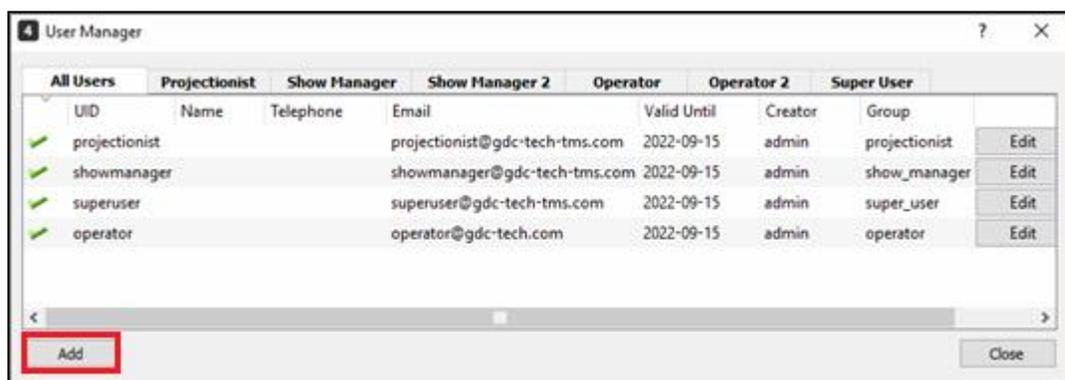
Sr. No.	User Group	Roles
1	Operator	Operator user accounts have the least access rights compared to the other account types. Users in this group can only export schedules, add contents and create show playlist but has no access to delete contents in TMS
2	Projectionist	Projectionist user accounts have all the access right of the operator group, plus this user can browse and activate current shows, play content including start and stop playback, and delete contents in TMS

3	Show Manager	Show Manager user accounts have all the access right of the projectionist group, plus a full access in the scheduler tab to create, export and remove schedules of playlist.
4	Show Manager 2	Show Manager 2 user accounts have the same access rights as Show Manager except that it does not have access on the playback controls in MONITORING tab
5	Operator 2	The " Operator 2 " user accounts have full rights to the «MONITORING 'tab'», «SCHEDULER 'tab'», «CONTENT 'tab'», «QUALITY 'tab'», and full rights in the Template system (excluding the «Template 'tab'», «Macro 'tab'» and «Advance 'tab'» of the POS section.)
6	Super User	Super User accounts can do everything except accessing other superuser accounts

The **Admin** account has all access rights including the ability to access any **Super User** accounts. Only one **Admin** account exists on each TMS, but all the other groups can have multiple users of the same level.

8.3.1. Create User

Click **[Add]** button at the bottom left corner of User Manager to add a new user account.



After entering data in all the mandatory fields (marked with an * asterisk), assign the new user to the right user role and click **[OK]**.

8.3.2. Browse and Modify

By clicking **[Edit]** button on the right side, an “Edit User Info” window will pop up as shown below. All user information can be edited except for the field “**User UID**”.

User Manager							
All Users							
Name	Telephone	Email	Valid Until	Creator	Group	Edit	Remove
Tim Matthew Howard	123456	tim@howard.com	2021-12-31	admin	projectionist	Edit	Remove
		showmanager@gdc-tech-tms.com	2022-09-15	admin	show_manager	Edit	Remove
		superuser@gdc-tech-tms.com	2022-09-15	admin	super_user	Edit	Remove
		operator@gdc-tech.com	2022-09-15	admin	operator	Edit	Remove

After making the changes, click **[OK]** to save modifications.

8.3.3. Change User Privileges

Higher level users can change lower level users' access privileges. Users with green ticks are active accounts, by clicking the ticks allows the user to **enable/disable** the account.

All Users		Projection
UID	Name	Te
✓	projectionist	
✓	Tim Howard Tim Matthew H...	12
✓	showmanager	
✓	superuser	
✓	operator	

A disabled user account cannot log into the TMS and its icon will have a red cross beside its name. It can be enabled and disabled.

All Users		Projection
UID	Name	Te
✗	projectionist	
✓	Tim Howard Tim Matthew H...	12
✓	showmanager	
✓	superuser	
✓	operator	

User Password can be reset using the **[Reset Password]** option.

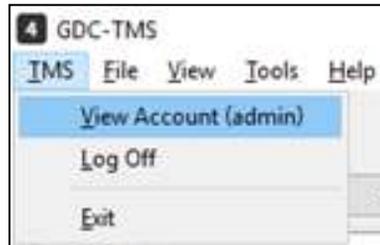
A user account can be changed from its current group to another group using the **[Change Group]** button.

To delete user account, select and highlight user name and click **[Remove]** button.

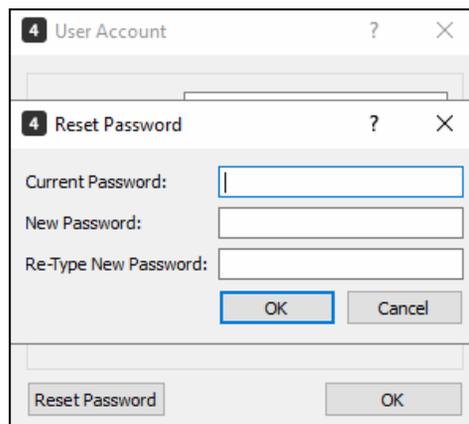
All Users							Projectionist	Show Manager	Show Manager 2	Operator	Operator 2	Super User
Name	Telephone	Email	Valid Until	Creator	Group							
projectionist@gdc-tech-tms.com		2022-09-15	admin	projectionist	Edit	Remove						
Tim Matthew Howard	123456	tim@howard.com	2021-12-31	admin	projectionist	Edit	Remove					
					show_manager	Edit	Remove					
					super_user	Edit	Remove					
					operator	Edit	Remove					

8.3.4. Password Reset by User Itself

Not all user accounts can access the **User Manager** module. Any user can browse its own account information and reset its login password by clicking **TMS, View Account (admin)**.

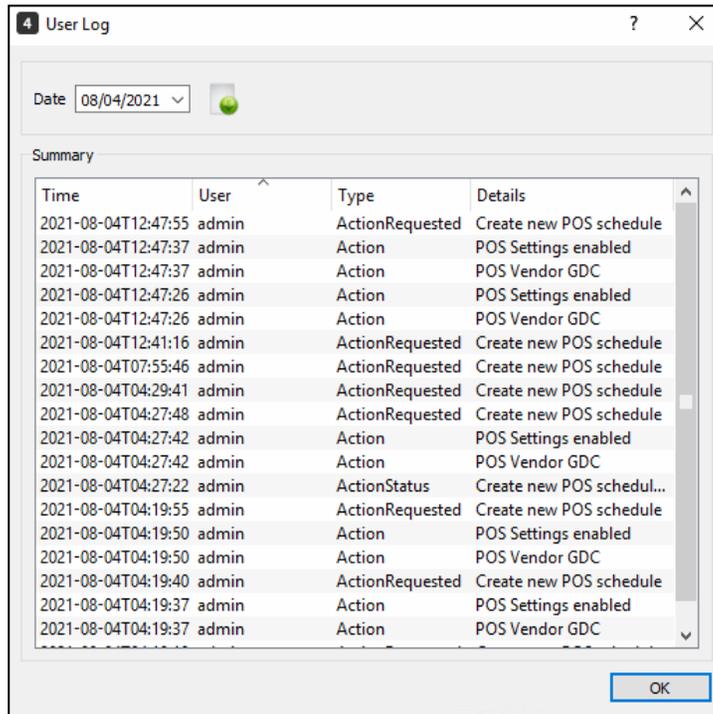


A window will pop up and then allow user to browse the user account information and reset its password.



8.4. User Log

The User Log function allows users to browse user activity logs in TMS by date. It can be sorted by *Time*, *User*, *Type* and *Details*.



4 User Log ? X

Date: 08/04/2021

Summary

Time	User	Type	Details
2021-08-04T12:47:55	admin	ActionRequested	Create new POS schedule
2021-08-04T12:47:37	admin	Action	POS Settings enabled
2021-08-04T12:47:37	admin	Action	POS Vendor GDC
2021-08-04T12:47:26	admin	Action	POS Settings enabled
2021-08-04T12:47:26	admin	Action	POS Vendor GDC
2021-08-04T12:41:16	admin	ActionRequested	Create new POS schedule
2021-08-04T07:55:46	admin	ActionRequested	Create new POS schedule
2021-08-04T04:29:41	admin	ActionRequested	Create new POS schedule
2021-08-04T04:27:48	admin	ActionRequested	Create new POS schedule
2021-08-04T04:27:42	admin	Action	POS Settings enabled
2021-08-04T04:27:42	admin	Action	POS Vendor GDC
2021-08-04T04:27:22	admin	ActionStatus	Create new POS schedul...
2021-08-04T04:19:55	admin	ActionRequested	Create new POS schedule
2021-08-04T04:19:50	admin	Action	POS Settings enabled
2021-08-04T04:19:50	admin	Action	POS Vendor GDC
2021-08-04T04:19:40	admin	ActionRequested	Create new POS schedule
2021-08-04T04:19:37	admin	Action	POS Settings enabled
2021-08-04T04:19:37	admin	Action	POS Vendor GDC

OK

8.5. POS

After selecting the **POS Setting** icon, a window will pop up prompting the user to set the POS Vendor and path of the POS data file location.

The supported POS vendors are listed in the table below:

Sr.No	POS Vendors
1	GDC
2	ADMIT ONE
3	ALLURE GLOBAL
4	CENTER EDGE
5	CLARITY PACER CATS
6	CMTS
7	CRAIN ATLANTA
8	CRIFST
9	DING XIN
10	E-SCORE
11	FLAMINGO
12	G.A

23	RADIANT
24	REGAL
25	RETRIEVER SOFTWARE INC.
26	RTS
27	SENSIBLE
28	SHOWCASE
29	SPLYCE
30	TCC
31	TICKET PRO
32	TICKET SOFT
33	TITAN
34	UA POS
35	VEEZI

13	GOLDEN DYNAMIC
14	HARKINS
15	HELLO
16	HUO LIE NIAO
17	INGRESSO
18	JACK ROE USA INC.
19	NEXO SOLUCIONES
20	OMNITERM
21	ORISTAR
22	PENNY

36	VENUE
37	VISTA
38	VISTA - China
39	VISTA – China Standard
40	VISTA – China Standard (Cloud)
41	YUEKE
42	POSitive
43	GoGoCinema
44	INDY Point of Sale
45	DING XIN V2

8.5.1. General

In order to enable TMS schedule syncing with a supported POS system, tick **[Enable POS Sync Manager]** checkbox and input the location where the POS data will be stored and updated into **[POS URL:]** field. The POS URL points to the path to where the ticketing system periodically exports the POS data. TMS will sync with this data periodically, based on the time set in the **[Refresh Timing (minute):]** field in the POS Settings. To activate these settings, restart the TMS software after finalizing your changes.

Note: If the POS Sync Manager is enabled, the TMS will automatically sync POS-Supplied data from POS URL after the TMS software restarts. If this feature is disabled, the POS Sync Manager will stop updating POS data after the TMS restarts, but previous POS data will still be available.

8.5.2. Advance Sub-tab

Along with the POS Settings, the POS window also provides some advanced configuration options, which are available under the Advance sub-tab.

[Auto create Schedule if show is mapped] option ensures that the scheduled shows are generated automatically by the TMS, during the next POS sync. Make sure that this option is enabled.

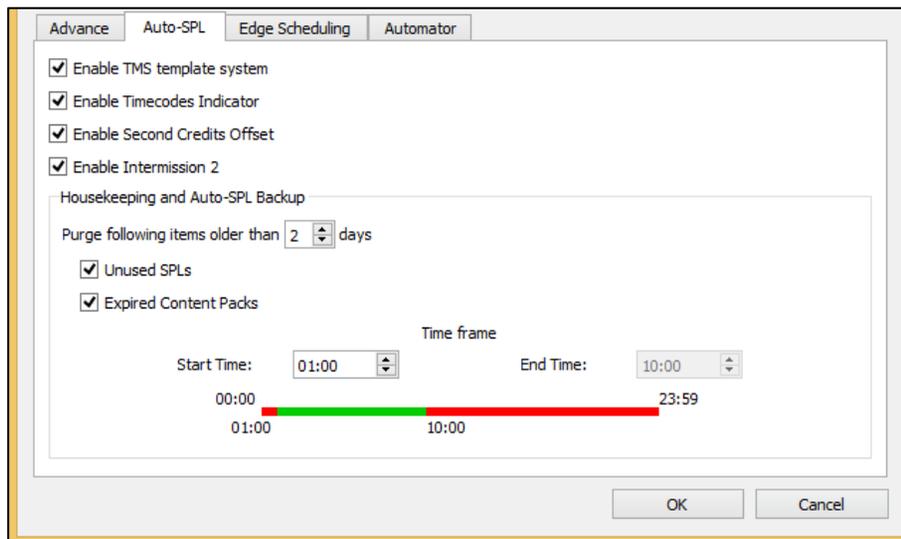
You can also set the number of days up to which the schedules should be created, based on data available from the POS system. This can be done by setting the **[Create schedules upto only x days]** to the desired number upto which the schedules need to be created. The maximum number of days upto which schedules can be created is 15 days.

TMS also allows the option to automatically recreate all the already created schedules once a day at a specified time. This can be done by enabling the **[Recreate schedule every XX:YY time and prevent recreation for schedule that is starting in the next X hours]** option.

The scheduled shows that were generated based on the POS data, can also be deleted automatically from the TMS, once they have been removed from the POS. To do so, make sure the **[The Auto delete mapped schedule if POS show is removed]** option is enabled.

8.5.3. Auto-SPL Sub-tab

The Auto-SPL sub-tab, provides configuration options related to the TMS Template System. POS scheduling with TMS Template System can be enabled by checking the **[Enable TMS template system]** checkbox.



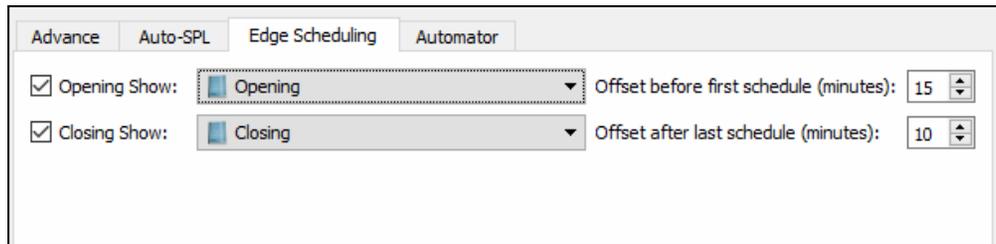
The *Timecodes Indicator* feature as explained in the **Monitoring** Tab section, can be enabled by checking the **[Enable Timecodes Indicator]** option.

The housekeeping settings to purge **[Unused SPLs]** and **[Expired Content Packs]** can be enabled by checking the respective check boxes. The time-frame for housekeeping can also be set from this option. Please note that housekeeping time-frame can only be set during non-cinema operating hours.

TMS application needs to be restarted for any changes to take effect.

8.5.4. Edge Scheduling Sub-tab

The Edge Scheduling sub-tab, allows users to set the default **[Opening Show:]**, which should be played in all the screens before the first scheduled show for the day. This could typically be a playlist containing macros such as turn on the Auditorium Dimmer, turn on the Projector lamp, etc..

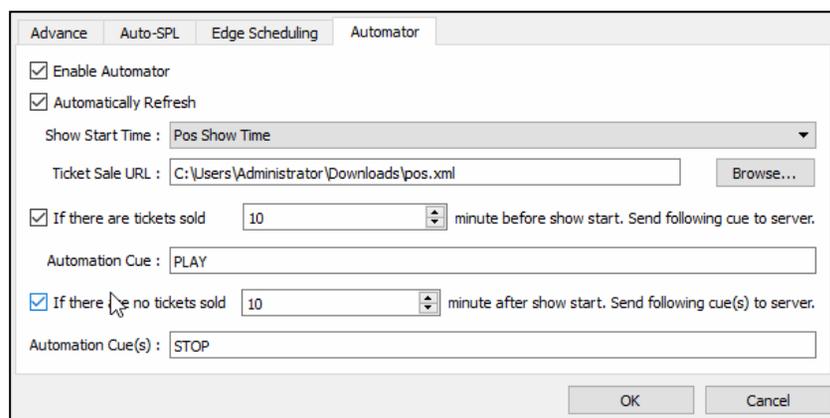


Additionally, users can also set the default **[Closing Show:]**, which should be played in all the screens after the last scheduled show for the day. This could typically be a playlist containing macros such as turn off the Auditorium Dimmer, turn off the Projector lamp, etc..

Values for the Offset interval before the first show, as well as the Offset interval after the last show, can be set in minutes.

8.5.5. Automator Sub-tab

The Automator tab, allows users to execute automation cues on the Server, based on the sale of tickets, in the POS system. To enable this feature, select the **[Enable Automator]** option.



Using this drop-down menu, user can choose whether the POS Show time, or the Scheduled Show time, should be considered as the start time for the show.

The [**Ticket Sale URL:**] field, points to the location where the POS system periodically exports its ticket sales data. The TMS will monitor the ticket sale data file every minute for any changes.

The Automator function provides two options to send automation cue(s) to the playback servers:

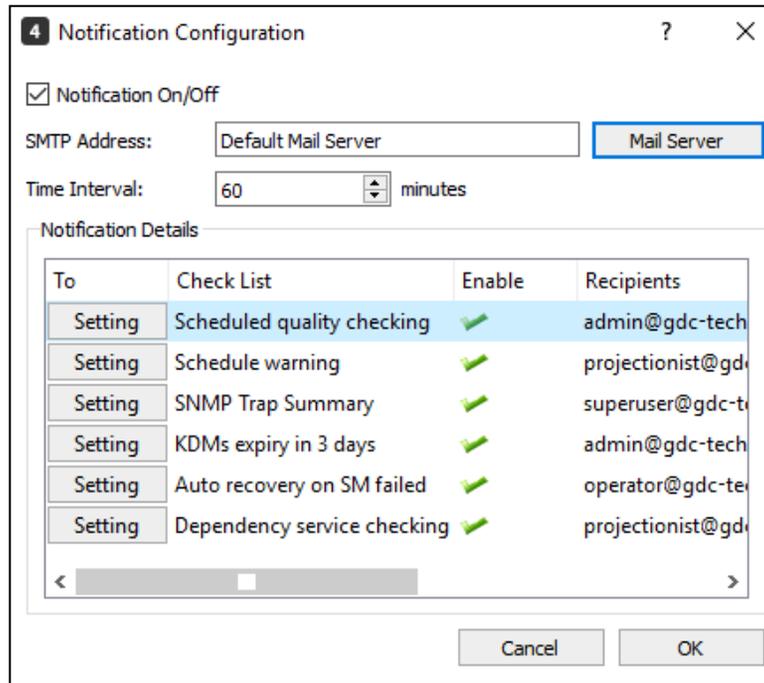
- The first option allows user to trigger the specified automation cue, in case any tickets are sold in the POS system, before the start of a scheduled show.
- The second option allows user to trigger the specified automation cue(s), in case of no tickets are sold in the POS system, after the start of a scheduled show.

