Media System
Installation and User Guide

ContentCentre Server

Micro - Player

ContentPlayer
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Safety Warnings

There are no user serviceable components inside. Do not remove covers. Refer servicing to qualified service personnel. To avoid risk of electric shock the power cord protective ground conductor (if fitted) must be connected to ground.

To avoid overheating, do not position the ContentCentre or ContentPlayer near heat sources, ensure that the ventilation holes are not blocked by any obstructions and that air flow to each product is adequate. If either unit is fitted in a rack ensure there is adequate shelf spacing above and below it.

These products and their remote controls contain lithium batteries. There is a danger of explosion if the battery is incorrectly replaced. Replacement should only be carried out by an approved service centre. Disposal of batteries should be performed according to the manufacturer’s instructions.

Do not expose these products to rain or moisture.

EEC: This equipment has been designed and type-tested to comply with EU requirements.

FCC Warning: This equipment generates and can radiate radio frequency energy and if not installed and used correctly in accordance with our instructions may cause interference to radio communications or radio and television reception. It has been type-tested and complies with the limits set out in Subpart J, Part 15 of FCC rules for a Class B computing device. These limits are intended to provide a reasonable protection against such interference in home installations.
Manufacturer Information

The Stream ContentCentre and ContentPlayer products are manufactured under the Stream Media Servers brand name of Server Serve-ice Ltd. (hereafter referred to as SSI), registered in England no. 7370060.

Disclaimers

Copyright

This equipment must not be used for unauthorised duplication of CD’s, video media or any other works protected by copyright. No license to infringe copyright is granted by the sale of this equipment.

If media is inserted in to the ContentCentre or copied and subsequently stored it is assumed that you are permitted to copy and replay the media in your geographical region and have the content owner’s permission to do-so.

If you intend to store Compact Discs or video media on this device ensure you own the originals and keep them as a backup. SSI take no responsibility for loss of data on this device due to malfunction, failure or incorrect operation.

Limitation of liability

SSI cannot be held responsible for any losses incurred during the use of this equipment including but not limited to the loss.

Information about this guide

This document is for informational purposes only. SSI makes no representations or warranties, express or implied, regarding the accuracy or completeness of the information contained herein. E&OE.
Overview

This guide describes how to prepare the installation site and network for a Stream Media Server system. It also describes the basic operation and configuration of the Stream Media Server system components.

The Stream Media Server System

The Stream Media Server system comprises one or more ContentCentre media storage server connected via Ethernet to one or more ContentPlayer media players.

ContentCentre stores Videos, Music and Pictures and delivers this content to ContentPlayers connected to Audio and Video equipment.

The Stream Media Server system can easily be integrated into audio, video and home control/distribution systems, such as AMX, Control4, Crestron, DemoPad, RTI and Wyrestorm.

A Stream Media Server system can be as simple as a single ContentCentre and ContentPlayer in one room. Thanks to energy conscious design and passive cooling, both the ContentCentre and ContentPlayer are practically silent in operation and do not necessarily need to be sited in an equipment rack.

The design of the Stream Media Server system is such that it can be easily expanded by connecting more players around the network, allowing for playback of different media per room with different audio soundtracks if required. The ContentPlayer can automatically downmix multichannel audio soundtracks for two channel audio playback devices (e.g. Smart TVs) where required. For example, in installations where the equipment is centrally located in an equipment rack, one ContentPlayer can be installed for dedicated multichannel FullHD Audio and Video playback in a home cinema, whilst another can be connected to an HDMI Distribution system to provide stereo playback to other areas in the home.
System Components

ContentCentre

The ContentCentre is available in 3TB, 6TB, 8TB and 12TB storage capacities. The case is made entirely from black anodised aluminium. It has a red power indicator and integral high speed BD/DVD/CD Optical Drive.

ContentPlayer

The ContentPlayer has an identical case style to the ContentCentre with a blue power indicator. It doesn’t have internal hard discs and the operating system, video and audio libraries are stored on solid-state flash. This enables fast start-up and completely silent operation. The ContentPlayer has an integral high speed DVD/CD Optical Drive for local playback of DVD and CD media.
Stream Micro

Stream Micro is a compact, passively cooled player with a **blue** power indicator. It is designed for location in remote zones and can be vesa mounted. It has a solid-state internal drive containing the operating system, video and audio libraries together with additional storage of up to 30GB of media for portable use.