Ensure that the name of the automation cue(s) mentioned here, are already configured, and matches with what is displayed on the playback servers.

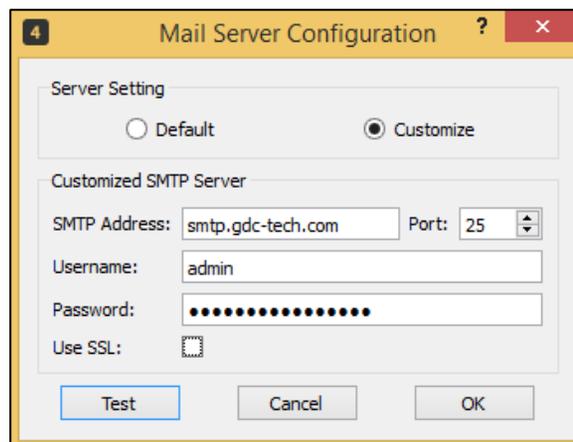
For example: If the user wants to send a automation cue, 'STOP' to the playback servers if there are no tickets sold 10 minutes after the show start, then the playback servers should have a corresponding cue called , 'STOP' for that automation event to take effect.

8.6. Notification

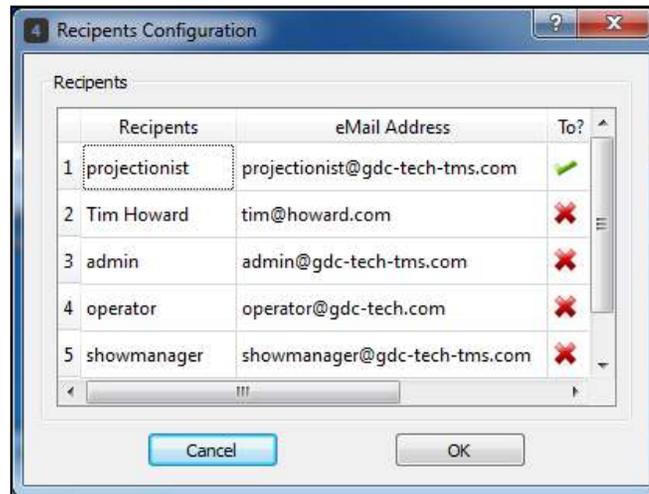
The Notifications function allows TMS to perform checks on the playback servers, and if there are any abnormalities, TMS will send an email to inform user. From **[Tools]** menu, click **[Preferences]**, **[Notification]**, click **[Mail Server]** button to configure the settings for TMS to send out an email.



Note: The Mail Server Configuration can only be set using the *Customize* Server setting. Default Server setting is discontinued

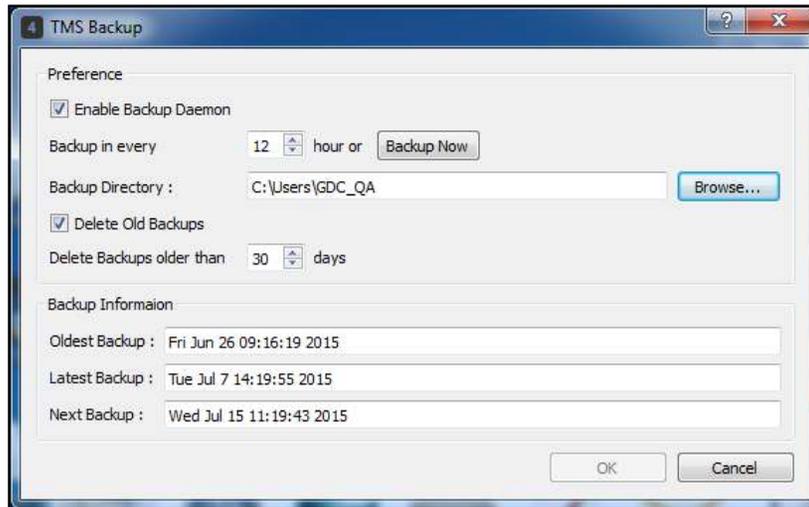


Click **[Setting]** button on each checklist selected, select the recipients to receive the email notifications. Click **[OK]** button, restart TMS to activate the changes.



8.7. TMS Backup and Data Restore

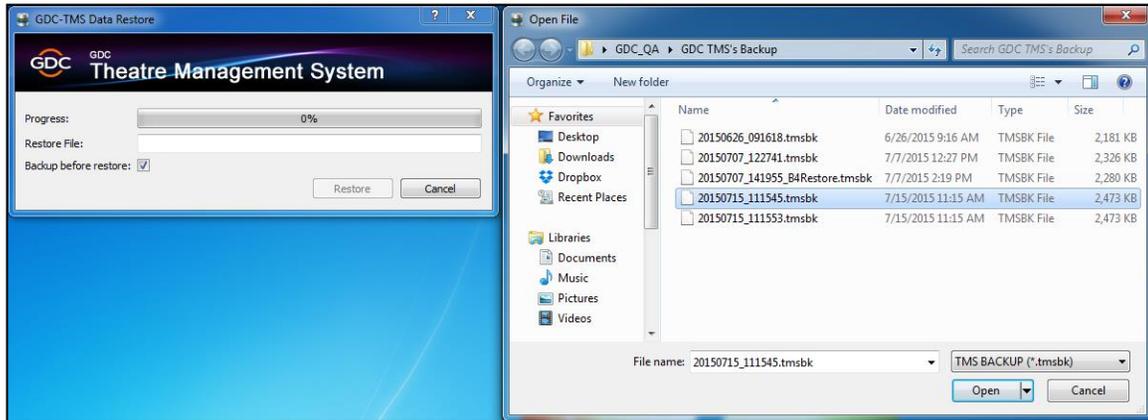
TMS Backup makes backup copies of TMS configuration and its database files, then save them to a directory known as GDC TMS' Backup. Backup file will be saved as Date and Time format: YYYYMMDD_HHMMSS.tmsbk2. For example: "20170113_211011.tmsbk2". To use TMS Backup, enable the **[Enable Backup Daemon]** under Preference section in TMS Backup window.



In case of operating system or GDC TMS software corrupted, reinstall TMS and use Data Restore to restore the backup files. At Windows Start Menu, locate **GDC-TMS → Data Restore** and click it.

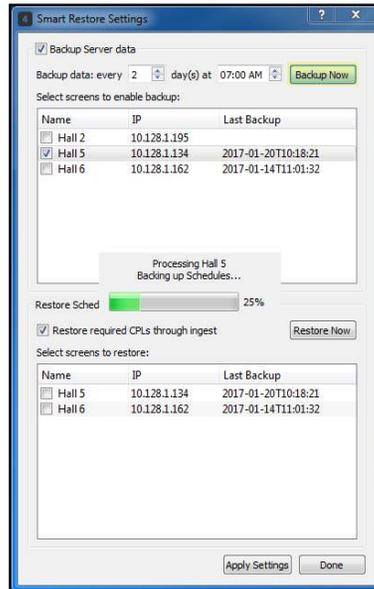


GDC-TMS Data Restore window will load, click **[Restore File]**, and select the location of the backup file and click **[Open]** and then **[Restore]**. User can still restore TMS 4.1 backup files [YYYYMMDD_HHMMSS.tmsbk].

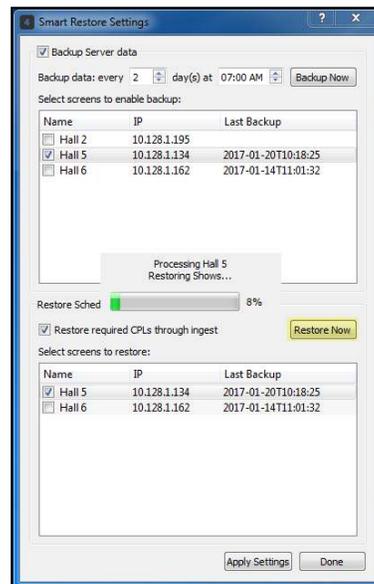


8.8. Smart Restore

Smart Restore allows user to backup and restore server data such as scheduled shows and OS configuration file for GDC servers. Backup can be scheduled or can be done immediately by clicking **[Backup Now]** button. TMS will create backup files for schedule, show playlists, KDMs and OS configuration file of the selected server. Backup Server data section will display the details of the latest backup done by the system.

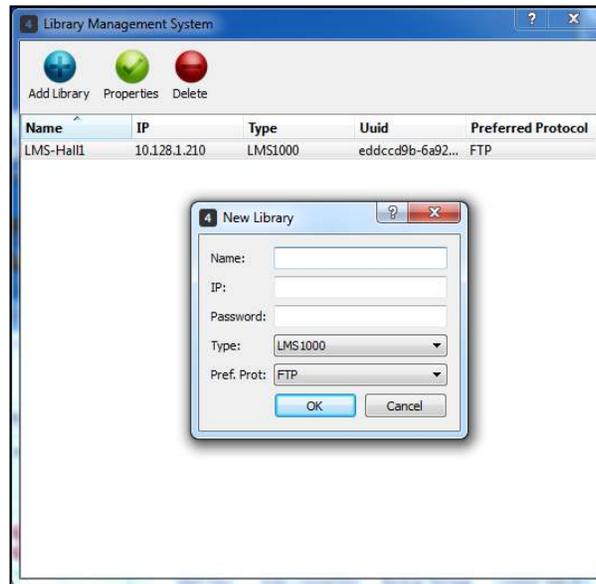


User can restore the schedules by selecting a screen in the Restore Scheduled Shows section and then click **[Restore Now]** button. All the schedules, show playlists and KDMs of the selected screen will be restored.

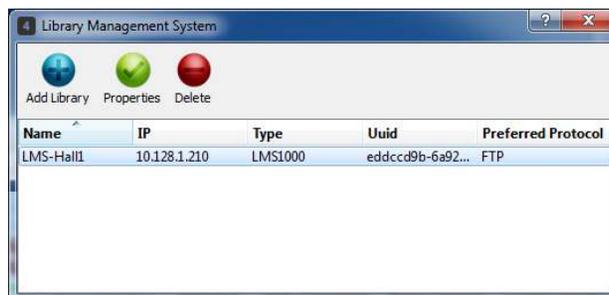


8.9. Library Management System

Library Management System allows the adding of GDC LMS-1000 server for integration with the TMS. From **[Tools]** menu, click **[Preferences]**, **[Library Management System]** icon. To add new library, click **[Add Library]** icon. A New Library window will pop up. Enter the *Name*, *IP* and *Password* of the GDC LMS-1000.

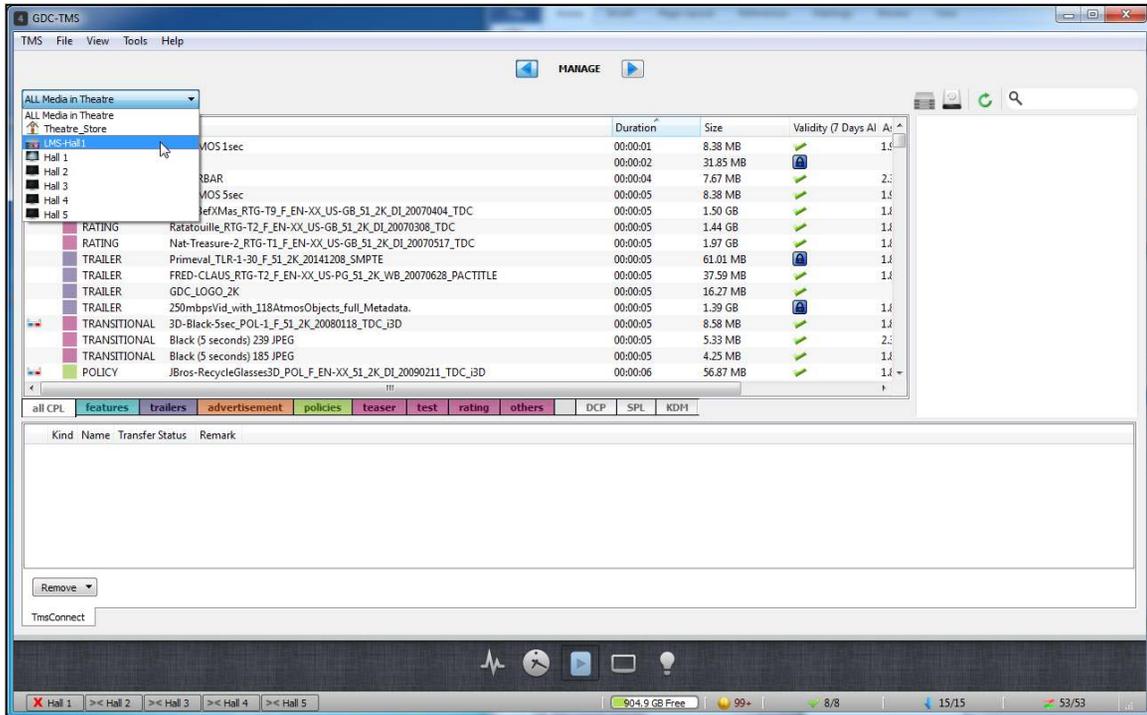


Once added, the entry will be shown in the table as below. Click **[X]** icon at the top right corner of the window to close it.



Go to Content Tab, **[MANAGE]**, select from the dropdown list, and a Library icon is added to the list.

8. PREFERENCES



Select one LMS from dropdown list, and click the “Library” icon on the right side of the window to connect it. A red cross indicates that it is currently not connected to TMS. Click the icon once to connect it to TMS, once connected, the  icon will disappear. LMS is then ready for use with TMS.



8.10. TmsConnect Transfer

The TmsConnect Transfer is settings for use with GDC Central Management System software. When a DCP contents are being transferred from CMS to TMS, the contents will be stored in a temporary location on the Hard Disk Drive in TMS server.

If there is only one Hard Disk Drive in the TMS server, no settings will need to be changed. If there are more than one Hard Disk Drives on it, select the one with huge space storage remaining.

From **[Tools]** menu, click **[Preferences]**, **[TmsConnect Transfer]** icon, select the Hard Disk Drive with a lot of space remaining (if there is more than one Hard Disk Drive in TMS server) and click **[OK]** button.



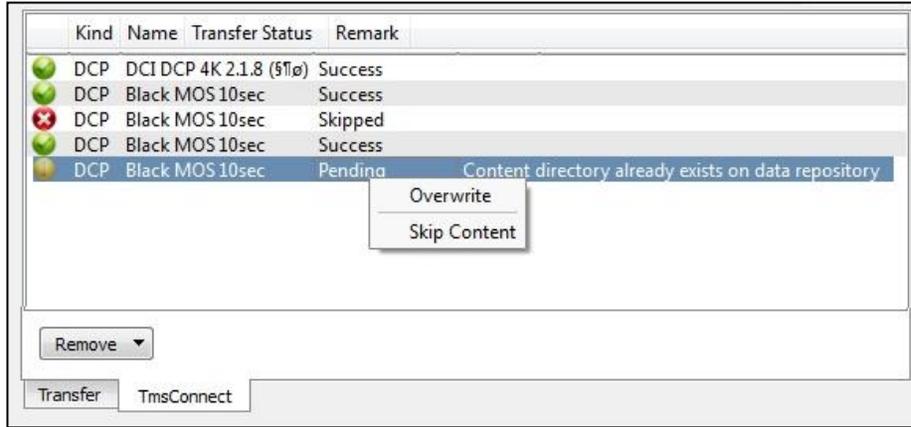
When a DCP transfer is being issued from CMS to TMS, there will be a transfer status entry in **Content** → **TmsConnect** Tab in TMS Software. The DCP contents will be stored in into TMS Theatre_Store and the storage location will be the “Data and Transfer” directory defined in System Tab.

Kind	Name	Transfer Status	Remark
DCP	DCI DCP 4K 2.1.8 (5110)	Success	
DCP	Black MOS 10sec	Success	
DCP	Black MOS 10sec	Skipped	
DCP	Black MOS 10sec	Success	

Remove ▾

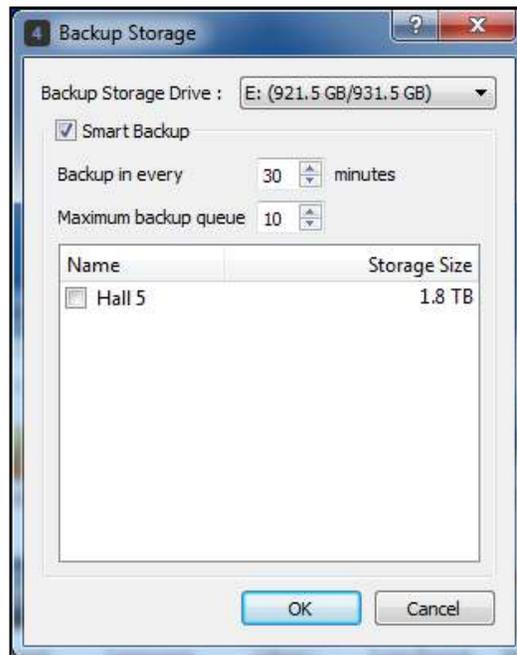
Transfer TmsConnect

If DCP content is already present in TMS, the status will be “Pending” in TmsConnect, the user must choose to either **[Overwrite]** or **[Skip Content]** the transfer.



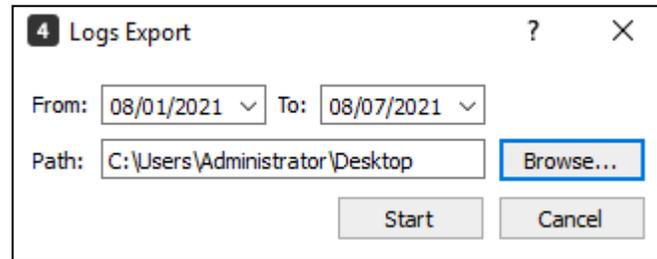
8.11. Backup Storage

Backup Storage allows user to back up the entire server contents to a local or network drive on TMS. From **[Tools]** menu, click **[Preferences]**, **[Backup Storage]** icon to load the configuration window. Select on the Backup Storage Drive to be used on TMS PC, tick **[Smart Backup]** checkbox, click and select the screens to back-up the entire screen contents. Select on the minutes that TMS will check whether the screens content match the backup storage drive, if there are any changes, TMS will update it.



8.12. Logs Export

Logs can be extracted from TMS for data analysis and troubleshooting purposes. To extract logs, from **[Tools]** menu, click **[Preferences]**, **[Logs Export]** icon. Select the date range of the logs to be extracted and the destination of the file to be saved. Click **[Start]** button to start.



When log extraction is complete, the file will be saved in the destination location. The file will be saved as TmsLogsExport_YYYYMMDDHHMMSS.zip format. For example: "TmsLogsExport_20210807035534.zip".