Stream Micro does not have a DVD/CD Optical drive but one can optionally be connected via USB to one an available High Speed port, and will be automatically detected.
Optional Rack Shelf

Both the ContentCentre and ContentPlayer can be rack-mounted using a suitable ventilated 2U shelf (Chief Part No. CHI-SHELF-02U-V recommended). The design of the front lip and feet allows the player/server to “clip in” to the shelf and held securely.

Power Supply

Both the ContentCentre and ContentPlayer are supplied with a 12V 60/72W PSU with an IEC C13 mains lead. The Stream Micro is supplied with a 19v 60/65W PSU with an IEC C5 mains lead. Only the supplied Power Supply set should be used.

System Control

It is envisaged that Stream Media Server Systems are typically controlled by an appropriate, integrated 3rd party control system such as AMX, Control4, Creston, DemoPad, RTI, etc. We provide driver and support documentation for Control4 integration.

An open XBMC® API is freely available based on JSON-RPC, through which practically every aspect of ContentPlayer function can be controlled with feedback to the control systems. Bespoke AMX and RTI drivers are under development and will be provided shortly as standard. In the interim, appropriate drivers are readily available from others. A Web User Interface (WUI) is provided for ContentCentre system configuration and status feedback.

A Configuration IR remote Control (Part No. STR-RM) is available to configure the ContentCentre and provides access to basic system functions. Please note that this does not ship with the system as standard but is available separately FOC, upon request when ordering your Stream ContentPlayer.
Optional Configuration IR Remote Control
(Part No. STR-RM)

Functions:
Standalone RF User Remote/Mini Keyboard
(Part No. STR-RF-KB)

A standalone RF User remote / mini-keyboard (Part No. STR-RF-KB) is available as an optional accessory for installations where a 3rd party control system is not being deployed.

**Bang & Olufsen Support**

Stream Media Servers also support ‘plug-and-play’ integration with Bang & Olufsen by using the Beoport ‘IR puck’ with compatible Beovision Displays/Systems.
Logitech Harmony

The infrared system in the ContentPlayer is compatible with Windows Media Center RC6 remote control commands. There are a number of manufacturers including Logitech who manufacture remote controls/databases pre-programmed with these codes.

To add Stream to a Logitech Harmony remote control, use the software or web address supplied (e.g.: myharmony.com) with the device and use the following search criteria to add a compatible device:
**Control Apps**

Generic XBMC® Control Apps suitable for Steam ContentPlayer control are also freely available for iOS and Android devices which provide full-featured, open source remote control including standard transport and navigation keys, library browsing and now playing information.

**Media Storage**

The ContentCentre media storage server uses Hard Disk drives specifically designed for long-term reliability whilst reducing power consumption, noise and vibration. In capacities over 3TB storage is distributed across two or three drives which are combined into a single logical volume.

Depending on type, the ContentCentre stores media in standardised lossless formats ready for delivery to ContentPlayers and other playback devices. The media is shared across the network through read-only SMB/CIFS shares called Movies, TV Shows, Music and Pictures. An additional overall SMB/CIFS share called Files provides read and write access to all of this media, which is useful for applications where the user may want to delete or rename the media.

The advantage of storing and presenting media over a network in this way is that it makes the ContentCentre highly compatible with the majority of multimedia playback devices. It also means that the ContentCentre can be used as a NAS (Network Attached Storage) device for all of the multimedia in the home.

When the ContentCentre detects that optical media has been inserted it uses a number of algorithms in combination with online databases to name the media. Video is containerised in .mkv files which contain the main video together with all the supplemental audio soundtracks and subtitles. When disc capture is complete the file is named for easy identification and cataloguing by the ContentPlayer.
Audio media is captured in the lossless FLAC format in subfolders according to artist and album. FLAC not only provides a highly compatible space-conscious file format; it also supports advanced media tagging and high bitrates that other lossless formats cannot. By implementing this the ContentCentre even has support for capture of media from higher resolution DVD Audio discs.

**Media Backup**

As hard disk technology becomes more reliable and failure rates reduce, it is debatable whether using RAID (redundant array of independent disks) to provide a backup in the same box is a sensible use of valuable disk space, particularly as other environmental issues (such as a lightning strike) may lead to the damage of multiple or all drives.