8.13. Theatre Information

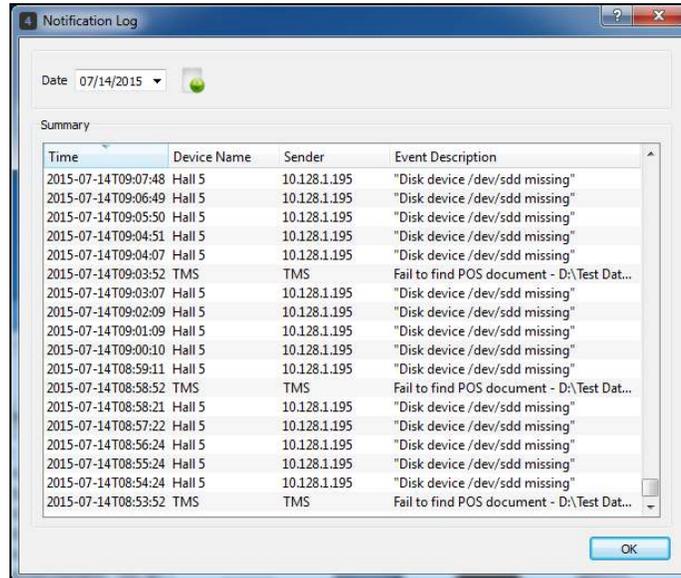
Relevant Theatre Information details can be saved in TMS. From **[Tools]** menu, click **[Preferences]**, **[Theatre Information]**. Enter the details and click **[OK]**. To check previously entered data, click **[Theatre Information]** to retrieve it.



Field	Value
Theatre Name	GDC Office
Contact Person	GDC Technology
Telephone	62221082
Street	Ubi Tech Park
City	Singapore
Province	Singapore
Postal	408564
Country	Singapore

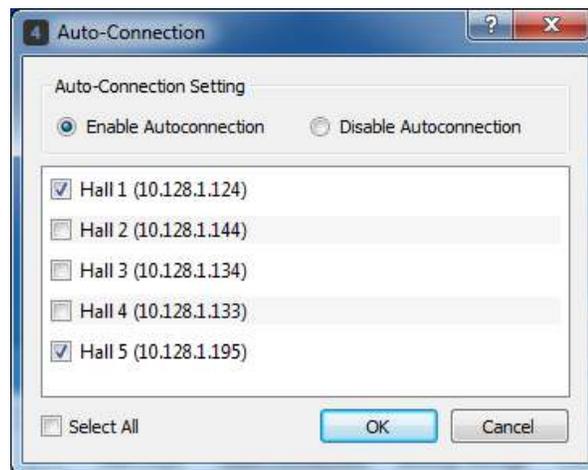
8.14. Notification Log

The Notification Log function allows user to browse the captured alerts/notification from server sent to the TMS. It can be sorted by *Time*, *Device Name*, *Sender* and *Event Description*.



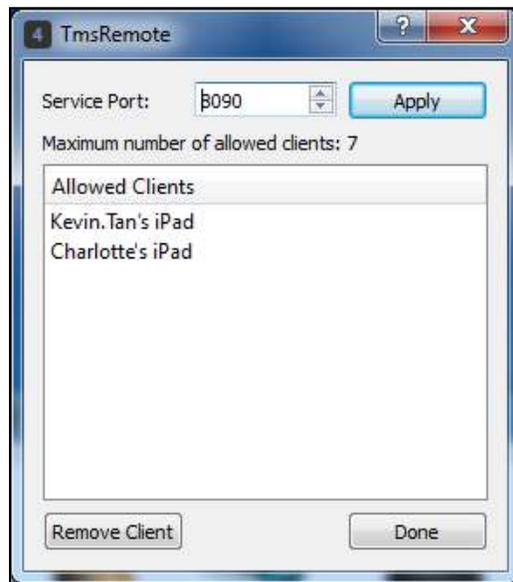
8.15. Auto-Connection

By clicking the **[Enable Auto-Connection]** radio button, the TMS will connect all the selected screen servers automatically each time the TMS software is launched. Otherwise, the user must manually connect to each server. Use the **[Select All]** checkbox to select all servers.



8.16. GDC TmsRemote

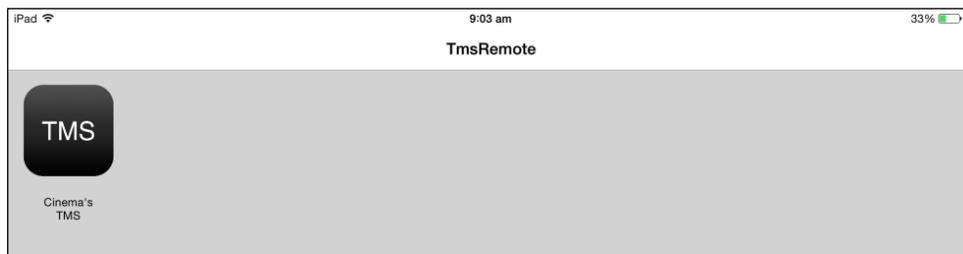
The GDC TmsRemote ('TmsRemote') utility allows user to have full access with the functionality of TMS's Monitoring tab and Scheduler tab remotely using iPads. The TmsRemote icon in Preference, lists down all registered clients that are accessing TMS remotely. This allows user to configure Service Port and remove registered clients. The maximum number of clients allowed to register in TmsRemote depends on user's license.



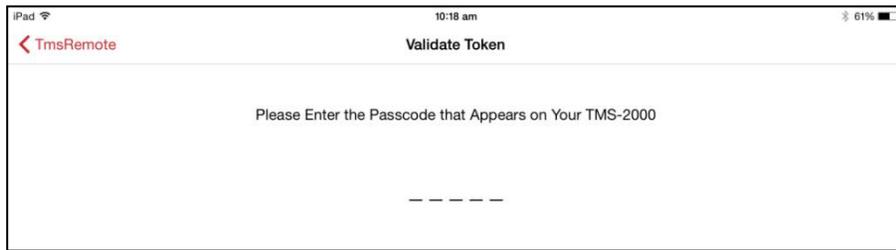
To remove a registered client, select an existing client, then click **[Remove Client]** button. Upon removing client from the TmsRemote list, iPad will not be able to access TMS remotely.

8.16.1. Register an iPad to TmsRemote

To register an iPad to TMS, access the TmsRemote software in the user's iPad. Select TMS **[Cinema's TMS]** that the user want to access remotely.



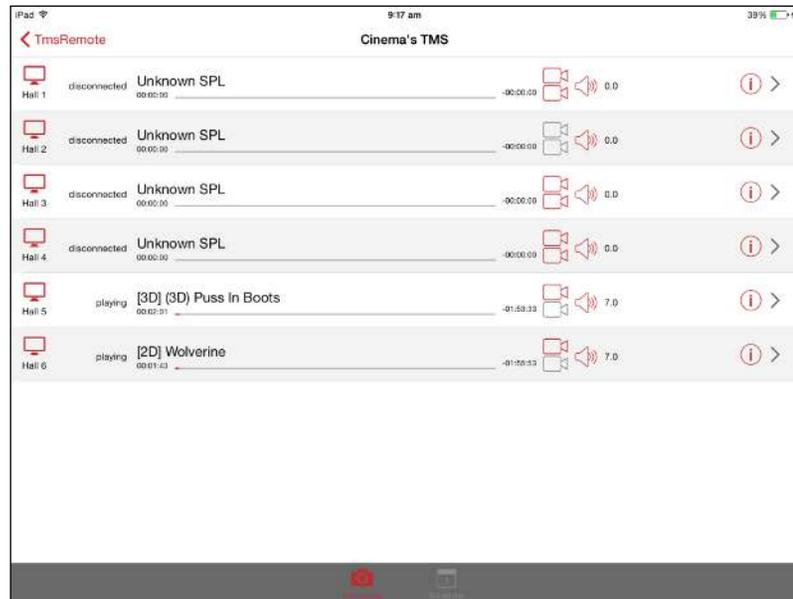
iPad will display the Validate Token page.



Go to TMS, a prompt will be displayed with the token needed to register the user's iPad. Enter the number provided in the prompt in the Validate Token page in the user's iPad. Token is only valid for 50 seconds.

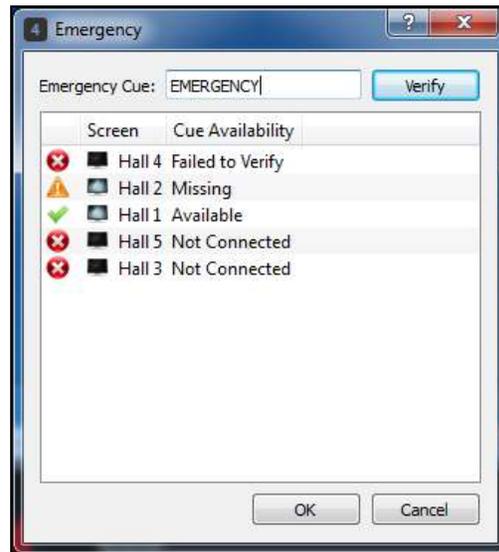


After entering the token displayed in the TMS, user should now be able to access the TMS remotely through the iPad.



8.17. Emergency

TMS can set an automation cue in case of emergency. Enter the automation cue, then click **[Verify]**. This will list down whether all registered screens have the automation cue. Click **[OK]** to save the emergency automation cue.



Check **[Tools]**, Emergency will be available in the list.



Upon selecting this, a pop-up window will be displayed and warns the user that the emergency alarm will trigger on every screen.

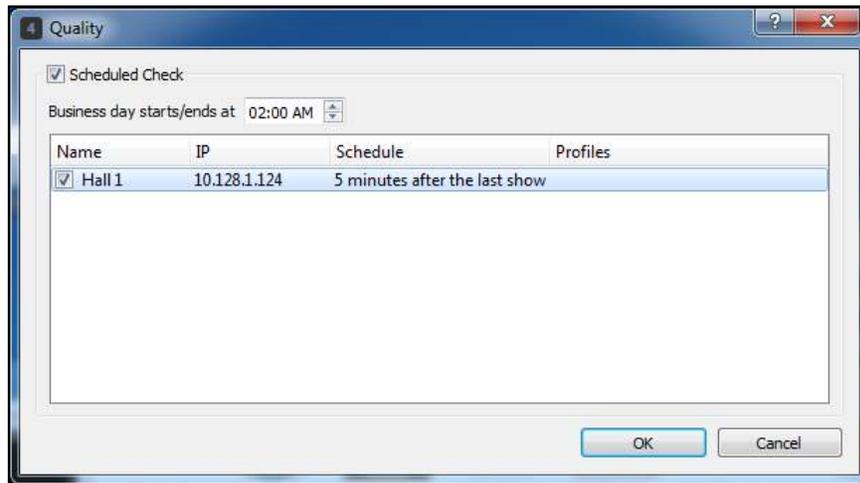


Enter the admin password to execute the emergency automation cue.



8.18. Quality

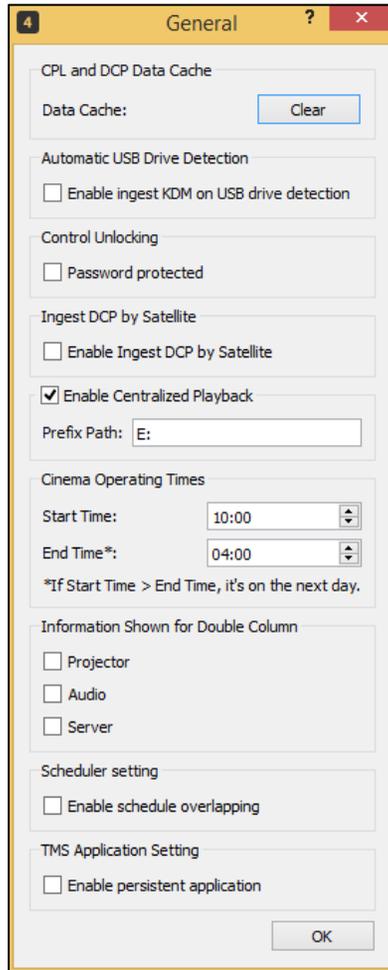
Quality function lets the user schedule a quality test on the selected screens everyday at the time indicated by the user. User should initially run a quality test for the screens before user can set a scheduled quality test, this initial test will be used as a benchmark when running quality test.



Please refer to **Section 7.** of this document for detailed information on the Quality function.

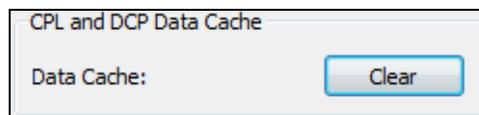
8.19. General

General settings of TMS can be configured by accessing **[General]** in the Preference list.



8.19.1. CPL and DCP Data Cache

In the CPL and DCP Data Cache section of General, user can delete the CPL and DCP data cache of TMS by clicking **[Clear]** button.



8.19.2. Automatic USB Drive Detection

By enabling the **[Enable ingest KDM on USB drive detection]** checkbox in Automatic USB Drive Detection section, TMS will scan for valid KDMs and automatically ingest it when a USB is plugged in to TMS host machine.



8.19.3. Control Unlocking

An added security on playback, projector and sound processor controls is enabled when user selects the check on **[Password protected]** checkbox in Control Unlocking section.

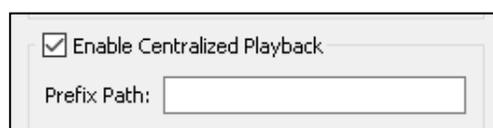


This requires user to enter password whenever the  Lock icon is pressed in the Monitoring tab.



8.19.4. Enable Centralized Playback

[Enable Centralized Playback] is a function of the Centralized Storage Playback Solution, and is supported by the SCL-1000 Mk2, SCL-2000 Mk2, SCL-3000 Mk2 or SCL-4000 Mk2 Centralized Playback Server



8.19.5. Cinema Operating Times

Cinema Operating Times section allows the user to configure the **[Start Time]** and **[End Time]** displayed in the PMA1000 Controls, under the sub-tab of Automation Management window.

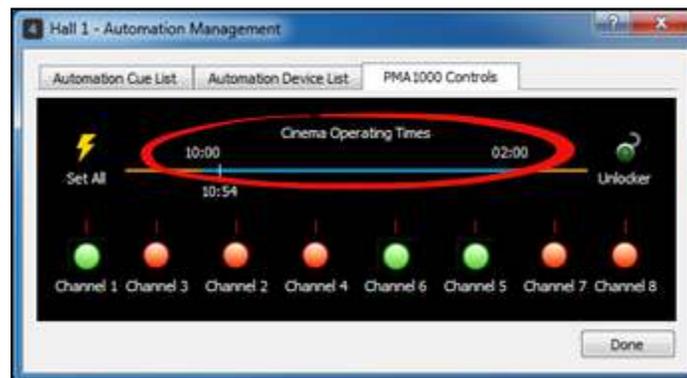
Cinema Operating Times

Start Time: 10:00

End Time*: 02:00

*If Start Time > End Time, it's on the next day.

Values for the **[Start Time]** and **[End Time]** fields will reflect as Cinema Operating Times in the PMA1000 Controls, under the sub-tab of Automation Management window.



8.19.6. Information for Double Column

Information displayed in Monitoring tab when view settings is in double column can be configured in the **Information Shown for Double Column** section. Information will be shown based on the selected checkboxes of the user.

Information Shown for Double Column

Projector

Audio

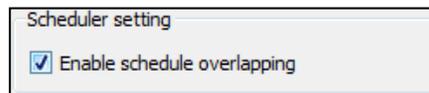
Server

Click **[View]**, **[Monitor]**, **[Double column]**, Monitoring tab view will display the screens in double column.



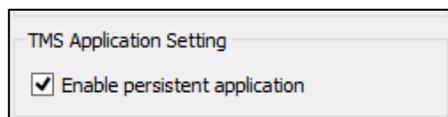
8.19.7. Scheduler Setting

By default user is restricted to add overlapping schedules in the TMS Scheduler timeline but by ticking the **[Enable schedule overlapping]** checkbox in Scheduler setting section, TMS will allow users to create overlapping schedules by manually adding a new schedule, manually mapping POS shows, or through the auto-create mapped shows function of the POS.



8.19.8. Persistent Application

The Persistent Application option when checked will ensure that the TMS application is running at all times.



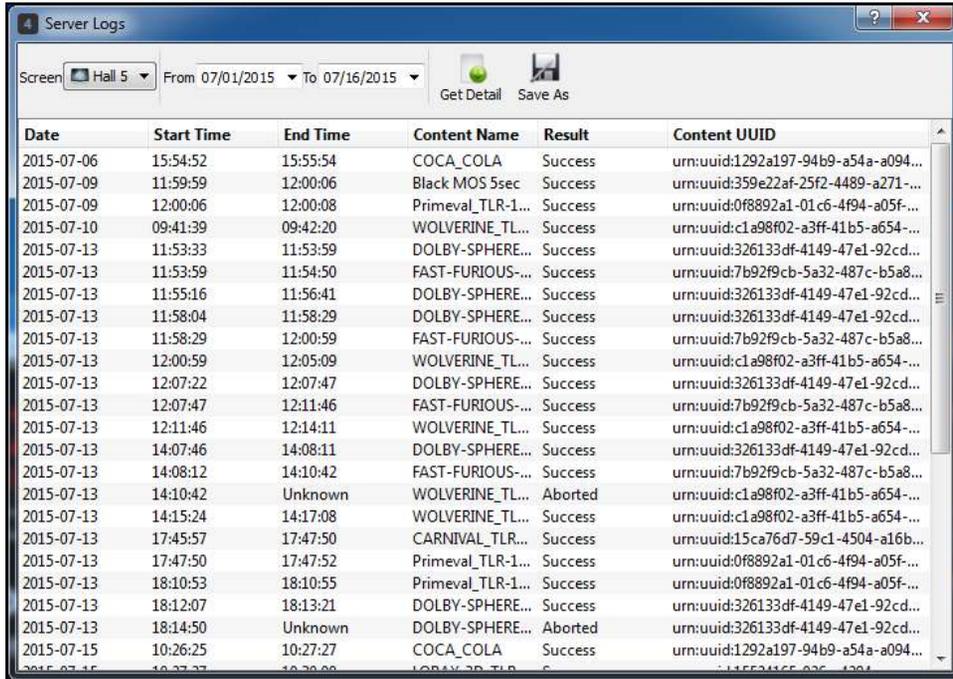
8.20. Language

Language lets user to change the language settings of TMS. Languages available are: English [ENU], Simplified Chinese [CHS], Traditional Chinese [CHT], Spanish [ESP], Indonesian [IND], Japanese [JPN], Korean [KOR], Russian [RUS], Thai [THA].



8.21. Server Logs

The Server Logs allow user to retrieve playback logs of the screens. It can be saved locally as XML file. Currently, retrieval of playback logs is supported from all GDC server models, all Doremi server models, Dolby IMS series and Barco ICMP servers.



The screenshot shows the 'Server Logs' application window. At the top, there is a title bar with a question mark and a close button. Below the title bar, there is a control area with a 'Screen' dropdown menu set to 'Hall 5', a date range selector 'From 07/01/2015 To 07/16/2015', and two buttons: 'Get Detail' and 'Save As'. The main area of the window contains a table with the following columns: Date, Start Time, End Time, Content Name, Result, and Content UUID. The table lists various playback events, including content like COCA_COLA, Black MOS 5sec, Primeval_TLR-1..., WOLVERINE_TL..., DOLBY-SPHERE..., and FAST-FURIOUS-..., with results ranging from Success to Aborted or Unknown.

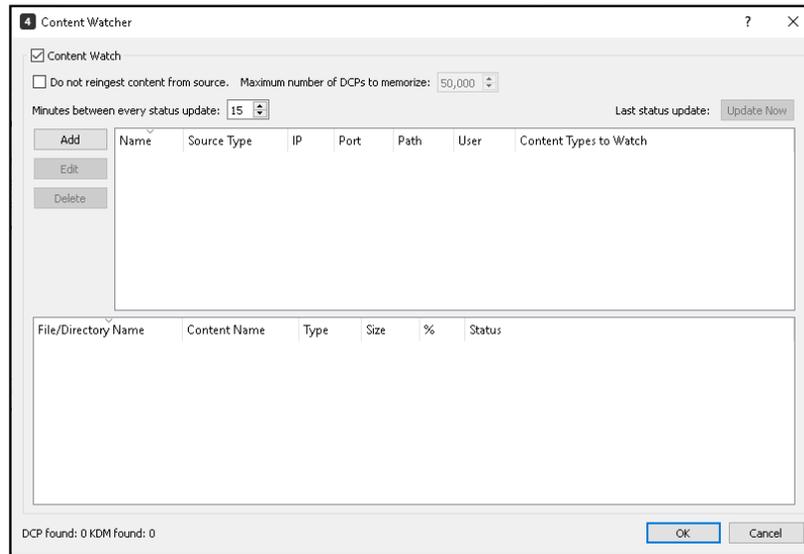
Date	Start Time	End Time	Content Name	Result	Content UUID
2015-07-06	15:54:52	15:55:54	COCA_COLA	Success	urn:uuid:1292a197-94b9-a54a-a094...
2015-07-09	11:59:59	12:00:06	Black MOS 5sec	Success	urn:uuid:359e22af-25f2-4489-a271-...
2015-07-09	12:00:06	12:00:08	Primeval_TLR-1...	Success	urn:uuid:0f8892a1-01c6-4f94-a05f-...
2015-07-10	09:41:39	09:42:20	WOLVERINE_TL...	Success	urn:uuid:c1a98f02-a3ff-41b5-a654-...
2015-07-13	11:53:33	11:53:59	DOLBY-SPHERE...	Success	urn:uuid:326133df-4149-47e1-92cd-...
2015-07-13	11:53:59	11:54:50	FAST-FURIOUS-...	Success	urn:uuid:7b92f9cb-5a32-487c-b5a8-...
2015-07-13	11:55:16	11:56:41	DOLBY-SPHERE...	Success	urn:uuid:326133df-4149-47e1-92cd-...
2015-07-13	11:58:04	11:58:29	DOLBY-SPHERE...	Success	urn:uuid:326133df-4149-47e1-92cd-...
2015-07-13	11:58:29	12:00:59	FAST-FURIOUS-...	Success	urn:uuid:7b92f9cb-5a32-487c-b5a8-...
2015-07-13	12:00:59	12:05:09	WOLVERINE_TL...	Success	urn:uuid:c1a98f02-a3ff-41b5-a654-...
2015-07-13	12:07:22	12:07:47	DOLBY-SPHERE...	Success	urn:uuid:326133df-4149-47e1-92cd-...
2015-07-13	12:07:47	12:11:46	FAST-FURIOUS-...	Success	urn:uuid:7b92f9cb-5a32-487c-b5a8-...
2015-07-13	12:11:46	12:14:11	WOLVERINE_TL...	Success	urn:uuid:c1a98f02-a3ff-41b5-a654-...
2015-07-13	14:07:46	14:08:11	DOLBY-SPHERE...	Success	urn:uuid:326133df-4149-47e1-92cd-...
2015-07-13	14:08:12	14:10:42	FAST-FURIOUS-...	Success	urn:uuid:7b92f9cb-5a32-487c-b5a8-...
2015-07-13	14:10:42	Unknown	WOLVERINE_TL...	Aborted	urn:uuid:c1a98f02-a3ff-41b5-a654-...
2015-07-13	14:15:24	14:17:08	WOLVERINE_TL...	Success	urn:uuid:c1a98f02-a3ff-41b5-a654-...
2015-07-13	17:45:57	17:47:50	CARNIVAL_TLR...	Success	urn:uuid:15ca76d7-59c1-4504-a16b-...
2015-07-13	17:47:50	17:47:52	Primeval_TLR-1...	Success	urn:uuid:0f8892a1-01c6-4f94-a05f-...
2015-07-13	18:10:53	18:10:55	Primeval_TLR-1...	Success	urn:uuid:0f8892a1-01c6-4f94-a05f-...
2015-07-13	18:12:07	18:13:21	DOLBY-SPHERE...	Success	urn:uuid:326133df-4149-47e1-92cd-...
2015-07-13	18:14:50	Unknown	DOLBY-SPHERE...	Aborted	urn:uuid:326133df-4149-47e1-92cd-...
2015-07-15	10:26:25	10:27:27	COCA_COLA	Success	urn:uuid:1292a197-94b9-a54a-a094...
2015-07-15	10:27:27	10:28:08	DOLBY-SPHERE...	Success	urn:uuid:326133df-4149-47e1-92cd-...

8.22. Content Watcher

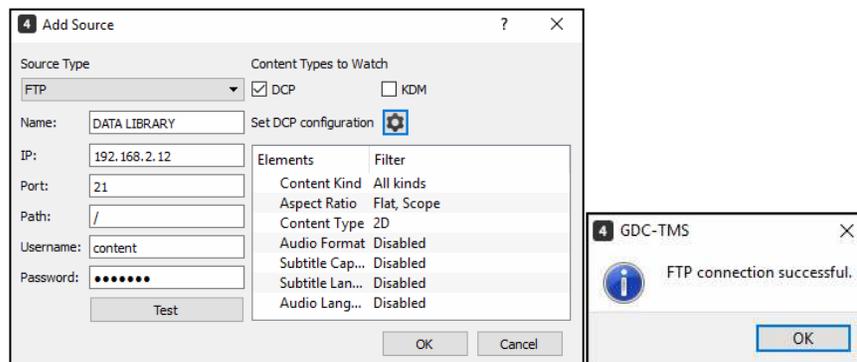
The Content Watcher is a feature of TMS wherein TMS will keep on watching an FTP server for new DCPs and KDMs that are not yet available in TMS Theatre_Store. Once new DCPs and KDMs are listed, TMS will perform an automatic ingest to TMS Theatre_Store.

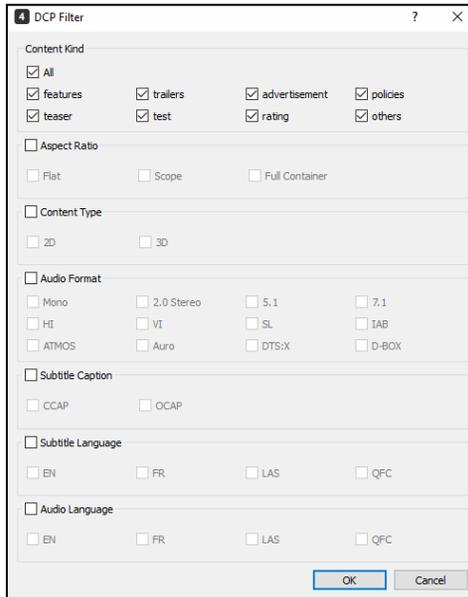
In order to add FTP servers that TMS can watch at every timing interval, tick **[Content Watcher]** checkbox. Timing interval to watch the FTP server's contents can be configured in **[Minutes between every status update]** field.

Click **[Add]** to add new FTP source.

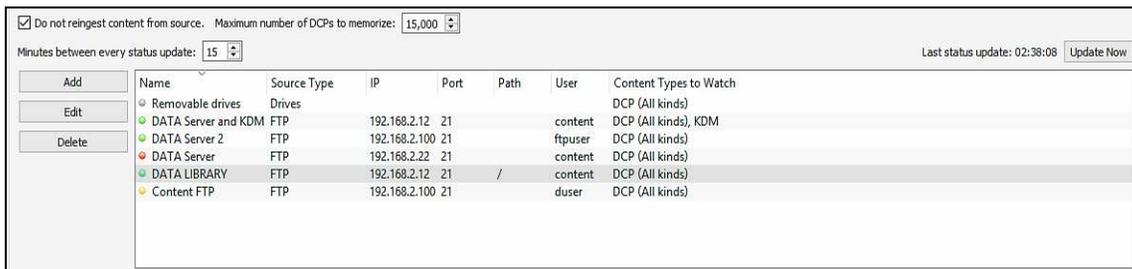


Enter the details of the FTP source, tick the types of contents to watch, configure the kind of content to be ingested, click **[Test]** to check if the connection is successful, and click **[OK]**. FTP server will be added in Content Watcher's first table.



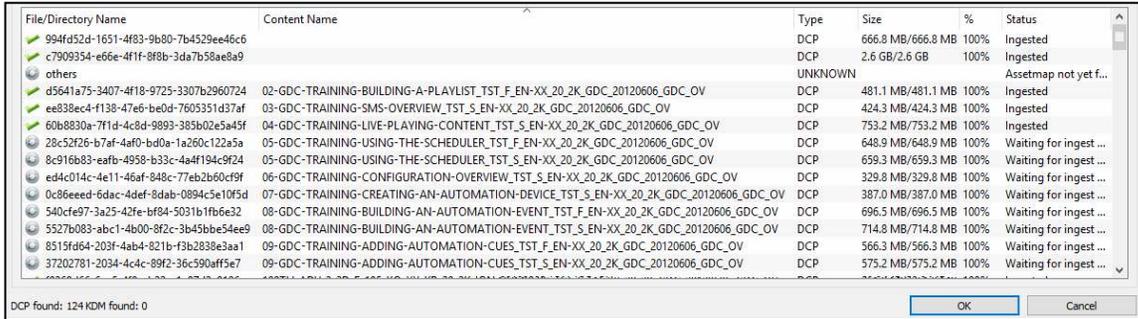


Click **[Update Now]** to connect to the FTP servers added in the Content Watcher’s first table. The green dot beside the server name indicates that the FTP server is online, while the red dot indicates that it is offline.



TMS will scan the server for DCPs and KDMs that are available in the FTP server and it will list down all the contents available in Content Watcher’s second table. Information of the content such as the File/Directory Name, Content Name, Type, Size, Percentage and Status will be available in the table.

8. PREFERENCES



File/Directory Name	Content Name	Type	Size	%	Status
994fd52d-1651-4f83-9b80-7b4529ee46c6		DCP	666.8 MB/666.8 MB	100%	Ingested
c7909354-e66e-4f1f-8f8b-3da7b58ae8a9		DCP	2.6 GB/2.6 GB	100%	Ingested
others		UNKNOWN			Assetmap not yet f...
d5641a75-3407-4f18-9725-3307b2960724	02-GDC-TRAINING-BUILDING-A-PLAYLIST_TST_F_EN-XX_20_2K_GDC_20120606_GDC_OV	DCP	481.1 MB/481.1 MB	100%	Ingested
ee838ec4-f138-47e6-be0d-7605351d37af	03-GDC-TRAINING-SMS-OVERVIEW_TST_S_EN-XX_20_2K_GDC_20120606_GDC_OV	DCP	424.3 MB/424.3 MB	100%	Ingested
60b8830a-7f1d-4c8d-9893-385b02e5a45f	04-GDC-TRAINING-LIVE-PLAYING-CONTENT_TST_S_EN-XX_20_2K_GDC_20120606_GDC_OV	DCP	753.2 MB/753.2 MB	100%	Ingested
28c52f26-b7af-4af0-bd0a-1a260c122a5a	05-GDC-TRAINING-USING-THE-SCHEDULER_TST_F_EN-XX_20_2K_GDC_20120606_GDC_OV	DCP	648.9 MB/648.9 MB	100%	Waiting for ingest ...
8c916b83-eafb-4958-b33c-4a4f194c9f24	05-GDC-TRAINING-USING-THE-SCHEDULER_TST_S_EN-XX_20_2K_GDC_20120606_GDC_OV	DCP	659.3 MB/659.3 MB	100%	Waiting for ingest ...
ed4c014c-4e11-46af-848c-77eb2b60cf9f	06-GDC-TRAINING-CONFIGURATION-OVERVIEW_TST_S_EN-XX_20_2K_GDC_20120606_GDC_OV	DCP	329.8 MB/329.8 MB	100%	Waiting for ingest ...
0c86eed-6dac-4def-8dab-0894c5e10f5d	07-GDC-TRAINING-CREATING-AN-AUTOMATION-DEVICE_TST_S_EN-XX_20_2K_GDC_20120606_GDC_OV	DCP	387.0 MB/387.0 MB	100%	Waiting for ingest ...
540cf97-3a25-42fe-bf84-5031b1fb6e32	08-GDC-TRAINING-BUILDING-AN-AUTOMATION-EVENT_TST_F_EN-XX_20_2K_GDC_20120606_GDC_OV	DCP	696.5 MB/696.5 MB	100%	Waiting for ingest ...
5527b083-abc1-4b00-8f2c-3b45bbe54ee9	08-GDC-TRAINING-BUILDING-AN-AUTOMATION-EVENT_TST_S_EN-XX_20_2K_GDC_20120606_GDC_OV	DCP	714.8 MB/714.8 MB	100%	Waiting for ingest ...
8515fd64-203f-4ab4-821b-f3b2838e3aa1	09-GDC-TRAINING-ADDING-AUTOMATION-CUES_TST_F_EN-XX_20_2K_GDC_20120606_GDC_OV	DCP	566.3 MB/566.3 MB	100%	Waiting for ingest ...
37202781-2034-4c4c-89f2-36c590aff5e7	09-GDC-TRAINING-ADDING-AUTOMATION-CUES_TST_S_EN-XX_20_2K_GDC_20120606_GDC_OV	DCP	575.2 MB/575.2 MB	100%	Waiting for ingest ...

DCP found: 124 KDM found: 0

OK Cancel

The following icons indicates the content's ingest status:



- indicates that the content is ingested



- indicates that the content is waiting for ingest to start or the content is ingesting.

Click **[OK]** in the Content Watcher window to save the configurations of Content Watcher.

8.23. Web UI Access

Users can view TMS Monitoring through Web UI. This allows user to view the real time status of the screens only. To access the Web UI, open a web browser, then enter "https://TMS_IP_Address:9005/" in the address bar.

Sign in

https://192.168.254.100:9005

Username: admin

Password: *****

Sign in Cancel

Enter User Name and Password then click **[OK]** button. The web browser will display the real time status of the screens in TMS. Users can request for the user name and password from their local service providers.

GDC TMS Web GUI - Mozilla Firefox

https://10.128.1.129:9004

Hall	Status	Content	Time	Updated at	Starts In	Projector	Audio	Server
Hall 1	Offline	Unknown SPL (Unknown Clip)	00:00:00				Level: 7.0, Mute: OFF, Decode: N/A, Format: N/A	serial: 222001, Software: 2.4.1.0, OS: , Data Usage: 484.0 GB
Hall 2	Offline	Unknown SPL (Unknown Clip)	00:00:00				Level: 7.0, Mute: OFF, Decode: N/A, Format: N/A	serial: 04.08.01.18, OS: , Data Usage: 0 B
Hall 3	Offline	Unknown SPL (Unknown Clip)	00:00:00				Level: 7.0, Mute: OFF, Decode: N/A, Format: N/A	serial: A04248, Software: 7.82, OS: OS-SA2K-2.0.37, Data Usage: 771.0 GB
Hall 4	Stopped	[3D] The Adventures of TINTIN	00:00:00	17:49:12		282 3D Scope	Level: 7.0, Mute: OFF, Decode: N/A, Format: N/A	serial: 00000010D468, Software: 1.5.0-3848, OS: 1.5.1(265), Data Usage: 1.6 TB
Hall 5	Playing	[3D] The Twilight Saga (CARNIVAL_TLR-D-3D_F_EN-XX_OV_51_2K_PC_20111019_DLA_13D_OV)	00:00:36	17:51:16	00:14:08:44	23.2 1	Level: 7.0, Mute: OFF, Decode: N/A, Format: N/A	serial: A00000, Software: 9.00-built4359, OS: OS-SX3K-1.0.0, Data Usage: 1.3 TB
Hall 6	Offline	Unknown SPL (Unknown Clip)	00:00:00				Level: 7.0, Mute: OFF, Decode: N/A, Format: N/A	serial: A07457, Software: 9.00-built4359, OS: OS-SA3K-1.0.67, Data Usage: 1.4 TB

Navigation: < Hall 1 > < Hall 2 > < Hall 3 > Hall 4 < Hall 5 > < Hall 6 >

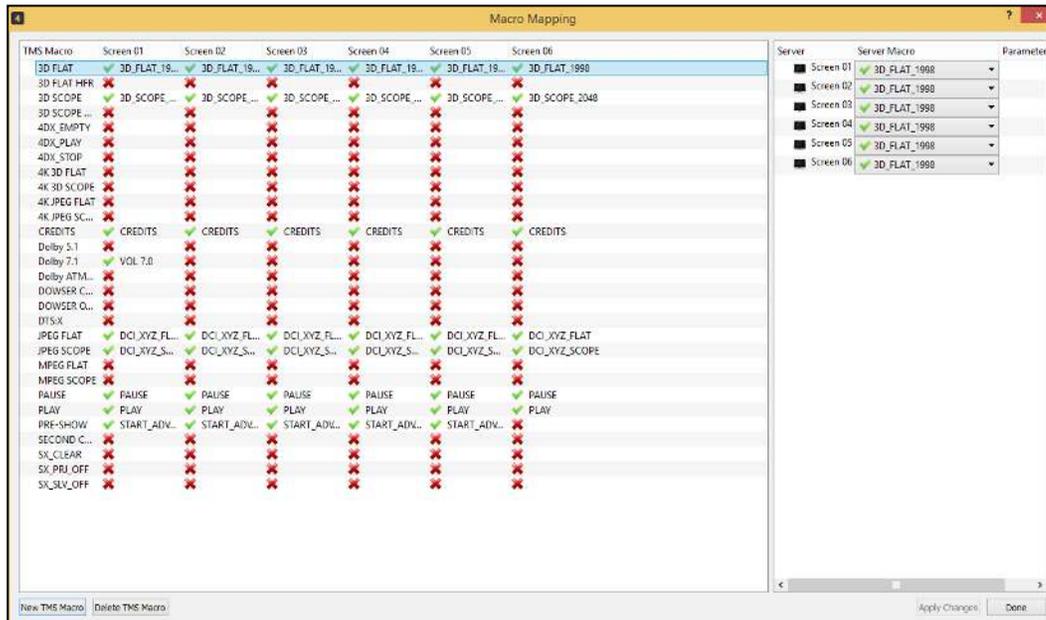
GDC Powered by GDC Technology

8.24. Macro Mapping

The Macro Mapping feature of TMS allows users to map macros from different servers in the TMS macro table. Macro Mapping window provides an user interface for users to define the equivalent server macros and its parameters from the TMS macro list. Server macros list are retrieved from its respective server every time the user initializes a connection to the server.