By using the *files* network share in conjunction with a suitable NAS drive on the same network it is possible to backup and schedule backups of all media on the ContentCentre which provides a separate, safer location for backup media.
Installation Requirements

The equipment required to install a Stream Media Server system depends on the installation site and system configuration.

Power

The ContentCentre and ContentPlayer should each be connected to a high-quality surge protector with sufficient outlets. Power outlets should be earthed and preferably shielded from power surges and brownouts. A UPS is recommended.

Network

The site network must meet the following minimum requirements:

- High-speed internet connection
- Gigabit Ethernet Switch with sufficient ports
- CAT5E or better twisted-pair Ethernet cables with RJ45 connectors

Note: For ease of setup the MAC Address of the ContentCentre and ContentPlayer are printed on the serial number labels on the outer cartons and underside of the units.

Ventilation

Whether rack-mounted or standalone, both the ContentCentre and ContentPlayer must have adequate ventilation. Avoid siting either unit above other AV Components such as AV Receivers, Set-top Boxes and Blu-ray players which produce a lot of heat.

Always allow at least 1U clearance above and below the ContentCentre and ContentPlayer. Both units will get warm as they operate.

Use cooling fans and ventilation plates to ensure adequate airflow if the Stream Media Server system components are installed in a rack.
Audio Cables

The ContentPlayer is shipped pre-configured to deliver simultaneous Audio and Video Playback through HDMI in 5.1 channel mode. It is also possible to set multichannel formats to be downmixed to 2 channel, or to output multichannel or stereo audio from other outputs. Information on how to do this is in the Audio Settings section of this manual.

Video Cables

The ContentPlayer is shipped pre-configured to deliver video output through HDMI. You must use a high quality High Speed HDMI to connect to other HDMI devices. It is also possible on some models to set video output through DV-I and VGA Connections. Please note that it is not possible to simultaneously output video on multiple Video connections on the ContentPlayer.
Connections

ContentCentre

USB Ports for Keyboard/Mouse (optional) or Wireless Remote

PSU Input  Gigabit Network  VGA  HDMI

ContentPlayer

Analogue Audio Out
LIGHT BLUE: Rear
LIME: 2CH or Front
PINK: Sub/Centre

DVI-D
Optional Mouse/Keyboard  HDMI  VGA  USB Ports for Keyboard/Mouse (optional) or Wireless Remote Device  PSU
Setup Types

The following diagrams show some examples of different installation applications together with the settings required.

**Single Room Home Cinema**

This example shows a single ContentCentre and ContentPlayer installed in a single Home Cinema setup.

- The ContentCentre and ContentPlayer are both connected to a Gigabit switch which connects to the incoming internet router.
- The ContentPlayer connects via HDMI to the AVR.
- The AVR connects via HDMI to the Display.
- The ContentPlayer automatically negotiates the optimum resolution settings for the display.
- The default preset audio settings can be used for audio (5.1 HDMI, Dolby Digital, DTS, AAC, Multichannel LPCM, TrueHD, DTS-HD Capable Receiver).
Centrally Distributed System

This example shows a centrally distributed system using an HDMI Matrix. A single ContentCentre and ContentPlayer are installed and distributed to multiple Displays.

- The ContentCentre and ContentPlayer are sited in a rack and are both connected to a Gigabit switch which connects to the incoming internet router.
- The ContentPlayer connects via HDMI to the Matrix.
- The Matrix connects via HDMI or CAT5 extenders to the Displays.
- The ContentPlayer automatically negotiates the optimum resolution settings for the displays with the matrix.
- With newer (multichannel capable) displays some of the default preset audio settings can be used for audio (5.1 HDMI, Dolby Digital and DTS Capable Receiver), but AAC, LPCM, Dolby TrueHD and DTS-HD capabilities are disabled.
- For displays that do not support multichannel audio it is necessary to switch off Dolby/DTS support and set audio downmix to on.
Centrally Distributed System with Home Cinema

This example shows a centrally distributed system using an HDMI Matrix. A ContentCentre and ContentPlayer are installed and distributed to multiple Displays.