Default TMS Macros are as follows: **3D FLAT**, **3D FLAT HFR**, **3D SCOPE**, **3D SCOPE HFR**, **4DX_EMPTY**, **4DX_PLAY**, **4DX_STOP**, **4K 3D FLAT**, **4K 3D SCOPE**, **4K JPEG FLAT**, **4K JPEG SCOPE**, **CREDITS**, **Dolby 5.1**, **Dolby 7.1**, **Dolby ATMOS**, **DOWSER CLOSE**, **DOWSER OPEN**, **DTS:X**, **JPEG FLAT**, **JPEG SCOPE**, **MPEG FLAT**, **MPEG SCOPE**, **PAUSE**, **PLAY**, **PRE-SHOW**, **SECOND CREDITS**, **SX_CLEAR**, **SX_PRJ_OFF**, **SX_SLV_OFF**

The default **CREDITS** TMS Macro is used by Template System as the credit cue that is placed in the credit offset configured for the POS title when generating schedules and show playlist.



User is allowed to add/remove user defined TMS macros. To add user defined TMS macro, click **[New TMS Macro]** button in the lower left corner of Macro Mapping window. The New TMS Macro window will be displayed, enter the TMS Macro name in the field, then click **[OK]** button.



The new user defined TMS Macro will be added in the TMS Macro table. User defined TMS macros can be modified and deleted in the list while the default TMS macros in the list is not allowed to be modified and deleted.

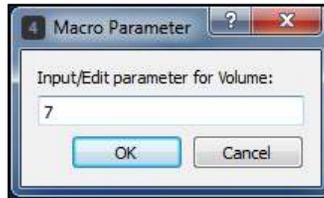
TMS Macro	SCR2	SCR3	SCR4
2D FLAT	✓ 2D_FLAT	✓ 2D_FLAT	✓ 2D_FLAT
2D SCOPE	✓ 2D_SCOPE	✓ 2D_SCOPE	✓ 2D_SCOPE
3D FLAT	✓ 3D_FLAT	✓ 3D_FLAT	✓ 3D_FLAT
3D FLAT HFR	✓ 3D_FLAT	✓ 3D_FLAT	✓ 3D_FLAT
3D SCOPE	✗	✗	✗
3D SCOPE HFR	✗	✗	✗
4DX PLAY	✗	✗	✗
4K 3D FLAT	✗	✗	✗
4K 3D SCOPE	✗	✗	✗
4K JPEG FLAT	✗	✗	✗
4K JPEG SCOPE	✗	✗	✗
CREDITS	✓ test	✗	✗
Dolby 5.1	✓ 5.1ch	✓ 5.1ch	✓ 5.1ch
Dolby 7.1	✓ 7.1ch	✓ 7.1ch	✓ 7.1ch
Dolby ATMOS	✗	✗	✗
DOWSER CLOSE	✓ Dowser_CL...	✓ Dowser_CL...	✓ Dowser_CLOSE
DOWSER OPEN	✓ Dowser_OP...	✓ Dowser_OP...	✓ Dowser_OPEN
DTS:X	✗	✗	✗
JPEG FLAT	✗	✗	✗
JPEG SCOPE	✗	✗	✗
LIGHT DOWN	✓ Light_DOWN	✓ Light_DOWN	✓ Light_DOWN
LIGHT HALF	✓ Light_HALF	✓ Light_HALF	✓ Light_HALF
LIGHT UP	✓ Light_UP	✓ Light_UP	✓ Light_UP
MPEG FLAT	✗	✗	✗
MPEG SCOPE	✗	✗	✗
PAUSE	✗	✗	✗
PLAY	✗	✗	✗
Play Stop	✗	✗	✗
PRJ Lamp Off	✓ Lamp_OFF	✓ Lamp_OFF	✓ Lamp_OFF
PRJ Lamp On	✓ Lamp_ON	✓ Lamp_ON	✓ Lamp_ON
SECOND CREDITS	✗	✗	✗
Set Audio Volume: 7dB	✗	✗	✗

User can edit the TMS Macro name by double-clicking the TMS macro in the table and entering the new TMS Macro in the field, then click **[OK]** button.

To start mapping server macros to TMS macros, select a TMS Macro in the table. On the left panel of the window, select server macros that correspond to the selected TMS macro for each of the servers in the list.

Server	Server Macro	Parameter
Hall 1	✗ <<Unselected>>	...
Hall 2	✗ <<Unselected>>	...
Hall 3	✓ Jump to Feature	...
Hall 4	✓ Close Dowser	...
Hall 5	✓ Pause	...
Hall 5	✓ Audio Volume: 7dB	...
Hall 5	✓ Play	...
Hall 6	✓ 3D Flat	...
Hall 6	✓ Fire Alarm	...
Hall 6	✓ Open Dowser	...
Hall 6	✓ Lamp On	...

User can assign Parameters to server macros by clicking **[...]** button beside the Parameter column of the respective server. The Macro Parameter window will be displayed. Enter the parameter value in the field, then click **[OK]** button.



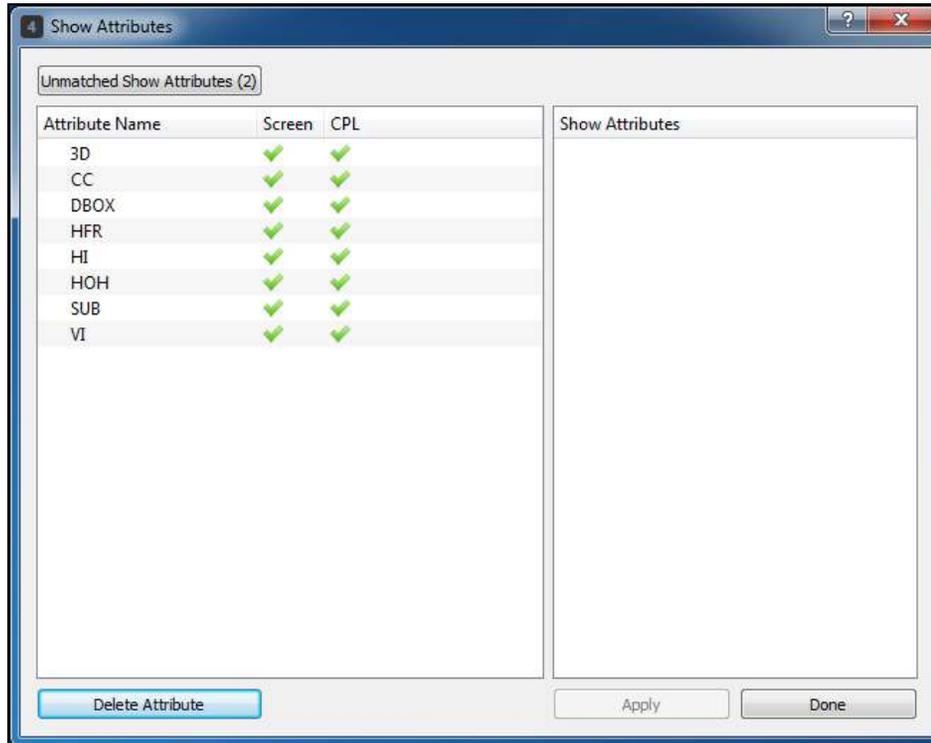
Parameter set to the macro will be saved and displayed beside its respective server macro.

Server	Server Macro	Parameter	
Hall 1	✓ Audio Volume: 7dB		...
Hall 2	✓ Volume	7	...
Hall 3	✓ Aud Vol 7dB		...
Hall 4	✓ Aud Volume 7dB		...
Hall 5	✓ AUD VOL to 7dB		...
Hall 6	✗ <<Unselected>>		...

Once all TMS macros are configured to the server macros, click **[Apply Changes]** button to save changes made.

8.25. Show Attributes

Show Attributes of the shows available in the POS can be retrieved by TMS. If there are attributes that does not match with the predefined attributes of TMS, it can be matched with the predefined attributes in TMS or created as a new attribute in TMS. Predefined Attributes available in TMS are **3D, CC, DBOX, HFR, HI, HOH, SUB, and VI**.



Once TMS detects that there are attributes available in the POS that are not predefined in TMS, the **[Unmatched Show Attribute (M)]** button will be enabled to the user else this button will be disabled to the user. User can click this button to match the new attributes from the shows of POS with the predefined attributes in TMS or to create an entirely new attribute in TMS.

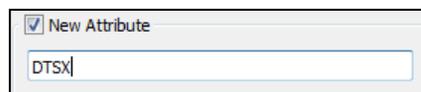
To match the new attributes available in the shows of the POS, click **[Unmatched Show Attribute (M)]** button, Unmatched Show Attributes window will be displayed.



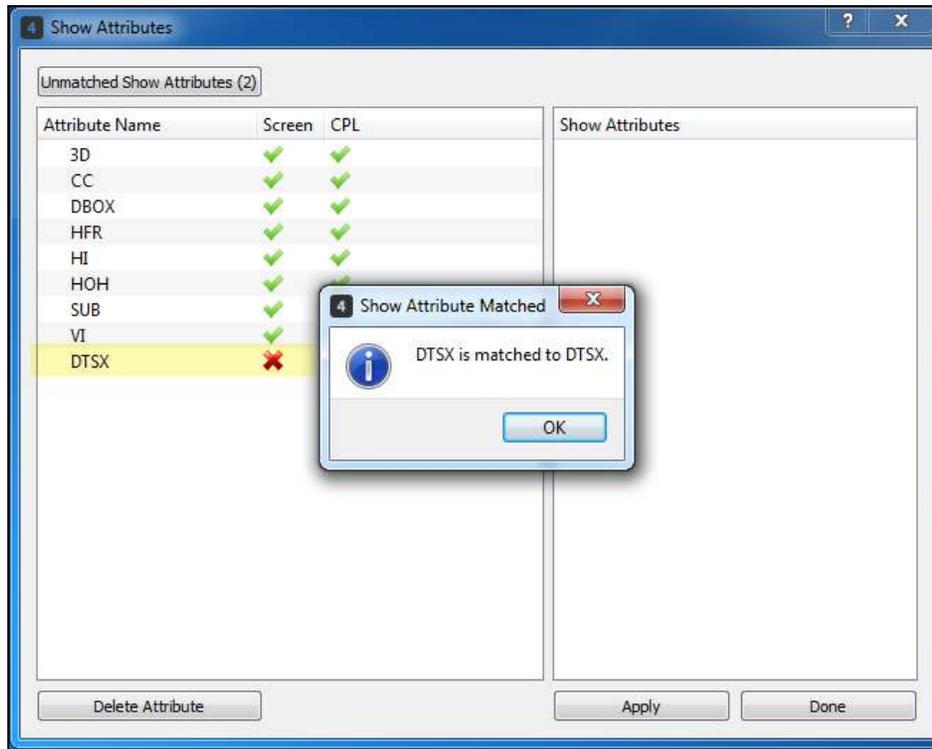
Select an unmatched show attribute in the list, then click **[Match with...]** button. The Attribute to Match window will be displayed, this allows user to create a New Attribute or match it with the predefined attributes available in TMS.



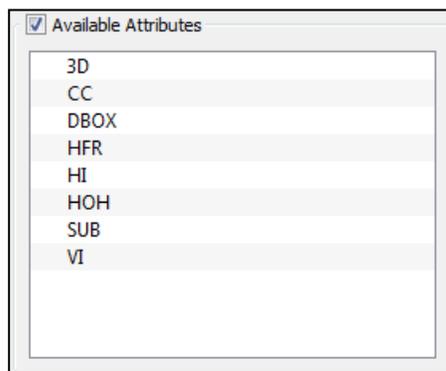
To create a new attribute, tick **[New Attribute]** checkbox, then enter the Attribute Name.



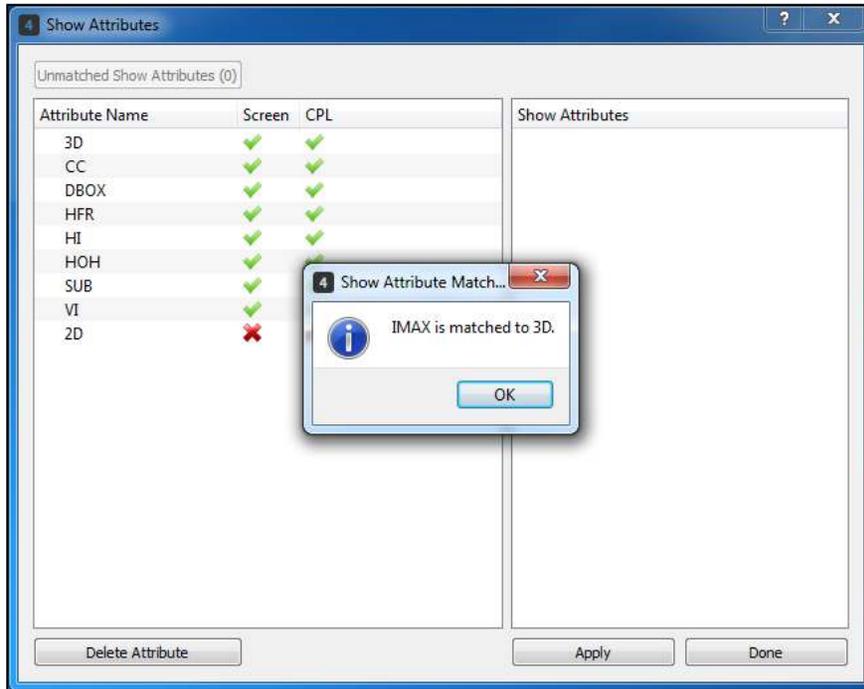
Click **[Match]** button. The New Attribute will be listed in the Show Attribute list.



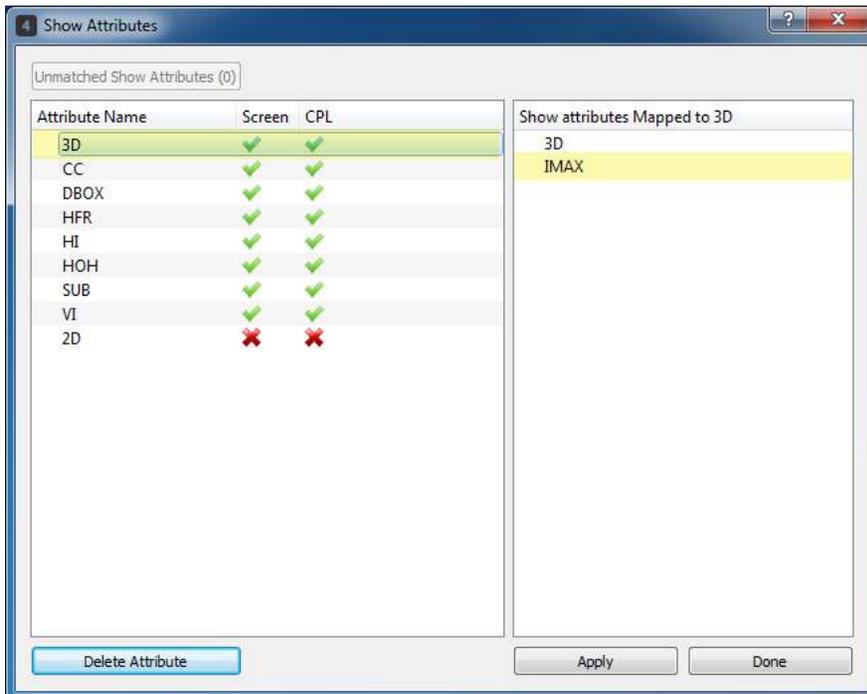
User can also match the attribute with the predefined attributes available in TMS, tick **[Available Attributes]** checkbox, then select a predefined attribute in the list.



Click **[Match]** button. The attribute will be matched with the predefined attribute available in TMS.

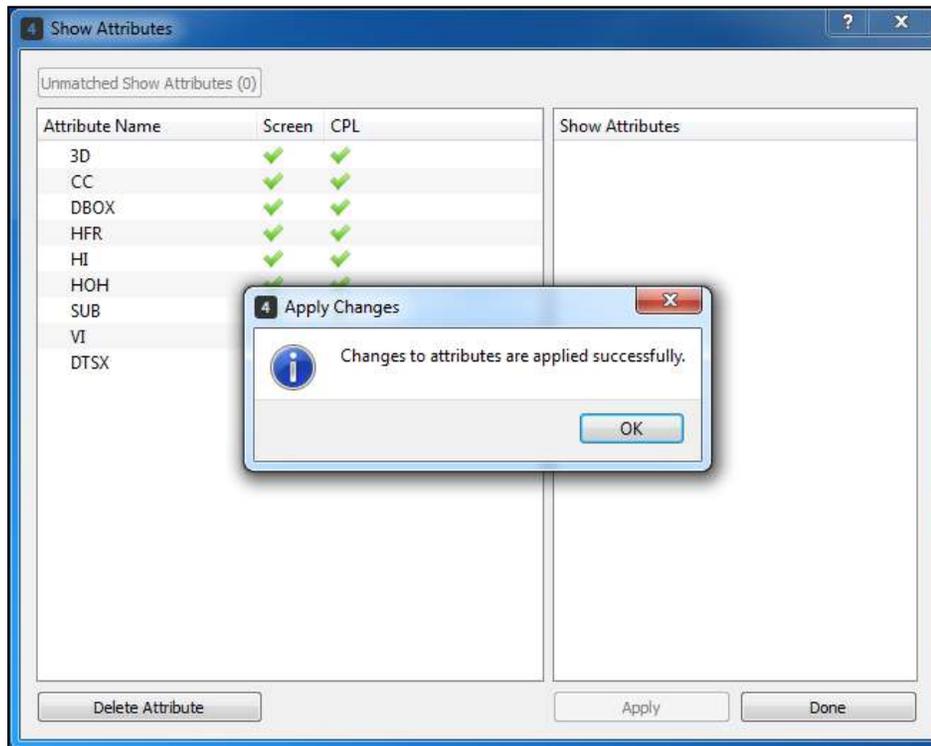


Show Attributes will be listed retrieved and matched with the predefined Attributes in TMS is listed in the Show Attributes table in the left Panel of Show Attributes Window.



Show Attribute window also allows user to define whether the Attribute Names are for Screens or CPLs. User can click the  or  icons to define the Attribute Name. The  icon indicates that the Screen/CPL possess the server attribute while  icon indicates that it is not a screen/CPL attribute.