- The ContentCentre and ContentPlayers are sited in a rack and are both connected to a Gigabit switch which connects to the incoming internet router.
- The first ContentPlayer connects via HDMI to the Matrix.
- The Matrix connects via HDMI or CAT5 extenders to the Displays.
- The second ContentPlayer connects via HDMI to the AVR.
- The first ContentPlayer automatically negotiates the optimum resolution settings for the displays with the matrix.
- As with the Centrally Distributed system some of the default preset audio settings on the first ContentPlayer can be used for audio (5.1 HDMI, Dolby Digital and DTS Capable Receiver), but AAC, LPCM, Dolby TrueHD and DTS-HD capabilities are disabled.
- For displays that do not support multichannel audio it is necessary to switch off Dolby/DTS support and set audio downmix to on on the first ContentPlayer.
- On the ContentPlayer for the Home Cinema zone the default preset audio settings can be used for audio (5.1 HDMI, Dolby Digital, DTS, AAC, Multichannel LPCM, TrueHD, DTS-HD Capable Receiver).
Note: When siting the ContentPlayer and ContentCentre in a rack with an AVR and other heat generating equipment ensure that plenty of space allowance is made for heat dissipation / ventilation.
First time setup

Starting Up/Shutting Down

Due to the storage capabilities of the ContentCentre it is very important that it is started and shutdown correctly. Do not under any circumstances remove the power connection or hold the power button to shut down the unit unless advised to do-so by a support technician. Instead, a single press of the power button starts the ContentCentre shutting down in a safe manner.

In the event of a power cut the ContentCentre will automatically analyse it’s filesystem and repair it if necessary. This may take an long time for units with large storage capacity (sometimes > 24 hours)

Using the Stream Media System for the first time

1. It is not necessary to have a permanent video connection to the ContentCentre. However, depending on the router being used it might be preferable, for first-time setup, that a display or monitor is connected to help identify the IP Address allocated to it by the router.

2. Connect the supplied PSUs to the ContentCentre and ContentPlayer using the connection diagram on pages 11-14 of this manual.

3. Check that the network cables connected to the ContentCentre and ContentPlayer are correctly connected to the network switch and have an internet connection.

4. Make sure that an HDMI, VGA or DVI cable is connected to the ContentPlayer and that a Display device is connected to the other end. This is very important - without a valid video connection the ContentPlayer will not start up.

5. Press the power button once on the ContentCentre and ContentPlayer to switch them on.
6. Both units will display startup screens, shortly followed by the main menu on the ContentPlayer and a network connection page on the ContentCentre.

**First time setup - using the ContentCentre**

The design of the Stream Media system is such that there is no-need for user intervention other than inserting discs to store them.

To ensure reliable operation and control of the system it is recommended that the IP Addresses of both the ContentCentre and ContentPlayer are fixed either through the Network Settings page on the ContentCentre, or reserved/bound to the MAC Addresses of the units using the router. This is essential if one or more ContentPlayers are being integrated with a Control System.

When the ContentCentre first starts it will display it’s IP Address from the video output. This is the only function the video output serves:
ContentCentre - the Web User Interface (WUI)

Using an internet browser on a PC/Mac or mobile device on the same network type in the IP Address displayed on the TV Output or the hostname for the ContentCentre (note: the Hostname can be changed from the Network and Time settings page from a browser).

The WUI (web user interface) main status page will load. The Hostname/IP address of the ContentCentre is always displayed at the bottom left, together with the software version running on the unit. The remaining storage space is shown to the right to it, divided into media categories.

The black status box in the middle-right of the page populates with information according to what the ContentCentre is doing. For example, if the ContentCentre is capturing a disc a Capture progress bar will be displayed at the bottom of the box, together with Cover Art above it (if available).
ContentCentre WUI - Capture Settings

The capture settings section of the WUI contains settings to optimise the automated disc capture progress:

- **Capture any tracks longer than ___ seconds**
  With video media by default, the ContentCentre automatically detects the contents of a disc and discriminates how it is stored. When a disc is inserted analysis of track information's used to decide whether the disc should be treated as a TV Show. If it is the files on it are stored in the **tv shows** Folder. Otherwise the ContentCentre assumes that the disc is a Movie and stores it in the movies folder. You can override these settings, although it is not recommended. To do so tick this setting and choose the minimum track length to be captured. If this option is set TV Show Discrimination no longer works and items will need to be manually sorted from the Movies folder by the user.

- **Create a mobile copy (MP4)**
  When this option is checked the ContentCentre automatically creates a reduced sized copy of the video in MP4 format and places it in the **Mobile** media share on the ContentCentre, for use with phones and tablet devices. Note that this is very processor intensive and can take several hours, dependant on the complexity and size of the media.
• **Always store media in a separate folder**  
  When this option is checked all media is stored in a separate folder named the same as the media. Note that this is automatic for media that has more than one track (like TV Shows)

**ContentCentre WUI - Network/Time**

The Network/Time settings section of the WUI contains settings to fix the IP Address and name of the ContentCentre as well as adjust the time and time zone:

![ContentCentre WUI - Network/Time](image)

- **Time Zone**  
  (Default Europe/London) - sets the time zone on the ContentCentre. Press the submit button once a timezone has been selected.

- **Networking**  
  System name - the Hostname of the ContentCentre (default contentcentre)  
  Workgroup - the network workgroup for the ContentCentre  
  IP Address - the fixed IP address for the ContentCentre  
  Gateway - the network gateway  
  DNS1/2 - the Primary and Secondary DNS for the network
ContentCentre WUI - Licenses

The Licenses section of the WUI contains the license codes for the in-built capture software and optionally for MyMovies.dk.

Every ContentCentre has pre-licensed capture software. The license code for this should only be changed if prompted by technical support.

Due to licensing restrictions it is not possible to pre-license the MyMovies.dk lookup engine, although doing so provides greater accuracy for disc lookups and more metadata within the media file, including coverart.

A MyMovies.dk API Access license costs $20USD and is available from [http://www.mymovies.dk/purchase-api-access.aspx](http://www.mymovies.dk/purchase-api-access.aspx). Once the license has been registered enter the username and password provided by MyMovies.dk in the settings menu and press the submit button to enable it in the ContentCentre.
ContentCentre WUI - Maintenance

The Maintenance section of the WUI provides the option to update the ContentCentre software and check for storage problems.

**Update Software**

Click this button to retrieve the latest software for the ContentCentre. Once complete the button will display **Updated**. Use the **Restart ContentCentre** button to restart and apply the software update.

**Email Logs**

Click this button when requested by a support engineer to send Diagnostic logs to Stream to help resolve any issues.

**Delete Logs**

Click this button to clear all logs stored on the system. Only normally necessary if requested to by a support engineer.
**Restart Ripper**

Click this button if you are having difficulty capturing a disc. This restarts the capture engine.

**Restart ContentCentre**

Click this button to reset and restart the ContentCentre. Note that network and WUI connections to the ContentCentre will not be available for up to one minute while the ContentCentre restarts.

**ContentPlayer - Accessing Media from other devices**

The ContentCentre stores media as organised files and folders and shares it across the network through read-only SMB/CIFS shares labelled Movies, TV Shows, Music and Pictures. An additional overall SMB/CIFS share called Files provides read and write access to all of this media, which is useful for applications where the user may want to delete or rename the media.

By organising network shares in this manner it is easy to stream media to any media player that supports the container (mkv for video) and file formats used. It also enables easy backup of all media using suitable software and a NAS or local drive.
Accessing media using a Windows PC

From a File Explorer (not Internet Explorer!) window, type the hostname or IP address of the ContentCentre, preceded by two backslashes. By default the hostname is ContentCentre.

The window will populate with the available media shares on the ContentCentre. Note that all of the shares except files are read only. The files share contains read/write versions of the same shares. The image below shows an example window after double-clicking the movies share.
Accessing media using a Mac

Depending on the network setup of the Mac the ContentCentre may appear in the left pane of a finder window. You can alternatively connect to the ContentCentre using the finder icon. To do this right-click or Control-click the Finder icon and choose **Connect to Server**...

![Finder Icon with Connect to Server Option]

Type in smb:// or cifs:// followed by the hostname of the ContentCentre (followed by .local if using a hostname).

![Connect to Server Window]

Then click **Connect**.
Finder will prompt for a username and password. Click **Guest** and then **Connect** again.

![Login Prompt](image)

Finder will prompt for a network share to connect to. In this case choose **Files** and click **OK**. A Finder window will open with read/write folders representing Music, Movies, TV Shows and Pictures.

**Once you have access to the media shares on either a PC or a Mac**

Media can be dragged on and off the read/write shares. You can also rename media (be careful to keep the file extension intact), map the network drive for easy access in the future (or create a file link using Finder), and also use scheduled backup software in conjunction with the local drive or a NAS Drive.