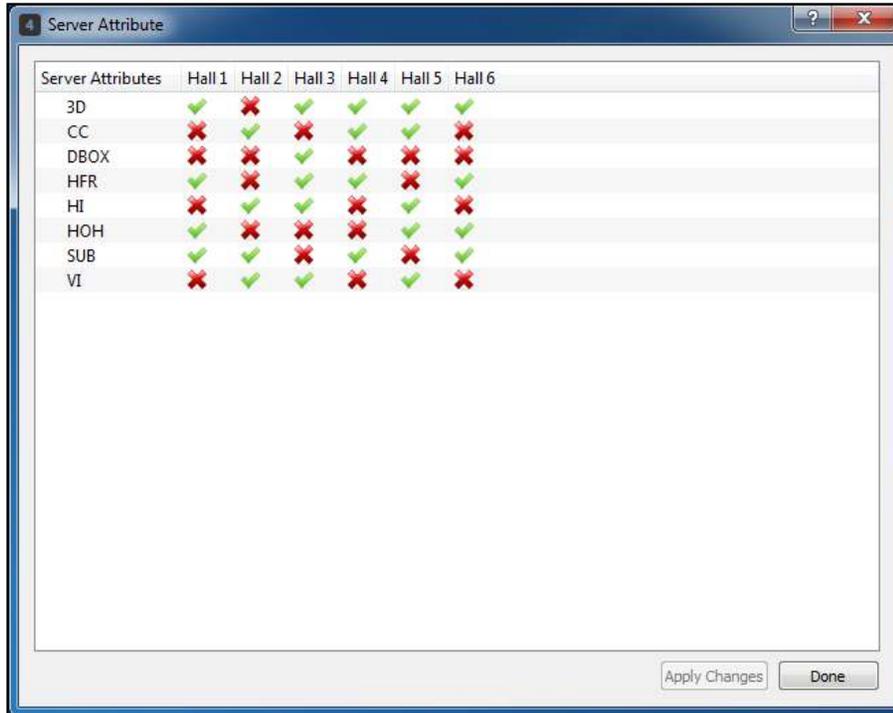
Once all attributes are defined, click **[Apply]** button to save changes made.



Note: Show Attribute only supports VISTA and VISTA – China POS vendor in the current TMS version.

8.26. Server Attribute

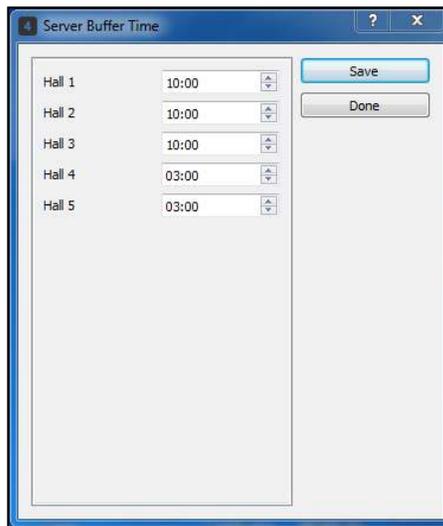
Server Attribute allows user to define the server attributes of the screens registered in TMS. Server Attributes listed are the defined screen attributes set by the user in the Show Attribute window. User can click the  or  icons to define server attribute of the screen. The  icon indicates that the screen possess the server attribute while  icon indicates that it does not have the server attribute.



Once all server attributes are defined, click **[Apply Changes]** button to save changes made.

8.27. Server Buffer Time

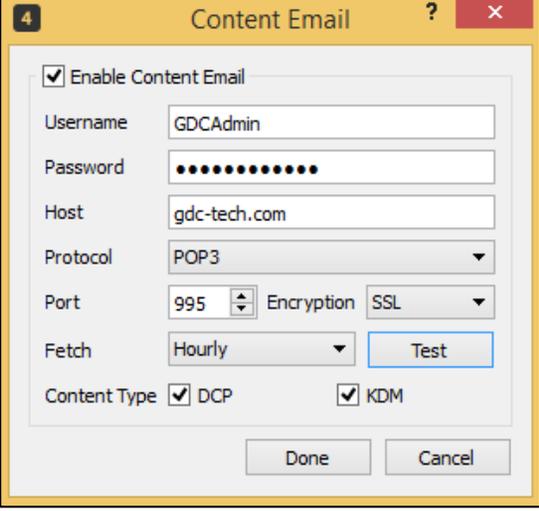
Server buffer time configuration allows user to define a buffer time for POS scheduling for each of the screen registered in TMS. Server buffer time indicates the time interval between two POS schedules which is generated by the template system. If POS schedule exceeds the buffer time set for the server, it should not generate the succeeding schedule and its corresponding show playlist. The default server buffer time is 3 minutes and the maximum time that the user can configure is 10 minutes. Buffer time format is in *MM:SS*.



In the scenario above, Hall 1, 2 and 3 buffer time is set to 10 minutes, this means interval for POS schedules to be generated by template system should not be less than 10 minutes. Once all server buffer times are defined, click [**Save**] button to save changes made, then click [**Done**] to close the Server Buffer Time window.

8.28. Content Email

Content Email function enables automatic ingestion of KDMs and DCPs from an email source into the Theatre store.



The screenshot shows a dialog box titled "Content Email" with a yellow border. It contains the following fields and controls:

- Enable Content Email
- Username: GDCAdmin
- Password: [Redacted]
- Host: gdc-tech.com
- Protocol: POP3
- Port: 995
- Encryption: SSL
- Fetch: Hourly
- Content Type: DCP, KDM
- Buttons: Done, Cancel, Test

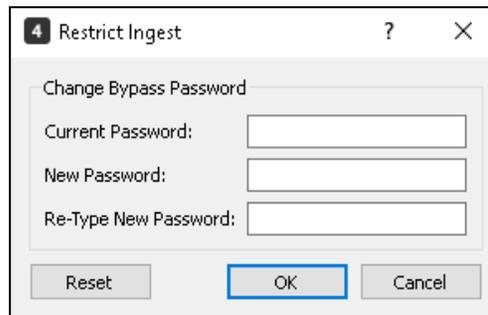
Once the required configuration has been done and connection to the email server has been setup, TMS will keep scanning the e-mail server at regular intervals for new incoming emails with DCPs and KDMs that are not yet available in TMS Theatre_Store. The DCPs and KDMs are then automatically ingested to the TMS Theatre_Store.

The intervals to scan for new DCPs and KDM emails can be set to '15 minutes', '30 minutes' or 'hourly' basis.

8.29. Restrict Ingest

The Restrict Ingest feature will restrict the user to ingest content during cinema operating hours. When this feature is enabled, TMS will prompt for a password when user tries to ingest content during cinema operating hours.

Please check with GDC for the default password for the restrict ingest feature.



4 Restrict Ingest ? X

Change Bypass Password

Current Password:

New Password:

Re-Type New Password:

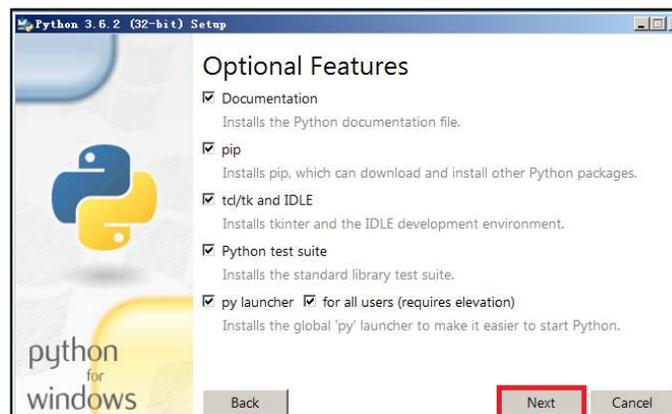
Reset OK Cancel

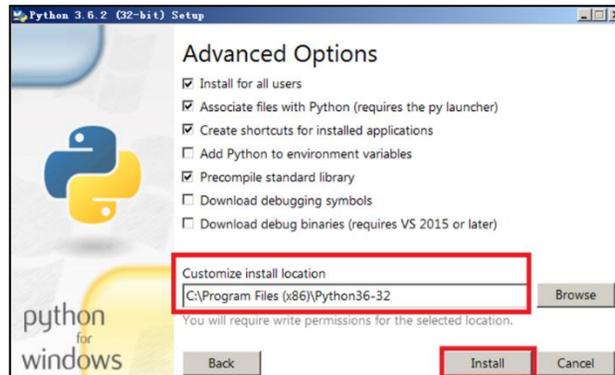
8.30. Auto PMA

Using the **Auto PMA** feature, it is possible to automatically schedule the powering ON & powering OFF of devices which have been setup on the PMA-2000. Refer to **Section 4.** for details on how to add and map a PMA device to a screen. The following sub-sections will explain how to this can be achieved, by modification of the Auto-PMA Power-ON & Power-OFF scripts.

8.30.1. Installing Python on the TMS Machine

In order to edit the Auto-PMA Power ON & Power OFF scripts, we need to install **Python (Version 3.6.2 or higher)** on the TMS machine. The installation file for Python can be downloaded from <https://www.python.org/>. Once downloaded, double click on the executable file to start the setup wizard. The installation path for Python 3.6.2 needs to be set as shown below.





8.30.2. Editing the Auto-PMA scripts using Python

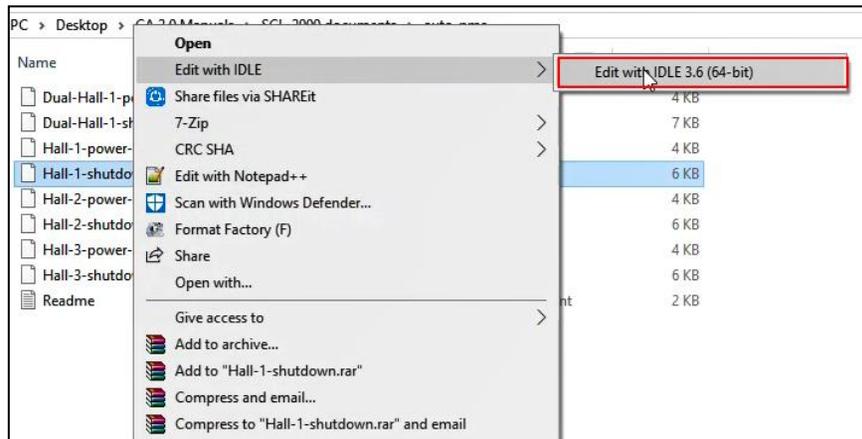
In order to access the Auto-PMA feature, the PMA **Power ON & Shutdown** scripts need to be created & uploaded. Every movie theater has different devices or ways to power on/off the devices, hence these script files cannot be standardized. The script files must be created according to the theater's actual requirements (please contact GDC for the script files).

The PMA Power ON & Shutdown scripts can be divided into two categories:

- a. For normal screen server setup:
 - *Hall-1-power-on.py* - for powering on
 - *Hall-1-shutdown.py* - for shutdown
- b. For dual screen server setup:
 - *Dual-Hall-1-power-on.py* - for powering on
 - *Dual-Hall-1-shutdown.py* - for shutdown

Note: These script files should be renamed as per the screen server. It is recommended that the script filename should not start with a number.

In order to edit these script files, right-click & open them using the Python editor **IDLE** as shown below.



The default Power ON and Shutdown scripts for Auto PMA are saved under the path 'C:\Program Files (x86)\GDC\TMS\Sample Scripts\auto-pma'. Save the edited scripts onto the drive with the film library in the TMS Server inside a folder named "Auto-PMA". Follow the steps mentioned below to edit the Power ON/ Shutdown scripts:

1. Configure the **Auto PMA Power ON** script:
 - a) Edit the file name of the Power ON script: "Hall-*-power-on" (* represents the hall number);
 - b) Set the **Server UUID** (check in the Server management interface), **IP address** and **Server type**.
 - c) Set **PMA type** and **IP address**;
 - d) To set the automation mode for ACS-2800, use "True" and set the **IP address**. If not used, disable with "False".
 - e) Set the projector type [if the projector model is CHRISTIE (S1, S2, S3), NEC (S1, S2) or SONY MSM 600] **HAS_PROJECTOR** must be set as "True". Set the corresponding **Projector model** and **IP address**. Set as "False" for other projector models.
 - f) To set auto start mode for DOLBY sound processor, set as "True" and set the **model number** and **IP address**. If not used, disable with "False".
2. Configure the **Auto PMA Shutdown** script:
 - a) Edit the file name of the script: "Hall-*-shutdown" (* is the hall number);
 - b) Set the **Server UUID** (check in the Server management interface), **IP address** and **Server type**.
 - c) Set **PMA type** and **IP address**.
 - d) To set the automation mode for ACS-2800, use "True" and set the **IP address**. If not used, disable with "False";
 - e) Set the projector type [if the projector model is CHRISTIE (S1, S2, S3), NEC (S1, S2), or SONY MSM 600] **HAS_PROJECTOR** must be set as "True". Set the corresponding **Projector model** and **IP address**. Set as "False" for other projector models.

Description of the PMA script parameters are as follows:

- *Parameter **Z_MINUTES*** = 5 * 60: means that the script will check if the shutdown conditions (For example: If the playback server has finished playback, if no transfers are in progress etc.) have been met every 5 minutes starting from the scheduled script execution time for a particular screen under **Preferences → Auto PMA**.
- *Parameter **N*** = 3: means that the script will determine the shutdown conditions three times continuously. In the above example, the script will check if the shutdown conditions are met in intervals of 5 minutes.
- *Parameter **T1*** = 120: means that the script will determine if there are no scheduled shows within the next 120 minutes every time the shutdown conditions are checked.
- *Parameter **T2*** = 60: means that the script will wait 60 seconds after IMB is powered down (IMB executes "power-off") before powering off the projector.
- *Parameter **T3*** = 1 * 60: means that the script will wait 1 minute after projector has been powered off.
- *Parameter **LIFE_IN_SECONDS*** = 3600 * 6: means that the script will run for a total of 6 hours from the scheduled script execution time for a particular screen under **Preferences → Auto PMA**. If the shutdown conditions are not met after the initial checks defined by parameters 'Z_MINUTES' and 'N'.

The values mentioned against each of the above parameters, are only an example. These can be adjusted according to actual requirements at site. Please refer to the below examples of modified Power ON & Shutdown scripts respectively. Save these script files once the changes are made.

```

#!/usr/bin/python

import sys
import time
import subprocess
from datetime import datetime

PMA_SCRIPT_VERSION = '1.0.5000'

#-----
# config settings. change these variables per server
#-----
script_file = 'Hall-7-power-on'

#-----
# config settings. change these variables per server
# Important:
# For SERVER_UUID please refer to TMS/SCL server management
#
# Available model:
# GDC: gdc
# Barco ICMP: barco
#
# Default Login:
# GDC:
# Barco ICMP: admin:Admin1234
#-----
SERVER_UUID = '9d82ccc0-b380-48b3-9b3c-fbb1b0e72ba2'
SERVER_IP = '10.103.164.71'
SERVER_MODEL = 'gdc'
SERVER_UID = ''
SERVER_PWD = ''

#-----
# Change this only if PMA model/IP changed
# Available model:
# GDC PMA-1000: PMA1000
# CFNJ SDB10-18: SDB1018
# CFNJ ICS-80 : ICS80
#-----
PMA_MODEL = 'PMA1000'
PMA_IP = '10.103.164.207'

#-----
# Change this only if AUTOMATION model/IP changed
# Available model:
# GDC ACS-2800: ACS2800
#
#
#HAS_AUTOMATION = False
#-----
HAS_AUTOMATION = False
AUTOMATION_MODEL = 'ACS2800'
AUTOMATION_IP = '10.7.33.10'

#-----
# Change this only if PROJECTOR model/IP changed
# Available model:
# Christie Series 1: CHRISTIE
# Christie Series 2: CHRISTIE S2
# Christie Series 3: CHRISTIE S3
# NEC Series 1: NEC
# NEC Series 2: NEC S2
# Sony SRX-R608: SONY SMS 600
#
#
# HAS_PROJECTOR = True
#-----
HAS_PROJECTOR = False
PROJECTOR_MODEL = 'CHRISTIE S2'
PROJECTOR_IP = '10.7.33.11'
PROJECTOR_USERNAME = ''
PROJECTOR_PASSWORD = ''

#-----
# Change this only if Sound Processor IP/Model changed
# Available model:
# Dolby CP650: CP650
# Dolby CP750: CP750
# Dolby CP850: CP850
#-----
HAS_PROCESSOR = False
AUDIO_MODEL = 'CP750'
AUDIO_IP = '10.7.33.18'

```

```

PMA_SCRIPT_VERSION = '1.0.5000'

#-----
# config settings. change these variables per server
# Important:
# For SERVER_UUID please refer to TMS/SCL server management
#
# Available model:
# GDC: gdc
# Barco ICMP: barco
#
# Default Login:
# GDC:
# Barco ICMP: admin:Admin1234
#-----
script_file = 'Hall-7-shutdown'
SERVER_UUID = '9d82ccc0-b380-48b3-9b3c-fbb1b0e72ba2'
SERVER_IP = '10.103.164.71'
SERVER_MODEL = 'gdc'
SERVER_UID = ''
SERVER_PWD = ''

#-----
# change this only if automation model/IP changed
# available model:
# GDC PMA-1000: PMA1000
# CFNJ SDB10-18: SDB1018
# CFNJ ICS-80 : ICS80
#-----
PMA_MODEL = 'PMA1000'
PMA_IP = '10.103.164.207'

#-----
# change this only if AUTOMATION model/IP changed
# available model:
# GDC ACS-2800: ACS2800
#-----
HAS_AUTOMATION = False
AUTOMATION_MODEL = 'ACS2800'
AUTOMATION_IP = '10.7.33.10'

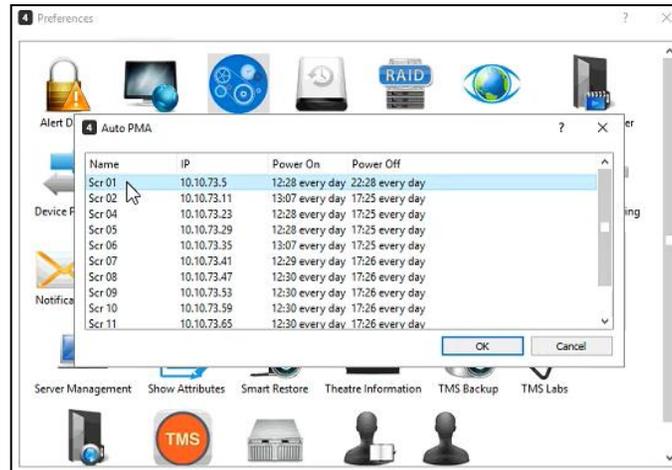
#-----
# change this only if PROJECTOR model/IP changed
# available model:
# Christie Series 1: CHRISTIE
# Christie Series 2: CHRISTIE S2
# Christie Series 3: CHRISTIE S3
# NEC Series 1: NEC
# NEC Series 2: NEC S2
# Sony SRX-R608: SONY SMS 600
#
#
# HAS_PROJECTOR = True
#-----
HAS_PROJECTOR = True
PROJECTOR_MODEL = 'CHRISTIE S3'
PROJECTOR_IP = '10.103.164.72'
PROJECTOR_USERNAME = 'service'
PROJECTOR_PASSWORD = 'service'

#-----
# default settings. no need to change unless you know what you are doing
#
TMS4_EXE = "C:\\Program Files (x86)\\GDC\\TMS\\tms4.exe"
Z_MINUTES = 5 * 60
T1 = 120
T2 = 60
T3 = 1 * 60
N = 3
hit = 0;
LIFE_IN_SECONDS = 3600 * 6

```

8.30.3. Uploading Modified Auto-PMA Scripts

The modified Power ON & Shutdown PMA scripts every need to be uploaded within the Auto-PMA feature. Go to **Tools** → **Preferences**. Click on the **Auto-PMA** icon.