**ContentPlayer/Stream Micro - Interface Overview**

The Graphical User Interface (GUI) on the ContentPlayer and Stream Micro are functionally similar but operate in a different orientation. Stream Micro can optionally be set to use the same interface as the ContentPlayer but the default setting is usually preferable and faster to use. In the following sections the same features are available on the Stream Micro by using the Up/Down buttons in place of the Left/Right and Vice Versa.
ContentPlayer - Video Settings

By default the ContentPlayer is preset to auto-detect video settings, regardless of the video connection type. Because of this it will not start up correctly unless a display, AVR or Matrix are connected to it first. Do not connect or disconnect HDMI connections while the player is on as this may damage either the ContentPlayer or connected device.

When the ContentPlayer is first used it may be desirable to calibrate the screen size to perfectly match the display device it is connected to. To do this navigate left or right from the main screen to the Settings menu, press select and then navigate down to System and then Video Output.

Select Video Calibration and then follow the on-screen prompts to set the top left and lower right corners using the navigation keys. When complete press the Back button to store the settings and return to the previous menu.
ContentPlayer - Audio Settings

By default the ContentPlayer is preset to output 5.1 channel audio through the HDMI connection. It is also preset to pass Dolby Digital, DTS, AAC, Multichannel LPCM, Dolby TrueHD and DTS-HD audio through the HDMI connection.

In some cases it may be necessary to change these settings or change the audio output device (for example Optical or Analogue audio).

To change the Audio Settings navigate left or right from the main screen to the Settings menu, press select and then navigate down to System and then Audio Output.

Use the Select button to switch the various audio options on and off. Use the Select button to switch between the various Audio Output options when Audio Output Device is highlighted. If a digital audio output is used it is also possible to use the Passthrough Output Device option to choose how non-decoded digital signals are passed through to the AVR / Matrix / Display. Note that some displays are not capable of decoding multichannel or HD audio signals and in this case if may be necessary to change the Speaker Configuration to 2.0 and switch off the various capability options.
ContentPlayer - Audio Settings Table

Recommended audio settings for Displays, AV-Rs, Matrices

<table>
<thead>
<tr>
<th>Setting</th>
<th>Stereo TV</th>
<th>Smart TV (DTS)</th>
<th>HDMI Matrix</th>
<th>AV-R (HD Audio)</th>
<th>AV-R (Pre 2010)</th>
</tr>
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<tbody>
<tr>
<td>Audio Output</td>
<td>HDMI</td>
<td>HDMI</td>
<td>HDMI</td>
<td>HDMI</td>
<td>HDMI</td>
</tr>
<tr>
<td>Speaker Config.</td>
<td>2.0</td>
<td>2.0</td>
<td>5.1</td>
<td>5.1</td>
<td>5.1</td>
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<tr>
<td>Boost Vol. level on Downmix</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Output Stereo to all Speakers</td>
<td>YES</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>Dolby Digital (AC3) Capable Receiver</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>DTS Capable Receiver</td>
<td>NO</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>AAC Capable Receiver</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
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<tr>
<td>Multichannel LPCM Capable Receiver</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>TrueHD Capable Receiver</td>
<td>NO</td>
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<td>NO</td>
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<td>DTS-HD Capable Receiver</td>
<td>NO</td>
<td>NO</td>
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<td>NO</td>
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<tr>
<td>Audio Output Device*</td>
<td>ContentPlayer: Set to HDA NVIDIA, [model] ON HDMI#0 StreamMicro: Set to HDA INTEL, [model] ON HDMI#0</td>
<td></td>
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<tr>
<td>Passthrough Output* Device</td>
<td>ContentPlayer: Set to HDA NVIDIA, [model] ON HDMI#0 StreamMicro: Set to HDA INTEL, [model] ON HDMI#0</td>
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<tr>
<td>Play GUI Sounds</td>
<td>Optionally set yes or no for audible GUI Feedback</td>
<td></td>
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</tbody>
</table>

* [model] indicates the EDID Model presented to the device. For a matrix this may be GBE Matrix, for a Display the first three characters are usually the manufacturer, e.g.: TOS (TOSHIBA), JVC etc.
ContentPlayer - Initial Configuration

Before the Stream Media system is handed over to the customer it is important to decide what features are applicable to the installation and configure the ContentPlayer to only display these options to keep operation simple.

By default the ContentPlayer ships with the following functions available from the main menu:

- **Music** - Displays the Music Library
- **Movies** - Displays the Movie Library
- **TV Shows** - Displays the TV Show Library
- **Images** - Displays the Photo Library
- **Weather** - Displays the weather
- **Settings** - Provides access to the ContentPlayer settings
- **Shutdown** - Shuts down the ContentPlayer

Any of these menu features can be enabled or disabled. Additionally it is possible to enter the settings menu by connecting a USB keyboard and pressing the S key, whether or not the Settings function is enabled in the main menu.

To change the available functions highlight **Settings** from the main menu and press select (or press S on a keyboard). Then highlight **Skin** and press select.
Next highlight **Shortcuts/Backdrops** and navigate right to find the function you want to change.

Press **Select** and then use the up/down navigation keys to highlight **activate / deactivate** (as appropriate) and press **select**.

Press the back key to return to the previous menu.

**NOTE:** Once the Settings menu has been disabled you can only access it by plugging in a keyboard and pressing $.  

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ContentPlayer - Videos, Movies and TV Shows

The ContentPlayer is pre-configured to use a ContentCentre as a Video source for it's libraries. When the library is updated the ContentPlayer automatically scans the video content and acquires metadata from an online database. An optional timed update plugin is also available which can re-scan library content every few hours.

It is important to understand the distinction between Files and Libraries to see how to navigate to and play media from the ContentPlayer. The easiest way to understand this is to consider the Movies and TV Shows menus simply as organised catalogues of the video files that you own. When the media scanner (which manages these libraries) starts, it runs through the filenames on the ContentCentre in the Movies and TV Shows shares, and matches them against metadata (Biographies, Ratings, Cover Art etc.) from online media databases. In the majority of cases the SmartTitling features of the ContentCentre provide accurately formatted filenames to make this process as accurate as possible.

However, depending on the type of media stored on the ContentCentre there may not be online information available, or the title will need some user-intervention before metadata can be accurately matched from the online database. For this reason the default view from the Movies or TV Shows menu will only be titles that the ContentPlayer has found and considers to be an accurate match to the file name.
From the Main Screen navigate left or right to either Movies or TV Shows and press select.

After a short wait the ContentPlayer will display the Movie or TV Show library on the screen. By default this is displayed in Showcase mode. Use the left and right navigation keys to select a Movie or TV show.

You can change the view type at any time by pressing using either the Up or Left navigation key (depending on the view type you are currently using). This will bring a submenu from the left with the view type highlighted. Subsequent presses of the Select buttons switch between the available views. Note that you can change the view types available from this submenu as well. Press the Back button to return to navigate through your selected view type.

Depending on the view type selected the display may offer more information on the TV Show or movie highlighted after a short while, or access to an online trailer through a button shortcut.
Press the **Select** button. If the Movie or TV Show has been previously played and playback has not reached completion the ContentPlayer will offer to resume playback from the last point. Alternatively highlight **Play** to start playback from the beginning.

The **More...** Option provides access to a submenu from which items can be deleted from the library or renamed. It is also possible to start a scan of the library manually for media that has been added to the ContentCentre by choosing **Update Library**.

Additional functions of the **More...** option

- **Queue Item**: Add the title to the list of items waiting to play
- **Play From Here**: Start playback
- **Remove from Favourites**: Remove the item from favourites if it has previously been added
- **Add to Favourites**: A Movie or TV show can be added to a favourites list and then added to the main menu bar
- **Movie Information**: Display the metadata for the Movie or TV Show
- **Mark as Watched**: Marks the Movie or TV Show as watched in the Library
• **Edit Title:** Brings up an on-screen keyboard where the title of the Movie or TV Show can be changed (for more accurate lookups from the online database)

• **Remove From Library:** Removes the Movie or TV Show from the library and optionally deletes it from the ContentCentre

If a Movie or TV Show has been added to *Favourites* it can be added to the main menu bar through the *Shortcuts/Backdrops* menu described earlier in this manual by selecting one of the five favourite menu bar items and allocating (and optionally renaming) the favourite to it:
ContentPlayer - Video Files

From the main screen on the ContentPlayer it is also possible to select files that are not in the Movie or TV Shows Library.