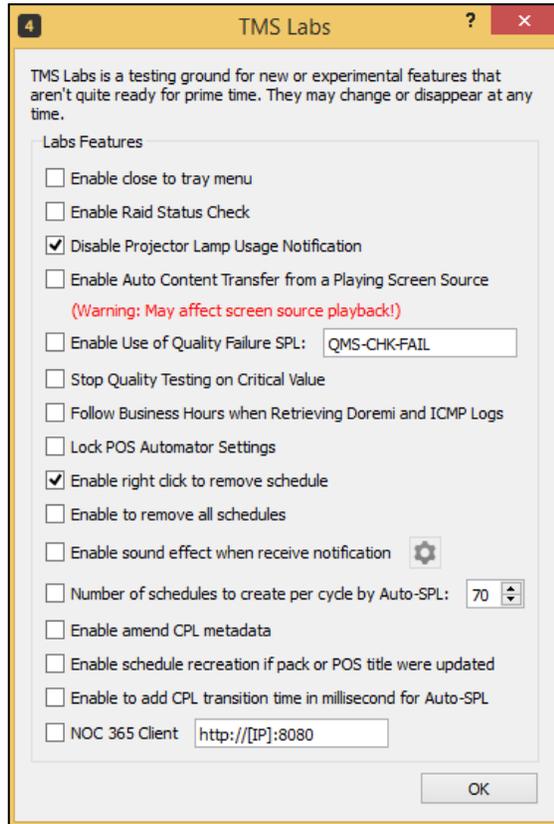
Double-click on the particular screen. Enable the '**Power On**' & '**Power Off**' sections & use the **Browse Script** button to search & select the Power ON/ Power OFF script which were created in the previous step. Select the appropriate script file depending on the screen chosen.

You can also set the time of the day when these scripts should be executed by either selecting the '**Every day at**' option and mentioning the exact time OR by selecting the '**minutes before the first/last show**' option & mentioning the number of minutes before the first show/after the last show, the Power On/Shutdown scripts should be executed. Once the scripts have been selected, click on **OK** button. Repeat the same for other screens as well.



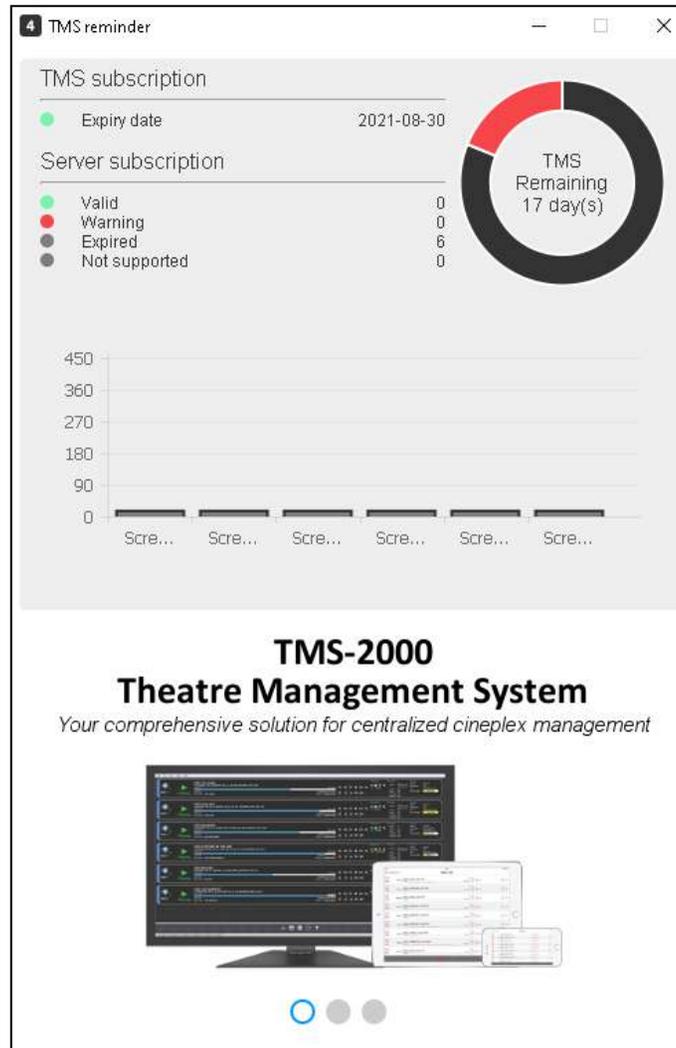
8.31. TMS Labs

TMS Labs is a testing ground for new or experimental features that aren't quite ready for prime time. They may change or disappear at any time.



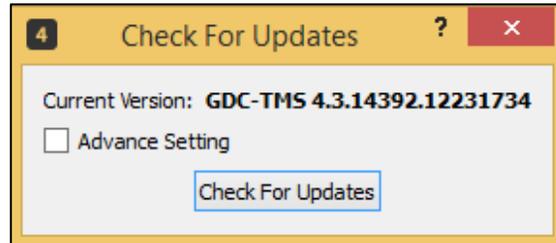
9. TMS REMINDER

TMS reminder provides information about TMS license and server's registered to it. A reminder will be prompted to the user if TMS license expiry date is less than 90 days. Alternatively, it can also be accessed from the **Help** → **About reminder** menu option.

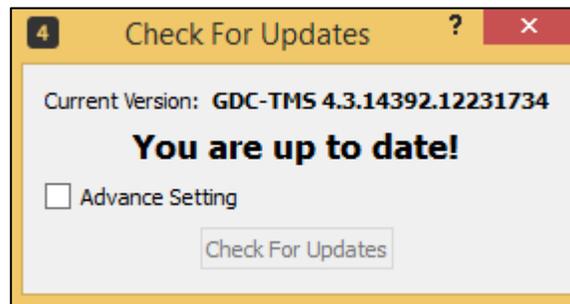


10. CHECK FOR UPDATES

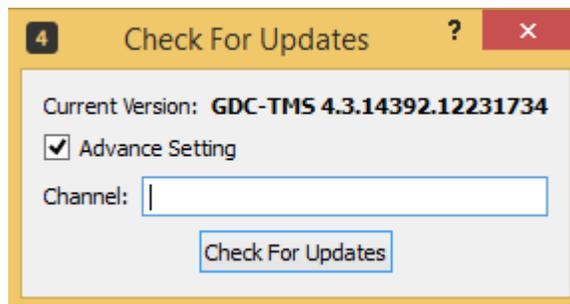
With the [**Check for Updates**] option from the Help menu, users can periodically check for latest TMS updates.



If there are any new released versions of GDC TMS available, then the system will download and upgrade the TMS to the latest available released version. If there are no new versions available, then the system will display, '**You are up to date**' message.



The [**Advance Setting**] and [**Channel**] options can be used to download any specific version of GDC TMS that is not yet released but maybe required for specific customers or regions. For such cases, GDC will provide the specific channel name for downloading the TMS version.

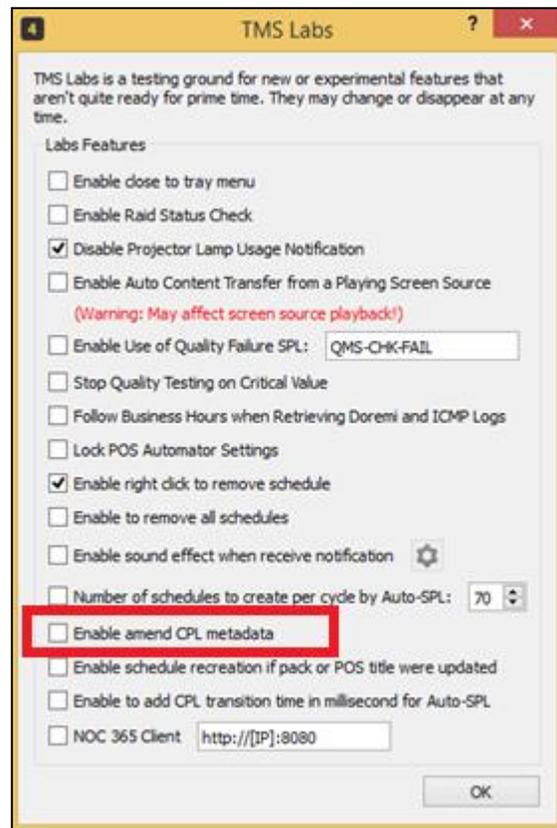


11. ADDITIONAL FEATURES

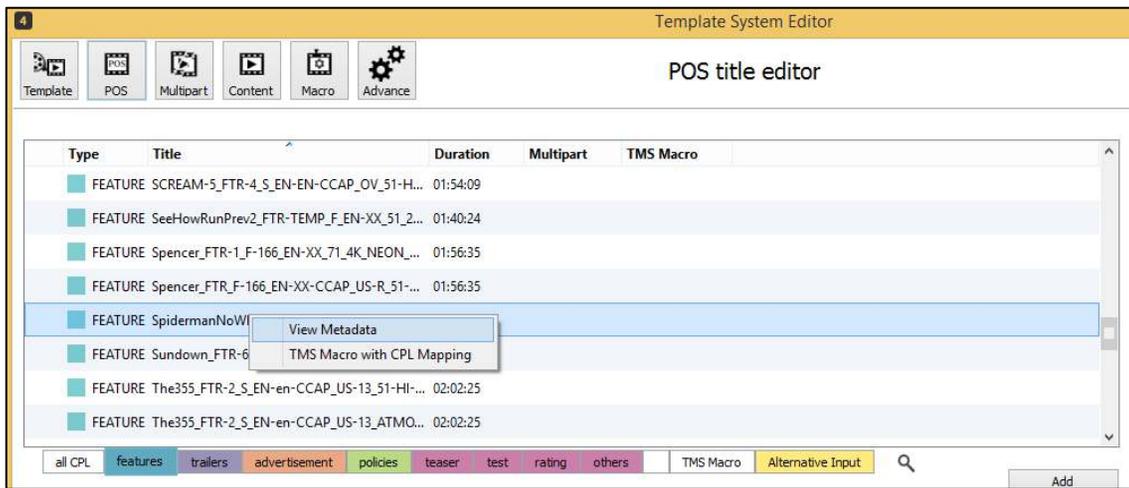
11.1. Amend CPL Metadata

This feature allows users to modify the CPL Metadata. This feature can be used in cases where the CPL metadata information is missing or is set incorrectly.

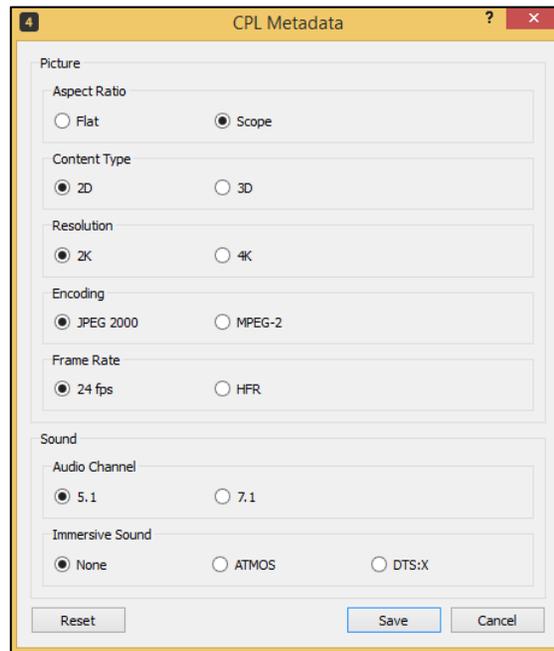
The option to amend the CPL Metadata is disabled by default. The option can be enabled from **Tools** → **Preferences** → **TMS Labs** → **Enable Amend CPL**.



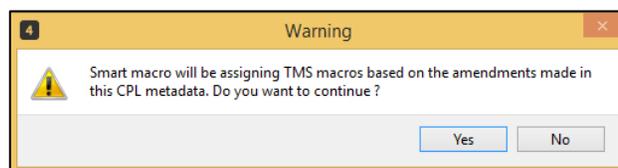
To view or amend the CPL Meta data, navigate to the **View** → **Template System** → **POS** → **Match Title** screen. Select and right-click on the CPL and click on 'View Metadata' option.



The following screen will display the metadata of the selected CPL. User can accordingly modify the metadata and save the information.



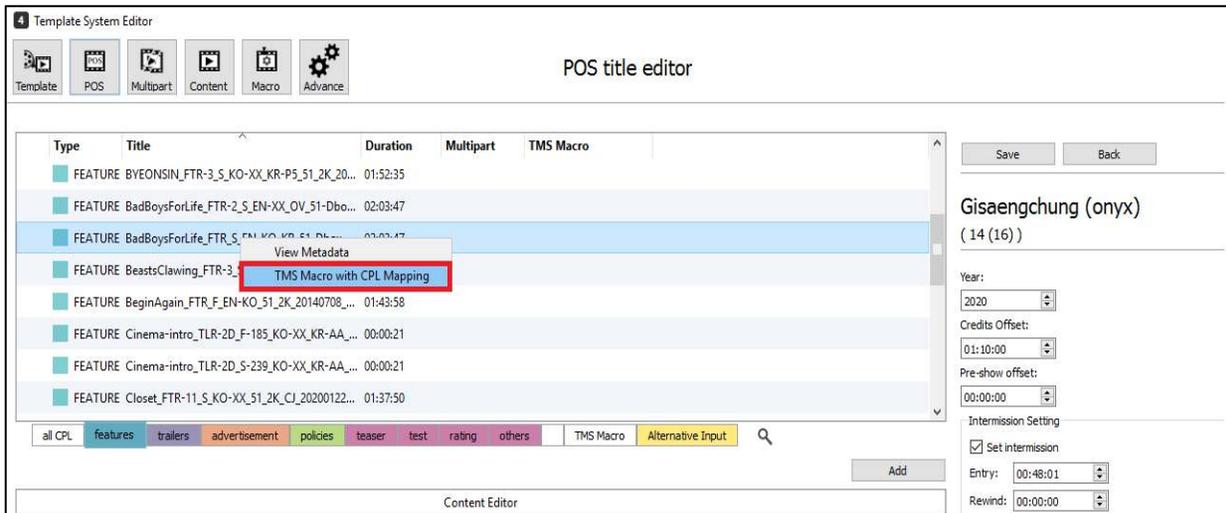
TMS will prompt with the following warning. Click [Yes] to save the metadata.



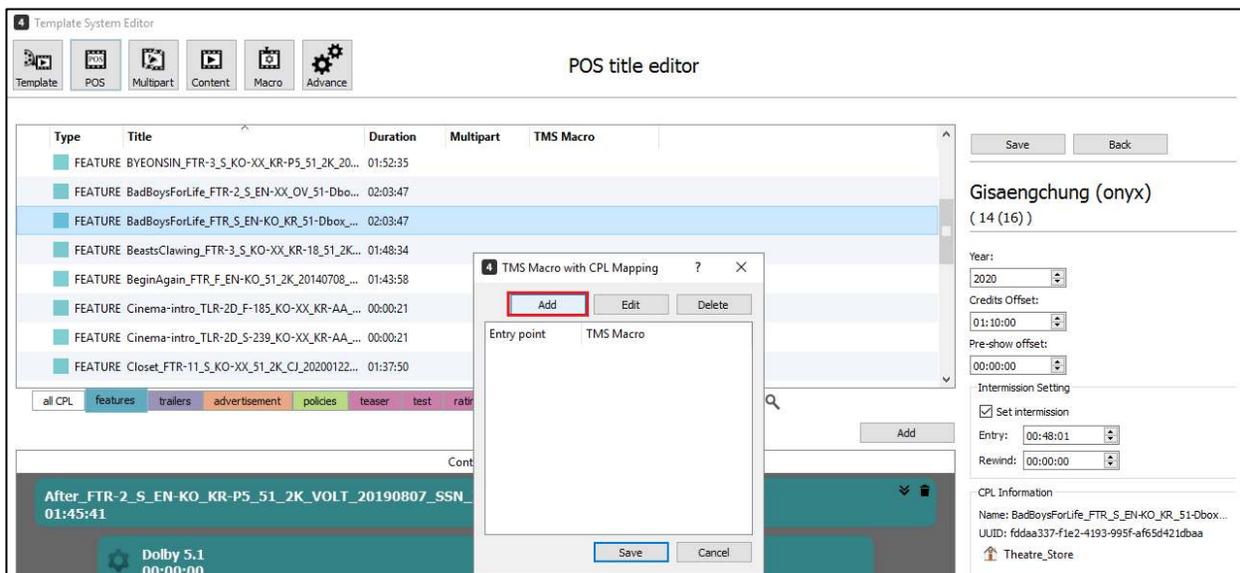
11.2. TMS Macro with CPL Mapping

TMS also allows the ability to set TMS Macro for individual CPLs within the template system. This allows users to map a macro from the list of available TMS macros, to a particular CPL. Once the macro is mapped to a particular CPL, it gets programmed automatically with the CPL whenever that CPL is programmed in a pack or mapped to a POS title within the template system.

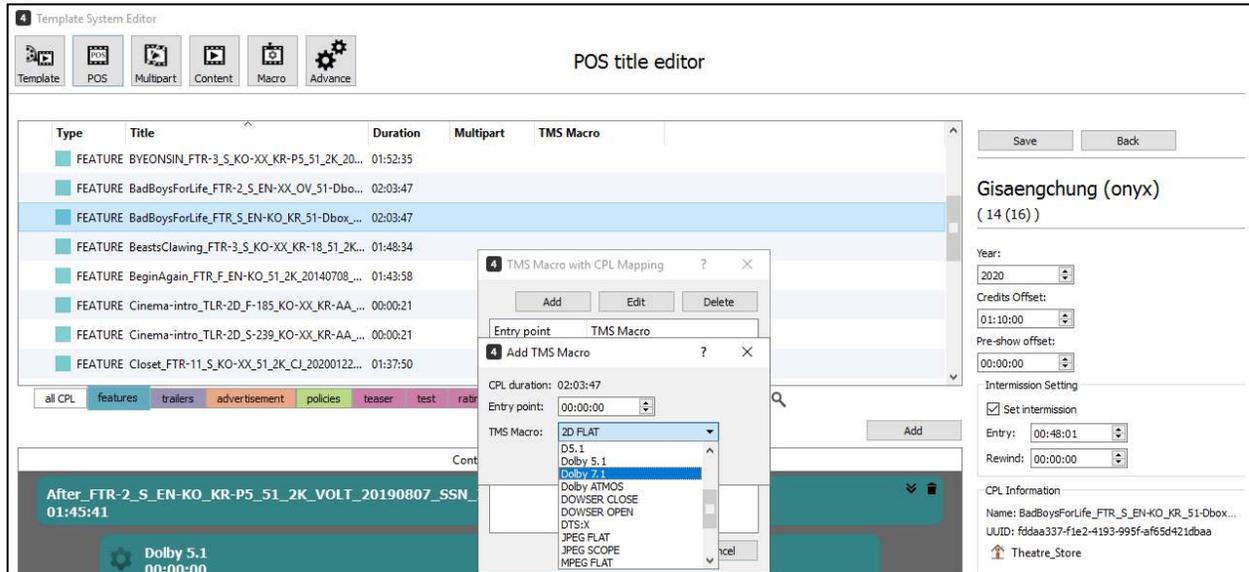
To use this feature, navigate to the **View** → **Template System** → **POS** → **Match Title** screen. Select and right-click on the CPL and click on 'TMS Macro with CPL mapping' option.