Use the navigation keys to highlight either Movies or TV Shows and then press the **down** button. This will open a submenu, use the **left** and **right** navigation keys to select *File*... and press **Select**.

This will initially open a list of available areas to browse.

To open a file list view of everything that is in either the *Movies* or *TV Shows* shares on the ContentCentre highlight either *Movies* or *TV Shows* and press the select button.

By default this information is presented as a list, but as with the libraries it is possible to switch views. Note that if you do this the last seen view will be shown when you return to the files menu, and items that are not in the library or have no metadata will have blank coverart or a generic icon. For this reason it is recommended that the File List view is always selected.
ContentPlayer - Adding Video Files from another Storage Device

It is possible to have multiple media sources in the same library. This is particularly useful if you already have a selection of media on a secondary storage device such as a NAS Drive.

Note that the media should be organised and named according to the Film or TV Show title for it to be correctly identified in the library.

Media can also be stored in separate folders; the Library scanner can automatically scan sub-folders.

To add a secondary or tertiary video store:

Use the navigation keys to highlight either Movies or TV Shows and then press the down button. This will open a submenu, use the left and right navigation keys to select File... and press Select.
Highlight **Add Videos...** and press **Select**. On the next Window select **Browse**.
The ContentPlayer supports multiple networking and file sharing protocols. The most common of these for NAS Drives is Windows Networking (SMB - also known as CIFS).

Scroll down the browser list to select Windows Network (SMB) and press Select.

On the next window choose the Windows Workgroup where the secondary storage device is located (e.g.: Workgroup or NAS) and press Select. Then use the same method to choose the network device and shared folder on the device that you wish to use, and select OK.
The next Window reverts to the original File Browser Window, this time with the network path of the device you just selected. At this point, if you wish, you can set a name for the network device (in the example below “Other Movies”).

Select **OK**.

Finally you need to set the Content Type so that the Library knows what to scan for and what external database it should use to get metadata for the media. Choose Movies or TV Shows appropriately, or choose None if you do not wish the ContentPlayer to collect metadata.

You can also choose whether the Library scanner should treat each folder on the storage device as a single item (for example where films are stored in individual folders with coverart and other metadata). The scanner can also scan recursively through folders for media (if the content you are using is organised in to category folders, for example).
When all the options have been set press **OK**. The Library scanner will give the option to run an immediate scan of the media to update the Library.
ContentPlayer - Managing Media Files

The ContentPlayer has a built-in file manager which is useful for copying and moving media stored on the ContentCentre or any other network storage device.

To access the File Manager from the main menu, highlight the Settings menu and press the **down** button. Highlight **File Manager** and press **Select**.

The File Manager will be displayed. At this point, if you have previously added storage devices to the File Manager they will be displayed.

To add a storage device to manage, highlight **Add Source** and press **Select**. If your Network storage device is compatible with SMB/CIFS (Windows Network Shares) then choose **Windows Network (SMB)**.
In the next window, **highlight** and **select** the appropriate Windows Workgroup, and from the following menu **highlight** and **select** the network device you wish to manage media from, for example **ContentCentre**.

In the next window, highlight the network share that you wish to add to the File Manager. Note that on the ContentCentre it is important to remember that you can only **fully** manage (ie. rename or delete) files.
stored in the **Files** share. So in this case **highlight** and **select files** and then (for example) **TV Shows** or **Movies**.

At this point you can optionally choose a name for the media store (by default this is the name of the folder). **Highlight** and **select** the **OK** button.

Repeat the process outlined above for all the network storage devices on which you wish to manipulate media.

Once the File Manager has been setup as you want it you can easily move files between two locations (for example a Movie in the TV Show folder to the Movie folder). This can be done by selecting the appropriate storage devices/folders in the left and right windows of the File Manager and then using the **Navigation Keys** and **Context Menu** button to select, copy, delete and rename files.
ContentPlayer - Music

The ContentPlayer is pre-configured to use a ContentCentre as an Audio source for it's libraries.

To play music from the ContentCentre:

Navigate to the Music option from the main menu and press select. Depending on the viewtype last selected a list or graphical library is presented.

Use the Navigation keys to step through media. Pressing select opens a folder where the contents (e.g. tracks) can be individually selected or edited.