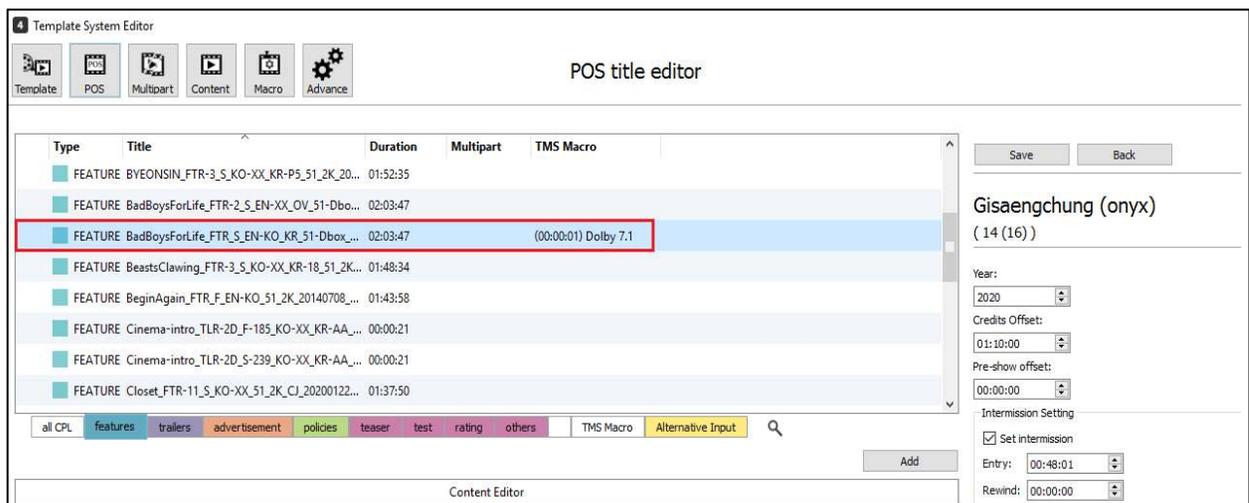
Click on the 'Add' button in the subsequent screen.



Select the appropriate TMS Macro from the list of available macros in the 'TMS Macro' dropdown selection and set the entry point at which the macro should be executed in the CPL.



Click the save button to complete the macro mapping process. The TMS macro is displayed alongside the CPL.

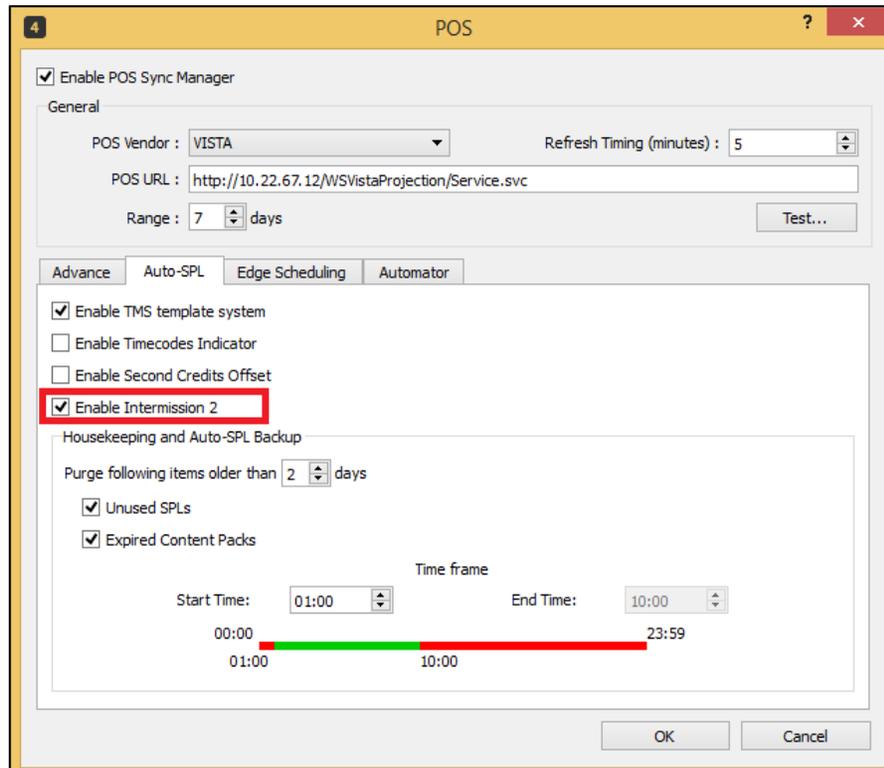


Similarly, TMS Macros can also be mapped with CPLs using the Content and the Macro Pack tabs as well.

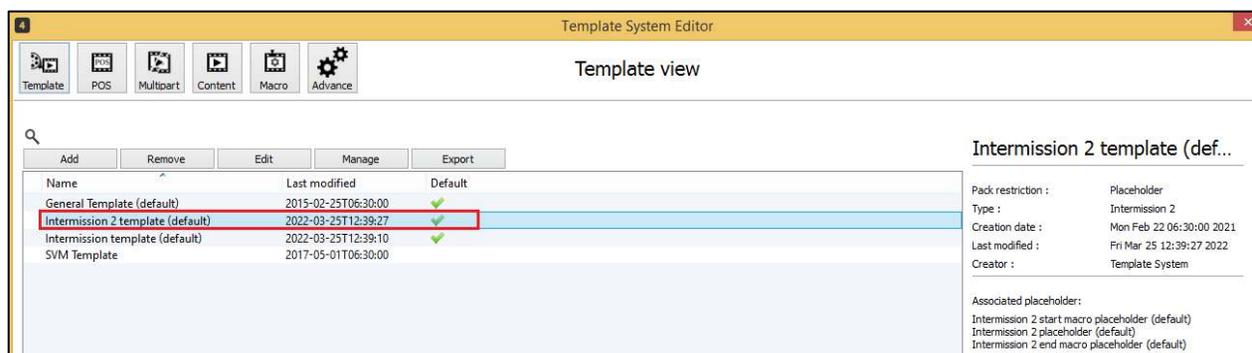
11.3. Programming Intermission 2

TMS also allows the option for programming a second Intermission.

To enable this feature, navigate to **Tools → Preferences → POS → Auto-SPL**. Under Auto-SPL, check the 'Enable Intermission 2' check box.

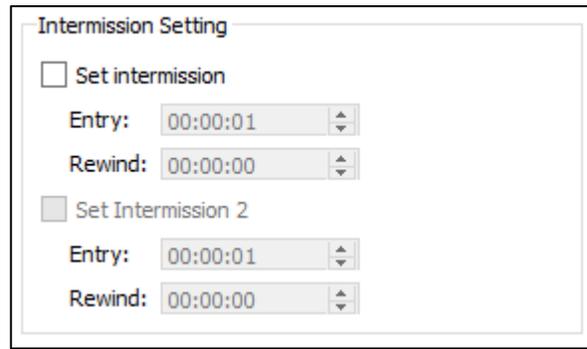


Additionally, the 'Intermission 2 template' should also be enabled by setting it as a default template.



User can then program the Intermission 2 by following the same procedure as explained for the main intermission under **Section 6.1.3.2**.

- User must enable the main intermission to be able to program a second intermission. Once the main intermission is enabled by checking the 'Set Intermission' check box, the 'Set Intermission 2' option is enabled.



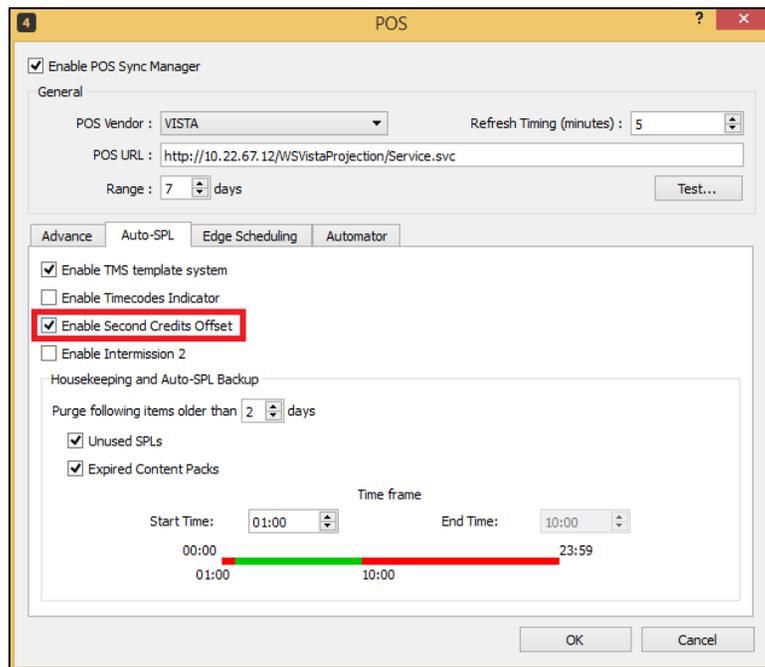
The screenshot shows a dialog box titled "Intermission Setting". It contains two main sections. The first section, "Set intermission", has a checked checkbox and two time input fields: "Entry:" with a value of "00:00:01" and "Rewind:" with a value of "00:00:00". The second section, "Set Intermission 2", has an unchecked checkbox and two time input fields: "Entry:" with a value of "00:00:01" and "Rewind:" with a value of "00:00:00". All time input fields have small up/down arrow icons to their right.

- Entry point of Intermission 2 should be greater than the Entry point of the main intermission.
- Intermission 2 can only be programmed using the Template system and not using the manual method of SPL programming.
- Intermission 2 is not supported using the Multipart content option. If Intermission 2 is required for features with multiple parts, then all the parts for that feature should be added during the POS title mapping similar to the process followed for single part features.
- For multiple CPLs; duration of intermission's entry point will consider the total duration of all CPLs mapped to the POS title. In cases where the entry point of the intermission falls on succeeding CPLs (example: CPL2....CPL n) and the rewind time assigned falls within the duration of the previous CPL (example: CPL 1), then rewind cue point will be at the start (00:00:00) of the succeeding CPL.

11.4. Programming Second Credits Offset

TMS also allows programming a second credits offset.

To enable the Second Credits Offset, navigate to **Tools** → **Preferences** → **POS** → **Auto-SPL**. Under Auto-SPL, check the 'Enable Second Credits Offset' check box



Similar to the main Credits offset, a Second Credits Offset has been made available in the TMS Macro mapping section.

Macro Mapping						
TMS Macro	Screen 01	Screen 02	Screen 03	Screen 04	Screen 05	Screen 06
3D FLAT	✓ 3D_FLAT_19...	✓ 3D_FLAT_1998				
3D FLAT HFR	✗	✗	✗	✗	✗	✗
3D SCOPE	✓ 3D_SCOPE_...	✓ 3D_SCOPE_2048				
3D SCOPE HFR	✗	✗	✗	✗	✗	✗
4DX_EMPTY	✗	✗	✗	✗	✗	✗
4DX_PLAY	✗	✗	✗	✗	✗	✗
4DX_STOP	✗	✗	✗	✗	✗	✗
4K 3D FLAT	✗	✗	✗	✗	✗	✗
4K 3D SCOPE	✗	✗	✗	✗	✗	✗
4K JPEG FLAT	✗	✗	✗	✗	✗	✗
4K JPEG SCOPE	✗	✗	✗	✗	✗	✗
CREDITS	✓ CREDITS	✓ CREDITS	✓ CREDITS	✓ CREDITS	✓ CREDITS	✓ CREDITS
Dolby 5.1	✗	✗	✗	✗	✗	✗
Dolby 7.1	✓ VOL 7.0	✗	✗	✗	✗	✗
Dolby ATMOS	✗	✗	✗	✗	✗	✗
DOWSER CLOSE	✗	✗	✗	✗	✗	✗
DOWSER OPEN	✗	✗	✗	✗	✗	✗
DTS:X	✗	✗	✗	✗	✗	✗
JPEG FLAT	✓ DCI_XYZ_FL...	✓ DCI_XYZ_FLAT				
JPEG SCOPE	✓ DCI_XYZ_S...	✓ DCI_XYZ_SCOPE				
MPEG FLAT	✗	✗	✗	✗	✗	✗
MPEG SCOPE	✗	✗	✗	✗	✗	✗
PAUSE	✓ PAUSE	✓ PAUSE	✓ PAUSE	✓ PAUSE	✓ PAUSE	✓ PAUSE
PLAY	✓ PLAY	✓ PLAY	✓ PLAY	✓ PLAY	✓ PLAY	✓ PLAY
PRE-SHOW	✓ START_ADV...	✗				
SECOND CREDITS	✓ ALL LIGHTS...	✗	✗	✗	✗	✗
SX_CLEAR	✗	✗	✗	✗	✗	✗
SX_PRJ_OFF	✗	✗	✗	✗	✗	✗
SX_SLV_OFF	✗	✗	✗	✗	✗	✗

The default **SECOND CREDITS** TMS Macro is used by Template System as the Second credit cue that is placed in the credit offset section configured for the POS title when generating schedules and show playlist.

Year:

Offset

Pre-show:

Credits:

Second Credits:

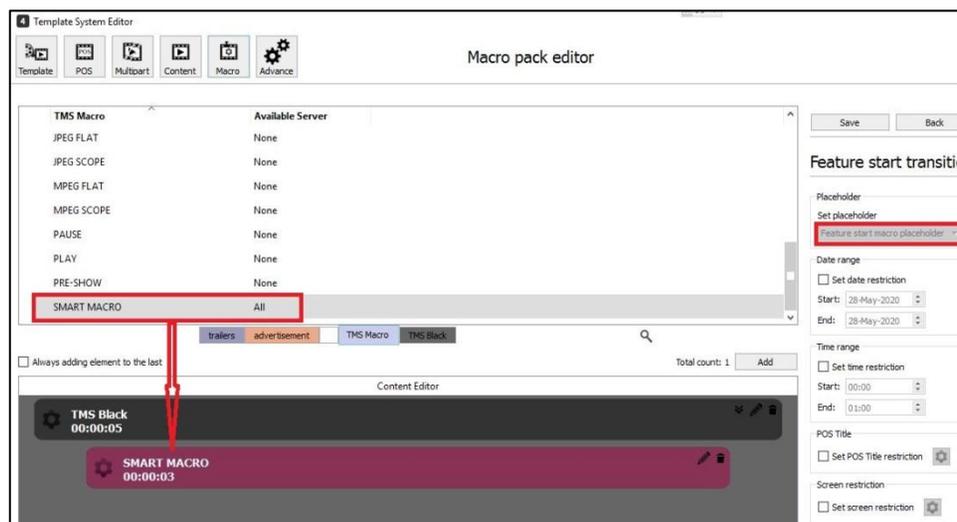
11.5. Smart Macros

A "SMART MACRO" when programmed in a pack, will automatically apply the right automation cues for sound and projector for the next CPL based on the CPL properties and the TMS Macro Mappings.

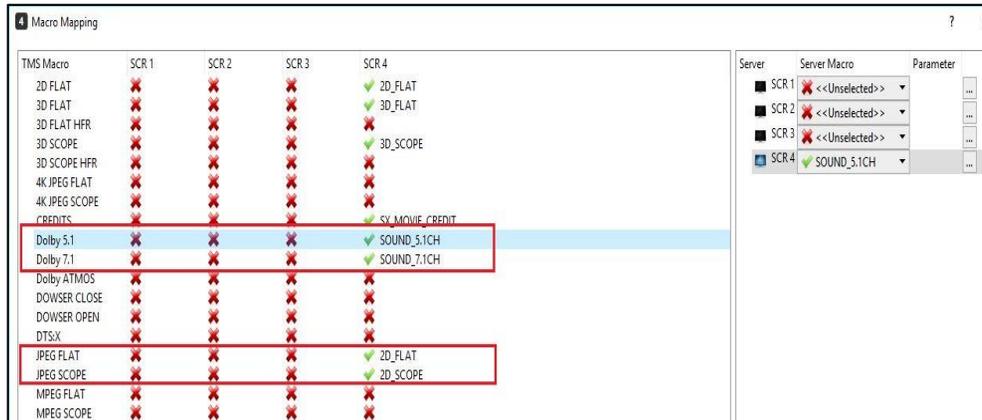
The user does not need to program individual Sound and Projector macros if the SMART MACRO is used.

For example: If a "SMART MACRO" is programmed in a macro pack before a Feature CPL, then the template system will check the format of the Feature CPL and will automatically match and insert the appropriate sound macros (for example: Sound 5.1 or Sound 7.1) and the projector macros (for example 2D Flat or 2D Scope), without having the user to add these macros individually. The process to use a SMART MACRO is the same to that of any other macro, which has been explained under **Section 6.1.3.5**.

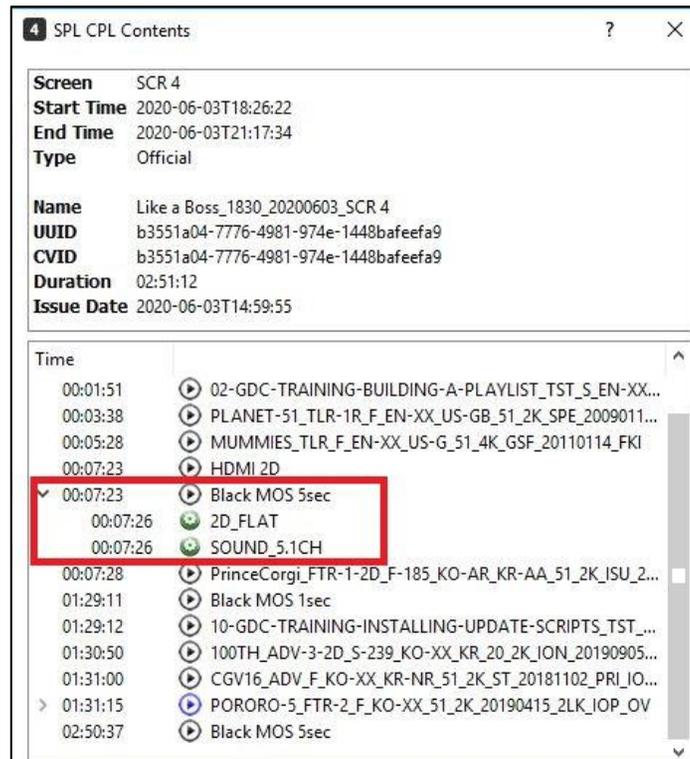
The following is an example of usage of SMART MACRO.



The TMS then uses its intelligence to automatically insert the appropriate sound and projector macros based on the TMS Macro mapping.



The following is a typical playlist generated using a SMART MACRO.



Website



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